

# Guardrail and Bridge Rail Recommendations for Very Low-Volume Local Roads in Kansas:

## Addendum to Include Bridges Up to 100 Feet Long and Traffic Volume Up to 100 Vehicles Per Day

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### Introduction

In 2014, the Kansas Department of Transportation undertook a study, entitled “Guardrail and Bridge Rail Recommendations for Very Low-Volume Local Roads in Kansas” (Report No. KS-14-16, Seitz & Salfrank, 2014), to establish practical risk-based guidelines and policies for bridge rails and guardrails on low-volume local roads in the state.

The purpose of the effort outlined in this report is to expand on the work performed in the 2014 study and to supplement the recommendations to include bridges up to 100 feet in length and roads with ADT up to 100 vehicles per day.



*Low-Cost Bridge Design for Very Low-Volume Local Roads:  
Steel Girder Bridge*

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## Project Description

The primary tasks to be completed will include:

- Analysis of bridge rail/guardrail crashes on bridges with length between 50 feet and 100 feet and located on a local road with ADT between 50 and 100 vehicles per day.
- Benefit-cost analyses based on these parameters and typical location features.

## Project Results

Based on the results of this study, it is recommended that the recommendations of Report No. KS-14-16 be expanded to include bridge rails installed on new or rehabilitated bridges up to 100 feet long with traffic volume up to 100 vpd.

## Project Information

For information on this report, please contact Ronald J. Seitz, Division of Engineering & Design, 700 SW Harrison Street, Topeka, KS 66603-3745; 785-296-3861 phone; [Ron.Seitz@ks.gov](mailto:Ron.Seitz@ks.gov).

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