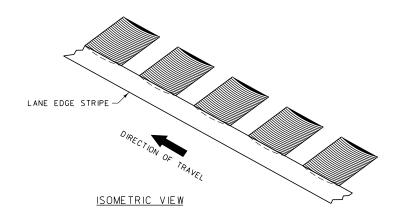
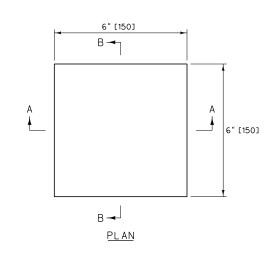
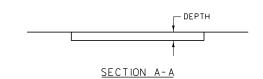
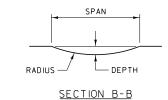


INTERMITTENT RUMBLE STRIP SPACING



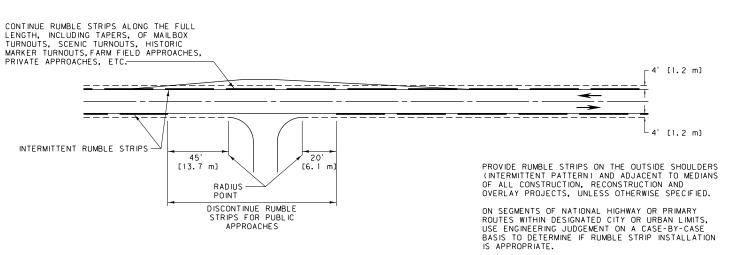




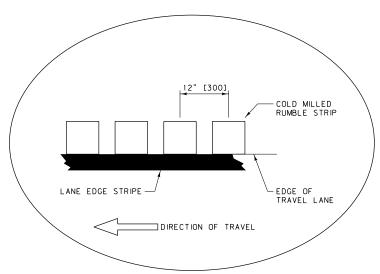


	DEPTH	RADIUS	SPAN
ASPHAL T	1/2" TO 3/4"	12" MAX.	6 7/8" TO 8 3/8"

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



TYPICAL APPLICATION



TYPICAL SHOULDER INSTALLATION (ASPHALT PAVEMENT)

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.

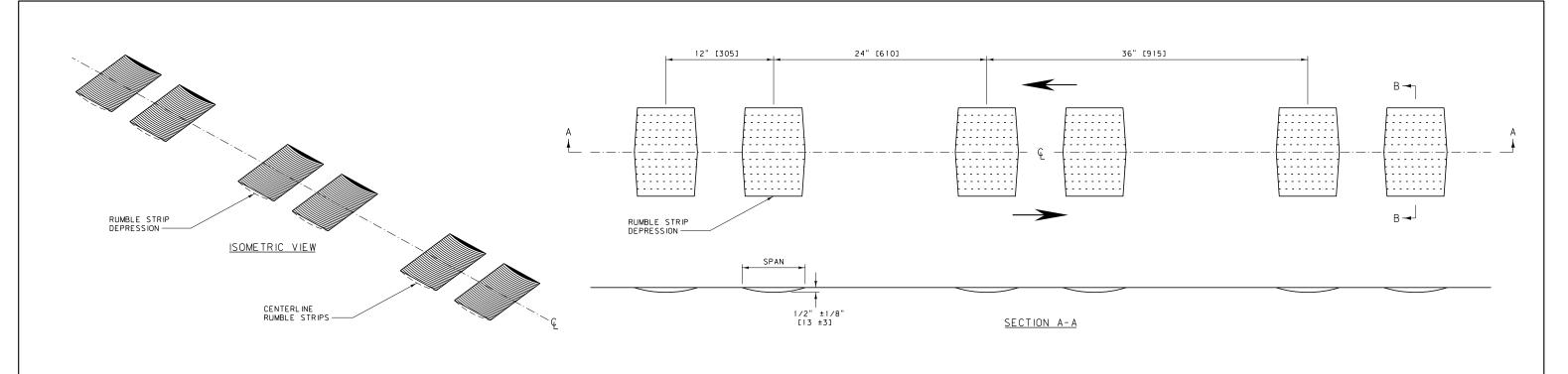
UNITS SHOWN IN BRACKETS [] ARE METRIC AND ARE IN MILLIMETERS (mm) UNLESS OTHER UNITS ARE SHOWN.

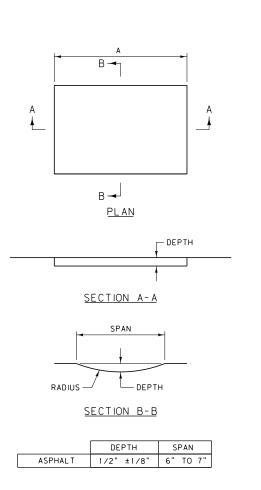
DETAILED	DRAWING	
REFERENCE	DWG.	NC
STANDARD SPEC.	411-	03
SECTION 411		

MODIFIED SHOULDER RUMBLE STRIPS

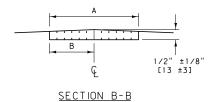
EFFECTIVE: JANUARY 2018





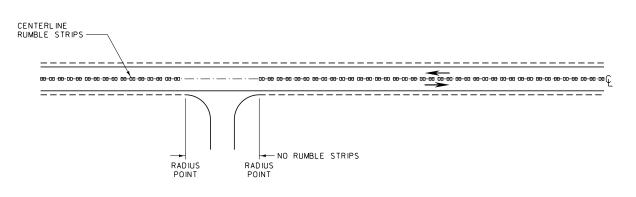






ENGLISH DIMENSIONS			
TYPE		INC	HES
		Α	В
1	NO SHOULDER	6	3
2	≤ 2.0' SHOULDER	8	4
3	> 2.0' SHOULDER	12	6

METRIC DIMENSIONS			
TYPE		m	m
1175		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 CENERLINE RUMBLE STRIP INSTALLATION IS APPROPRIATE.
- ② BREAK CENTERLINE RUMBLE STRIPS FOR PUBLIC APPROACHES ONLY.
- ③ CONSIDER REMILLING EXISTING CENTERLINE RUMBLE STRIPS PRIOR TO A SECOND SEAL AND COVER APPLICATION.
- $\textcircled{4}\ \mathtt{DO}\ \mathtt{NOT}\ \mathtt{INSTALL}\ \mathtt{CENTERL\,INE}\ \mathtt{RUMBLE}\ \mathtt{STRIPS}\ \mathtt{ON}\ \mathtt{CONCRETE}\ \mathtt{BRIDGE}\ \mathtt{DECKS.}$

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

CENTERLINE RUMBLE STRIPS

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

--REVISED-- EFFECTIVE: SEPTEMBER 2014

JANUARY 2018

MONTANA DEPARTMENT
OF TRANSPORTATION

RUMBLE STRIP DETAIL