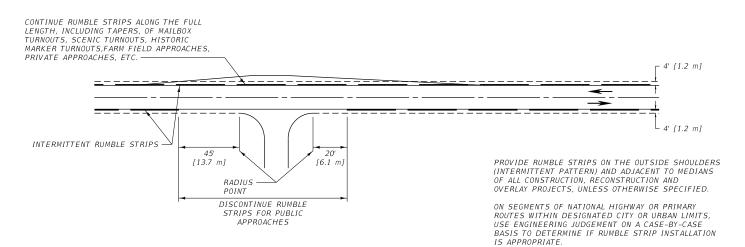


DEPTH	RADIUS	SPAN

	DEPTH (mm)	RADIUS (mm)	SPAN (mm)
ASPHALT	13 TO 19	300 MAX.	175 TO 200

ASPHALT 1/2" TO 3/4" 12" MAX. 6 7/8" TO 8 3/8"

INTERMITTENT RUMBLE STRIP SPACING



TYPICAL APPLICATION

RUMBLE STRIP DETAIL

NOTE:

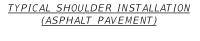
- ① DO NOT INSTALL RUMBLE STRIPS OVER CONCRETE BRIDGE DECKS OR WHERE OBSTACLES, SUCH AS CONCRETE BARRIER RAIL, PREVENT PROPER PLACEMENT.
- ② INSTALLATION ON SHOULDERS LESS THAN 4-FT [1.2 m] WILL BE DECIDED ON A CASE-BY-CASE BASIS.

UNITS SHOWN IN BRACKETS [] ARE

DETAILED DRAWING REFERENCE STANDARD SPEC. SECTION 411 DWG. NO. 411-03

> MODIFIED SHOULDER RUMBLE STRIPS

EFFECTIVE: JANUARY 2018 MONTANA DEPARTMENT OF TRANSPORTATION



___ DIRECTION OF TRAVEL

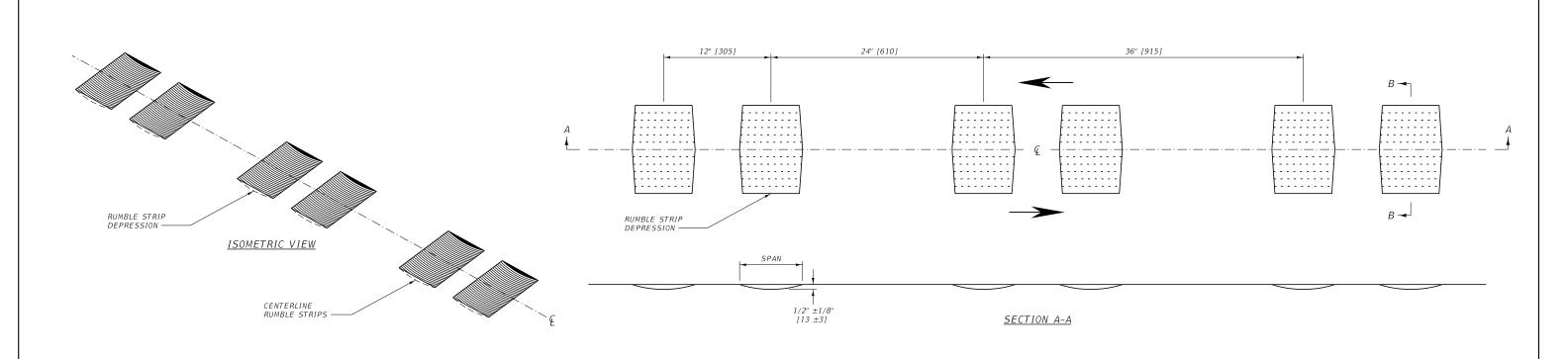
LANE EDGE STRIPE

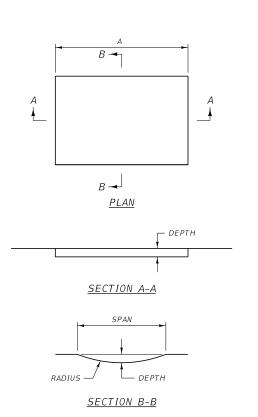
12" [300]

COLD MILLED RUMBLE STRIP

TRAVEL LANE

METRIC AND ARE IN MILLIMETERS (mm) UNLESS OTHER UNITS ARE SHOWN.





DEPTH SPAN

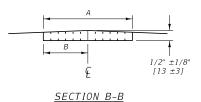
6" T0 7"

	DEPTH (mm)	SPAN (mm)
ASPHALT	13 ±3	150 TO 175

1/2" ±1/8"

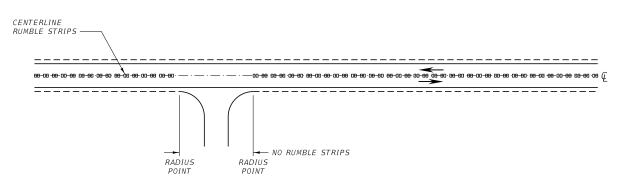
ASPHALT

RUMBLE STRIP DETAIL



ENGLISH DIMENSIONS			
TYPE		INCHES	
		Α	В
1	NO SHOULDER	6	3
2	≤ 2.0' SHOULDER	8	4
3	> 2.0' SHOULDER	12	6

METRIC DIMENSIONS			
TYPE		m	m
ITPE		Α	В
1	NO SHOULDER	150	75
2	≤ 0.6 m SHOULDER	200	100
3	> 0.6 m SHOULDER	300	150



PUBLIC APPROACH ②

NOTES:

- ① ROUTES WITHIN DESIGNATED CITY OR URBAN LIMITS, USE ENGINEERING JUDGEMENT ON A CASE-BY-CASE BASIS TO DETERMINE IF CENTERLINE RUMBLE STRIP INSTALLATION IS APPROPRIATE.
- BREAK CENTERLINE RUMBLE STRIPS FOR PUBLIC APPROACHES ONLY.
- ③ CONSIDER REMILLING EXISTING CENTERLINE RUMBLE STRIPS PRIOR TO A SECOND SEAL AND COVER APPLICATION.
- ② DO NOT INSTALL CENTERLINE RUMBLE STRIPS ON CONCRETE BRIDGE DECKS.

DETAILED DRAWING
REFERENCE DWG. NO.
STANDARD SPEC. 411-05

CENTERLINE RUMBLE STRIPS

UNITS SHOWN IN BRACKETS [] ARE METRIC AND ARE IN MILLIMETERS (mm) UNLESS OTHER UNITS ARE SHOWN. -REVISED-JANUARY 2018 APRIL 2019 EFFECTIVE: SEPTEMBER 2014

MONTANA DEPARTMENT
OF TRANSPORTATION