



**LONG TERM OPERATION AND  
MAINTENANCE PLAN  
May 27, 2021**

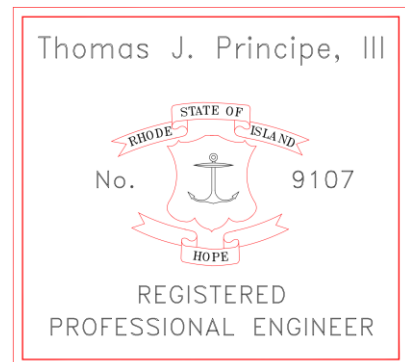
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In order to minimize the stormwater management system deterioration, the owner shall adhere to the following Operation and Maintenance Plan as well as any additional requirements pertaining to inspection and maintenance measures for this site provided in Appendices E and G of the Rhode Island Stormwater Design and Installation Standards Manual.

### **Permeable Paving**

A legally binding and enforceable maintenance agreement shall be executed between the facility owner and the responsible authority to ensure the following: Areas where infiltrating permeable pavement practices shall never serve as a sediment control device during site construction phase. Great care must be taken to prevent the permeable pavement area from compaction. Permeable paving surfaces require regular vacuum sweeping or hosing (minimum every three months or as recommended by manufacturer) to keep the surface from clogging. Maintenance frequency needs may be more or less depending on the traffic volume at the site. The use of sand and salt shall be minimized during the winter months. Permeable pavement areas shall not be repaved or resealed with impermeable materials. The permeable pavement area shall be inspected annually for deterioration or spalling. Show shall not be stockpiled on permeable pavement. Contractors shall be notified to prevent unintentional stockpiling on permeable pavement.

### **APPENDIX:**

- A. Infiltration Basin Operation, Maintenance and Management Inspection Checklist
- B. BMP Location Plan
- C. Maintenance Agreement

## Permeable Pavement Operation, Maintenance, and Management Inspection Checklist

Project:

Location:

Site Status:

Date:

Time:

Inspector:

MAINTENANCE ITEM	SATISFACTORY / UNSATISFACTORY	COMMENTS
<b>1. Sediment and Debris Cleanout (3 Months or Manufacturer's Recommendation)</b>		
Contributing area free of sediment and debris		
Contributing area stabilized and mown, with grass clippings removed		
Surface free of sediment and debris (e.g., mulch, leaves, trash, etc.)		
No signs of clogging (e.g., standing water)		
Surface does not require vacuuming		
<b>2. Dewatering (Monthly)</b>		
Permeable pavement dewateres between storms		
<b>3. Underdrain Outfall, if present (Annual)</b>		
No evidence of erosion		

MAINTENANCE ITEM	SATISFACTORY / UNSATISFACTORY	COMMENTS
4. Surface Repairs (Annual)		
Surface has not been sealed		
No evidence of surface deterioration or spalling		
Surface (top and base course) does not need to be replaced		

Comments:

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Actions to be Taken:

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### 5.4.5 Vegetation

#### Required Elements

- Other adjacent construction shall be completed and site stabilized before installation of reservoir materials. A dense and vigorous vegetative cover shall be established over any contributing pervious drainage areas before runoff can be accepted into the facility.
- Pavers that are planted with grass require species with deep root systems. Follow manufacturer's guidelines on appropriate species.

#### Design Guidance

- Table G-3 in Appendix G includes a list of native, drought tolerant grasses that may be appropriate for grid pavers.

### 5.4.6 Maintenance

#### Required Elements

- A legally binding and enforceable maintenance agreement shall be executed between the facility owner and the responsible authority.
- Areas where infiltrating permeable pavement practices are proposed shall not serve as a temporary sediment control device during site construction phase.
- Permeable paving surfaces require regular vacuum sweeping or hosing (minimum every three months or as recommended by manufacturer) to keep the surface from clogging. Maintenance frequency needs may be more or less depending on the traffic volume at the site.
- Minimize use of sand and salt in winter months.
- Do not repave or reseal with impermeable materials.
- The Erosion and Sediment Control (ESC) Plan shall specify at a minimum:
  - how sediment will be prevented from entering the pavement area;
  - a construction sequence;
  - drainage management; and
  - vegetative stabilization.

#### Design Guidance

- Keep adjacent landscape areas well maintained and stabilized (erosion gullying quickly corrected).
- Post signs identifying permeable pavement.
- Pavers planted with grass need mowing and often need reseeding of bare areas.
- Mow any upgradient contributing pervious drainage areas, and seed any bare areas.
- Monitor regularly to ensure that the paving surface drains properly after storms.
- Inspect the surface annually for deterioration or spalling.
- Attach rollers to the bottoms of snowplows to prevent them from catching on the edges of pavers.