

**ITASCA COUNTY
BOARD OF COMMISSIONERS**

Itasca County Courthouse
123 NE 4th Street
Grand Rapids, MN 55744
(218) 327-2847

Tuesday, September 19, 2023

2:00 PM

Itasca County Boardroom

FINAL

SPECIAL SESSION MINUTES

I. CALL TO ORDER

Chair Ives called the meeting to order at 2:02 PM.

Attendee Name	Title	Status	Arrived
Cory Smith	District #1	Absent	
Terry Snyder	District #2	Present	2:02 PM
John Johnson	District #3	Present	2:02 PM
Burl Ives	District #4	Present	2:02 PM
Casey Venema	District #5	Present	2:02 PM

II. REGULAR AGENDA

1. Transverse Rumble Strips

County Engineer Karin Grandia provided information regarding the potential use of Transverse Rumble Strips.

RESULT:	INFORMATIONAL - NO ACTION TAKEN
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III. ADJOURN

Chair Ives adjourned the meeting at 2:18 PM.

ATTEST

Burl Ives
Chair of the County Board

Brett Skyles
Clerk of the County Board



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123 NE 4th Street
Grand Rapids, MN 55744

Tuesday, September 19, 2023

REQUEST FOR BOARD ACTION: RBA-2023-3260

DEPARTMENT: Transportation

TIME REQUESTED: 15 Minutes

PRESENTER: Karin Grandia

AGENDA ITEM:

Transverse Rumble Strips

BOARD ACTION REQUESTED:

Informational

BACKGROUND: Vehicle crashes in rural areas often occur at intersections. Transverse rumble strips placed before a stop sign can be an effective safety measure that warns drivers approaching an intersection. They are a low cost, easily deployable safety countermeasure for intersection approaches. They are grooved into the pavement and provide an auditory and tactile warning to drivers and are effective in all conditions, but particularly when it's dark or visibility is low. They are intended to address the unintentional running of a stop sign. However, this represents only one scenario for right-angle crashes at rural through-stop intersections. For example, transverse rumble strips will not benefit drivers who have stopped, but misjudge gaps in traffic as they pull out onto the highway.

The main barrier to using transverse rumble strips is the noise that is generated from vehicles traversing the rumble strips can be an issue when residences are in close proximity to the intersection.

Possible criteria for determining locations for installations are:

- more than 5 miles from the last stop
- direction of travel (E/W vs N/S) - sunrise/sunset direction
- crash history
- nearby houses
- public notification of running stop signs

Placement of transverse rumble strips should be considered when other conventional methods have been tried. If overused, they may lose their ability to gain a motorist's attention.

COUNTY ATTORNEY REVIEW: N/A

SUPPORTING DOCUMENTATION:

1. Transverse Rumble Strips
2. Noise Thermometer - FHWA

RESULT:	INFORMATIONAL - NO ACTION TAKEN
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Install Transverse Rumble Strips



Crash type addressed

Right angle and roadway departure crashes attributed to motorists unaware of Stop or Yield signs as they approach an intersection.

Time: ● ○ ○

Cost: *Moderate*

CRF: 28–35%

Where to use

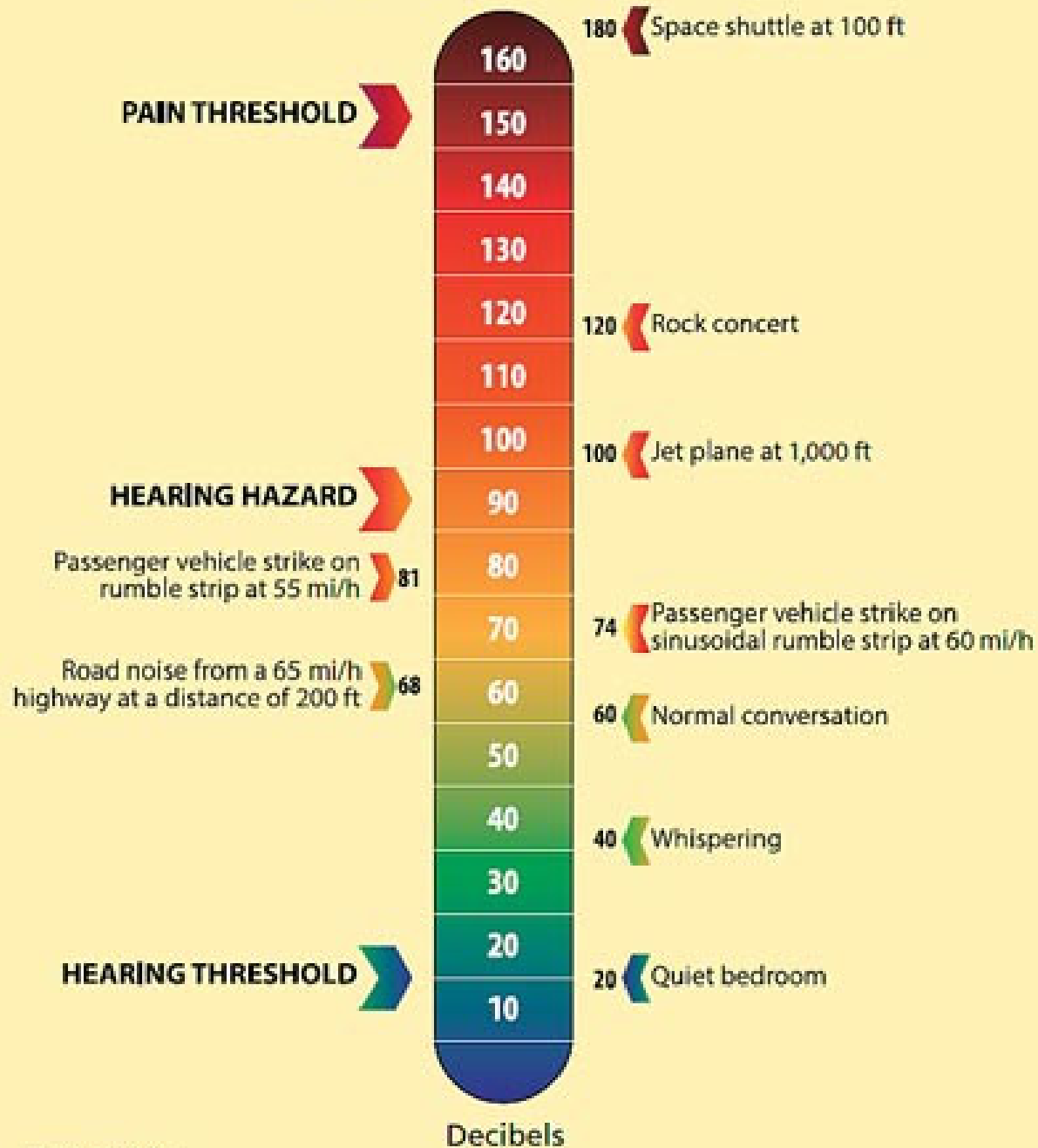
Transverse rumble strips are installed in the travel lane for the purposes of providing an auditory and tactile sensation for each motorist approaching the intersection. They can be used at any stop or yield approach intersection, often in combination with advance signing to warn of the intersection ahead. Due to the noise generated by vehicles driving over the rumble strips, care must be taken to minimize disruption to nearby residences and businesses.

Why it works

When motorists are traveling along the roadway, they are sometimes unaware they are approaching an intersection. This is especially true on rural roads, as there may be fewer cues indicating an intersection ahead. Transverse rumble strips warn motorists that something unexpected is ahead that they need to pay attention to.

Unless otherwise noted, all Crash Reduction Factors (CRFs) in this document are from “Issue Brief 8: Toolbox of Countermeasures and Their Potential Effectiveness for Intersection Crashes,” FHWA, 2009.

Noise Thermometer



Source: FHWA.