

DEPARTMENT *of* INFRASTRUCTURE, ENERGY *and* RESOURCES  
TASMANIA  
ROADWORKS SPECIFICATION  
R54 – ROAD AND BRIDGE CLEANING  
November 2010

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### **R54.1 SCOPE OF WORKS**

This Specification sets out the requirements for:

- The removal and disposal of loose aggregate, build up of foreign material, litter and other deleterious material from all sealed pavement surfaces, including carriageways and shoulders, intersections, parking bays and bus bays, median kerbs, median openings, median islands, cycle lanes and footpaths; and
- The routine cleaning of bridge decks and accessible areas of bridge substructure.

### **R54.2 REFERENCES**

This Specification shall be read in conjunction with the following DIER Standard Specification:

- G1 – General Provisions/MG1 Maintenance General Provisions
- G2 - Contract Management Plan/MG2 Maintenance Contract Management Plan
- G3 – Traffic Management
- R35 – Waterway Clearing and Scour Repair.

### **R54.3 DEFINITIONS**

None

### **R54.4 REQUIREMENTS**

#### ***R54.4.1 General***

All detritus and debris shall be removed 'off site' and disposed of and shall not enter the stormwater systems as a result of the sweeping operations. Disposal of material shall be in accordance with all relevant legislative requirements and Standard Specifications G1 General Provisions Clause G1.6 Approvals and G2 Contract Management Plan Clause G2.3 Environmental Management or the corresponding clauses in MG1 and MG2..

#### ***R54.4.2 Pavement Cleaning***

Accumulations of aggregate, sand, soil and other detritus material occurring on sealed pavements and associated components such as gutters, medians, sealed shoulders, footpaths and cycleways shall be removed.

Immediately after sweeping there shall be no litter, debris or other detritus material present.

#### ***R54.4.2 Bridge Cleaning***

The extent of bridge cleaning shall be the full area of the deck, including roadway, footpaths, kerbs and fences, and abutments and piers where the height does not exceed five metres to the bearing seat and the water depth does not exceed 300 mm during normal river flows or at low water during neap tides.

Where bridge cleaning is undertaken in conjunction with other maintenance activities, cleaning shall be extended to include all substructures accessed during the course of the works.

All loose soil, gravel, plants, moss and other detritus material shall be removed from the bridge deck and fence.

Care shall be taken to ensure that all foreign matter is removed from joints.

**R54.4.3 Scuppers and Drainage Channels**

Scuppers and drainage channels shall be cleaned by high-pressure water jetting to remove all foreign matter.

All outlets, particularly where the drainage system includes pipework, shall be checked to ensure that there are no obstructions. Any obstructions shall be removed. Where rods are used, care shall be taken to ensure that drainage systems are not damaged. Any such damage shall be repaired at the Contractor's cost.

Debris shall be removed from the upstream and downstream sides of a structure to the property fence line to ensure the unobstructed entry and exit of water, stock or persons. This clearing shall be in accordance with R35 - Waterway Clearing and Scour Repair.

**R54.4.4 Substructures**

All foreign matter shall be removed from abutments and piers, starting from the highest point of each substructure and progressing towards the lowest point or points.

The Contractor shall ensure that soil is not introduced into pot or roller bearings or other bridge components.

**R54.4.5 Reporting of Damage**

Any apparent damage or evidence of distress of the bridge shall be reported to the Superintendent.

**R54.4.6 Disposal of Material**

All material to be disposed of shall become the property of the Contractor unless otherwise stated in the Specification. The Contractor shall arrange suitable off-site disposal areas for all such material. All such material including detritus and debris shall be removed and disposed in accordance with all relevant legislation and Standard Specifications G1 General Provisions/MG1 Maintenance General Provisions and G2 Contract Management Plan/MG2 Maintenance Contract Management Plan.

**R54.5 PERFORMANCE CRITERIA**

**R54.5.1 Maintenance in Construction Contracts**

The intervention level and the condition following treatment are set out in **Table R54.1 Intervention Levels Substructures Construction Contracts**.

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**Table R54.1 Intervention Levels Substructures Construction Contracts**

ROUTINE MAINTENANCE TREATMENT	INTERVENTION LEVEL	REQUIRED CONDITION AFTER TREATMENT
Pavement Sweeping (including sealed shoulders, cycle lanes and kerb and gutter)	10 m <sup>2</sup> of loose aggregate, soil or debris that is noticeable from a vehicle or is deemed by the Superintendent to be hazardous to vehicles, (including motorcycles, cyclists) and pedestrians. Any area where material has accumulated so as to be a hazard due to a reduction in skid resistance.	Immediately after sweeping there shall be no litter, debris or other detritus material present.
Bridge Deck and Footway Cleaning and cleaning of scuppers and deck drainage systems.	No build-up of gravel, silt or debris.	Immediately after sweeping and / or cleaning there shall be no litter, debris or other detritus material present.
Fence Cleaning	Moss or grime build up make fence unsightly	All organic and inorganic contamination removed.
Scupper Cleaning	No scuppers blocked on a bridge or water ponding into traffic lane.	Scuppers flow freely
Sub Structure Cleaning	Build up of material begins to affect operation of bearings.	All organic and inorganic material removed.

**R54.5.2 Network Maintenance Contracts**

The intervention level and the condition following treatment are set out in **Table R54.2 Intervention Levels Substructures Network Maintenance Contract**.

**Table R54.2 Intervention Levels Substructures Network Maintenance Contract**

ROUTINE MAINTENANCE TREATMENT	INTERVENTION LEVEL	REQUIRED CONDITION AFTER TREATMENT
Pavement Sweeping Includes trafficable area of pavements, traffic lanes, sealed shoulders and cycle lanes	As specified in the Contract.	Immediately after sweeping there shall be no litter, debris or other detritus material present.
Kerb and Gutter Maintenance	As specified in the Contract.	Immediately after sweeping there shall be no litter, debris or other detritus material present.
Deck and Footway Cleaning	As specified in the Contract.	All organic and inorganic contamination removed.
Cleaning and Flushing Scuppers and Deck Drainage Systems Cleaning	As specified in the Contract.	Scuppers flow freely
Sub Structure Cleaning	Build up of material begins to affect operation of bearings.	All organic and inorganic material removed.
Fence Cleaning	Moss or grime build up make fence unsightly	All organic and inorganic contamination removed.

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**R54.6 MEASUREMENT AND PAYMENT**

***R54.6.1 Maintenance in Construction Contracts***

Payment shall be at the relevant Scheduled item and shall include the supply of all plant, labour and material required. Payment for the maintenance management of the sweeping of all pavement surfaces including bridge decks and footways, kerb and gutter and bridge deck related drainage systems, sub structure and fence cleaning shall be on pro-rata basis over the contract period (ref schedule of rates 5.16).

***R54.6.2 Network Maintenance Contracts***

Payment shall be in accordance with the relevant clauses and attachments in the Basis of Payment section of the Contract and shall include the supply of all plant, labour and material required.