GENERAL NOTES

1. Rumble strips shall be omitted at turn and auxiliary lanes, signal approaches, residences, 250 ft. before road intersections, and other interruptions as directed by the Engineer.

2. Rumble strips may be installed by grinding, rolling, or polishing on concrete pavement, and by embedding only on HMA pavement. Rumble strip width shall be 12 in. for grind-in and 10 in. for formed or rolled.

3. Minimize the distance between rumble strip and edge line on concrete pavements with 14 ft. wide slabs.

4. Begin rumble strips on the outside edge of the travel lane edge line.

5. Do not install rumble strips on shoulders less than 8 ft. wide when guardrail is placed along the edge of the shoulder.

6. Apply the 60 ft. gap pattern when rumble strips ( grind-in) are installed in concrete pavement.

INTERMITTENT RUMBLE STRIP
TWO-LANE ROADWAY (HMA)

CONTINUOUS RUMBLE STRIP
TWO-LANE ROADWAY (CONCRETE)

INTERMITTENT RUMBLE STRIP
FOUR-LANE DIVIDED ROADWAY (HMA)

CONTINUOUS RUMBLE STRIP
FOUR-LANE DIVIDED ROADWAY (CONCRETE)
NOTES
1. RUMBLE STRIP WIDTH SHALL BE 12 IN. FOR GRIND-IN, FORGED, OR ROLLED.
2. CENTERLINE RUMBLE STRIPS MAY BE CONTINUOUS THROUGH PASSING ZONES AS DETERMINED BY THE ENGINEER AND SHOWN ON THE PLANS.

TYPICAL SECTIONS A-A AND B-B
FOR GRIND-IN RUMBLE STRIP
ON EXISTING ASPHALT OR CONCRETE PAVEMENT

TYPICAL SECTION B-B
FOR FORMED OR ROLLED ON CONCRETE PAVEMENTS ONLY

DETAILS FOR CENTER LINE RUMBLE STRIPS
NOTES

1. GROOVED RUMBLE STRIP SHOW OR CLUSTER SPACING SHALL BE MODIFIED TO AVOID LOCATING A GROOVE ON A CONCRETE PAVEMENT TRANSVERSE JOINT.

2. PERMANENT TRANSVERSE LANE RUMBLE STRIPS SHALL BE THE GROOVE DESIGN AND MAY BE CUT IN EXISTING OR NEW HAAS ON CONCRETE PAVEMENT. THE GROOVES MAY BE CUT BY SAWING, GRINDING, OR OTHER METHOD AS APPROPRIATE.

3. TEMPORARY RUMBLE STRIPS SHOULD BE RAISED AT THE DESIGN. THEY MAY BE GROOVED IF LOCATED IN A PAVEMENT THAT WILL BE REMOVED OR COVERED WITH A PAVEMENT COURSE BEFORE COMPLETION OF THE PROJECT. TYPICAL USES OF TEMPORARY RUMBLE STRIPS ARE FOR LANE CLOSURES OR ALIGNMENT CHANGES IN CONSTRUCTION ZONES.


TYPICAL RUMBLE STRIP CLUSTER

SECTION A-A (GROOVED)

RUMBLE STRIP GROOVES IN HAAS OR CONCRETE SURFACE
12 STRIPS PER CLUSTER TYPICAL

SECTION A-A (RAISED)

PERMANENT GROOVED RUMBLE STRIPS

SECTION B-B

TEMPORARY RAISED RUMBLE STRIPS