

Traffic Topics Webinar

Sinusoidal Rumbles in MN

Tuesday, September 15, 2015, 2-3 p.m.
Water's Edge, conference rooms A&C

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Presentation Overview

Because of the effectiveness of centerline rumble stripes in reducing fatal and serious injury crashes, MnDOT has been requiring centerline rumble stripes on rural, high-speed undivided roads since 2011. Due to nuisance external noise concerns, MnDOT and Minnesota's Local Road Research Board have been studying the possibility of utilizing sinusoidal rumble strips. This design has been shown to be quieter than MnDOT's standard rumble pattern outside the vehicle, while having a good amount of noise and tactile vibration within the vehicle. MnDOT is currently evaluating how motorcycles and bicycles interact with these types of rumbles and is trying to optimize the design. This presentation will go over recent studies and explain MnDOT's current use of sinusoidal rumbles.



Presenter: Ken E. Johnson, PE, PTOE

Ken E. Johnson is the Work Zone, Pavement Marking & Traffic Devices Engineer in the MnDOT Office of Traffic, Safety and Technology. He has worked for the agency since 1992 and in his current position since 2009. For most of the naught decade, he worked in the Metro District as an Area Engineer and in Design. Prior to that, he worked in the Offices of Land Management and Traffic Engineering. He's a member of the Institute of Traffic Engineers and the American Traffic Safety Services Association.

For More Information

Visit: <http://www.dot.state.mn.us/trafficeng/topics/index.html>

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