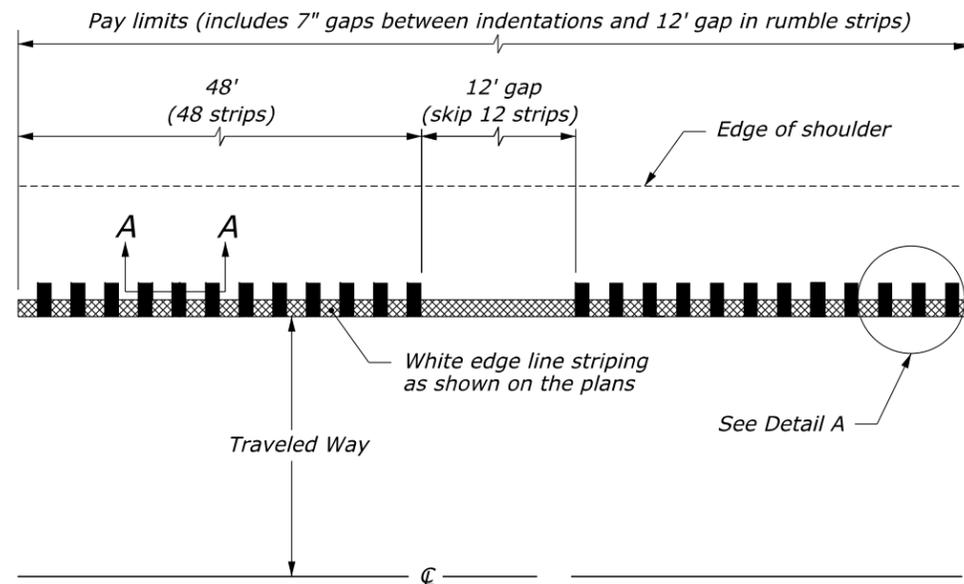
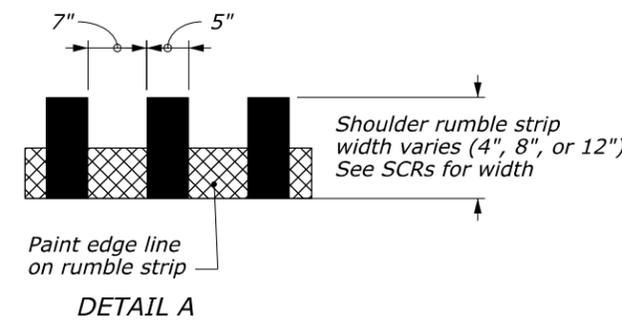


REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
•	•	•	•	•

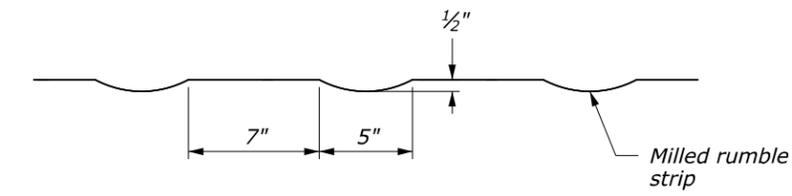


SHOULDER RUMBLE STRIP

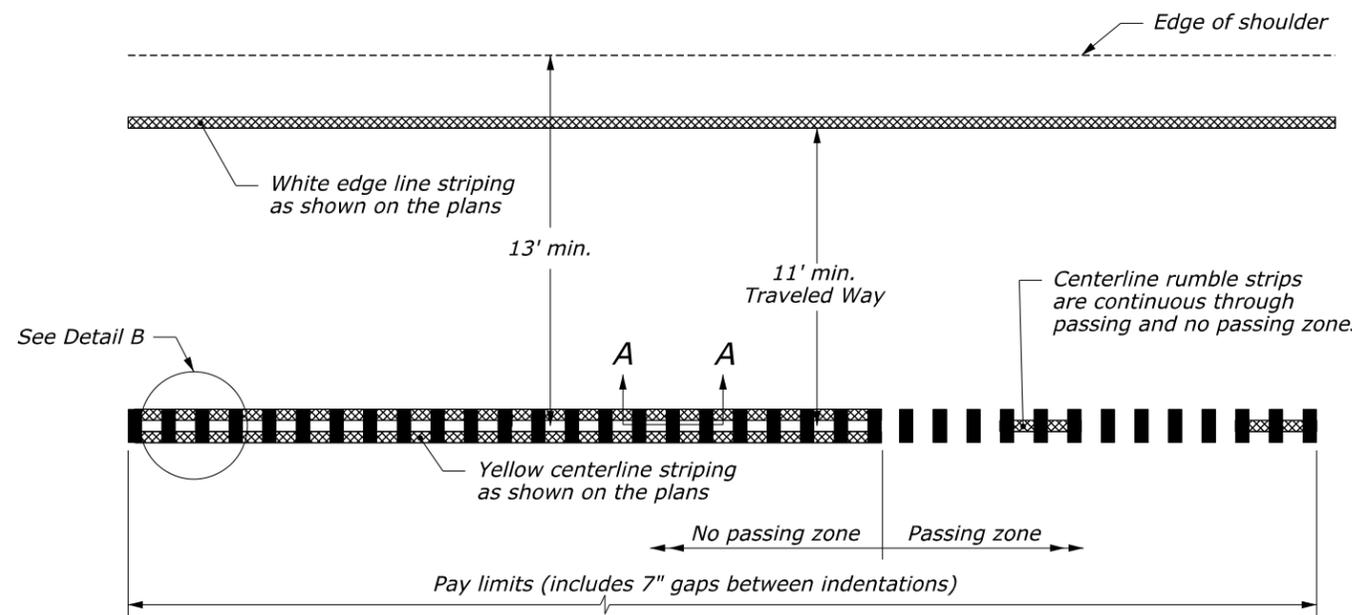


NOTE:

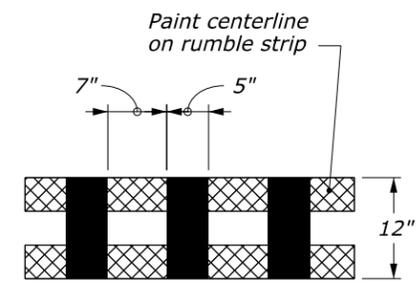
1. Do not install shoulder rumble strips at guardrail locations where the shoulder is less than 6 feet wide.
2. Discontinue shoulder rumble strips at turn lanes, auxiliary lanes, residential approaches, and 250 feet prior to and after intersections and major driveways.
3. Discontinue centerline rumble strips at areas of turning traffic, such as intersections and major driveways.
4. Use this drawing for Types A, B, C, D, and E pavement markings.



SECTION A-A



CENTERLINE RUMBLE STRIP



DETAIL B

NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION CENTRAL FEDERAL LANDS HIGHWAY DIVISION	
U.S. CUSTOMARY DETAIL	
RUMBLE STRIPS	
DETAIL APPROVED FOR USE 01/2011	DETAIL
REVISED:	C633-50

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NOTES TO THE DESIGNER

Last Updated: January 2011

General Information

1. See the [CFLHD Supplement 8.7.1.4-1](#) for guidance on the use of rumble strips.
2. **Shoulder Rumble Strips**
 - Use in rural roads only (not developed areas with frequent access points, near campgrounds, near residential areas, etc.)
 - Travel lane width $\geq 11'$
 - When bicyclists use the shoulder, do not install when shoulder is less than 4' wide.
 - When guardrail/barrier is present, do not install when shoulder is less than 6' wide.
 - Consider installing shoulder 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 rumble strip
 - 12" - high speed, high volume highways with truck traffic
 - 8" - standard application for roads with a posted speed less than 50 mph and moderate volumes
 - 4" - low volume roads or roads with limited pavement width
3. **Centerline Rumble Strips**
 - Use in spot locations or continuously through a project.
 - Use in both passing and no-passing zones.
 - Travel lane width $\geq 11'$, Paved shoulder width $\geq 2'$
 - Generally use in mountainous terrain with frequent curvature

Applicable SCRs

1. Section 633:
http://www.cflhd.gov/resources/design/constructspecs/scr/documents/scr_03/S633-03E.doc

Typical Pay Item Used

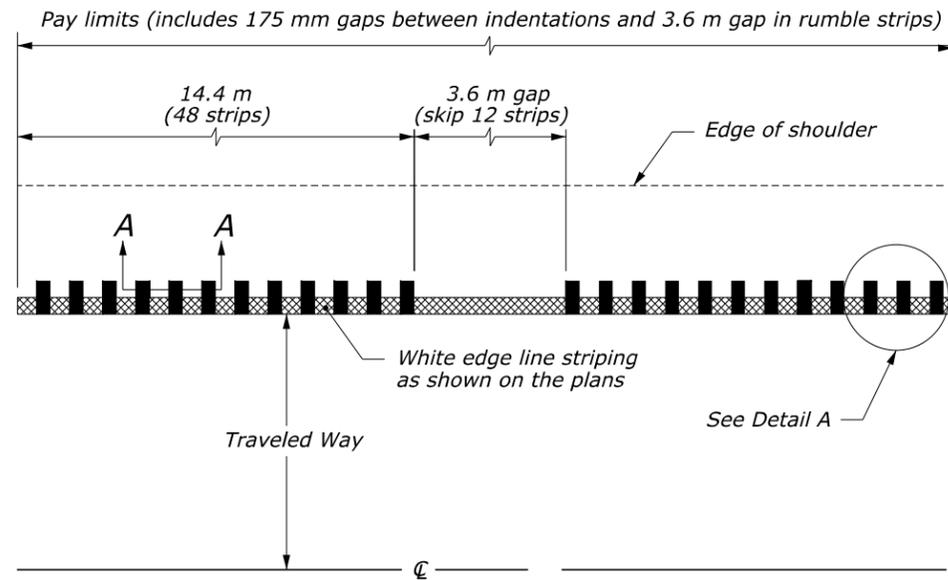
- 63313-0000 Rumble strip or 63313-1000 Rumble strip, shoulder (LNFT)
- 63314-0000 Rumble strip or 63314-1000 Rumble strip, shoulder (STA)

Updates

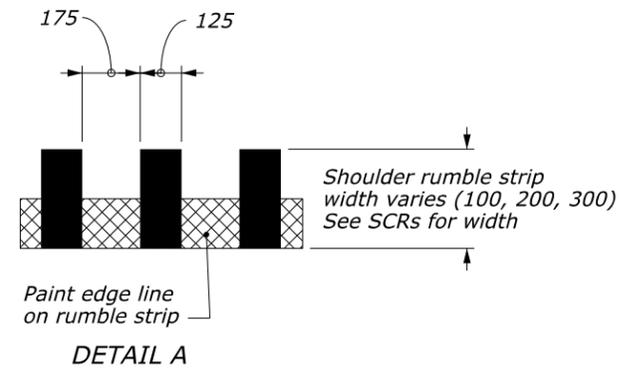
January 2011

- New Detail drawing

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
•	•	•	•	•

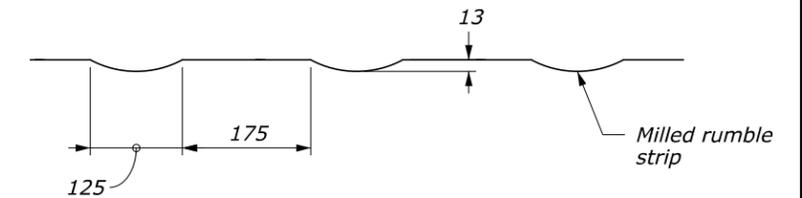


SHOULDER RUMBLE STRIP

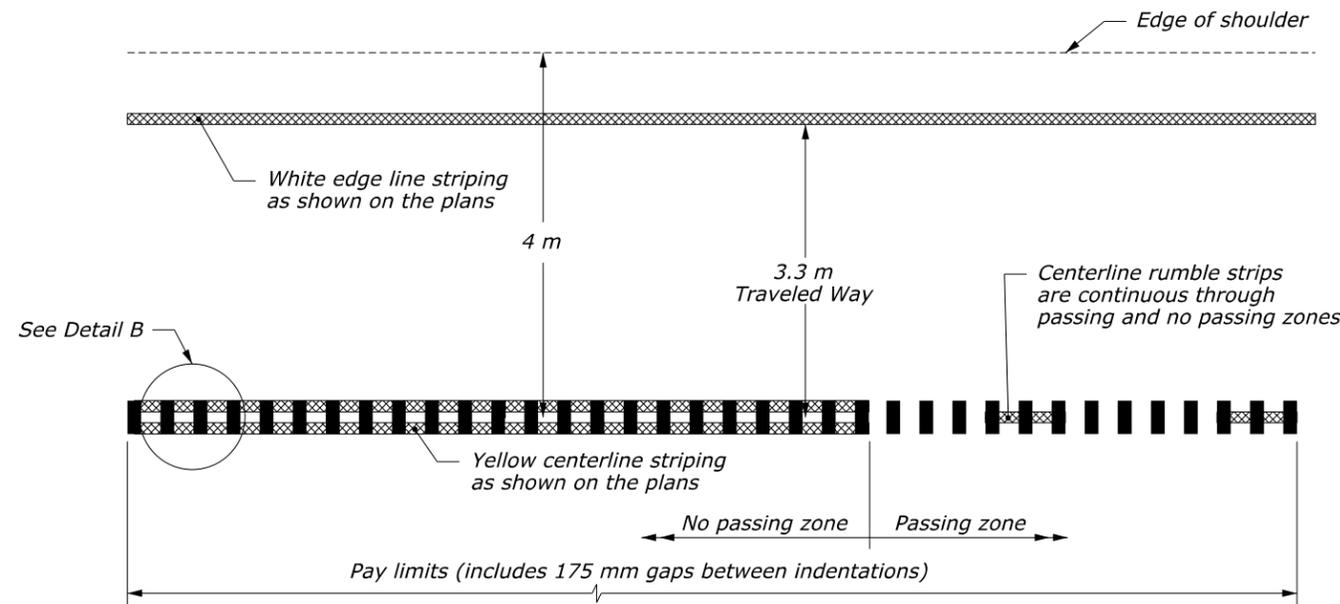


NOTE:

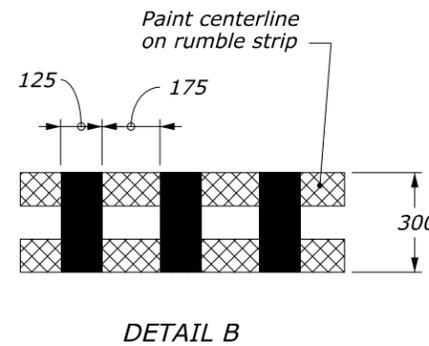
1. Do not install shoulder rumble strips at guardrail locations the shoulder is less than 1.8 m wide.
2. Discontinue shoulder rumble strips at turn lanes, auxiliary residential approaches, and 75 m prior to and after intersections and major driveways.
3. Discontinue centerline rumble strips at areas of turning traffic, such as intersections and major driveways.
4. Use this drawing for Types A, B, C, D, and E pavement markings.



SECTION A-A



CENTERLINE RUMBLE STRIP



NO SCALE

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U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION CENTRAL FEDERAL LANDS HIGHWAY DIVISION	
METRIC DETAIL	
RUMBLE STRIPS	
DETAIL APPROVED FOR USE 01/2011	DETAIL
REVISED:	CM633-50

NOTES TO THE DESIGNER

Last Updated: January 2011

General Information

1. See the [CFLHD Supplement 8.7.1.4-1](#) for guidance on the use of rumble strips.
2. **Shoulder Rumble Strips**
 - Use in rural roads only (not developed areas with frequent access points, near campgrounds, near residential areas, etc.)
 - Travel lane width ≥ 3.3 m
 - When bicyclists use the shoulder, do not install when shoulder is less than 1.2 m wide.
 - When guardrail/barrier is present, do not install when shoulder is less than 1.8 m wide.
 - Consider installing shoulder 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 rumble strip
 - 300 mm - high speed, high volume highways with truck traffic
 - 200 mm - standard application for roads with a posted speed less than 80 km/h (50 mph) and moderate volumes
 - 100 mm - low volume roads or roads with limited pavement width
3. **Centerline Rumble Strips**
 - Use in spot locations or continuously through a project.
 - Use in both passing and no-passing zones.
 - Travel lane width ≥ 3.3 m, Paved shoulder width ≥ 0.6 m
 - Generally use in mountainous terrain with frequent curvature

Applicable SCRs

1. Section 633:
http://www.cflhd.gov/resources/design/constructspecs/scr/documents/scr_03/S633-03M.doc

Typical Pay Item Used

- 63313-0000 Rumble strip or 63313-1000 Rumble strip, shoulder (by the m)
- 63314-0000 Rumble strip or 63314-1000 Rumble strip, shoulder (by the km)

Updates

January 2011

- New Detail drawing