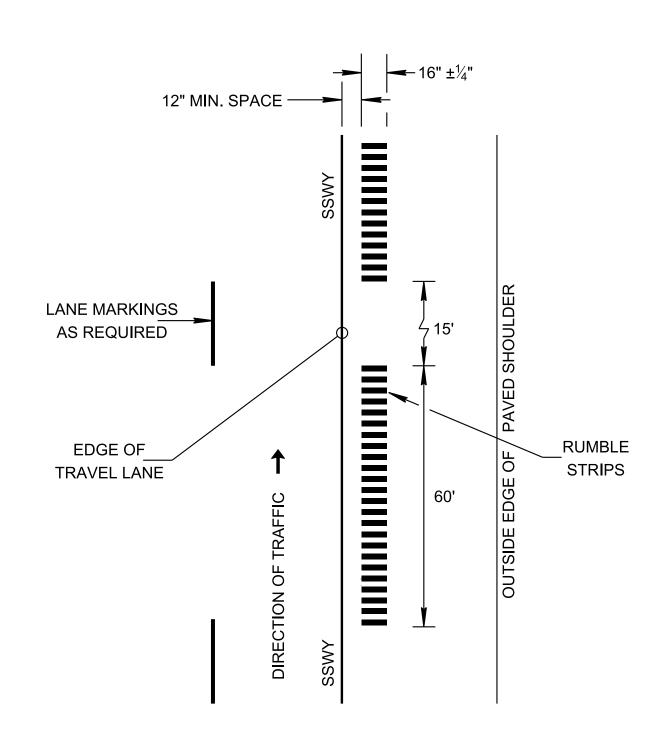
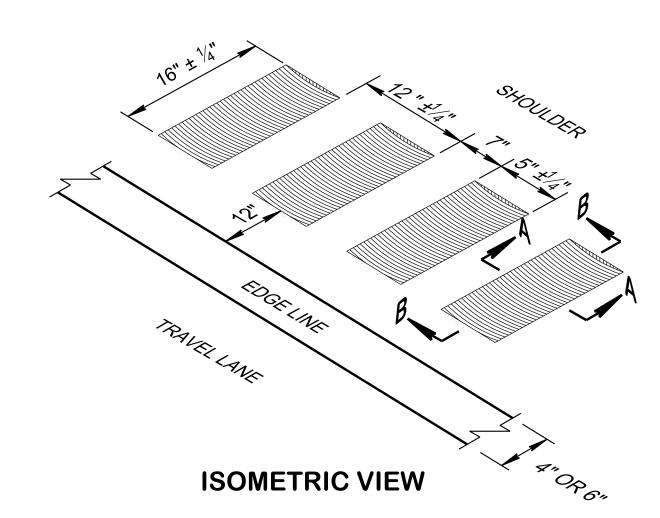
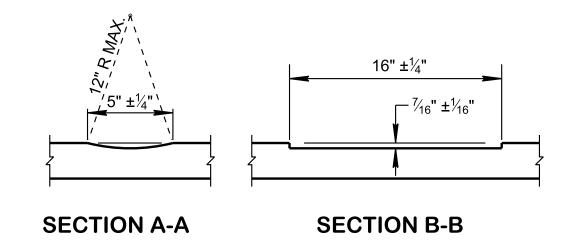
TYPICAL RUMBLE STRIP INSTALLATION DETAILS FOR NON-ACCESS CONTROLLED RURAL ROUTES



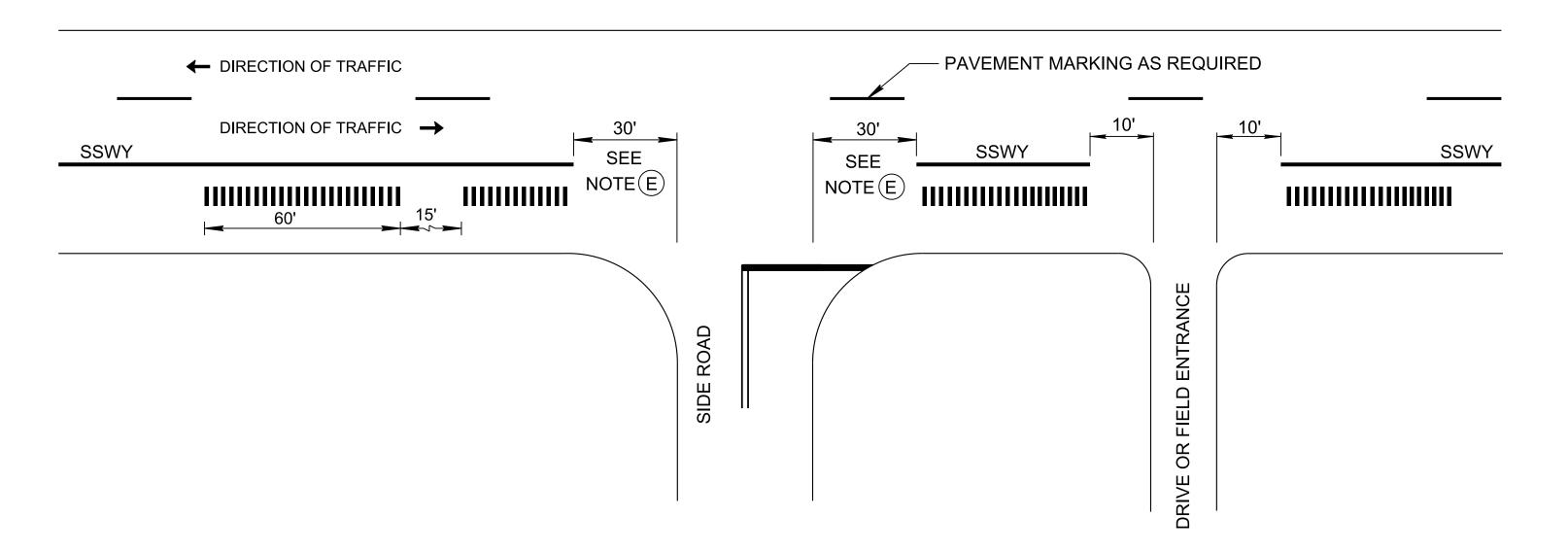
AVAILABLE PAVED SHOULDER WIDTH 8' OR GREATER

IF BIKE LANE IS PROPOSED SEE STD. DWG. MM-PM-2 FOR PAVEMENT MARKING AND SIGNING





TYPICAL RUMBLE STRIP INSTALLATION DETAILS



SIDE ROAD AND DRIVEWAY **RUMBLE STRIP INSTALLATION DETAILS**

IF BIKE LANE IS PROPOSED SEE STD. DWG. MM-PM-2 FOR PAVEMENT MARKING AND SIGNING

RUMBLE STRIP GENERAL NOTES

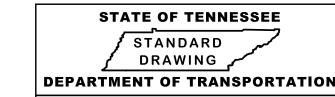
- WHEN RUMBLE STRIPS ARE USED ON NON-ACCESS CONTROLLED FACILITIES, THEY SHOULD BE DISCONTINUED IN ADVANCE OF DRIVEWAYS, INTERSECTIONS, AND MEDIAN OPENINGS.
- MILLED-IN RUMBLE STRIP WITH 5" ±1/4" GROOVES, 7/16" ±1/16" DEEP, ON 12" ±1/4" SPACING.
- A 15' LONG GAP BETWEEN 60' LONG SECTIONS OF RUMBLE STRIPS IS REQUIRED TO ACCOMMODATE BICYCLES.
- ON NON-ACCESS CONTROLLED ROUTES WITH A MEDIAN AND/OR INSIDE SHOULDERS, CONTINUOUS RUMBLE STRIPS SHOULD BE PLACED IN ACCORDANCE WITH STD. DWG. T-M-15. RUMBLE STRIPS, ALL COST OF INSTALLATION SHALL BE INCLUDED IN ITEM NO. 411-12.01 SCORING SHOULDERS (CONTINUOUS) (16IN WIDTH) PER L.M.
- BREAKS SHALL BE MADE AT SIDE ROADS AND MEDIAN OPENINGS. BREAKS SHALL BEGIN 10' PRIOR TO OPENING.
- WHEN THE SIDE ROAD RADIUS IS GREATER THAN 30', RUMBLE STRIP APPLICATION SHOULD BE DISCONTINUED 50' IN ADVANCE OF THE INTERSECTION.
- RUMBLE STRIPS SHOULD ONLY BE PLACED ON PAVED SHOULDERS THAT ARE GREATER THAN OR EQUAL TO 8' WIDE. USE RUMBLE STRIPE ON ROADWAYS WITH PAVED SHOULDER WIDTH LESS THAN 8'.
- RUMBLE STRIP, ALL COST OF INSTALLATION SHALL BE INCLUDED IN ITEM NO. 411-12.02 SCORING SHOULDERS (NON-CONTINUOUS) (16IN WIDTH) PER L.M.
- RUMBLES SHOULD NOT TYPICALLY BE INSTALLED AT DESIGN SPEED < 45 MPH.

AND ADDED GENERAL NOTE(H) AND (I) REV. 1-30-15: REVISED RUMBLE STRIP

REV. 11-1-11: ADDED BIKE SYMBOL/ ARROW SHARED LANE MARKINGS DETAILS

- SPACING.
- REV. 08-02-18: REVISED GENERAL NOTES ADJUSTED SHEET NAME. REDREW SHEET
- REV. 06-28-19: REVISED STD. DWG. REFERENCE AND REDREW SHEET.

MINOR REVISION -- FHWA APPROVAL NOT REQUIRED



ASPHALT SHOULDER RUMBLE STRIP INSTALLATION DETAILS FOR NON-ACCESS CONTROLLED RURAL ROUTES

12-01-09

T-M-15A