



# Experimental Features



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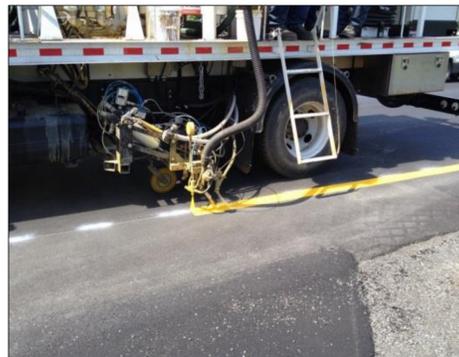
## Overview

Federal regulations, specifically 23 CFR 420.205 (c), states that “states are encouraged to develop, establish and implement an RD&T program...that anticipates and addresses transportation concerns before they become critical problems.” The VTrans Research program has developed an approach to accomplish this objective.

The VTrans Research program conducts both internal and external research. Internal research is done in house, to address project related research tasks and monitoring-The majority of internal research is conducted on Experimental Features.

## Experimental Features

Experimental Feature projects are developed as requested by subject matter experts (SME) or groups. The research staff collaborates with the SME to draft a workplan documenting the purposed work, location, experimental testing, cost, and study duration. Experimental Feature projects typically have a Construction Report, Interim/Field Report(s), and Final Report, and often require routine annual evaluations, over a study duration of 3-5 years.



Figures: Recycled Asphalt Shingles (left); I-89 Liquid Markings (right)

## 2019 Activities

Recently Approved FHWA Experimental Feature Work Plans

1. 2018-R-2 RAS in Town Gravel Roads
  2. 2018-R-3 GeoSpray Liner Culvert Rehabilitation
  3. 2019-R-1 Recycled Tires
  4. 2019-R-2 Gravix Retaining Wall
- 2019-06 Recycled Asphalt Shingles in Town Gravel Roads (Initial Report)
  - 2019-10 Randolph Park and Ride Porous Asphalt Study (Initial Report)
  - 2019-11 Big R Bridge Super-Cor Buried Metal Structural Plate Arch and Vist-A-Wall Mechanically Stabilized Earth Retaining System (Construction and Settlement Report)

Final Reports:

- 2018-03 Pavement Marking Comparison Study—US Route 302 Bike Lane Markings
- 2018-05 Pavement Marking Comparison Study—I-89 Liquid Markings
- 2018-06 Assessment of the 40” Wide Paving Skid Box for Preventative Maintenance
- 2018-07 Assessment of Super-Slab, a Precast Concrete Bridge Approach Slab
- 2018-08 Assessment of the Composite Arch Bridge
- 2019-01 Assessment of the Jahn Permeable Mortar System in a Historic Bridge Abutment Application
- 2019-04 Assessment of the HAWK Crosswalk Traffic Signal
- 2019-07 Assessment of the BDM Waterproofing Membrane System
- 2019-09 Assessment of the Poly-Carb FlexoGrid Bridge Deck Overlay System
- DRAFT RAS in Shoulders
- DRAFT Eliminator Membrane