

**#32 – Maintenance Checklist for Permeable Pavement:**

| <b>Drainage System Feature</b>             | <b>Defect or Problem</b>                      | <b>Condition When Maintenance Is Needed</b>   | <b>Results Expected When Maintenance Is Performed</b>   |
|--|---|---|---|
| Facility – General Requirements            | Unstable Adjacent Area                        | Runoff from adjacent pervious areas deposits soil, mulch, or sediment on pavement.              | No deposited soil or other materials on permeable pavement or other adjacent surfacing. All exposed soils that may erode to pavement surface mulched and/or planted.                      |
| Facility – General Requirements            | Wearing Course Covered by Adjacent Vegetation | Vegetation growing beyond facility edge onto sidewalks, paths, and street edge.                 | Vegetation does not impede function of adjacent facilities or pose as safety hazard. Groundcovers and shrubs trimmed to avoid overreaching the sidewalks, paths and street edge.          |
| Porous asphalt or pervious cement concrete | NA  | None. Maintenance to prevent clogging with fine sediment.                                       | Conventional street sweepers equipped with vacuums, water, and brushes or pressure washer used to restore permeability. Vacuum or pressure wash the pavement two to three times annually. |
| Porous asphalt or pervious cement concrete | NA  | None. Maintenance to prevent clogging with fine sediment.                                       | Use of sand and sealant application prohibited. Protect from construction runoff.   |
| Porous asphalt or pervious cement concrete | Cracks  | Major cracks or trip hazards.   | Potholes or small cracks filled with patching mixes. Large cracks and settlement addressed by cutting and replacing the pavement section.   |
| Porous asphalt or pervious cement concrete | NA  | Utility cuts.   | Any damage or change due to utility cuts replaced in kind.  |
| All Pavement Types                         | Leaf and Debris Accumulation                  | Fallen leaves or debris.  | Removed/disposed.   |
| Interlocking concrete paver blocks         | Missing or Damaged Paver Block                | Interlocking paver block missing or damaged.  | Individual damaged paver blocks removed and replaced or repaired per manufacturer's recommendations.  |
| Interlocking concrete paver blocks         | Settlement                                    | Settlement of surface. When deviation from original grade impedes function.                     | Original grade re-established. May require resetting.   |
| All pavement types                         | All Pavement Types                            | Sediment or debris accumulation between paver blocks, on surface of pavement, or in grid voids. | Sediment at surface does not inhibit infiltration. Remove/dispose of sediment.  |
| Interlocking concrete paver blocks         | Void material is missing or low               | Loss of aggregate material between paver blocks.  | Refill per manufacturer's recommendations.  |
| Open-celled paving grid with gravel        | Loss of Aggregate Material in Paving Grid     | Loss of aggregate material in grid.   | Aggregate gravel level maintained at the same level as the plastic rings or no more than 0.25 inch above the top of rings. Refill per manufacturer's recommendations.                     |

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|------------------------------------|--------------------------|--|---|
| Open-celled paving grid with grass | Lack of Grass Coverage   | Loss of soil and/or grass material in grid.  | Refill and/or replant per manufacturer's recommendations. Growing medium restored, facility aerated and reseeded or planted, and vegetated area amended as needed.  |
| Inlet/outlet pipe                  | Pipe is Damaged          | Pipe is damaged.   | Pipe is repaired/replaced.  |
| Inlet/outlet pipe                  | Pipe is Clogged          | Pipe is clogged.   | Roots or debris is removed.   |
| Inlet/outlet pipe                  | Erosion                  | Native soil exposed or other signs of erosion damage present.  | No eroded or scoured areas<br>Cause of erosion or scour is addressed.   |
| Underdrain pipe                    | Blocked Underdrain       | Plant roots, sediment or debris reducing capacity of underdrain (may cause prolonged drawdown period). | Underdrains and orifice free of sediment and debris. Jet clean or rotary cut debris/roots from underdrain(s). If underdrains are equipped with a flow restrictor (e.g., orifice) to attenuate flows, the orifice must be cleaned regularly.   |
| Spill Prevention and Response      | NA                       | Storage or use of potential contaminants in the vicinity of facility.                                  | Spill prevention measures exercised whenever handling or storing potential contaminants.  |
| Spill Prevention and Response      | Release of Pollutants    | Any evidence of contaminants such as oil, gasoline, concrete slurries, paint, etc.                     | Spills are cleaned up as soon as possible to prevent contamination of stormwater. No contaminants or pollutants present. <i>(Coordinate source control, removal, and/or cleanup with the City of Gig Harbor Public Works Dept. 253-851-6170 and/or Dept. of Ecology Spill Response 800-424-8802.)</i> |

If you are unsure whether a problem exists, contact a professional engineer.