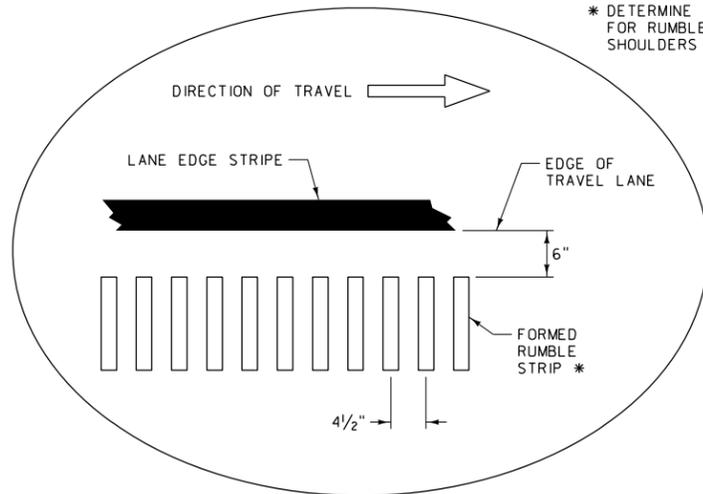
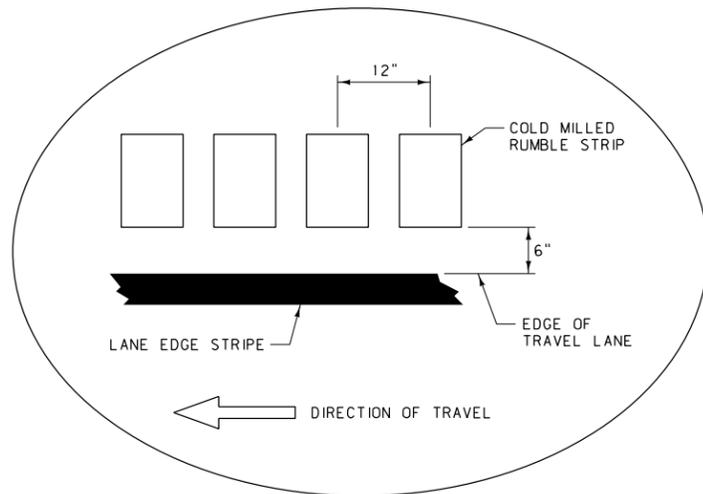


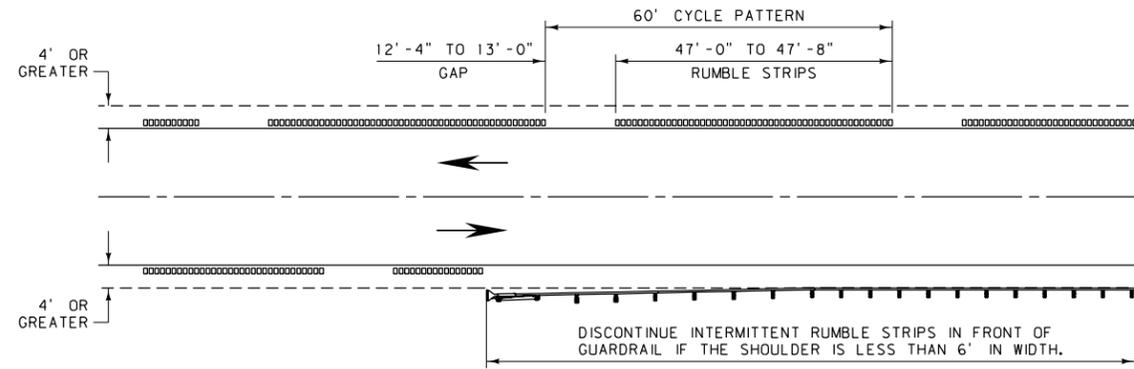
* DETERMINE THE METHOD OF INSTALLATION FOR RUMBLE STRIPS ON EXISTING CONCRETE SHOULDERS ON A CASE-BY-CASE BASIS.



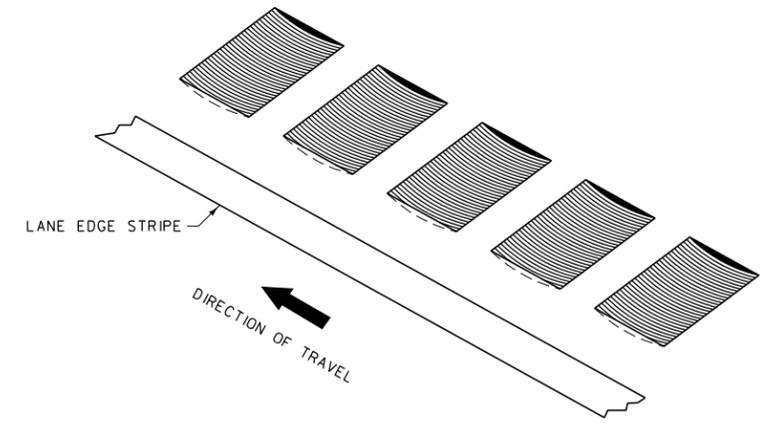
TYPICAL SHOULDER INSTALLATION (CONCRETE PAVEMENT)



TYPICAL SHOULDER INSTALLATION (ASPHALT PAVEMENT)

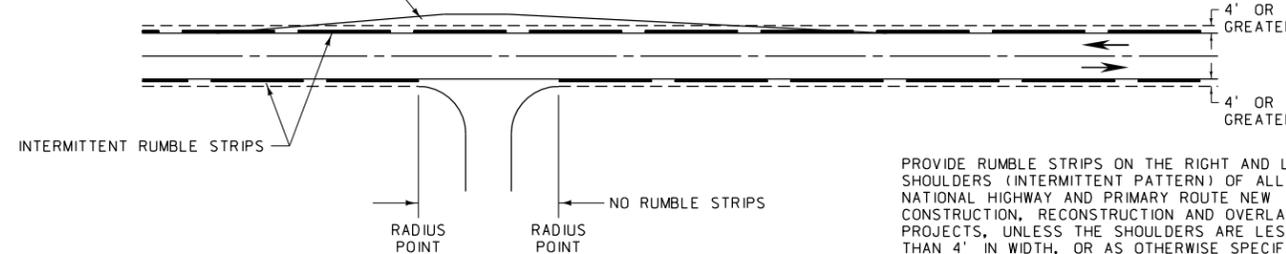


INTERMITTENT RUMBLE STRIP SPACING



ISOMETRIC VIEW

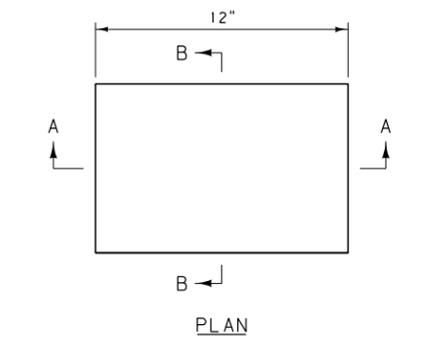
CONTINUE RUMBLE STRIPS ALONG THE FULL LENGTH, INCLUDING TAPERS, OF MAILBOX TURNOUTS, SCENIC TURNOUTS, HISTORIC MARKER TURNOUTS, ETC.



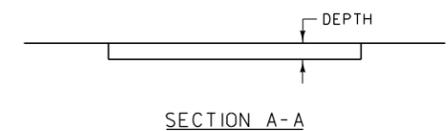
NATIONAL HIGHWAY ROUTE OR PRIMARY ROUTE APPLICATION

PROVIDE RUMBLE STRIPS ON THE RIGHT AND LEFT SHOULDERS (INTERMITTENT PATTERN) OF ALL NATIONAL HIGHWAY AND PRIMARY ROUTE NEW CONSTRUCTION, RECONSTRUCTION AND OVERLAY PROJECTS, UNLESS THE SHOULDERS ARE LESS THAN 4' IN WIDTH, OR AS OTHERWISE SPECIFIED.

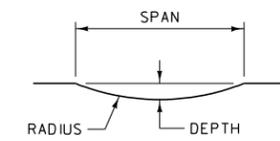
ON SEGMENTS OF NATIONAL HIGHWAY OR PRIMARY ROUTES WITHIN DESIGNATED CITY OR URBAN LIMITS, USE ENGINEERING JUDGEMENT ON A CASE-BY-CASE BASIS TO DETERMINE IF RUMBLE STRIP INSTALLATION IS APPROPRIATE.



PLAN



SECTION A-A



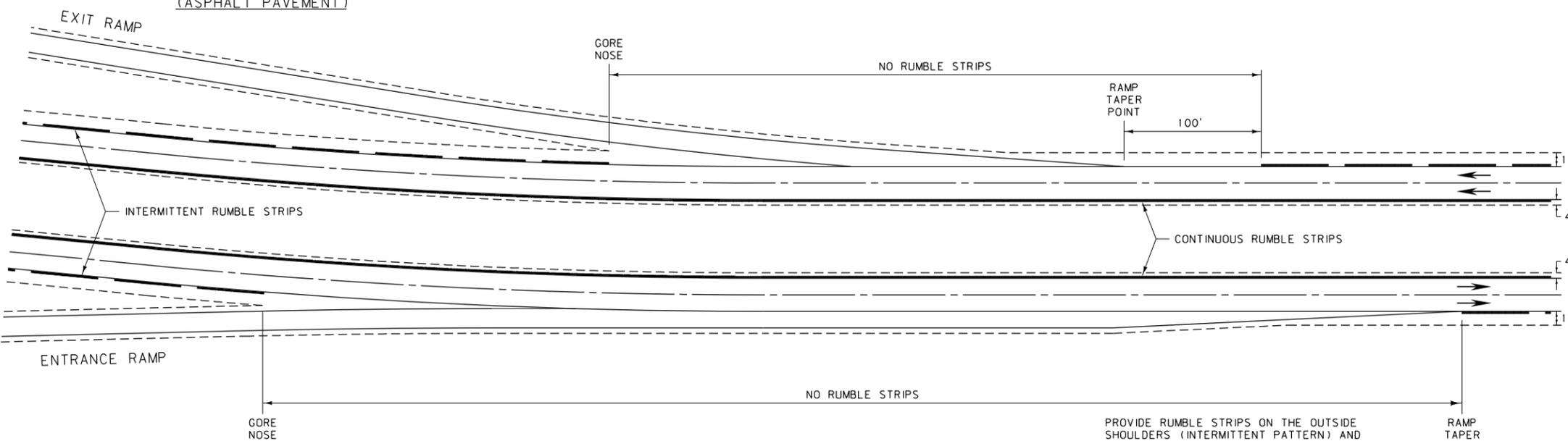
SECTION B-B

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

RUMBLE STRIP DETAIL

NOTE:

DO NOT INSTALL RUMBLE STRIPS OVER CONCRETE BRIDGE DECKS OR WHERE OBSTACLES, SUCH AS CONCRETE BARRIER RAIL, PREVENT PROPER PLACEMENT.



INTERSTATE APPLICATION

PROVIDE RUMBLE STRIPS ON THE OUTSIDE SHOULDERS (INTERMITTENT PATTERN) AND MEDIAN SHOULDERS (CONTINUOUS PATTERN) OF ALL INTERSTATE NEW CONSTRUCTION, RECONSTRUCTION AND OVERLAY PROJECTS.

DISCONTINUE RUMBLE STRIPS IN FRONT OF EXIT AND ENTRANCE RAMP.

DETAILED DRAWING
 REFERENCE DWG. NO.
 STANDARD SPEC. 401-02
 SECTION 401
 SHOULDERS
 RUMBLE STRIPS
 EFFECTIVE: FEBRUARY 2005
 MDT serving you with pride MONTANA DEPARTMENT OF TRANSPORTATION