NOTE:

1. See plans for location of shoulder rumble strip gaps at turn lanes, auxiliary lanes, and approach roads.

SHOULDER RUMBLE STRIP

Pay limits (includes 7" spacing between indentations and 12' gap in rumble strips)

12' gap (skip 12 strips)

Solid white edge line pavement marking as shown on the plans (4" width shown)

Solid yellow center line pavement marking as shown on the plans

CENTERLINE RUMBLE STRIP

Pay limits (includes 7" spacing between indentations)

12' gap (skip 12 strips)

Solid white edge line pavement marking as shown on the plans

Solid yellow center line pavement marking as shown on the plans

EDGE LINE RUMBLE STRIP

Pay limits (includes 7" spacing between indentations and 12' gap in rumble strips)

Solid white edge line pavement marking as shown on the plans (8" width shown)

Solid yellow center line pavement marking as shown on the plans

Rumble strips (typ.)

12" max.

Rumble strip (typ.)

(8" width shown)

Rumble strip (typ.)

solid white edge line pavement marking as shown on the plans

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NOTES TO THE DESIGNER
Last Updated: July 2017

General Information

1. See the CFLHD Supplement 8.7.1.4-1 for guidance on the use of rumble strips.

2. **Shoulder and Edge Line Rumble Strips**
   - Use in rural roads only (not developed areas with frequent access points, near campgrounds, near residential areas, etc.)
   - Travel lane width $\geq 11\text{ ft}$
   - When bicyclists use the shoulder, do not install when the shoulder clear width available is less than 4 ft wide.
   - Consider installing shoulder and edge line rumble strips when:
     - Crash data indicates a high frequency and/or high severity of run-off-road and fixed object crashes
     - The clear zone is limited in width with severe roadside (steep drop-offs, large trees near edge of road, etc.)
   - Width of shoulder and edge line rumble strip
     - 12 in - high speed, high volume highways with truck traffic
     - 8 in - standard application for roads with a posted speed less than 50 mph and moderate volumes
   - Provide gaps in the shoulder and edge line rumble strips near intersections. Refer to the FLH Rumble Strip Guidelines Figure 3a and 3b.

3. **Centerline Rumble Strips**
   - Use in spot locations or continuously through a project.
   - Use in both passing and no-passing zones.
   - Travel lane width $\geq 11\text{ ft}$, Paved shoulder width $\geq 2\text{ ft}$
   - Generally use in mountainous terrain with frequent curvature

Applicable SCRs

1. Section 633

Typical Pay Item Used

- 63313-0000 Rumble strip (by the LNFT)
- 63314-0000 Rumble strip (by the MILE)

Updates

- January 2011
  - New Detail drawing
- August 2014
  - Updated based on Safety Team recommendations, FP-14, new border
- July 2017
  - Updated based on new research and guidance available