RESTRICTED ACCESS VEHICLE ROUTE ASSESSMENT FORM

This form is to be used when completing any Restricted Access Vehicle (RAV) route assessment in conjunction with the *Standard RAV Route Assessment Guidelines* or *Tri Drive Route Assessment Guidelines*. Please complete only those sections relevant to the assessment type, additional information may be added as required.

Assessment Officer Details			
Name		Name	
Position		Position	
Employer		Employer	
Phone		Phone	

Road Details			
Road Owner		Main Roads Region	
Road Name		Road Number	
SLK From		SLK To	
Description From		Description To	
Total Distance:		AADT:	
Is this a Built Up Area?	☐ Yes ☐ No	Is this a School Bus Route?	☐ Yes ☐ No

AADT: Annual Average Daily Traffic is determined by the total yearly two-way traffic volume divided by 365, expressed as vehicles per day (VPD)

Assessment Request Details			
Application TRIM#		Road Owner Approval TRIM#	
RAV Network		Length	
Products/Restrictions		Width	
Current RAV Network		Height	

HVS Use Only	
Reviewer Details	
Name	
Position	
Employer	
Phone	
Date	
Comments:	

Road Width and Features

Rural Roads

All roads that provide a secondary network of National, State and local Government roads connecting cities and towns.

Is this a Rural Road? ☐ Yes ☐ No ***(If no, please move on to Town Site Roads)***

If yes, please complete the below Table

Criteria	Road Section 1	Road Section 2	Road Section 3	Road Section 4	Road Section 5
Road Surface	☐ Sealed ☐ Unsealed	☐ Sealed ☐ Unsealed	☐ Sealed ☐ Unsealed	☐ Sealed ☐ Unsealed	☐ Sealed ☐ Unsealed
Carriageway Width (m)					
Sealed Width (m)					
Location (SLK-SLK)					
Posted Speed Limit (km/h)					

Carriageway Width: *That portion of a road or structure devoted particularly to the use of vehicles that is between guide posts, kerbs or barriers where these are provided, inclusive of shoulders and auxiliary lanes.*
Seal Width: *Width between edges of sealed surface or between edge lines (where installed on undivided carriageways), whichever is less.*

Additional Comments

HVS Use Only

Minimum guideline requirement

Criteria	Road Section 1	Road Section 2	Road Section 3	Road Section 4	Road Section 5
Road Width Requirement					
Low Volume	☐ Type A ☐ Type B	☐ Type A ☐ Type B	☐ Type A ☐ Type B	☐ Type A ☐ Type B	☐ Type A ☐ Type B
Recommended Speed	☐ 40 km/h ☐ 60 km/h ☐ 70 km/h ☐ 80 km/h ☐ 100 km/h	☐ 40 km/h ☐ 60 km/h ☐ 70 km/h ☐ 80 km/h ☐ 100 km/h	☐ 40 km/h ☐ 60 km/h ☐ 70 km/h ☐ 80 km/h ☐ 100 km/h	☐ 40 km/h ☐ 60 km/h ☐ 70 km/h ☐ 80 km/h ☐ 100 km/h	☐ 40 km/h ☐ 60 km/h ☐ 70 km/h ☐ 80 km/h ☐ 100 km/h

Does the Rural Road meet the requirements? ☐ Yes ☐ No

Comments:

Please insert photos relevant to Rural Road Width and Features, including SLK location

Town Site Road

All roads within a populated area of established dwellings, a central place of trade and recognised as a distinct place. Generally the area will act as a central hub of activity for the community.

Is this a Town Site Road? ☐ Yes ☐ No

If yes, please complete the below Table

Please Tick Most Appropriate	
☐ Undivided Carriageway 1 Way	☐ Divided Carriageway Single Lane
☐ Undivided Carriageway 2 way	☐ Divided Carriageway 2 lanes
☐ Undivided Carriageway 2 lanes each way	☐ Multiple Carriageway: 3+ lanes

Width Measurement:

(Undivided carriageway – 2 Way) Width between sealed edge and road centre (m)
(Divided carriageway – single lane) Width between sealed edge and edge of median or traffic island (m)
(Undivided carriageway – 2 lanes) Width between sealed edge and road centre (m)
(Divided carriageway – 2 lanes) Width between sealed edge and edge of median or traffic island (m)
(Multiple Lane Carriageways – 3 or more lanes) Width of additional through lane (m)

Criteria	**Road Section 1**	**Road Section 2**	**Road Section 3**	**Road Section 4**	**Road Section 5**
Direction of Travel					
Width (m)					
Location (SLK-SLK)					
Marked Separation line	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Posted Speed Limit (km/h)					

Road Features

Dedicated Cycle Lanes, Parallel Parking, Regular Angle Parking

Criteria	**Road Feature 1**	**Road Feature 2**	**Road Feature 3**	**Road Feature 4**	**Road Feature 5**
Feature					
Location (SLK-SLK)					
Width (m)					

Additional Comments

HVS Use Only

Minimum guideline requirement

Criteria	**Road Section 1**	**Road Section 2**	**Road Section 3**	**Road Section 4**	**Road Section 5**
Road Width Requirement					

Criteria	**Road Feature 1**	**Road Feature 2**	**Road Feature 3**	**Road Feature 4**	**Road Feature 5**
Road Width Requirement					

Does the Town Site Road meet this requirement? ☐ Yes ☐ No

Comments:

Please insert photos relevant to Townsite Road Width and Features, including SLK location

Road Geometry

Road Alignment

Are there any significant curves/bends on the road? ☐ Yes ☐ No

If yes, please complete the below table

SLK	Signage	Swept Path Completed	Lane Correct	Direction of Travel	Sight Distance	Direction of Travel	Sight Distance
	☐ Warning Sign ☐ Advisory Speed	☐ Yes ☐ No	☐ Yes ☐ No				
	☐ Warning Sign ☐ Advisory Speed	☐ Yes ☐ No	☐ Yes ☐ No				
	☐ Warning Sign ☐ Advisory Speed	☐ Yes ☐ No	☐ Yes ☐ No				
	☐ Warning Sign ☐ Advisory Speed	☐ Yes ☐ No	☐ Yes ☐ No				
	☐ Warning Sign ☐ Advisory Speed	☐ Yes ☐ No	☐ Yes ☐ No				
	☐ Warning Sign ☐ Advisory Speed	☐ Yes ☐ No	☐ Yes ☐ No				
	☐ Warning Sign ☐ Advisory Speed	☐ Yes ☐ No	☐ Yes ☐ No				
	☐ Warning Sign ☐ Advisory Speed	☐ Yes ☐ No	☐ Yes ☐ No				

Additional Comments

HVS Use Only
RAV is able to stay lane correct ☐ Yes ☐ No
Bend meets sight distance requirement of XXX ☐ Yes ☐ No
Comments

Please insert photos relevant to Road Alignment and Swept Paths including SLK location

Gradients

Have any gradients above 3% for unsealed roads or 5% for sealed roads been identified?
☐ Yes ☐ No
If yes, please complete the below Table

Criteria	Grade 1	Grade 2	Grade 3	Grade 4
Road Surface	☐ Sealed ☐ Unsealed	☐ Sealed ☐ Unsealed	☐ Sealed ☐ Unsealed	☐ Sealed ☐ Unsealed
Location (SLK)				
Grade (%)				
Length (m)				
Additional Comments				

HVS Use Only			
Minimum Guideline requirement for gradient (%):	RAV 2-6	RAV 7-8	RAV 9-10
Sealed	☐ 8%	☐ 6%	☐ 5%
Unsealed	☐ 5%	☐ 4%	☐ 3%

Meets Guidelines	Grade 1 ☐ Yes ☐ No	Grade 2 ☐ Yes ☐ No	Grade 3 ☐ Yes ☐ No	Grade 4 ☐ Yes ☐ No
Comments:				

Please insert photos relevant to Gradients, including SLK location

Road Obstacles: Bridges, Culverts, Floodway's, Overheard Clearance and Railway Crossings

Bridges

A structure (with the exception of gantries) having a clear opening in any span of greater than 3 metres measured between the faces of piers and/or abutments or structures of a lesser span with a deck supported on timber stringers.

Have any drive on bridges been identified? ☐ Yes ☐ No

If yes, please complete the below Table

Criteria	Bridge 1	Bridge 2	Bridge 3	Bridge 4
Structure Number				
Surface	☐ Sealed ☐ Unsealed	☐ Sealed ☐ Unsealed	☐ Sealed ☐ Unsealed	☐ Sealed ☐ Unsealed
Width between kerbs (m)				
Location (SLK)				
Central Line Marking?	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Sight Distance 1 and direction of travel (m)				
Sight Distance 2 and direction of travel (m)				
Have all measurements been taken at Truck Driver height of 2.4m ☐ Yes ☐ No				
Additional Comments				

HVS Use Only				
Minimum Guideline requirement for width between kerbs (m):				
Meets Guidelines:	Bridge 1 ☐ Yes ☐ No	Bridge 2 ☐ Yes ☐ No	Bridge 3 ☐ Yes ☐ No	Bridge 4 ☐ Yes ☐ No
Has the Structures Engineering Branch given approval for RAV Access?	☐ Yes ☐ No	HPRM Reference #		
Comments:				

Please insert photos relevant to Bridges, including SLK location

Culverts and Floodways

Culvert: A structure under a road having only clear openings of less than or equal to 3 metres measured between the faces of piers and/or abutments or a pipe shaped structure of any diameter.
Floodway: A roadway across a shallow depression subject to flooding, specifically designed to overtop and constructed to resist the damaging effects of overtopping.

Have any culverts or floodways that impact carriageway width been identified?

☐ Yes ☐ No

If yes, please complete the below Table

Feature	Location (SLK)	Width (m)	Direction of Travel	Sight Distance (m)	Direction of Travel	Sight Distance (m)
☐ Culvert ☐ Floodway						
☐ Culvert ☐ Floodway						
☐ Culvert ☐ Floodway						
☐ Culvert ☐ Floodway						
☐ Culvert ☐ Floodway						
Additional Comments						
HVS Use Only						
Comments:						

Please insert photos relevant to Culverts or Floodways, including SLK location

Overhead Clearance

Have any overhead power lines been identified? ☐ Yes ☐ No

(Do not attempt to measure power line heights – approval will be sought by HVS from the cable operator)

Have any other overhead obstructions been identified? ☐ Yes ☐ No

If yes, please complete the below Table

Criteria	Overhead Obstruction 1	Overhead Obstruction 2	Overhead Obstruction 3	Overhead Obstruction 4
What is the overhead obstruction *(e.g. tree, bridge, gantry sign)*				
Minimum Clearance (m) *(from ground to lowest point of structure over the carriageway)*				
SLK Location				
Additional Comments				
HVS Use Only				
Minimum Guideline requirement for overhead obstructions (m): 4.9m				
Meets Guidelines:	Overhead Obstruction 1 ☐ Yes ☐ No	Overhead Obstruction 2 ☐ Yes ☐ No	Overhead Obstruction 3 ☐ Yes ☐ No	Overhead Obstruction 4 ☐ Yes ☐ No
(If applicable) Power line Asset Owner Approval HPRM Reference #:				
Comments:				

Please insert photos relevant to Overhead Obstructions, including SLK location

Railway Crossings

Warning Devices and signage for Railways:

- *No Protection*
- *Give Way Sign*
- *Stop Sign*
- *Flashing Lights*
- *Flashing Lights and Boom Gate*
- *Advanced warning flashing amber lights*

Have any Railway Crossings been identified? ☐ Yes ☐ No

If yes, please complete the below Table

Railway Features

For crossings protected by Give Way or Stop Signs, complete ALL fields.
For crossings protected by boom gates or flashing lights, Approach Sight Distance only applicable.

SLK	Direction of Travel	Road Speed Limit	Warning Devices and Signage	Approach Sight Distance (m)	Sight Distance Along Rail (S3)		Sight Distance Along Rail (S3)		Train Speed (Km/h) (Vt)	Angle Between Road and Rail (Degrees) (Z)	Distance From Stop Line to Rail Track (m) (Cv)	Road Width at Crossing (m) (Wr)	Width of Rail Track (m) (Wt)
					Direction	(m)	Direction	(m)					

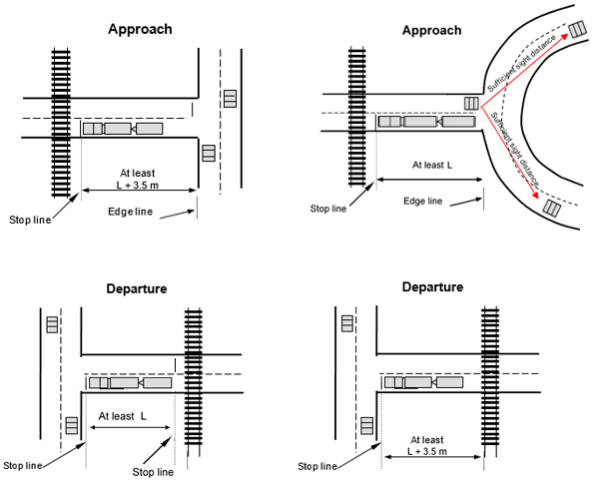
Have all measurements been taken at Truck Driver height of 2.4m ☐ Yes ☐ No

Is there anything restricting Sight Distance? *(e.g. trees, shrubs, signage)*	

HVS Use Only

Minimum Guideline Requirement for Approach Sight Distance		Meets Guideline Requirements:	☐ Yes ☐ No
Sight Distance Requirement as per the S3 Formula		Meets S3 Formula Requirements:	☐ Yes ☐ No
Trim Ref #			
Comments			

Stacking Distances *(If the railway crossing is near to an intersection/T-junction, please specify stacking distance measurements)*				
SLK	**Direction of Travel**	**Name of Intersecting Road**	**Approach Stacking Distance (m)**	**Departure Stacking Distance (m)**



Additional Comments

HVS Use Only	
Meets Guideline Requirements for Stacking Distance:	☐ Yes ☐ No
Level Crossing Safety Officer Response:	
TRIM Ref #	
Comments:	

Please insert photos relevant to Railways, including direction of travel, direction of measurement and SLK location.

Intersections

Intersection Layout

Intersection	Kerbing	Islands	Free of Loose Gravel	Adjacent Infrastructure / Obstacles
	☐ Mountable ☐ Painted ☐ Semi-Mountable ☐ Non-Mountable ☐ None	☐Mountable ☐Semi-Mountable ☐Non-Mountable ☐None	☐ Yes ☐ No	☐ Vegetation ☐ Poles/Signs ☐ Letter boxes ☐ Culverts ☐ Other (list below)
	☐ Mountable ☐ Painted ☐ Semi-Mountable ☐ Non-Mountable ☐ None	☐Mountable ☐Semi-Mountable ☐Non-Mountable ☐None	☐ Yes ☐ No	☐ Vegetation ☐ Poles/Signs ☐ Letter boxes ☐ Culverts ☐ Other (list below)
	☐ Mountable ☐ Painted ☐ Semi-Mountable ☐ Non-Mountable ☐ None	☐Mountable ☐Semi-Mountable ☐Non-Mountable ☐None	☐ Yes ☐ No	☐ Vegetation ☐ Poles/Signs ☐ Letter boxes ☐ Culverts ☐ Other (list below)
	☐ Mountable ☐ Painted ☐ Semi-Mountable ☐ Non-Mountable ☐ None	☐Mountable ☐Semi-Mountable ☐Non-Mountable ☐None	☐ Yes ☐ No	☐ Vegetation ☐ Poles/Signs ☐ Letter boxes ☐ Culverts ☐ Other (list below)

Centre Traffic Islands		
Intersection	**Islands**	**Stacking Distance (m)**
	☐ Mountable ☐ Semi-Mountable ☐ Non-Mountable ☐ None	
	☐ Mountable ☐ Semi-Mountable ☐ Non-Mountable ☐ None	
	☐ Mountable ☐ Semi-Mountable ☐ Non-Mountable ☐ None	
Additional Comments		

HVS Use Only	
Is the Intersection suitable for RAV Access?	☐ Yes ☐ No
Comments:	

Please insert photos showing the intersection layout, including the name of the intersecting roads, direction of travel and SLK location.

Swept Paths

Where there is any possibility that the RAV may have insufficient clearance from kerbs or other nearby objects, standard turning templates shall be used to accurately check the swept path of the RAV. Using Autoturn, the appropriate vehicle combination must be used to check all turning movements at all required intersections and any clearance problems should be noted.

Has a Swept Path been conducted for each intersection and roundabout?
☐ Yes ☐ No

Additional Comments		
HVS Use Only		
Vehicle Combination Used for Swept Paths:		
Are all Swept Paths on trafficable ground?	☐ Yes	☐ No
Do all Swept Paths have sufficient clearance from non-mountable kerbing?	☐ Yes	☐ No
Do all Swept Paths have sufficient clearance from all nearby objects?	☐ Yes	☐ No
Do any left or right turn swept paths cross the centreline of the road? If so, are sight distance sufficient in all directions	☐ Yes	☐ No
Comments:		

Please insert photos for swept path assessments below, including the name of the intersecting roads and direction of travel.

Entering Sight Distance

The required sight distance for a RAV driver to see a sufficient gap in oncoming traffic that will allow a RAV, with greater length and lower acceleration capacity, to clear the intersection safely.

Name of Intersecting Road	Direction of Travel	Grade (%)	Speed Limit	Entering Sight Distance		Entering Sight Distance		HVS Only Guideline (m)
				Direction	(m)	Direction	(m)	

Have all measurements been taken at Truck Driver height of 2.4m to a height that considers all traffic?

☐ Yes ☐ No

Is there anything restricting Sight Distance? *(e.g. trees, shrubs, signage)*	

Additional Comments

HVS Use Only

All Entering Sight Distances meets guideline requirements: ☐ Yes ☐ No

If no, is there anything that can mitigate the risk? *(e.g. warning signage, vegetation clearing)*	

Comments

Please insert photos showing all of the entering sight distances, including the name of the intersecting roads, direction of travel, direction of measurement and SLK location.

Approach Sight Distance

The distance required for a driver of a RAV, travelling at a given speed, to observe the approaching intersection, and react or stop if necessary.

Name of Approaching Road	Direction of Travel	Recommended Speed of RAV	Is there warning signage	Grade (%)	Approach Distance (m)	HVS Only Guideline (m)
			☐ Yes ☐ No			
			☐ Yes ☐ No			
			☐ Yes ☐ No			
			☐ Yes ☐ No			
			☐ Yes ☐ No			

Have all measurements been taken at Truck Driver height of 2.4m ☐ Yes ☐ No

Is there anything restricting Sight Distance? *(e.g. trees, shrubs, signage)*	

Additional Comments

HVS Use Only	
All Approach Sight Distances meets guideline requirements: ☐ Yes ☐ No	
If no, is there anything that can mitigate the risk? *(e.g. warning signage, vegetation clearing)*	
Comments:	

Please insert photos showing all of the approach sight distances, including the name of the approaching roads, direction of travel and SLK location.

Assets

Acceleration Lanes

To assist in ensuring network performance levels are maintained, the assessor needs to identify if acceleration lanes and turn pockets are present at intersections and the length of these treatments. Consultation with the relevant road manager should be undertaken to ensure existing treatments remain adequate and consideration is given to potential significant impacts on network performance that may justify intersection upgrades such as turn pockets or acceleration lanes.

Through Road	Length of Acceleration Lane

Additional Comments

HVS Use Only
Is the acceleration lane adequate ☐ Yes ☐ No
Comments:

Please insert photos relevant to Acceleration Lane, including SLK location

Overtaking Opportunities

(Provision of additional overtaking opportunities is usually not justified for AADT of 500 or below)

Does the AADT exceed 500? ☐ Yes ☐ No

If yes, please complete the below Table

Maximum Distances	
Maximum average distance between overtaking opportunity (km)	
Maximum distance between overtaking opportunities (km)	

Minimum Length for Overtaking Opportunities		
Location (SLK-SLK)	**Length of Overtaking Opportunity**	**HVS Only Guideline (m)**

Is there seasonal traffic on this road? ☐ Yes ☐ No

If yes, please detail:

Additional Comments

HVS Use Only	
Guideline requirement for Maximum Average Distance (km):	
Guideline requirement for Maximum Distance between Opportunities (km):	
All Overtaking Distances meet guideline requirements: ☐ Yes ☐ No	
Comments:	

Please insert photos relevant to Overtaking Opportunities, including SLK location

Off Road Parking

Is this a rural road exceeding 80km or a remote road exceeding 120 km in length?

☐ Yes ☐ No

If yes, please complete the below Table

SLK	Direction of Travel	Speed Limit	Grade %	Clearance from edge of pavement (m)	Approach Sight Distance (m)	Entering Sight Distance		Entering Sight Distance	
						Direction	(m)	Direction	(m)
Have all measurements been taken at Truck Driver height of 2.4m ☐ Yes ☐ No									
Comments									

HVS Use Only	
Minimum Guideline requirement for Entering Sight Distance (m):	
All Entering Sight Distances meets guideline requirements: ☐ Yes ☐ No	
Minimum Guideline requirement for Approach Sight Distance (m):	
All Approach Sight Distances meets guideline requirements: ☐ Yes ☐ No	
If no, is there anything that can mitigate the risk? *(e.g. warning signage, vegetation clearing)*	
Comments:	

Please insert photos relevant to Off Road Parking, including SLK location

Community Considerations

What are the major concerns that need to be addressed? (tick all that apply)			
☐ Noise	☐ Vibration	☐ Smell	☐ Other
Details:			
What agencies have been contacted with regards to any community issues or concerns? (tick all that apply)			
☐ Regional Office	☐ Local Government Authority	☐ Local Police	☐ Other
Details:			
HVS Use Only			
Comments:			

Other Considerations/Comments

Details:
HVS Use Only
Comments:

Assessment Declaration:

I hereby declare that:

1. I have assessed this route in accordance with all requirements and procedures in Main Roads Western Australia *Standard Restricted Access Vehicle (RAV) Route Assessment Guidelines, Tri-Drive Route Assessment Guidelines and Guidelines for Approving RAV Access*, and
2. The information provided on this form and any attached documents is true and correct to the best of my knowledge.

Assessment Officer Details			
Name		Name	
Position		Position	
Representing		Representing	
Signature:		Signature:	
Date:		Date:	

Recommendation			
I hereby endorse the route's suitability for RAV access as follows:			
RAV Network(s):			
☐ This road is **unsuitable** for RAV Access			
☐ This road is **suitable** for RAV Access	☐ Type A Low Volume	☐ Type B Low Volume	
Specific Conditions:			
Comments:			

This section must be signed by a CEO/ Deputy CEO or Regional Manager.			
Comments:			
Name:		Signature:	
Date:			

HVS Assessment Review

HVS Use Only			
Recommendation			
I have reviewed this assessment in accordance with all requirements and procedures in Main Roads Western Australia *Standard Restricted Access Vehicle (RAV) Route Assessment Guidelines, Tri-Drive Route Assessment Guidelines and Guidelines for Approving RAV Access* **and recommend RAV access as follows:**			
RAV Network(s):			
☐ This road is **unsuitable** for RAV Access			
☐ This road is **suitable** for RAV Access	☐ Type A Low Volume	☐ Type B Low Volume	
Specific Conditions:			
Comments:			
Name:		Signature	
Date:			
Management Meeting			
Management Meeting Date:			
Management Meeting Outcome:			
If approved and Railway Crossings have been identified on the road			
Has an email been sent to ARC?	☐ Yes ☐ No	HPRM Ref Number:	
If approved and Traffic Signals have been identified on the road			
Has an email been sent to Traffic Systems Operations?	☐ Yes ☐ No	HPRM Ref Number:	