Install Wider Longitudinal Pavement Markings



Wider pavement markings improve lane visibility and reduce roadway departure crashes.

Implementation Strategy

How and Where to Apply

- Wider edge and centerline markings are most effective on rural roads with a high risk of lane departure or limited visibility.
- They can be implemented during resurfacing, restriping, or safety improvement projects.
- According to FHWA guidance, wider markings are beneficial where maintaining lane discipline and driver guidance is critical, especially in low-light or lowcontrast conditions.

Use in a Safe System Approach

This treatment supports Safer Roads and Safer Vehicles by enhancing visual guidance and lane discipline. Wider markings improve driver awareness, compensate for vision limitations at night or in rain, and provide an additional margin for error before a roadway departure occurs.

Key Stakeholders

Traffic safety and pavement engineers

State and local roadway agencies

Proactive Implementation

Agencies can proactively install wider markings on corridors identified through systemic safety analysis, especially on road segments with narrow lanes, curves, or a history of roadway departure crashes. Wider markings can also be bundled with low-cost countermeasures like rumble strips and safety edge treatments for greater benefit.

Countermeasure Overview

Objective: Keep vehicles from encroaching on the roadside

Strategy: Provide enhanced pavement markings

Service Life: 5 years

Cost: \$ (low)

Targeted Solution



- Reduced visibility
- Driver inattention



CRASH

Run-off-road



All



Rural

Safety Linkage



Run-offroad



Safer Infrastructure



Tier 4

Pavement Markings. Source: Marking

Selected Related Countermeasures



Rumble strips or rumble stripes



Rumble strips or rumble stripes

Rumble strips or rumble stripes

Reduce total rural crashes¹



Reduce run-off-road crashes²



