# **Index 546-001 Raised Rumble Strips**

### **Design Criteria**

NCHRP Report 500, Volume 5: Guidance for Addressing Unsignalized Intersection Collisions; Traffic Engineering Manual (TEM); Manual on Uniform Traffic Control Devices (MUTCD), Section 3K.02

#### **Design Assumptions and Limitations**

Index 546-001 provides standard details for the construction of Permanent Raised Rumble Strips (A.K.A., Transverse Rumble Strips) and Short-Term Raised Rumble Strips. See Index 102-603 for Temporary Raised Rumble Strips used for daily MOT operations.

The Department has no criteria requiring the use of *Permanent Raised Rumble Strips*. They are typically used as a crash reduction countermeasure to improve safety at unsignalized intersections. Additional guidance for consideration of permanent raised rumble strips can be found in the following documents:

- NCHRP Report 500, Volume 5: Guidance for Addressing Unsignalized Intersection Collisions
- Innovative Operational Safety Improvements at Unsignalized Intersections
- TEM, Section 5.2 provides additional consideration for use at pedestrian crosswalks.

For requirements on the use of Short-Term Raised Rumble Strips, See FDM 240.

Raised rumble strip limits encroaching into curves, and resulting in limited site distance, can be extended in 200' increments to provide a prolonged Alert/Reaction Zone when specified in the Plans. Additional signage can also be considered in this scenario.

## **Plan Content Requirements**

Include a call-out for each installation of *Permanent Raised Rumble Strips* in the Signing and Pavement Marking Plans and in the Plan Views of the Roadway Plan-Profiles.

Include a call-out for each installation of *Short-Term Raised Rumble Strips* in the Temporary Traffic Control (TTC) Plans.

## **Payment**

Item number	Item Description	Unit Measure
546-71-1	Raised Rumble Strip Set, Permanent	EA
546-71-2	Raised Rumble Strip Set, Short-Term	EA

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See the *BOE* and *Specifications 546* for additional information on payment, pay item use and compensation.