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City of Tacoma

Introducing
Permeable Pavements in Tacoma
Permeable Pavement Overview

1. Overview of Technologies
2. Case Studies
3. A Community of Practice

We have tips for every step of the way.
Overview of Technologies

You have options!
Grass/Gravel Paving

LeMay Car Museum

Clarks Creek Park, Puyallup

Grass Recommendations

• < 5 passes per day
• Sufficient Water and Sun
• < 8% Slope
• Mow to 1.25 inches

Photo by City of Puyallup, Invisible Structures
Tacoma Community College

Permeable Pavers

UNI Ecoloc Pavers 3 1/8”

Pervious Concrete

Campus Entrance
A Combined Concrete Approach

Residential
Pervious concrete parking lanes
Pervious sidewalks, bioretention

Arterial
Pervious concrete parking lanes
Infiltration extends under standard sidewalk
Challenges & Solutions

- New HMA Leaches
- Overflow
- Infiltration
- Gallery
- Vacuum
- Turning
- Radius
- Gutters
- are
- BAD
Porous Asphalt

Residential – Wapato Lake Drive

Alley
Cheney Stadium

Life Cycle Cost Saving
Parking and Roadways

• Raveling
Challenges & Solutions

Lack of Industry Standards
Building a Community of Practice

Continuous UNITED Improvement
Why do we need standards?

Fear
Contractor Complaints
No Industry Standards

Puget Sound
Stormwater Regulations
Failing Roadways
$66 Million Grants
Building a Community of Practice

Cross-functional group of leading experts

Porous Asphalt, Pervious Concrete, Bases & Subbase

Specification Task Force

May 2014  Focused Groups  April 2015
A Community of Practice
The Specifications

- 1-05.3 Inspection of Work & Materials
- 2-06 Subgrade Preparation
- 4-04 Ballast & Crushed Surfacing
- 5-04 Porous Asphalt
- 5-06 Pervious Concrete
What’s Next?

Continuous **UNITED** Improvement

- Specification Task Force
- Join us - Google Group

[https://groups.google.com/forum/#!forum/permeable-pavements-for-puget-sound](https://groups.google.com/forum/#!forum/permeable-pavements-for-puget-sound)

- Alternative tests used throughout the country that better reflect the final product.
Permeable Pavements in Tacoma