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# **Operating Conditions**

## Oversize Road Train and B-Double Period Permit

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D13#164264  
1 February 2021

# Contents

<b>DEFINITIONS .....</b>	<b>4</b>
<b>REFERENCES AND RELATED DOCUMENTS .....</b>	<b>5</b>
<b>1 APPLICATION .....</b>	<b>6</b>
1.1 Approved Vehicles .....	6
1.2 Approved Axle Configuration .....	7
<b>2 COMPLYING WITH LICENSING CONDITIONS.....</b>	<b>7</b>
<b>3 USING A NON-COMPLYING VEHICLE .....</b>	<b>8</b>
3.1 Obtaining Exemptions or Modifications .....	8
3.2 Accepted Non-Complying Vehicles .....	8
<b>4 DIMENSION REQUIREMENTS .....</b>	<b>8</b>
4.1 Length Limits .....	8
4.2 Width Limits .....	8
4.3 General Height Limits .....	8
<b>5 AXLE SPACINGS .....</b>	<b>9</b>
<b>6 WARNING DEVICES.....</b>	<b>9</b>
6.1 Lights.....	9
6.2 Warning Signs and Flags.....	9
6.3 Delineating Side Projection .....	10
6.4 Additional Warning Devices at Night.....	10
<b>7 CURFEWS .....</b>	<b>10</b>
7.1 Night Curfew.....	10
7.2 Metropolitan Curfew.....	10
<b>8 ACCESS REQUIREMENTS .....</b>	<b>10</b>
8.1 Approved Roads & Conditions .....	10
8.2 Prohibited Roads .....	11
8.3 Route Survey.....	11
8.4 Height Restrictions.....	11
8.5 Minimum Following Distance .....	11
8.6 Poor Visibility .....	11
<b>9 SPEED RESTRICTIONS .....</b>	<b>12</b>
<b>10 ALLOWANCES FOR CARRYING OVERSIZE HUTS .....</b>	<b>12</b>
10.1 Forward Projection Allowance.....	12
10.2 Height Allowance .....	12
<b>11 CARRYING MULTIPLE ITEMS .....</b>	<b>12</b>
<b>12 COMPULSORY HEAVY VEHICLE INCIDENT REPORTING .....</b>	<b>13</b>
<b>13 AMENDMENTS TO OPERATING CONDITIONS &amp; ACCESS.....</b>	<b>13</b>
13.1 Access Approval Suspension & Revocation.....	13
13.2 Amendments & Notifications .....	13
<b>14 APPENDICES .....</b>	<b>14</b>
Appendix 1: Metropolitan Area Curfew Map.....	15

# Document Control

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# Amendments

Revision Number	Revision Date	Description of Key Changes	Section / Page No.
1	1 February 2021	Updated document format and amended load height provision to 4.9m, specifically when carrying oversize huts.	All, c.8.4 & 10.2

## DEFINITIONS

The following are definitions for terms used in these Operating Conditions. Refer to the definitions in the Road Traffic (Administration) Act 2008 and the Road Traffic (Vehicles) Act 2012 and any subsidiary legislation to these Acts for the meanings of any terms not defined in this section. If a definition in the relevant Acts or the subsidiary legislation conflicts with a definition in this section, the definition in this section prevails for the purpose of these Operating Conditions.

Term	Definition
<b>Curfew</b>	A period when the movement of a RAV is not permitted
<b>Day</b>	The hours between sunrise and sunset. Sunrise and sunset times can be obtained from the Perth Observatory website at <a href="http://www.perthobservatory.com.au/">www.perthobservatory.com.au/</a> or by contacting the Perth Observatory on 08 9293 8255, or from the Geoscience Australia website at <a href="http://www.ga.gov.au/geodesy/astro/sunrise.jsp">http://www.ga.gov.au/geodesy/astro/sunrise.jsp</a>
<b>Large Indivisible Item</b>	An item that: <ul style="list-style-type: none"> <li>(a) cannot be divided without extreme effort, expense or risk of damage to it; and</li> <li>(b) cannot be carried on any vehicle without exceeding a mass or dimension limit in the Road Traffic (Vehicles) Regulations 2014.</li> </ul>
<b>Licensing Authority</b>	A Government Authority responsible for the administration of the vehicle licensing provision of the law of the relevant State, Territory or the Commonwealth.
<b>Main Roads Website</b>	<a href="http://www.mainroads.wa.gov.au">www.mainroads.wa.gov.au</a>
<b>Metropolitan Area</b>	As depicted in <i>Appendix 1</i> , means the area within – <ul style="list-style-type: none"> <li>(a) the northern boundaries of the local government districts of Wanneroo, Swan and Mundaring;</li> <li>(b) the eastern boundaries of the local government districts of Wanneroo, Swan, Mundaring, Kalamunda, Armadale and Serpentine-Jarrahdale;</li> <li>(c) the southern boundaries of the local government districts of Serpentine-Jarrahdale and Rockingham; and</li> <li>(d) the Indian Ocean coastline.</li> </ul>
<b>Night</b>	The hours between sunset and sunrise. Sunset and sunrise times can be obtained from the Perth Observatory website at <a href="http://www.perthobservatory.com.au/">www.perthobservatory.com.au/</a> or by contacting the Perth Observatory on 08 9293 8255, or from the Geoscience Australia website at <a href="http://www.ga.gov.au/geodesy/astro/sunrise.jsp">http://www.ga.gov.au/geodesy/astro/sunrise.jsp</a>
<b>Peak Traffic Periods</b>	The hours of 7:30am to 9:00am and 4:30pm to 6:00pm, Monday to Friday (public holidays excluded).
<b>Permit</b>	A permit issued under Part 4 of the <i>Road Traffic (Vehicles) Act 2012</i> , which these conditions form part of.
<b>Permit Holder</b>	The Operator to whom the permit is issued.
<b>Posted Speed Limit</b>	The speed limit indicated on the speed limit sign or in the absence of a speed limit sign in a built-up area, 50 kilometres per hour.
<b>RAV</b>	An approved vehicle combination to which the “ <i>Oversize Road Train and B-double Period Permit</i> ” applies.

Term	Definition
<b>27.5 m Oversize B-double Network</b>	The 27.5 m Oversize B-double Network of approved roads are published in the form of Road Tables or are available on the RAV Mapping Tool on the Main Roads website.
<b>27.5 m Oversize Road Train Network</b>	The 27.5 m Oversize Road Train Network of approved roads are published in the form of Road Tables or are available on the RAV Mapping Tool on the Main Roads website.
<b>36.5 m Oversize Road Train Network</b>	The 36.5 m Oversize Road Train Network of approved roads are published in the form of Road Tables or are available on the RAV Mapping Tool on the Main Roads website.
<b>53.5 m Oversize Road Train Network</b>	The 53.5 m Oversize Road Train Network of approved roads are published in the form of Road Tables or are available on the RAV Mapping Tool on the Main Roads website.

## REFERENCES AND RELATED DOCUMENTS

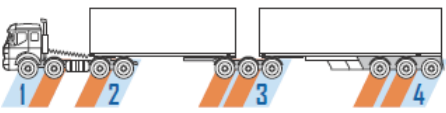
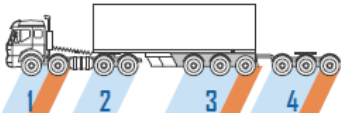
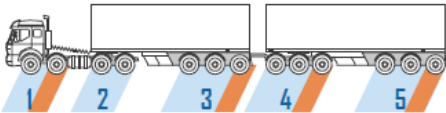
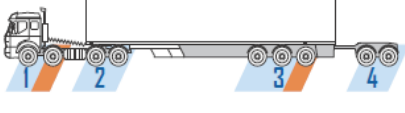
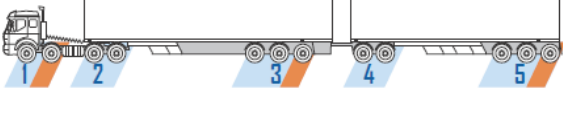
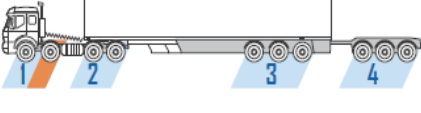
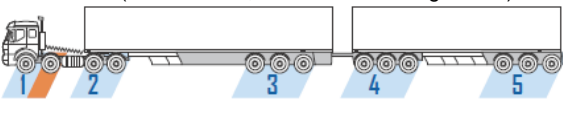
The following documents relate to these Operating Conditions and are available on the Main Roads website:

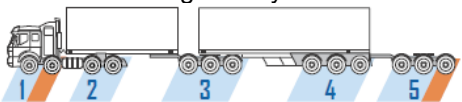

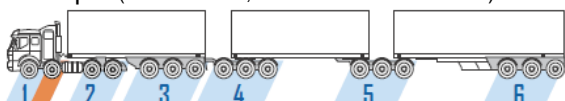

Document Number	Description
<b>D15#453366</b>	Oversize Vehicle & Pilot Vehicle General Requirements
<b>D17#306203</b>	Guidelines for Transporting Multiple Items on an Oversize or Over-mass Vehicle

# 1 APPLICATION

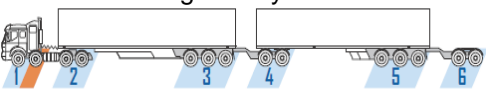
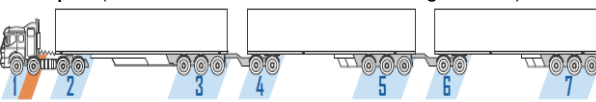
## 1.1 Approved Vehicles

1.1.1 The “Oversize Road Train and B-double Period Permit” applies to a RAV in the following table, when carrying one or more large indivisible items:

Category 1 RAVs					
Category	Vehicle Description	Maximum length	Approved Network	Maximum Height	Maximum Width
1.1	B-Double 	≤27.5 m	27.5 m Oversize B-double Network	4.6 m	3.5 m
Category 2 RAVs					
Category	Vehicle Description	Maximum length	Approved Network	Maximum Height	Maximum Width
2.1	Prime Mover, Semi Trailer towing a Dolly 	19.0 m + Dolly	27.5 m Oversize B-double Network	*2.9 m	3.5 m
	A-Double (Prime Mover, Semi Trailer & Dog Trailer) 	≤27.5 m	27.5 m Oversize Road Train Network		
Category 3 RAVs					
Category	Vehicle Description	Maximum length	Approved Network	Maximum Height	Maximum Width
3.1	Prime Mover, Semi Trailer towing a Dolly 	20.0 m + Dolly	27.5 m Oversize B-double Network	4.3-4.6 m (subject to sub-clause 4.3.2)	3.5 m
	A-Double (Prime Mover, Semi Trailer & Dog Trailer) 	>27.5 m, ≤36.5 m	36.5 m Oversize Road Train Network		
3.2	Prime Mover, Semi Trailer towing a Dolly 	20.0 m + Dolly	27.5m Oversize B-double Network	4.6 m	3.5 m
	A-Double (Prime Mover, Semi Trailer & Dog Trailer) 	>27.5 m, ≤36.5 m	36.5 m Oversize Road Train Network		

3.3	B-Double towing a Dolly 	27.5 m, + Dolly	36.5 m Oversize Road Train Network	4.6 m	3.5 m
	BA-Triple (B-Double & Dog Trailer) 	>27.5 m, ≤36.5 m			
3.4	AB-Triple (Prime Mover, Semi Trailer & B-Double) 	>27.5 m, ≤36.5 m	36.5m Oversize RAV Network	4.6 m	3.5 m
3.5	B-Triple 	>27.5 m, ≤36.5 m	36.5m Oversize Road Train Network	4.6 m	3.5 m

**Category 4 RAVs**

Category	Vehicle Description	Maximum length	Approved Network	Maximum Height	Maximum Width
4.1	A-Double towing a Dolly 	36.5 m + Dolly	53.5 m Oversize Road Train Network	4.3 m	3.048 m
	A-Triple (Prime Mover, Semi Trailer & 2 Dog Trailers) 	>36.5 m, ≤53.5 m			

\* The load height on the trailers must not exceed 2.9 metres. The height of the prime mover may exceed 2.9 metres, but must not exceed 4.3 metres.

**1.2 Approved Axle Configuration**

1.2.1 The axle groups of the vehicle combinations described in Clause 1.1 are colour coded to indicate the minimum and maximum number of axles allowable for that category of vehicle, as shown below:



1.2.2 The “Oversize Road Train and B-double Period Permit” does not apply to a vehicle with less than the number of axles indicated.

1.2.3 The “Oversize Road Train and B-double Period Permit” does not apply to a vehicle with more than the number of axles indicated.

**2 COMPLYING WITH LICENSING CONDITIONS**

Drivers and operators are reminded that in addition to the “Oversize Road Train and B-double Period Permit Operating Conditions”; the RAV must be driven in accordance with any conditions of the vehicle’s licence, as imposed by the relevant licensing authority.

## 3 USING A NON-COMPLYING VEHICLE

### 3.1 Obtaining Exemptions or Modifications

A RAV may consist of a non-complying vehicle mentioned in Clause 3.2, provided the relevant licensing authority has issued the necessary vehicle standards exemption or dimension modification.

### 3.2 Accepted Non-Complying Vehicles

**3.2.1** A semi-trailer with a non-complying length may be used, provided:

- (a) The semi-trailer does not exceed 9.5 metres from the king pin to the centre of rear axle group; and
- (b) The semi-trailer does not exceed 13.2 metres from the king pin to the rear of the trailer; and
- (c) The front of the semi-trailer forward of the king pin does not exceed 1.43 metres or a radius of 1.9 metres; and
- (d) The semi-trailer is used as the rearmost trailer in the vehicle combination.

## 4 DIMENSION REQUIREMENTS

The modified width and height limits provided under the “*Oversize Road Train and B-double Period Permit*” only apply to large indivisible items that are being carried.

### 4.1 Length Limits

**4.1.1** A RAV operating under the “*Oversize Road Train and B-double Period Permit*” must not exceed the maximum length indicated for the particular vehicle combination in the table under Clause 1.1.

**4.1.2** The two (2) semi-trailers used in a B-double must not be more than 20.6 metres in combined length, measured from the king pin of the lead semi-trailer to the rear of the second semi-trailer (including the space between the semi-trailers).

### 4.2 Width Limits

A RAV operating under the “*Oversize Road Train and B-double Period Permit*” must not exceed the maximum width indicated for the particular vehicle combination in the table under Clause 1.1.

### 4.3 General Height Limits

**4.3.1** A RAV operating under the “*Oversize Road Train and B-double Period Permit*” must not exceed the maximum height indicated for the particular vehicle combination in the table under Clause 1.1.

**4.3.2** Despite sub-clause 4.3.1, where a tandem axle semi-trailer is being used in a Category 3.1 RAV, the height must not exceed 4.3 metres, unless the tandem axle mass is 14.0 tonnes or less.

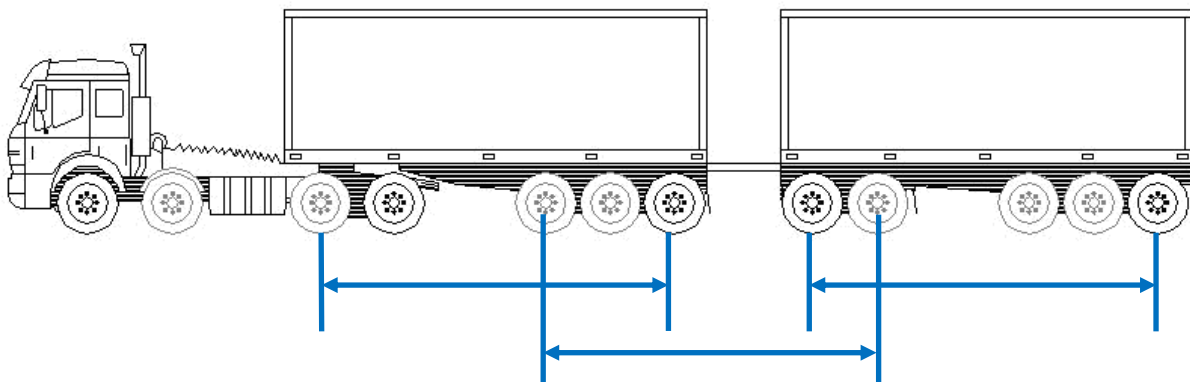


## 5 AXLE SPACINGS

A RAV must comply with the minimum axle spacing requirements specified below:

Adjacent axles or axle groups	Minimum distance (measured between extreme axles)
Tandem axle group to tri-axle group	8.0 m
Tri-axle group to tri-axle group	9.2 m

Axle spacing measurements are taken from the outermost extreme axles of the two adjacent axle groups, as shown below:



“Tandem axle group” does not include a twin steer axle group.

## 6 WARNING DEVICES

### 6.1 Lights

- 6.1.1** A RAV exceeding 2.5 metres in width must operate with headlights switched on at all times.
- 6.1.2** A RAV in excess of 2.5 metres in width must display at least one amber warning light complying with the requirements set out in the *Oversize Vehicle & Pilot Vehicle General Requirements*.
- 6.1.3** A RAV must not display an amber warning light if not required under this clause.

### 6.2 Warning Signs and Flags

- 6.2.1** In addition to the “Long Vehicle” or “Road Train” warning sign required under the *Road Traffic (Vehicles) Regulations 2014*, a RAV exceeding 2.5 metres in width must clearly display:
- “Oversize” warning signs on the front of the vehicle; and
  - “Oversize” warning signs on the rear of the vehicle or if carrying a rear projecting load, the “Oversize” warning sign is to be mounted as close to the rear of the load as practical; and
  - Four (4) warning flags. One flag must be positioned at each side of both the front and rear of the vehicle, or if there is any projecting load, at each side of both the front and rear of the projecting load.

- 6.2.2 A warning flag must comply with the requirements set out in the *Oversize Vehicle & Pilot Vehicle General Requirements*.
- 6.2.3 An “Oversize” warning sign must comply with the requirements set out in the *Oversize Vehicle & Pilot Vehicle General Requirements*.
- 6.2.4 A RAV must not display an “Oversize” warning sign if not required under this clause.

### 6.3 Delineating Side Projection

A RAV carrying a load that projects beyond the side of the vehicle and any part of the projecting load extends horizontally more than 150 mm and is less than 500 mm thick from top to bottom, must display:

- (a) A warning light, which must comply with the requirements set out in the *Oversize Vehicle & Pilot Vehicle General Requirements*; and
- (b) Delineation on the side projection in accordance with the allowable methods, as set out in the *Oversize Vehicle & Pilot Vehicle General Requirements*.

### 6.4 Additional Warning Devices at Night

A RAV travelling at night must also display:

- (a) Lights showing yellow to the front and red to the rear (known as “side markers”), no more than 2 metres apart along both sides of the vehicle or load;
- (b) If in excess of 2.5 metres in width, yellow or white lights (known as “front clearance lights”) on the front of the trailer deck, one on each side of the trailer, as near as practical to the front outer edge and clearly visible to oncoming traffic;
- (c) If carrying a load that is not contained within the confines of the vehicle, flood lights attached to the load or the trailer, directed upward at the extremities of the load in a manner so as not to dazzle any driver.

## 7 CURFEWS

### 7.1 Night Curfew

A RAV that exceeds 2.7 metres in width must not operate at night.

### 7.2 Metropolitan Curfew

A RAV that exceeds 2.7 metres in width must not be driven on any road within the Metropolitan Area during the peak traffic periods, other than the roads depicted in [Appendix 1](#) as “Approved Roads” within the Metropolitan Area during curfew.

## 8 ACCESS REQUIREMENTS

### 8.1 Approved Roads & Conditions

- 8.1.1 A RAV must not operate on any road that is not in the Approved Network specified for the particular vehicle category in Clause 1.1, subject to Clause 8.2.
- 8.1.2 A RAV must operate in accordance with any conditions specified for a particular road in the Approved Network.

## 8.2 Prohibited Roads

- 8.2.1** A RAV must not travel on any Freeway, except on Kwinana Freeway between Anketell Road and Forrest Highway.
- 8.2.2** A RAV exceeding 2.5 metres in width must not travel on a road that is identified as a “Low Volume (LV)” road in the 27.5m Oversize B-double Network.

## 8.3 Route Survey

- 8.3.1** Prior to departure, the operator or driver of the RAV must assess the route of travel to ensure that it is suitable for use and that it can be driven along without contravening these Operating Conditions.
- 8.3.2** A RAV must not be driven along a route or within an area if doing so would be likely to cause:
- (a) Damage to property or another vehicle; or
  - (b) Damage to telecommunication, electrical, gas, water or sewage services; or
  - (c) Damage to a road (including a bridge), structure, roadside furniture, rail crossing or tree.

## 8.4 Height Restrictions

- 8.4.1** A RAV exceeding 4.6 metres in height must not be driven on a road without current written approval from all the relevant overhead cable operator(s).
- 8.4.2** Written approvals must be carried in the RAV and produced upon request.

**Note:** “Contact Details for Other Agency Approvals” are available on the Oversize Overmass (OSOM) page on the Main Roads website.

## 8.5 Minimum Following Distance

The driver of a RAV must maintain a distance of at least 200 metres from any other RAV travelling in front of it, unless:

- (a) The RAV is overtaking the vehicle in front or the vehicle in front is stopping; or
- (b) There is a separate lane available for the use of overtaking traffic; or
- (c) The RAV is in an urban area and it is not reasonably practicable to maintain such a distance; or
- (d) The RAV is stopped, or coming to a stop for the purpose of complying with a provision of any law or avoiding conflict with other traffic.

## 8.6 Poor Visibility

- 8.6.1** The driver of a RAV must not begin to travel if, due to circumstances such as fog, heavy rain, smoke, dust or insect plague:
- (a) The visibility is less than 250 metres during the day; or
  - (b) The headlights of a vehicle approaching within 250 metres could not be seen at night.
- 8.6.2** Where a RAV is already travelling when visibility is reduced to the level described above, the driver must drive into the nearest safe parking area, and wait until visibility improves beyond that level before continuing to travel.

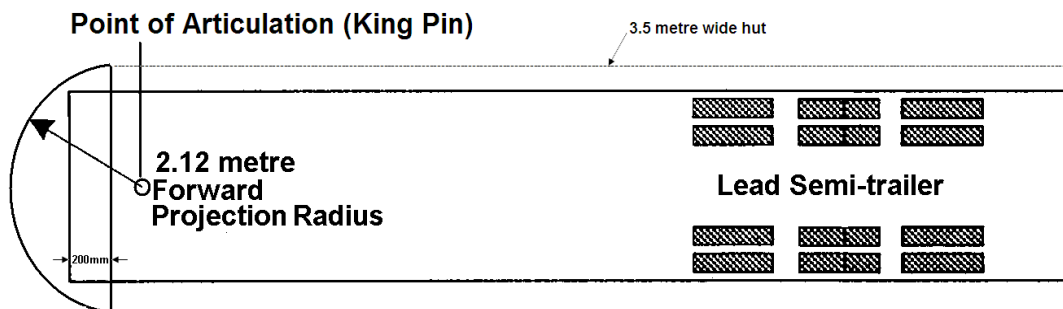
## 9 SPEED RESTRICTIONS

Unless otherwise specified as a condition for a particular road in the Approved Network, a RAV must not travel at a speed exceeding 10 km/h lower than the posted speed limit, where the posted speed limit is greater than 60 km/h.

## 10 ALLOWANCES FOR CARRYING OVERSIZE HUTS

### 10.1 Forward Projection Allowance

To accommodate the transport of two (2) oversize huts, up to 14.4 metres in length, a Category 3.1 and 3.2 RAV may exceed the statutory forward projection radius limit of 1.9 metres, measured forward of the lead semi-trailer from the king pin, provided the forward projection radius does not exceed 2.12 metres.



*Note: To achieve a 2.12 metres forward projection radius, a 3.5 metres wide hut generally needs to be loaded approximately 200 mm back from the front of the semi-trailer.  
To achieve a 2.12 metres forward projection radius, a 3.3 metres wide hut generally needs to be loaded 70 mm back from the front of the semi-trailer.*

### 10.2 Height Allowance

The loaded height of an oversize hut may exceed 4.6 metres, but must not exceed 4.9 metres for a Category 3.1 or 3.2 RAV.

## 11 CARRYING MULTIPLE ITEMS

- 11.1.1** A RAV may carry other items in addition to the large indivisible item(s), provided the other items do not cause any part of the RAV to exceed a statutory dimension limit that would not have otherwise been exceeded if the other items were not carried, as per the requirements set out in section 2.1 of the *Guidelines for Transporting Multiple Items on an Oversize or Over-mass Vehicle*.
- 11.1.2** A RAV may carry items other than a large indivisible item, provided the vehicle is reduced to its minimum practicable dimensions, and the items do not cause any part of the RAV to exceed a statutory dimension limit, as per the requirements set out in section 2.2 of the *Guidelines for Transporting Multiple Items on an Oversize or Over-mass Vehicle*.
- 11.1.3** A RAV may carry multiple oversize tyres, in the upright standing position side by side. For the purpose of this clause, an oversize tyre is a tyre with a diameter in excess of 2.5 metres.

## 12 COMPULSORY HEAVY VEHICLE INCIDENT REPORTING

All on-road incidents involving a RAV must be reported to Main Roads Heavy Vehicle Services by the permit holder. The Heavy Vehicle Incident Reporting form is available on the Incident Reporting page on the Main Roads website, and it must be submitted within 48 hours of the incident occurring.

## 13 AMENDMENTS TO OPERATING CONDITIONS & ACCESS

### 13.1 Access Approval Suspension & Revocation

- 13.1.1 Approval to operate a RAV may be suspended when road and/or traffic conditions are considered unsuitable. Main Roads personnel, WA Police or Traffic Escort Wardens, may make verbal notification of such suspension.
- 13.1.2 Approval to operate a RAV may be suspended or revoked if the operator or vehicle combination fails to comply with any of the requirements specified in these Operating Conditions.

### 13.2 Amendments & Notifications

- 13.2.1 These Operating Conditions are subject to occasional amendments. If amendments are made that impact transport operators, they will be published as an “HVS Update” on the Main Roads website on the first working day of the month. Operators and drivers are required to ensure that they are operating vehicles on the public road network in accordance with the current Operating Conditions.
- 13.2.2 The RAV Networks are subject to periodic amendments, which include additional roads being included in the lists, roads being removed from the lists, or amendments being made to a condition relating to a particular road in the lists. RAV Network updates will be effective from the Wednesday following the amendment and the RAV Networks are maintained on the Main Roads website. Operators and drivers are required to ensure they are operating vehicles on the public road network in accordance with the current and up to date RAV Networks.
- 13.2.3 Heavy Vehicle Travel Impact Tables are published when road conditions may impede the movement of Restricted Access Vehicles. Operators and drivers are required to check the Heavy Vehicle Travel Impact Tables on the Main Roads website prior to operating the vehicle on the public road network to ensure that there is no relevant information that will impede their vehicle operating on the WA road network.
- 13.2.4 All conditions stipulated in HVS Updates or Heavy Vehicle Travel Impact Tables must be adhered to.

## 14 APPENDICES

Appendix	Title
Appendix 1	Metropolitan Area Curfew Map



## Appendix 1: Metropolitan Area Curfew Map

