



Shire of  
**Narrogin**

## MINUTES

### ROAD REFERENCE GROUP MEETING

30 March 2021

The Chief Executive Officer recommends the endorsement of these minutes at the next Meeting of the Road Reference Group

Signed: .....

(CEO)

Date 30 March 2021

These minutes were confirmed at the Road Reference Group Meeting held on ..... 28 APRIL 2021

Signed: .....

(Presiding Person at the meeting at which minutes were confirmed)

### **Acknowledgement of Noongar People**

The Shire of Narrogin acknowledges the Noongar people as traditional custodians of this land and their continuing connection to land and community. We pay our respect to them, to their culture and to their Elders past and present.

Naatj ngiyan Birdiya Gnarojin kep unna nidja Noongar Moort ngaala maya nidja boodjera baarlap djoowak karlerl koolark. Ngalak niny ngullang karnan balang Bibolman baalap borong koora wer boorda.

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## 6. MATTERS WHICH REQUIRE DECISIONS

Councillor Wiese declared an impartiality interest on this item with respect to Chomley Rd.

### 6.1 REVISED 10 YEAR ROAD PROGRAM 2021/22-2030/31

File Reference	28.4.4
Disclosure of Interest	Neither the Author nor Authorising Officer have any Impartiality, Financial or Proximity Interests that requires disclosure.
Applicant	Shire of Narrogin
Previous Item Numbers	Item 10.2.1, 24 April 2019 Res.0419.009
Date	8 March 2021
Author	Torre Evans – Executive Manager Technical & Rural Services
Authorising Officer	Dale Stewart – Chief Executive Officer
Attachments	<ol style="list-style-type: none"><li>1. Ten Year Road Program 2021/22 – 2030/31</li><li>2. List of Current Quartz Paved Roads</li></ol>

#### Summary

The Road Reference Group is requested to discuss and consider recommending the proposed revised Ten Year Road Program 2021/22-2030/31 to Council for adoption, as presented at Attachment 1. The proposed program is a planned direction for the preservation of the Shire of Narrogin's road network asset including sealed and unsealed roads. The program enables the Shire's budgeting process to continue into the future including the Shire's Long Term Financial Plan and Annual Budgeting.

#### Background

At Council's Ordinary Meeting 24 April 2019, Council adopted a Ten Year Road Program 2019 – 2029 that took into account the 2016 TALIS road asset management condition report, valuable local road condition knowledge of the Manager Operations. Prior to going to Council, the program was discussed with the Road Reference Group of the day.

The proposed revised Ten Year Road Program 2021/22 – 2030/31 is a continuation of the current that adds additional roads and brings certain roads forward due to successful grant funding, additional roads being added to the Wheatbelt South Regional Road Group (WBSRRG) 2030 Road List and efficiencies within the works crew.

#### Consultation

The proposed Ten Year Road Program was formulated by the Manager of Operations base on his vast local road condition experience and knowledge, and in consultation with the Executive Manager Technical & Rural Services (EMTRS). The proposed program is now being presented to the Road Reference Group for discussion prior to being recommended to Council for adoption.

## Statutory Environment

Local Governments are required to have Asset Management Plans in place pursuant Local Government Act 1995.

## Policy Implications

Council Policy 12.11 Asset Management Plans relates.

## Financial Implications

The proposed Ten Year Road Capital Works Program 2021/22 – 2030/31 will need to be considered in the context of the Shire's Long Term Financial Plan and Annual Budgeting process.

Attachment 1 addresses the financial implications for the Revised Ten Year Road Program.

## Strategic Implications

<b>Shire of Narrogin Strategic Community Plan 2017-2027</b>	
Outcome:	1.3 An effective well maintained transport network
Strategy:	1.3.1 Maintain and improve road network in line with resource capacity
Outcome:	3.4 A well maintained built environment
Strategy:	3.4.1 Improve and maintain built environment

## Comment/Conclusion

The revised road program is presented to the Road Reference Group for consideration, discussion and finally recommendation to Council. The revised program is presented in the same format of that which it will supersede as seen in attachment 1.

The author thought it prudent to update the current road program so as to provide Council and staff with guidance to provide sustainable and responsible Budgeting processes i.e. Long Term and Annual, however give direction for staff to plan with future works programs to maintain and preserve this valuable and extensive asset.

The proposed road program as well as the present also allows the Shire to demonstrate its future road asset management plan to Grant Funding bodies both State and Federal i.e. Roads to Recovery (RTR) and Regional Road Group (RRG).

A brief overview of grant funding is as follows:

### RRG funding

This is based on a one third – two thirds arrangement whereby Council must contribute one third of the cost of the nominated road project. Nominated road projects can only be on roads registered in the 2030 RRG list whereby these roads must meet a criteria to be eligible for RRG grant funding. The Shire of Narrogin currently is entitled to amalgamation funding for five years from 2018/19 and reverts back to single entity funding from 2023/24. Amalgamating Councils receive a maximum allocation of 100% of the average allocations that combined councils received three years immediately prior to the amalgamation or 75% of the combined maximum allocation, whichever is the greatest, for a period of five years.

## RTR funding

This is administered by the Federal Government and supports the maintenance of the nation's local road infrastructure asset, which facilitates greater access for Australians and improved safety, economic and social outcomes. Under the Roads to Recovery Program, direct funding to local councils is distributed according to a formula based on population and road length set by the Local Government Grants Commissions in each state and the Northern Territory. Each Council's Roads to Recovery allocation is fixed for the life of the Program, which generally runs for a period of five years.

## Gravel Road Re-sheeting

Due to the changing nature of gravel roads compared to a sealed road, an allocation of \$400,000 annually, rather than nominating a particular gravel road, is preferred. At a cost of around \$20,000 per kilometre to form up and re-sheet a gravel road, this equates to approximately 20 kms per annum which is conducive of the current adopted Ten Year Road Program. There are also other variables to consider here e.g. distance to transport gravel, vegetation and drainage requirements. Gravel roads put forward annually are roads considered high priority for that financial year.

## Sealed Road Defect Stabilisation

The current adopted Ten Year Road Program identifies the need to conduct pavement stabilisation works throughout the sealed road network. An allocation of \$100,000 per annum has been adopted (since 2017) and has been continued into the Revised Ten Year Road Program to rectify any such sealed pavement defects that present. Due to the unpredictable nature of pavement failures, works are identified on an annual basis and are prioritised in order of severity and need. It is worth noting that this provision of \$100,000 for pavement stabilisation, has worked and on an annual basis has proved effective in providing financial confidence to make necessary repairs to unforeseen and known pavement failures.

## Road Improvement Projects

When assessing the Shires road network for potential improvements it is worth considering a number of road improvement categories i.e. sealing of gravel roads, seal extensions to part sealed roads, widening of roads, reducing curves and blind spots, realigning cambers, major drainage upgrades and re-sheeting quartz rural roads with gravel etc.

Factors that were considered for selecting roads included:

- Traffic volumes
- Commodity transport use
- Maintenance costs – gravel vs seal
- Quality of trafficable road surface
- Road safety

The Shire has a number of rural roads remaining (approx. 100 kms) that were sheeted with quartz as opposed to gravel. Unfortunately, quartz has proven to be problematic regarding the size of the aggregate used in the re-sheeting pavement, with some roads being up to 60 mm or greater in diameter with sharp edges. The sharp edges on the quartz aggregate have led to truck and car tyres being damaged with multiple complaints being received.

The practice of re-sheeting the rural road network using quartz ceased in 2016 following independent testing of the material where it failed to meet the Australian Road Research Board (ARRB) standards for road construction, (report previously supplied to the Road Reference Group).

From 2023/24 to 2030/31 within the Revised Road Program, Road Improvements Projects have been put forward as quartz rural roads being re-sheeted with gravel at \$100,000 per annual Budget that allows for approximately 4 kms to be completed using local contractor services. This also includes the purchase and pushing of local gravel using local contractors.

The \$100,000 identified from municipal funding for the conversion of quartz pavement to gravel does not include wages for Shire construction staff as did in past road improvement projects which have predominantly been for new sealing of gravel roads. Shire staff wages have been allocated to required maintenance activities such as rural vegetation control and drainage etc. It is acknowledged that Shire staff would be used on the roads to be re-sheeted from quartz to gravel to carry out any pruning of vegetation as required under the maintenance account.

Road Improvement Projects funded with municipal funds (predominantly from rates) will need to be considered within the annual Budgeting processes against all competing Community and Council requests and requirements to deliver a balanced Budget within a tight fiscal environment.

The Road Reference Group may wish to consider and discuss alternate road projects other than re-sheeting quartz pavement with gravel.

#### Points of Interest - Revised 10 Year Road Program

At the WBSRRG Technical Working Group meeting held 9 November 2020, the EMTRS put forward application to the representatives to include Whinbin Rock Road, the new section of Wanerie Road from Narrakine South Road to the Great Southern Hwy and Dongolocking Road for inclusion into the RRG 2030 Road List to attract RRG grant funding to construct and maintain these assets into the future rather than funding this with municipal funds. The Technical Group supported the application by the EMTRS at that meeting.

At the WBSRRG meeting held 12 March 2021, it was resolve by the voting delegates to accept the minutes of the WBSRRG Technical Group meeting thus endorsing the three mention roads as part of the RRG 2030 Road List.

Whinbin Rock Road funding is moved from municipal to partially funded under RRG Grant Funding in 2023/24 and is programmed to have the gravel pavement constructed and bitumen sealed with completion in 2025/26.

It is important to note that the proposed revised Ten Year Road Program is a plan based on current road conditions and can be reviewed and revised annually to take into account changing road conditions due to traffic movement, community needs, environmental factors such as extreme weather events, unexpected grant funding and financial availability or restraints.

## Voting Requirements

Simple Majority

### OFFICERS' & REFERENCE GROUP RECOMMENDATION

Moved: Cr Ballard

Seconded: Cr Broad

That, with respect to the Revised Ten Year Road Program 2021/22 – 2030/31, the Road Reference Group recommend to Council:

1. To adopt the Ten Year Road Program 2021/22 – 2030/31 as presented and as per Attachment 1.

**LOST: 0/3**

There was some discussion about the issue of the RRG funding being reduced after the 2022/23 financial year. The Reference group members felt that as the new Shire still has the same number of roads as the Previous Shire and the Town, that the additional funding should be continued. They requested that the administration lobby the RRG to try to get an increase in the funding allocation.

ACTION	EMTRS to action
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There was some concern expressed that the Nomans Lake Siding Road is to have nearly \$200,000 spent on it (in 22/23 and 25/26) and it is a road that is no longer used very much. The Manager Operations (MO) explained that there is a need to maintain all of the Shire sealed roads as part of the asset management. Once this work is completed, if the traffic volume on the road is low, it will most likely not need to be resealed for a long time.

Discussion then moved on to other sealed roads which were not included in the Revised Ten Year Road Program 2021/22 – 2030/31.

Cr Wiese mentioned that the seal on Chomley Road is breaking up at the edges and it is in need of work but it is not included in the Revised Ten Year Road Program 2021/22 – 2030/31. It was suggested by MO that shoulder grading and edge repairs followed by resealing 2 years later would be an appropriate way to maintain this asset.

The EMTRS also commented that this small section of sealed road (less than 3 km) was a road asset that needs to be maintained and it should be shown in the Revised Road Program potentially under RTR funding.

ACTION	MO to look at Chomley Road and include it in the 10 year program
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## **REFERENCE GROUP RECOMMENDATION**

Moved: Cr Ballard

Seconded: Cr Broad

That, the administration make amendments to the Revised Ten Year Road Program 2021/22 – 2030/31 to include the reseal of the eastern end of Chomley Road in the 23/24 program and that the amended report be presented to the Reference Group for consideration in April 2021.

**CARRIED: 3/0**

# TEN YEAR ROAD PROGRAM

## 2021/22 - 2030/31



<b>Road Funding Summary</b>				
	RRG	R2R	Muni	Annual Total
21/22	\$525,000.00	\$298,577.84	\$967,500.00	<b>\$1,791,077.84</b>
22/23	\$525,000.00	\$317,540.84	\$1,009,500.00	<b>\$1,852,040.84</b>
23/24	\$355,000.00	\$302,442.84	\$777,500.00	<b>\$1,434,942.84</b>
24/25	\$355,000.00	\$301,523.84	\$777,500.00	<b>\$1,434,023.84</b>
25/26	\$355,000.00	\$296,232.84	\$777,500.00	<b>\$1,428,732.84</b>
26/27	\$355,000.00	\$299,442.84	\$777,500.00	<b>\$1,431,942.84</b>
27/28	\$355,000.00	\$317,222.84	\$777,500.00	<b>\$1,449,722.84</b>
28/29	\$355,000.00	\$331,222.84	\$777,500.00	<b>\$1,463,722.84</b>
29/30	\$355,000.00	\$307,983.84	\$777,500.00	<b>\$1,440,483.84</b>
30/31	\$355,000.00	\$294,295.84	\$777,500.00	<b>\$1,426,795.84</b>
	<u>3,890,000.00</u>	<u>\$3,066,486.38</u>	<u>\$8,197,000.00</u>	<u>\$15,153,486.38</u>

## Shire of Narrogin Proposed Ten Year Road Program 21/22

### Roads to Recovery Funded Re-Seals

	Total Area M <sup>2</sup>	Cost
Congelin Narrogin Road	8000	\$ 28,000.00
Florence Avenue	1117	\$ 3,910.00
Goldsmith Street	924	\$ 3,235.00
Lavater Street	15857	\$ 55,500.00
Narrogin Harrismith Road	11772	\$ 41,201.65
Nomans Lake Siding Road	17143	\$ 60,000.00
Reids Road	12857	\$ 45,000.00
Sagar Street	1104	\$ 3,865.00
Scadden Street	5621	\$ 19,675.00
Tarwonga Road	9435	\$ 33,021.00
Tuhoy Street	620	\$ 2,170.00
Wald Street	857	\$ 3,000.00

<b>Total R2R</b>	<b>\$ 298,577.65</b>
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### Regional Road Group Funded Projects

Extend Seal Wagin Wickepin Road	SLK 11.0 to 16.00	\$ 365,000.00
Stabilise Narrogin Harrismith Road	SLK 25.8 to 27.5	\$ 160,000.00

<b>Total RRG</b>	<b>\$ 525,000.00</b>
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### Municipal Funded Works

Annual Gravel Re-Sheeting		\$ 400,000.00
Annual Pavement Stabilising		\$ 100,000.00
Regional Road Group Contribution		\$ 262,500.00
Construct and seal 1 km Narrogin Valley Road	SLK 4.93 to 5.93	\$ 120,000.00
Construct and seal Quigley Street		\$ 28,000.00
Construct and seal Chipper Street		\$ 35,000.00
Construct and seal Leake Street		\$ 22,000.00

<b>Total Muni</b>	<b>\$ 967,500.00</b>
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<b>Grand Total 21/22</b>	<b>\$ 1,791,077.65</b>
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## ***Shire of Narrogin Proposed Ten Year Road Program 22/23***

### **Roads to Recovery Funded Re-Seals**

	<b>Total Area M<sup>2</sup></b>	<b>Cost</b>
Bottle Creek Place	2016	\$ 7,056.00
George Street	4212	\$ 14,742.00
Congelin Narrogin Road	8000	\$ 28,000.00
Highbury West Road	11429	\$ 40,000.00
Jersey Street	2857	\$ 10,000.00
Katta Road	17446	\$ 61,061.00
McCormick Way	1530	\$ 5,355.00
Narrogin Harrismith Road	11772	\$ 41,201.65
Tarwonga Road	9435	\$ 33,021.19
Newman Street	1080	\$ 3,780.00
Pitt Street	1200	\$ 4,200.00
Range Road	9286	\$ 32,500.00
Stewart Place	1140	\$ 3,990.00
Stewart Road	4104	\$ 14,364.00
Tanner Street	900	\$ 3,150.00
Wiese Road (Town)	4320	\$ 15,120.00

<b>Total R2R</b>	<b>\$ 317,540.84</b>
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### **Regional Road Group Funded Projects**

Construct and Seal McKenzie Road	SLK 0.0 to 1.8	\$ 226,667.00
Stabilise Failures on Nomans Lake Siding Road		\$ 133,333.00
Stabilise Failures on Wanerie Road		\$ 165,000.00

**\*\*Amalgamated Council RRG funding ends this year\*\***

<b>Total RRG</b>	<b>\$ 525,000.00</b>
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### **Municipal Funded Works**

Annual Gravel Re-Sheeting 20 Km in total		\$ 400,000.00
Annual Pavement Stabilising		\$ 100,000.00
Regional Road Group Contribution		\$ 262,500.00
Road Improvement Program - Narrogin		
Valley Road Extend seal to Simmons Road	SLK 5.93 to 8.42	\$ 247,000.00

<b>Total Muni</b>	<b>\$ 1,009,500.00</b>
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<b>Grand Total 22/23</b>	<b>\$ 1,852,040.84</b>
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## ***Shire of Narrogin Proposed Ten Year Road Program 23/24***

### **Roads to Recovery Funded Re-Seals**

	<b>Total Area M<sup>2</sup></b>	<b>Cost</b>
Congelin Narrogin Road	8000	\$ 28,000.00
Tarwonga Road	9435	\$ 33,021.19
Narrogin Harrismith Road	11772	\$ 41,201.65
Boothe Street	2730	\$ 9,555.00
Callan Way	4350	\$ 15,225.00
Fox Street	7143	\$ 25,000.00
Narrakine South Road	17143	\$ 60,000.00
Simmons Road	25840	\$ 90,440.00

<b>Total R2R</b>	<b>\$ 302,442.84</b>
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### **Regional Road Group Funded Projects**

Extend Seal on Whinbin Rock Road	SLK 12.0 to 15.5	\$ 355,000.00
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<b>Total RRG</b>	<b>\$ 355,000.00</b>
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### **Municipal Funded Works**

Annual Gravel Re-Sheeting 20 Km in total	\$ 400,000.00
Annual Pavement Stabilising	\$ 100,000.00
Regional Road Group Contribution	\$ 177,500.00
Road Improvement Program - Re-sheet quartz with gravel on Armstrong Road 4km	\$ 100,000.00

<b>Total Muni</b>	<b>\$ 777,500.00</b>
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<b>Grand Total 23/24</b>	<b>\$ 1,434,942.84</b>
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\*\* Whinbin Rock Road recently added to RRG 2035 List

## *Shire of Narrogin Proposed Ten Year Road Program 24/25*

### Roads to Recovery Funded Re-Seals

	<b>Total Area M<sup>2</sup></b>	<b>Cost</b>
Congelin Narrogin Road	8000	\$ 28,000.00
Tarwonga Road	9435	\$ 33,021.19
Narrogin Harrismith Road	11772	\$ 41,201.65
Graham Road Industrial Area	7290	\$ 25,515.00
Lefroy Street	10814	\$ 37,850.00
Lewis Street	1260	\$ 4,410.00
Mokine Road	18876	\$ 66,066.00
Myers Place	1560	\$ 5,460.00
Narrakine South Road	17143	\$ 60,000.00

<b>Total R2R</b>	<b>\$ 301,523.84</b>
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### Regional Road Group Funded Projects

Extend Seal on Whinbin Rock Road	SLK 15.5 to 19.0	\$ 355,000.00
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<b>Total RRG</b>	<b>\$ 355,000.00</b>
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### Municipal Funded Works

Annual Gravel Re-Sheeting 20 Km in total	\$ 400,000.00
Annual Pavement Stabilising	\$ 100,000.00
Regional Road Group Contribution	\$ 177,500.00
Road Improvement Program - Resheet quartz with gravel on Lange Road 4km	\$ 100,000.00

<b>Total Muni</b>	<b>\$ 777,500.00</b>
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<b>Grand Total 24/25</b>	<b>\$ 1,434,023.84</b>
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## *Shire of Narrogin Proposed Ten Year Road Program 25/26*

### Roads to Recovery Funded Re-Seals

	<b>Total Area M<sup>2</sup></b>	<b>Cost</b>
Congelin Narrogin Road	8000	\$ 28,000.00
Tarwonga Road	9435	\$ 33,021.19
Narrogin Harrismith Road	11772	\$ 41,201.65
Dowset Street	569	\$ 1,990.00
Ensign Street	17321	\$ 60,625.00
Halo Street	720	\$ 2,520.00
Harbour Street	714	\$ 2,500.00
Harris Street	1344	\$ 4,705.00
Hive Street	730	\$ 2,555.00
James Street	1530	\$ 5,355.00
Lydeker Way	3074	\$ 10,760.00
Nomans Lake Siding	17143	\$ 60,000.00
Odgers	857	\$ 3,000.00
Wagin Wickepin Road	11429	\$ 40,000.00

<b>Total R2R</b>	<b>\$ 296,232.84</b>
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### Regional Road Group Funded Projects

Extend Seal on Whinbin Rock Road	SLK 19.0 to 22.5	\$ 355,000.00
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<b>Total RRG</b>	<b>\$ 355,000.00</b>
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### Municipal Funded Works

Annual Gravel Re-Sheeting 20 Km in total	\$ 400,000.00
Annual Pavement Stabilising	\$ 100,000.00
Regional Road Group Contribution	\$ 177,500.00
Road Improvement Program - Resheet quartz with gravel on Highbury West Road 4km	\$ 100,000.00

<b>Total Muni</b>	<b>\$ 777,500.00</b>
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<b>Grand Total 25/26</b>	<b>\$ 1,428,732.84</b>
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## ***Shire of Narrogin Proposed Ten Year Road Program 26/27***

### **Roads to Recovery Funded Re-Seals**

	<b>Total Area M<sup>2</sup></b>	<b>Cost</b>
Congelin Narrogin Road	8000	\$ 28,000.00
Tarwonga Road	9435	\$ 33,021.19
Narrogin Harrismith Road	11772	\$ 41,201.65
Boxsell Road	10000	\$ 35,000.00
Chipper Street	1560	\$ 5,460.00
Dongolocking Road	14000	\$ 49,000.00
Elliot Street	409	\$ 1,430.00
Exeter Street	630	\$ 2,205.00
Pethyerbridge Road	11179	\$ 39,125.00
Wagin Wickepin Road	11429	\$ 40,000.00
Whinbin Rock Road	7143	\$ 25,000.00

<b>Total R2R</b>	<b>\$ 299,442.84</b>
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### **Regional Road Group Funded Projects**

Stabilise failures, upgrade drainage and re-seal Clayton Road (Town)	\$ 355,000.00
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<b>Total RRG</b>	<b>\$ 355,000.00</b>
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### **Municipal Funded Works**

Annual Gravel Re-Sheeting 20 Km in total	\$ 400,000.00
Annual Pavement Stabilising	\$ 100,000.00
Regional Road Group Contribution	\$ 177,500.00
Road Improvement Program - Resheet quartz with gravel on Manaring Road 4km	\$ 100,000.00

<b>Total Muni</b>	<b>\$ 777,500.00</b>
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<b>Grand Total 26/27</b>	<b>\$ 1,431,942.84</b>
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## ***Shire of Narrogin Proposed Ten Year Road Program 27/28***

### **Roads to Recovery Funded Re-Seals**

	<b>Total Area M<sup>2</sup></b>	<b>Cost</b>
Congelin Narrogin Road	8000	\$ 28,000.00
Tarwonga Road	9435	\$ 33,021.19
Narrogin Harrismith Road	11772	\$ 41,201.65
Dongolocking Road	14000	\$ 49,000.00
Highbury West Road	11429	\$ 40,000.00
Moyses Road	7714	\$ 27,000.00
Narrogin Valley Road	14286	\$ 50,000.00
Whinbin Rock Road	14000	\$ 49,000.00

<b>Total R2R</b>	<b>\$ 317,222.84</b>
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### **Regional Road Group Funded Projects**

Stabilise failures and asphalt Forrest Street	\$ 66,666.67
Stabilise failures, widen and seal Mokine Road	\$ 288,333.33

<b>Total RRG</b>	<b>\$ 355,000.00</b>
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### **Municipal Funded Works**

Annual Gravel Re-Sheeting 20 Km in total	\$ 400,000.00
Annual Pavement Stabilising	\$ 100,000.00
Regional Road Group Contribution	\$ 177,500.00
Road Improvement Program - Resheet quartz with gravel on Manaring Road 4km	\$ 100,000.00

<b>Total Muni</b>	<b>\$ 777,500.00</b>
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<b>Grand Total 27/28</b>	<b>\$ 1,449,722.84</b>
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## ***Shire of Narrogin Proposed Ten Year Road Program 28/29***

### **Roads to Recovery Funded Re-Seals**

	<b>Total Area M<sup>2</sup></b>	<b>Cost</b>
Congelin Narrogin Road	8000	\$ 28,000.00
Tarwonga Road	9435	\$ 33,021.19
Narrogin Harrismith Road	11772	\$ 41,201.65
Dongolocking Road	14000	\$ 49,000.00
Narrogin Valley Road	14286	\$ 50,000.00
Stewart Road	4000	\$ 14,000.00
Whinbin Rock Road	14000	\$ 49,000.00
Wickepin Harrismith Road	19143	\$ 67,000.00

<b>Total R2R</b>	<b>\$ 331,222.84</b>
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### **Regional Road Group Funded Projects**

Stabilise failures and re-seal Wandering Narrogin Road	\$ 177,500.00
Stabilise failures and seal Congelin Road	\$ 177,500.00

<b>Total RRG</b>	<b>\$ 355,000.00</b>
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### **Municipal Funded Works**

Annual Gravel Re-Sheeting 20 Km in total	\$ 400,000.00
Annual Pavement Stabilising	\$ 100,000.00
Regional Road Group Contribution	\$ 177,500.00
Road Improvement Program - Resheet quartz with gravel on Rushy Pool Road 4km	\$ 100,000.00

<b>Total Muni</b>	<b>\$ 777,500.00</b>
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<b>Grand Total 28/29</b>	<b>\$ 1,463,722.84</b>
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## ***Shire of Narrogin Proposed Ten Year Road Program 29/30***

### **Roads to Recovery Funded Re-Seals**

	<b>Total Area M<sup>2</sup></b>	<b>Cost</b>
Congelin Narrogin Road	8000	\$ 28,000.00
Tarwonga Road	9435	\$ 33,021.19
Narrogin Harrismith Road	11772	\$ 41,201.65
Andrews Street	2565	\$ 8,978.00
Ashworth Cr	3007	\$ 10,525.00
Clark St	1940	\$ 6,790.00
Clough Pl	784	\$ 2,745.00
Floyed Street	2250	\$ 7,875.00
GoRoadon Street	5568	\$ 19,488.00
Hartoge Street	1817	\$ 6,360.00
Wandering Narrogin Road	21714	\$ 76,000.00
Wickepin Harrismith Road	19143	\$ 67,000.00

<b>Total R2R</b>	<b>\$ 307,983.84</b>
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### **Regional Road Group Funded Projects**

Stabilise Failures, Upgrade Intersection and reseal Wanerie Road	\$ 355,000.00
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<b>Total RRG</b>	<b>\$ 355,000.00</b>
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### **Municipal Funded Works**

Annual Gravel Re-Sheeting 20 Km in total	\$ 400,000.00
Annual Pavement Stabilising	\$ 100,000.00
Regional Road Group Contribution	\$ 177,500.00
Road Improvement Program - Resheet quartz with gravel on Taylor Road 4km	\$ 100,000.00

<b>Total Muni</b>	<b>\$ 777,500.00</b>
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<b>Grand Total 29/30</b>	<b>\$ 1,440,483.84</b>
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## ***Shire of Narrogin Proposed Ten Year Road Program 30/31***

### **Roads to Recovery Funded Re-Seals**

	<b>Total Area M<sup>2</sup></b>	<b>Cost</b>
Congelin Narrogin Road	8000	\$ 28,000.00
Tarwonga Road	9435	\$ 33,021.19
Narrogin Harrismith Road	11772	\$ 41,201.65
Dale Street	2089	\$ 7,310.00
Garfield Street	3321	\$ 11,623.00
Moore Street	2754	\$ 9,640.00
Wandering Narrogin Road	21714	\$ 76,000.00
Wanerie Road	25000	\$ 87,500.00

<b>Total R2R</b>	<b>\$ 294,295.84</b>
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### **Regional Road Group Funded Projects**

Widen and seal Clayton Road	SLK 3.79 to 6.79	\$ 355,000.00
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<b>Total RRG</b>	<b>\$ 355,000.00</b>
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### **Municipal Funded Works**

Annual Gravel Re-Sheeting 20 Km in total	\$ 400,000.00
Annual Pavement Stabilising	\$ 100,000.00
Regional Road Group Contribution	\$ 177,500.00
Road Improvement Program - Resheet quartz with gravel on Crooked Pool Road 4km	\$ 100,000.00

<b>Total Muni</b>	<b>\$ 777,500.00</b>
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<b>Grand Total 30/31</b>	<b>\$ 1,426,795.84</b>
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## SHIRE OF NARROGIN PROPOSED MUNICIPAL ROAD IMPROVEMENT PROJECTS

Road Name	SLK Start	SLK End	Length	Current Surface	Proposed Pavement Width	Proposed Carriageway Width	Estimated Cost	Year
Dongolocking Road	8.00	10.98	2980	Unsealed	10m	7m	\$315,421	2020-21
Moss Street	0.00	0.61	610	Unsealed	10m	7m	\$85,562	
Earl Street South	0.93	1.06	130	Unsealed	10m	7m	\$29,201	
Quigley Street	0.14	0.36	220	Unsealed	10m	7m	\$27,306	
Chipper Street	0.07	0.25	180	Unsealed	10m	7m	\$34,426	2021-22
Leake Street	0.23	0.32	90	Unsealed	10m	7m	\$21,358	
Narrogin Valley Road	4.93	8.42	3490	Unsealed	10m	7m	\$367,419	2022-23
<b>Total</b>							<b>\$880,693</b>	

Roads Sheeted With Quartz as of March 2021				
Road Name	Start SLK	End SLK	Width	Length
Manaring Road	0.01	0.10	6.4m	0.09
Manaring Road	0.71	3.18	7.0m	2.47
Manaring Road	3.88	4.12	7.0m	0.24
Manaring Road	4.58	5.09	7.0m	0.51
Manaring Road	5.24	5.72	7.0m	0.48
Manaring Road	5.91	6.13	7.0m	0.22
Manaring Road	6.37	8.20	7.0m	1.83
Manaring Road	8.68	9.60	7.0m	0.92
Manaring Road	9.79	10.65	7.0m	0.86
Manaring Road	11.13	11.19	7.0m	0.06
Manaring Road	11.29	11.42	7.0m	0.13
Flavel Road	0.76	1.21	7.2m	0.45
Woods Road	2.17	3.69	7.4m	1.52
Highbury West Road	12.60	13.58	8.0m	0.98
Highbury West Road	13.80	14.76	7.6m	0.96
Highbury West Road	15.20	15.35	7.0m	0.15
Highbury West Road	15.67	16.08	7.2m	0.41
Highbury West Road	16.18	16.70	7.0m	0.52
Hyde Road	0.00	0.26	6.2m	0.26
Hyde Road	0.93	3.80	6.2m	2.87
Hyde Road	4.17	5.67	6.2m	1.50
Hyde Road	5.70	7.00	6.2m	1.30
Chomley Road	0.47	0.69	8.6m	0.22
Chomley Road	1.44	3.87	8.6m	2.43
Chomley Road	4.52	4.67	8.6m	0.15
Chomley Road	4.81	6.95	8.6m	2.14
Oneil's Road	0.85	0.92	6.2m	0.07
Narrakine South Road	10.80	12.51	6.8m	1.71
Narrakine South Road	8.47	10.76	6.8m	2.29
Narrakine South Road	6.65	7.00	7.0m	0.35
Cooraminning Road	2.83	5.45	8.4m	2.62
Cooraminning Road	5.54	12.18	8.4m	6.64
Kenny Road	1.43	1.72	6.0m	0.29
Flemming Road	0.00	0.38	6.0m	0.38
Mckenzie Road	0.02	1.88	8.7m	1.86
Higham Road	3.38	3.80	5.6m	0.42
Higham Road	6.00	6.63	6.0m	0.63
Fleay Road	0.42	1.96	6.0m	1.54
Katta Road	1.50	2.66	6.0m	1.16
Narrakine Road South	0.16	0.98	6.6m	0.82
Moss St	0.00	0.64	6.0m	0.64
Carmody Road	0.00	1.30	7.2m	1.30
Carmody Road	2.19	2.55	6.6m	0.36

Road Name	Start SLK	End SLK	Width	Length
Rushy Pool Road	0.00	1.53	8.0m	1.53
Rushy Pool Road	1.80	2.18	7.8m	0.38
Rushy Pool Road	6.14	6.90	7.8m	0.76
Rushy Pool Road	7.22	8.41	7.0m	1.19
Narrogin Valley South Road	3.10	3.49	7.0m	0.39
Highbury East Road	2.77	2.87	7.2m	0.10
Highbury East Road	4.02	4.92	8.5m	0.90
Sprigg Road	0.00	0.51	7.0m	0.51
Sprigg Road	0.60	1.37	7.0m	0.77
Michael Brown Road	0.18	3.08	6.0m	2.90
Michael Brown Road	5.38	5.88	6.6m	0.50
Boundain North Road	6.28	8.33	9.0m	2.05
Taylor Road	0.54	1.08	7.0m	0.54
Taylor Road	1.42	1.76	7.0m	0.34
Taylor Road	4.04	6.46	7.4m	2.42
Armstrong Road	0.00	4.30	9.0m	4.30
Lange Road	3.84	6.40	7.0m	2.56
Crooked Pool Road	0.00	0.42	7.4m	0.42
Crooked Pool Road	0.55	1.99	7.4m	1.44
Crooked Pool Road	2.21	3.82	7.4m	1.61
Cannell Road	0.33	1.67	8.0m	1.34
Cannell Road	2.94	4.13	8.0m	1.19
Cannell Road	4.24	6.68	8.0m	2.44
Birdwhistle Road	5.89	7.53	8.0m	1.64
Birdwhistle Road	7.69	8.60	7.6m	0.91
Birdwhistle Road	8.80	10.17	7.0m	1.37
Campbells Road	0.00	1.52	7.0m	1.52
Campbells Road	1.60	2.50	7.0m	0.90
Campbells Road	2.66	5.90	7.0m	3.24
O'Deas Road	0.02	0.48	7.4m	0.46
Wiese Road	0.07	3.40	8.6m	3.33
Wiese Road	4.03	5.20	8.0m	1.17
Wiese Road	5.80	7.88	8.0m	2.08
Morcombe Road	0.03	2.09	7.0m	2.06
Morcombe Road	3.52	3.82	7.0m	0.30
Manning Road	8.50	8.68	7.0m	0.18
Manning Road	8.20	8.34	6.0m	0.14
Manning Road	1.73	2.34	6.0m	0.61
Manning Road	0.76	1.57	7.0m	0.81
			Total Km	98.05

## 6.2 RESTRICTED ACCESS VEHICLE (RAV) ROAD AUDIT – ACTIONS

File Reference	28.2.1
Disclosure of Interest	Neither the Author nor Authorising Officer have any Impartiality, Financial or Proximity Interests that requires disclosure.
Applicant	Shire of Narrogin
Previous Item Numbers	No previous items on this subject have been presented to the Road Reference Group (RRG)
Date	5 March 2021
Author	Torre Evans – Executive Manager Technical & Rural Services
Authorising Officer	Dale Stewart – Chief Executive Officer
Attachments	<ol style="list-style-type: none"><li>1. Email Correspondence from Heavy Vehicle Services (HVS).</li><li>2. Amended RAV Road List (from 2 September 2019 Road Reference Group Minutes).</li><li>3. List of RAV Roads with Road Authority Letter as a condition.</li></ol>

### Summary

The Road Reference Group are presented with action items regarding the RAV road audit from the 2 September 2019 meeting, for discussion.

### Background

At Road Reference Group (RRG) meeting held 2 September 2019, it was recommended, by the group, following the presentation of a RAV audit report of the Shire's roads:

*“That in respect to the RAV road amendments contained in the RAV Audit (Attachment 1 as amended), the Road Reference Group support the revisions and the administration’s proposal to refer the changes to MRWA for final assessment.”*

Attachment 1 Amendments include:

- Remove MO31 Garfield Street from the RAV 4 list as it is no longer RAV rated.
- Recommend increasing the speed of some of the RAV 4 Type A roads with a speed limit of 40 km/h to 70 km/h dependant on MRWA specifications.
- Request information from Main Roads WA on why Shire permits were originally a condition for some roads in the RAV 4 Type A Table.
- Remove the suggestion to downgrade Mokine Road and Narrakine Road South from RAV 7 to RAV 4.

This task was assigned to the Technical Officer of the day, this Officer has since left the organisation, however the information provided in this report presents the Officers findings which the EMTRS will address with the group for discussion.

## Consultation

Consultation has been entered into between Main Roads Heavy Vehicle Services; Manager Operations and the Road Reference Group.

This report is presented to the RRG for discussion and consultation.

## Statutory Environment

RAV regulations and guidelines are governed by Main Roads WA.

## Policy Implications

12.12 Restricted Access Vehicle on Shire Roads relates

## Financial Implications

The author is not aware of any financial implications related to any items contained within this report.

## Strategic Implications

Shire of Narrogin Strategic Community Plan 2017-2027		
Objective	1.	Economic Objective (Support growth and progress, locally and regionally)
Outcome:	1.3	An effective well maintained transport network
Strategy:	1.3.1	Maintain and improve road network in line with resource capacity
Strategy:	1.3.2	Review and implement the Airport Master Plan
Objective	2.	Social Objective (To provide community facilities and promote social interaction)
Outcome:	2.2	Build a healthier and safer community

## Comment/Conclusion

In actioning the recommendation from the Road Reference Group, the former Technical Officer entered into correspondence with HVS to enquire on:

1. Recommend increasing the speed of some of the RAV 4 Type A roads with a speed limit of 40 km/h to 70 km/h dependant on MRWA specifications; and
2. Request information from Main Roads WA on why Shire permits were originally a condition for some roads in the RAV 4 Type A Table.

Please see Attachment 1 for correspondence between the administration and HVS.

In regards to Point 1, the author advises the group of the following quote from David Kellie, Heavy Vehicle Route Assessment Team Leader, contained in Attachment 1.

*“The 7.1m carriageway width allowing the speed to be increased to 80 km/h is no longer adopted by HVS. Low volume roads are either assessed for 40 km/h or 60 km/h for consistency.*

*The road’s carriageway width would require a minimum of 7.9m to increase the speed to 80 km/h and therefore no longer considered a low volume road.*

*Roads are usually only reassessed due to safety concerns, however if the Shires request them to be reassessed HVS can consider it. The risk of reassessing is that further deficiencies could be discovered reducing or even removal of RAV access on the road."*

It is worth noting regarding the above quote that HVS can consider a request to reassess a road for RAV status and conditions however the outcome could potentially remove the road's RAV rating dependent on HVS assessment. The roads list in regards to the recommendation of the Road Reference Group as part of the original RAV road audit were roads that were possibly assessed decades ago under different criteria than that of today.

It may well be prudent to request HVS to reassess RAV rated roads specifically for speed ratings. The author can advise the group that in his time of employment with the organisation, the author has not received a complaint regarding speed limits on Shire RAV rated roads nor has the author been made aware of any accidents relating to slower speeds on its RAV rated roads.

This item is for discussion with the Road Reference Group, as to have HVS reassess the listed roads with the potential to have roads removed from current RAV status or leave them as is.

Point 2. Letters of Authority from the road owner (Shire) to allow RAV to use a particular RAV rated Shire roads allow control of the RAV that use that road. These authority letters could mitigate wear and tear on Shire RAV rated roads from non- local transport companies wishing to take short cuts through the Shire using the Shires RAV rated roads rather than State roads.

It has been the authors experience on two occasions to have two local transport companies request a letter of authority to use all RAV roads listed that require a letter of authority from the road owner. The author has given authority on both occasions however it is strictly emphasised that the applicant can use these roads at any time however must comply with the RAV conditions on each and any RAV rated Shire roads.

Both applicants were happy with this arrangement as it cuts out red tape of them having to request a letter of authority for individual roads for a period of time.

The Shire currently has 40 roads that require a letter of authority for RAV, see Attachment 3.

The below is quoted from correspondence from HVS in regard to the potential removal of the letter of authority from the RAV conditions of a road:

*"The road owner support letter can easily be removed from all the roads in the Shire of Narrogin. For the roads listed as "See Low Volume Condition Type A or B in the Operating Conditions" we can remove the road owner support letter and add the individual conditions relating to low volume road access."*

This item of road owner authority letter is presented to the group for discussion. The author recommends to the RRG that the letter of Authority be removed as a condition.



**From:** KELLIE David (HVRATL) [<mailto:david.kellie@mainroads.wa.gov.au>]  
**Sent:** Monday, 26 October 2020 12:23 PM  
**To:** Keenan Wenning <[to@narrogin.wa.gov.au](mailto:to@narrogin.wa.gov.au)>  
**Subject:** RE: Shire of Narrogin - letter of authorisation/permits

Hi Keenan

The 7.1m carriageway width allowing the speed to be increased to 80 km/h is no longer adopted by HVS. Low volume roads are either assessed for 40 km/h or 60 km/h for consistency.

The road's carriageway width would require a minimum of 7.9m to increase the speed to 80 km/h and therefore no longer considered a low volume road.

Roads are usually only reassessed due to safety concerns, however if the Shires request them to be reassessed HVS can consider it. The risk of reassessing is that further deficiencies could be discovered reducing or even removal of RAV access on the road.

Should you require any further information or assistance regarding this request, please contact the HVS Route Assessment team on 138 486 or [hvsrouteassessments@mainroads.wa.gov.au](mailto:hvsrouteassessments@mainroads.wa.gov.au)

regards

**David Kellie**  
Heavy Vehicle Route Assessment Team Leader  
Heavy Vehicle Services  
p: +61 08 9475 8496  
w: [www.mainroads.wa.gov.au](http://www.mainroads.wa.gov.au)



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**From:** Keenan Wenning <[to@narrogin.wa.gov.au](mailto:to@narrogin.wa.gov.au)>  
**Sent:** Monday, 26 October 2020 12:02 PM  
**To:** KELLIE David (HVRATL) <[david.kellie@mainroads.wa.gov.au](mailto:david.kellie@mainroads.wa.gov.au)>  
**Subject:** RE: Shire of Narrogin - letter of authorisation/permits

Thanks David,

If the road at each section is more than 7.1 metres, e.g 7.5 or 7.8 etc, would the road then qualify for raising the RAV speed limit to 80km/h? If so, would HVS need to assess the road?

Low Volume Type A roads have the option of a speed restriction being between 40 and 80 km/h depending on the carriageway width as per our guidelines.

A carriageway width:

- between 5.8m and 6.1m would require a speed restriction of 40km/h
- between 6.1m and 7.1 would allow for a speed restriction of 60km/h
- exceeding 7.1m would allow a speed restriction of 80km/h

Thanks

Keenan Wenning

**Keenan Wenning**

Technical Officer

Tel: 08 9890 0918

**From:** KELLIE David (HVRATL) [<mailto:david.kellie@mainroads.wa.gov.au>]

**Sent:** Monday, 26 October 2020 11:42 AM

**To:** Keenan Wenning <[to@narrogin.wa.gov.au](mailto:to@narrogin.wa.gov.au)>

**Subject:** RE: Shire of Narrogin - letter of authorisation/permits

Hi Keenan

The below roads must have been added prior to 2008 as I am unable to locate onsite assessments of these roads.

Each road are usually assessed on their own merits and the road geometry could be different across the different sections between Shires.

Based on a 7.1m wide carriageway width then all roads would need to be restricted to maximum speed of 60km/h and type A conditions. If you can obtain support from the other Shires to amend the conditions to maximum speed of 60km/h and type A conditions, HVS can make the amendment.

The road owner support letter can easily be removed from all the roads in the Shire of Narrogin. For the roads listed as "See Low Volume Condition Type A or B in the Operating Conditions" we can remove the road owner support letter and add the individual conditions relating to low volume road access.

Below is the list of conditions that will replace either a low volume type A or B road. The wet road will be automatically added unless you advise the road is sealed.

**Low Volume Type A:**

- Maximum speed 60 km/h
- Direct radio contact must be maintained with other restricted access vehicles to establish their position on or near the road (suggested UHF channel 40).
- Headlights to be switched on at all times
- No operation on unsealed road segment when visibly wet, without road owner's approval.
- When travelling at night, the RAV must travel at a maximum speed of 40km/h and display an amber flashing warning light on the prime mover.
- Note: Low Volume (LV)

**Low Volume Type B:**

- Maximum speed 40 km/h
- Direct radio contact must be maintained with other restricted access vehicles to establish their position on or near the road (suggested UHF channel 40).
- For single lane road, the road must not to be entered until driver has established via radio contact that there is no other RAV on the road travelling in the oncoming direction.
- Headlights to be switched on at all times
- No operation on unsealed road segment when visibly wet, without road owner's approval.
- When travelling at night, the RAV must travel at a maximum speed of 40km/h and display an amber flashing warning light on the prime mover.
- Note: Low Volume (LV)

Please advise if you want the road conditions amended.

Should you require any further information or assistance regarding this request, please contact the HVS Route Assessment team on 138 486 or [hvsrouteassessments@mainroads.wa.gov.au](mailto:hvsrouteassessments@mainroads.wa.gov.au)

regards

**David Kellie**

Heavy Vehicle Route Assessment Team Leader

Heavy Vehicle Services

p: +61 08 9475 8496

w: [www.mainroads.wa.gov.au](http://www.mainroads.wa.gov.au)

**From:** Keenan Wenning <[to@narrogin.wa.gov.au](mailto:to@narrogin.wa.gov.au)>

**Sent:** Monday, 26 October 2020 10:36 AM

**To:** KELLIE David (HVRATL) <[david.kellie@mainroads.wa.gov.au](mailto:david.kellie@mainroads.wa.gov.au)>

**Subject:** RE: Shire of Narrogin - letter of authorisation/permits

Hi David,

That's great, thanks for sending that through, appreciate your help.

I have another question with regards to Piesseville-Tarwonga Rd. This road travels through several Shires, however the conditions on this road and speed limits (RAV) vary.

- Shire of Wagin – with conditions – Max speed 70km/h, but no conditions
- Shire of West Arthur – without conditions – no RAV speed restriction (this portion is now under the Shire of Narrogin)
- Shire of Narrogin – with conditions – Max speed 60km/h – Type A condition
- Shire of Williams – with condition – Max speed 60km/h – Type A condition

I have visited the road and the width from memory is over 7.1m for the whole length in question. Can you please shed some light on why there are condition/speed differences and whether these can be changed/aligned to be the same of the whole length of road.

Also, we are considering at this time to dispense with the letter of authority on all of the RAV rated roads as a condition, however all other listed conditions would remain and be kept and relevant. Are we able to remove that particular condition of the letter? Our road reference group has asked us for a RAV audit of our Shire roads and conditions relating. So I am piecing this together to present to them.

Appreciate your help

Keenan Wenning

**Keenan Wenning**

Technical Officer

Tel: 08 9890 0918

**From:** KELLIE David (HVRATL) [<mailto:david.kellie@mainroads.wa.gov.au>]

**Sent:** Monday, 26 October 2020 9:30 AM

**To:** Keenan Wenning <[to@narrogin.wa.gov.au](mailto:to@narrogin.wa.gov.au)>  
**Subject:** RE: Shire of Narrogin - letter of authorisation/permits

Good morning Keenan

Thank you for your email regarding roads in your shire that are conditional with road owner support.

Please find attached a list of 48 roads in your shire that all contain a condition requiring written road owner support. The roads with a condition see Low Volume A or B conditions mean they contain the same condition requesting road owner support letters.

If you wish to find out more about the road access in your shire you can always download the road data from Main Roads data portal <https://portal-mainroads.opendata.arcgis.com/pages/heavy-vehicles>.

Should you require any further information or assistance regarding this request, please contact the HVS Route Assessment team on 138 486 or [hvsrouteassessments@mainroads.wa.gov.au](mailto:hvsrouteassessments@mainroads.wa.gov.au)

regards

**David Kellie**  
Heavy Vehicle Route Assessment Team Leader  
Heavy Vehicle Services  
p: +61 08 9475 8496  
w: [www.mainroads.wa.gov.au](http://www.mainroads.wa.gov.au)

**From:** Keenan Wenning <[to@narrogin.wa.gov.au](mailto:to@narrogin.wa.gov.au)>  
**Sent:** Monday, 26 October 2020 6:56 AM  
**To:** KELLIE David (HVRATL) <[david.kellie@mainroads.wa.gov.au](mailto:david.kellie@mainroads.wa.gov.au)>  
**Subject:** Shire of Narrogin - letter of authorisation/permits

Hi David,

Hope you're well.

Just wondering if you could tell me how many of the Shire of Narrogin roads require a permit/letter of authorisation for Heavy vehicles to use the roads?

Thanks

Keenan Wenning

**Keenan Wenning**  
Technical Officer  
Tel: 08 9890 0918

## RAV 4 Rated roads - Condition Type A

Road Number	Road Name	Sealed/unsealed	Adjoining Roads	Current RAV Speed Conditions	Technical and Rural Services Recommended RAV Speed		Comments
					Conditions	Condition applied to road	
M038	Kipling Street	Sealed	Bunbury St to Pioneer Dr	80km/h	40km/h - Responsibility of Main Roads WA - unable to change Recommend RAV speed increase 80 -100km/h.	Responsibility of Main Roads	Main roads - No change RRG to consider the recommendation to raise the RAV speed limit.
4180204	Tarwonga Rd	Sealed	Williams-Kondinin Rd to Highbury West Rd	60 km/h	No change	Low volume condition type A	Investigate with MRWA if speed limit can be raised to 70km/h
4180221	Narrakine Rd South	Sealed/Unsealed	Wanerie Rd to Blight Rd	40kmh	No change	Low volume type A	Investigate with MRWA if speed limit can be raised to 70km/h
4180221	Narrakine Rd South	Unsealed	Blight Rd to Contine Rd	40km/h	No change	Low volume type A	Investigate with MRWA if speed limit can be raised to 70km/h
4180047	Clayton Rd	Sealed	Clayton Rd and Earl St North	40km/h	No change	Low volume type A	Speed limit was reduced to 40km/h as part of RAV reduction
4180077	Graham Rd	Sealed	Great Sthn Hwy to Mokine Rd	60km/h	No change	Nil	No change
4180212	Narrogin Valley Rd	Unsealed	Booth St to Rushy Pool Rd	40km/h	No change	Low volume type A	Investigate with MRWA if speed limit can be raised to 70km/h
4180276	Simmons Rd	Sealed	Great Sthn Hwy to Narrogin Valley Rd	40km/h	No change	Low volume type A	Investigate with MRWA if speed limit can be raised to 70km/h
4180035	Lefroy St	Sealed	Williams-Kondinin Rd to Clayton Rd	40km/h	No change	Nil	Investigate with MRWA if speed limit can be raised to 70km/h
4180112	Narrakine Rd	Sealed	Clayton Rd to Fleay Rd Intersection	60km/h - Posted speed limit	No change	Nil	No change
4180112	Wandering-Narrogin Rd	Sealed	Fleay Rd to Springhill Rd	80km/h - Posted speed limit	No RAV speed limit applied Recommend RAV speed increase 80km/h.	Nil	Posted speed limit applies RRG to consider the recommendation to raise the RAV speed limit.
4180202	Congelin-Narrogin Rd	Sealed	White Rd and Fleay Rd to Nebrikinning Rd	60km/h	Recommend RAV speed increase 80 -100km/h.	Low volume condition type A	Investigate with MRWA if speed limit can be raised to 70km/h
4180211	Manaring Rd	Unsealed	Graham Rd to Manaring Rd	40km/h	No change	Low volume condition type A	Investigate with MRWA if speed limit can be raised to 70km/h
4180216	Burley Street	Sealed	Great Sthn Hwy to Highbury West Rd start	40km/h	No change Recommend RAV speed increase 80 -100km/h.	Low volume condition type A	Investigate with MRWA if speed limit can be raised to 70km/h RRG to consider the recommendation to raise the RAV speed limit.
4180216	Highbury West Rd	Sealed	Great Sthn Hwy to Tarwonga Rd	60km/h	Recommend RAV speed increase 80 -100km/h.	Low volume condition type A	Investigate with MRWA if speed limit can be raised to 70km/h
4180213	Chomley Rd	Unsealed	Tarwonga Rd to Highbury West Rd	40km/h	No change	Low volume condition type A	Investigate with MRWA if speed limit can be raised to 70km/h
4180215	Highbury East Rd	Unsealed	Borgas Rd to Great Sthn Hwy	60km/h	No change	Low volume condition type A	Investigate with MRWA if speed limit can be raised to 70km/h
4180209	Narrogin-Dongalocking Rd	Sealed/Unsealed	Narrogin-Harrismith Rd to Wagin-Wickepin Rd	40km/h	No change	Low volume condition type A	Investigate with MRWA if speed limit can be raised to 70km/h
4180207	Wagin-Wickepin Rd	sealed/Unsealed	Narrogin-Harrismith Rd to LG boundary	70km/h	No change	Permit required from Shire	Investigate with MRWA why the permit was applied
4180322	Dwelyerdine Rd	Sealed/Unsealed	Wagin-Wickepin Rd to LGA boundary	70km/h on sealed section	No change	Permit required from Shire	Investigate with MRWA why the permit was applied
4180219	Lakes Rd	Unsealed	Wickepin boundary to Wagin-Wickepin Rd	60km/h	No change	Low volume condition type A	Investigate with MRWA if speed limit can be raised to 70km/h
4180255	Nomans Lake Siding	Sealed	Narrogin-Harrismith Rd to Read Rd	70km/h	No change	Nil	No change
4180210	Birdwhistle Rd	Unsealed	Narrogin-Harrismith Rd to intersection of O'Dea	40km/h	No change	Low volume condition type A	Investigate with MRWA if speed limit can be raised to 70km/h
4180256	O'Dea Rd	Unsealed	Nomans Lake Siding Rd to Birdwhistlec Rd	40km/h	No change	Low volume condition type A	Investigate with MRWA if speed limit can be raised to 70km/h
4180236	Armstrong Rd	Unsealed	Williams-Kondinin Rd to Lange Rd	60km/h	No change	Low volume condition type A	Investigate with MRWA if speed limit can be raised to 70km/h
4180101	Federal Street	Sealed	Sale St to Clayton Rd	50km/h - Posted speed limit	No change	Nil	No change
4180346	Earl Street North	Sealed	Clayton Rd and Golfcourse Pde	50km/h - Posted speed limit	No change	Nil	No change
4180063	Sale Street	Sealed	Federal St to Earl St North	50km/h - Posted speed limit	No change	Permit required from Shire	Investigate with MRWA why the permit was applied
4180114	Stewart Rd	Sealed	Graham Rd to Stewart Rd -end road	50km/h - Posted speed limit	No change	Nil	No change
4180065	Booth Street	Sealed	Havelock St to Narrogin Valley Rd	50km/h - Posted speed limit	No change	Nil	No change
4180224	Wiese Rd	Unsealed	Great Sthn Hwy to Morcombe Rd intersection	60km/h	No change	Low volume condition type A	Investigate with MRWA if speed limit can be raised to 70km/h
4180292	Wangeling Gully Rd	Unsealed	Tarwong Rd intersection to Williams boundary	40km/h	No change	Low volume condition type A	Investigate with MRWA if speed limit can be raised to 70km/h
4180324	Piesseville -Tarwonga Rd	Unsealed	Piesseville-Tarwonga Rd to Tarwonga East Rd	60km/h	No change	Low volume condition type A	Investigate with MRWA if speed limit can be raised to 70km/h
4180270	Boxsell Rd	Unsealed	Farrelly Rd and Great Sthn Hwy to Boxsell Rd e	60km/h	No change	Low volume condition type A	Investigate with MRWA if speed limit can be raised to 70km/h
4180258	Spriggs Rd	Unsealed	Williams Kondinin Rd to Cuballing Boundary	40km/h	No change	40km/h, amber light	Investigate with MRWA if speed limit can be raised to 70km/h
4180323	Pethybridge Rd	Sealed	Narrogin-Harrismith Rd to Narrogin Valley Rd	60km/h	No change	Low volume condition type A	Investigate with MRWA if speed limit can be raised to 70km/h
4180205	Whinbin Rock Rd	Sealed/Unsealed	Great Sthn Hwy to Halls Rd intersection	Nil	No change	Permit required from Shire	Investigate with MRWA why the permit was applied
4180205	Whinbin Rock Rd	Unsealed	Halls Rd to Wagin-Wickepin Rd	Nil	No change	Nil	No change
4180331	Yilliminning Rd	Sealed	Herald St to Yilliminning Rd	Nil	No change	Nil	No change

**\*\*Note\*\* Any changes to RAV conditions will need to be assessed by MRWA**

## RAV 4 Rated roads - Condition Type B

Road Number	Road Name	Sealed/unsealed	Adjoining Roads	Current RAV Speed Conditions	Technical and Rural Services Recommended RAV Speed		Comments
					Conditions	Condition applied to road	
4180341	McKenzie Rd	Unsealed	Williams Kondinin and Clayton Rd	40km/h	No change	Low volume condition type B	Nil
4180216	Highbury West Rd	Unsealed	Tarwonga Rd to Manaring Rd	40km/h	No change	Low volume condition type B	Nil
4180286	Cowcher Rd	Unsealed	Clayton and Williams Narrogin Rd	40km/h	No change	Low volume condition type B	Nil
4180287	Cornwall Rd	Unsealed	Williams-Kondinin Rd	40km/h	No change	Low volume condition type B	Nil
4180274	Rosedale Rd	Unsealed	Congelin Rd and Clayton Rd	40km/h	No change	Low volume condition type B	Nil
4180273	Bradford Rd	Unsealed	Clayton Rd	40km/h	No change	Low volume condition type B	Nil
4180265	Spouse Rd	Unsealed	Congelin Rd and Clayton Rd	40km/h	No change	Low volume condition type B	Nil
4180220	Contine Rd	Unsealed	Cooramining Rd and Grt Southern Hwy	40km/h	No change	Low volume condition type B	Nil
4180230	Michael Brown Rd	Unsealed	Williams Kondinin Rd and Sprigg Trk	40km/h	No change	Low volume condition type B	Nil
4180240	Halls Rd	Unsealed	Whinbin Rock Rd	40km/h	No change	Low volume condition type B	Nil
4180226	Morcombe Rd	Unsealed	Wain boundary to Whinbin rock Rd	40km/h	No change	Low volume condition type B	Nil
4180307	Lange Rd	Unsealed	Birdwhistle Rd to Armstrong Rd	40km/h	No change	Low volume condition type B	Nil
4180211	Manaring Rd	Unsealed	Williams Kondinin Rd to Graham Rd	Nil	No change	Low volume condition type B	Nil
4180235	Brooks Rd	Unsealed	Birdwhistle Rd to Wickepin Boundary	Nil	No change	Low volume condition type B	Nil

**\*\*Note\*\* No changes can occur to Type B roads. These are roads that are gravel, are a maximum of 3.5 metres wide, and suited only for 1-way traffic.**

**\*\*Note\*\* Any changes to RAV conditions will need to be assessed by MRWA**

## RAV 5 Rated roads - Condition Type B

Road Number	Road Name	Sealed/unsealed	Adjoining Roads	Current RAV Speed Conditions	Technical and Rural Services Recommended RAV Speed Conditions	Condition applied to road	Comments
4180277	Moyses Rd	sealed/unsealed	Gt Sthn Hwy to Wagin Boundary	No RAV speed limit applied on MRWA mapping toc	Nil	Nil	Posted speed limit applies

**\*\*Note\*\* Any changes to RAV conditions will need to be assessed by MRWA**

## RAV 6 Rated roads

Road Number	Road Name	Sealed/unsealed	Adjoining Roads	Current RAV Speed Conditions	Technical and Rural Services Recommended RAV Speed Conditions	Condition applied to road	Comments
4180217	Cooraminning Rd	Sealed	Williams-Kondinin Rd to Wanerie Rd	Max speed of 60km/h	Recommend raise RAV speed to 80km/h	Nil	RRG to consider the recommendation to raise the RAV speed limit.
4180217	Wanerie Rd	Sealed	Gt Sthn Hwy to Narrakine Rd Sth	Nil applied on MRWA mapping tool	110km/h state speed limit	Nil	No change
4180217	Wanerie Rd	Sealed	Narrakine Rd Sth to Cooraminning Rd	Max speed of 60km/h	Recommend raise RAV speed to 80km/h	Nil	RRG to consider the recommendation to raise the RAV speed limit.
4180077	Graham Rd	Sealed	Gt Sthn Hwy to Mokine Rd	Max speed of 60km/h	60km/h	Nil	No change
4180221	Narrakine Rd South	Sealed	Mokine Rd to Wanerie Rd	60km/h	No change	Nil	No change
4180051	Mokine Rd	Sealed	Graham Rd to Katta/Narrakine Sth	60km/h	No change	Nil	No change
4180126	Herlad Street	Sealed	Pioneer Drive to Yilliminning Rd	60km/h	60km/h	Nil	No change

**\*\*Note\*\*** These roads share a RAV rating of 7 also.

**\*\*Note\*\*** Any changes to RAV conditions will need to be assessed by MRWA

## RAV 7 Rated roads

Road Number	Road Name	Sealed/unsealed	Adjoining Roads	Current RAV Speed Conditions	Technical and Rural Services Recommended RAV Speed Conditions	Condition applied to road	Comments
4180217	Cooraminning Rd	Sealed	Williams-Kondinin Rd to Wanerie Rd	Max speed of 60km/h	Recommend raise RAV speed to 80km/h	Nil	RRG to consider the recommendation to raise the RAV speed limit.
4180217	Wanerie Rd	Sealed	Gt Sthn Hwy to Narrakine Rd Sth	Nil applied on MRWA mapping tool	110km/h state speed limit	Nil	No change
4180217	Wanerie Rd	Sealed	Narrakine Rd Sth to Cooraminning Rd	Max speed of 60km/h	Recommend raise RAV speed to 80km/h	Nil	RRG to consider the recommendation to raise the RAV speed limit.
4180077	Graham Rd	Sealed	Gt Sthn Hwy to Mokine Rd	Max speed of 60km/h	60km/h	Nil	No change
4180221	Narrakine Rd South	Sealed	Mokine Rd to Wanerie Rd	60km/h	No change	Nil	No change
4180051	Mokine Rd	Sealed	Graham Rd to Katta/Narrakine Sth	60km/h	No change	Nil	No change

MRWA to re-assess for compliance

**\*\*Note\*\* Any changes to RAV conditions will need to be assessed by MRWA**

Road Number	Road Name	From SLK	To SLK	Conditions
4180025	Havelock St	0.93	1.01	All operators must carry current written approval from the road asset owner permitting use of the road. No operation during school bus hours. Transport operators are to contact the local schools to obtain school bus hours
4180047	Clayton Rd	2.67	20.16	See Low Volume Condition Type A in the Operating Conditions
4180063	Sale St	0.00	0.15	All operators must carry current written approval from the road asset owner permitting use of the road.
4180064	Eston St	0.00	0.22	All operators must carry current written approval from the road asset owner permitting use of the road. See Low Volume Condition Type A in the Operating Conditions. A Restricted Access Vehicle must not be driven on this road in excess of 4.30 m in height unless written approval is obtained from Western Power
4180122	Harbour St	0.00	0.12	See Low Volume Condition Type A in the Operating Conditions
4180123	Exeter St	0.00	0.09	All operators must carry current written approval from the road asset owner permitting use of the road.
4180202	Congelin - Narrogin Rd	0.00	9.61	See Low Volume Condition Type A in the Operating Conditions
4180204	Tarwonga Rd	0.00	27.15	See Low Volume Condition Type A in the Operating Conditions All operators must carry current written approval from the road asset owner permitting use of the road. No operation on unsealed road segment when visibly wet, without road owner's approval.
4180207	Wagin - Wickepin Rd	0.00	18.45	See Low Volume Condition Type A in the Operating Conditions
4180209	Dongolocking Rd	0.00	10.99	See Low Volume Condition Type A in the Operating Conditions
4180210	Birdwhistle Rd	0.00	15.88	See Low Volume Condition Type A in the Operating Conditions
4180211	Manaring Rd	3.76	6.50	See Low Volume Condition Type A in the Operating Conditions
4180211	Manaring Rd	8.05	13.25	See Low Volume Condition Type A in the Operating Conditions
4180211	Manaring Rd	0.00	3.76	See Low Volume Condition Type B in the Operating Conditions
4180211	Manaring Rd	6.50	8.05	See Low Volume Condition Type B in the Operating Conditions
4180212	Narrogin Valley Rd	0.00	24.61	See Low Volume Condition Type A in the Operating Conditions
4180215	Highbury East Rd	5.90	14.80	See Low Volume Condition Type A in the Operating Conditions
4180215	Highbury East Rd	0.00	5.90	See Low Volume Condition Type B in the Operating Conditions
4180216	Highbury West Rd	0.00	0.98	See Low Volume Condition Type A in the Operating Conditions
4180216	Highbury West Rd	0.98	12.42	See Low Volume Condition Type A in the Operating Conditions
4180216	Highbury West Rd	12.42	16.99	See Low Volume Condition Type B in the Operating Conditions
4180219	Lakes Rd	0.00	5.70	See Low Volume Condition Type A in the Operating Conditions
4180220	Contine Rd	0.00	7.77	See Low Volume Condition Type B in the Operating Conditions
4180221	Narrakine Rd South	2.56	10.26	See Low Volume Condition Type A in the Operating Conditions
4180224	Wiese Rd	0.00	7.88	See Low Volume Condition Type A in the Operating Conditions
4180226	Morcombe Rd	0.00	5.48	See Low Volume Condition Type B in the Operating Conditions
4180230	Michael Brown Rd	0.00	5.88	See Low Volume Condition Type B in the Operating Conditions
4180235	Brooks Rd	0.00	5.30	See Low Volume Condition Type B in the Operating Conditions
4180240	Halls Rd	0.00	3.80	See Low Volume Condition Type B in the Operating Conditions
4180256	O'Dea Rd	0.00	4.06	See Low Volume Condition Type A in the Operating Conditions
4180265	Spouse Rd	0.00	4.32	See Low Volume Condition Type B in the Operating Conditions
4180270	Boxsell Rd	0.00	1.60	See Low Volume Condition Type A in the Operating Conditions
4180273	Bradford Rd	0.00	4.78	See Low Volume Condition Type B in the Operating Conditions
4180274	Rosedale Rd	0.00	6.87	See Low Volume Condition Type B in the Operating Conditions
4180275	Sprigg Trk	0.00	1.03	See Low Volume Condition Type B in the Operating Conditions
4180276	Simmons Rd	0.00	3.80	See Low Volume Condition Type A in the Operating Conditions
4180286	Cowcher Rd	0.00	7.47	See Low Volume Condition Type B in the Operating Conditions
4180287	Cornwall Rd	0.00	5.36	See Low Volume Condition Type B in the Operating Conditions
4180292	Wangeling Gully Rd	0.00	3.87	See Low Volume Condition Type A in the Operating Conditions
4180307	Lange Rd	0.00	6.08	See Low Volume Condition Type A in the Operating Conditions
4180307	Lange Rd	6.08	10.35	See Low Volume Condition Type B in the Operating Conditions
4180311	Quarry Rd	0.00	3.22	See Low Volume Condition Type A in the Operating Conditions All operators must carry current written approval from the road asset owner permitting use of the road. No operation on unsealed road segment when visibly wet, without road owner's approval.
4180322	Dwelyerdine Rd	0.00	5.87	See Low Volume Condition Type A in the Operating Conditions
4180323	Pethybridge Rd	1.86	7.44	See Low Volume Condition Type A in the Operating Conditions
4180323	Pethybridge Rd	0.00	1.86	See Low Volume Condition Type B in the Operating Conditions
4180324	Piesseville - Tarwonga Rd	0.00	2.98	See Low Volume Condition Type A in the Operating Conditions
4180341	McKenzie Rd	0.00	1.85	See Low Volume Condition Type B in the Operating Conditions
4180346	Earl St North	0.00	0.36	All operators must carry current written approval from the road asset owner permitting use of the road.

## **7. MATTERS FOR DISCUSSION**

### **7.1 RURAL ROAD MAINTENANCE ZONE HERBICIDE SPRAYING**

The Manager Operations spoke about the spraying, currently the entire road network is sprayed. In some areas it is less effective.

\$30K is spent spraying the gravel roads and the job takes 2-3 months depending on the weather.

Points discussed included:

- Could it be contracted out?
- What chemicals/equipment do contractors use?
- Would better equipment that was able to target the correct area make the job more efficient?
- Review chemicals being used, rotate chemicals to delay resistance.
- Could some roads be sprayed every second year?

Outcomes of the discussion.

The group agreed that:

- the current status of rural road verge spraying continue,
- the Manager Operations check to see if our equipment for spraying is fit for purpose,
- the Manager Operations check again with an agronomist to see if our use of herbicides is best practice, and
- Assess contractor versus in-house spraying.

### **7.2 RURAL ROAD MAINTENANCE ZONE - VEGETATION MANAGEMENT**

Manager Operations provided an update the RRG on current progress of vegetation management with the Rural Road Maintenance Zone.

The new excavator is working well, there is a 5 year vegetation plan and also adhoc tasks when complaints are made by members of the public.

## **8. NEW BUSINESS OF AN URGENT NATURE APPROVED BY THE PERSON PRESIDING OR BY DECISION OF THE MEETING**

Nil

## **9. DATE TIME & VENUE OF NEXT MEETING**

The next meeting Road Reference Group will be on Wednesday 28 April 2021 at 5:30 pm prior to the Ordinary Council Meeting.

## **10. CLOSURE OF MEETING**

There being no further business to discuss, the Presiding Member declared the meeting closed at 7:05 pm.