**Environmentally Friendly Treatment For Unpaved Shoulders** 

## **OBJECTIVE**

- . Investigate use of soybean oil byproduct (soap stock) for stabilization of granular shoulders.
- . Assess the soy soap stock stabilization with full scale pilot test.
- . Develop specifications for soy soap stock stabilization.

Edge rut forms from traffic and retains water. Shoulder becomes soft.

Pavement

Shoulder

Problematic Shoulder

Pavement

Shoulder

Soy Soap Stock Treated Shoulder





## BENEFITS

- . Improved shoulder performance
- . Increased safety
- . Reduced maintenance

## CHALLENGES

- . Construction guidelines needed
- . Standard specifications needed

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