
18. Permeable Pavement

18.1. Description and Purpose

18.2. Regulatory Credit

- 18.2.1 Runoff Reduction
- 18.2.2 TSS Removal
- 18.2.3 Nutrient Removal
- 18.2.4 Built-Upon Area

18.3. Siting and Feasibility

18.4. Design

- 18.4.1 Design Step 1: Select the Pavement Course
- 18.4.2 Design Step 2: Discuss Surface Type, Maintenance and Site Use with Owner
- 18.4.3 Design Step 3: Lay Out the Site Drainage System
- 18.4.4 Design Step 4: Conduct In-situ Soil Testing
- 18.4.5 Design Step 5: Decide On an Infiltration or Detention System
- 18.4.6 Design Step 6: Design Subgrade Slope
- 18.4.7 Design Step 7: Design the Aggregate Base for the Design Storm
- 18.4.8 Design Step 8: Design for Safe Conveyance of the 10-year, 24-hour Storm
- 18.4.9 Design Step 9: Observation Wells
- 18.4.10 Design Step 10: Geogrids, (Permeable) Geotextiles and (Impermeable) Geomembranes
- 18.4.11 Design Step 11: Edge Restraints and Intersections of Permeable and Impermeable Pavements
- 18.4.12 Design Step 12: Signage

18.5. Construction

- 18.5.1 Construction Step 1: Ensure Acceptable Conditions for Construction
 - 18.5.2 Construction Step 2: Excavate the Pavement Area and Prepare Subgrade Surface
 - 18.5.3 Construction Step 3: Test the Subgrade Soil Infiltration Rate (Infiltration Systems Only)
 - 18.5.4 Construction Step 5: Place Geotextiles and Geomembrane
 - 18.5.5 Construction Step 6: Place Catch Basins, Observation Well(s) and Underdrain System
 - 18.5.6 Construction Step 7: Place and Compact Aggregate Base
 - 18.5.7 Construction Step 8: Install Curb Restraints and Pavement Barriers
 - 18.5.8 Construction Step 9: Install Bedding and Pavement Courses
 - 18.5.9 Construction Step 10: Protect the Pavement through Project Completion
 - 18.5.10 Construction Step 11: As-Built Inspection
-

18.6. Cost

18.7. Maintenance

- 18.7.1 Directions for Maintenance Staff
- 18.7.2 Future Construction Projects
- 18.7.3 Snow and Ice Management
- 18.7.4 Testing the Pavement Surface Infiltration Rate
- 18.7.5 Surface Cleaning
- 18.7.6 Inspecting Observation Wells
- 18.7.7 Pavement Cracking
- 18.7.8 Required Operation and Maintenance Provisions

18.8 Additional Resources

18.9 References
