

1 Make the following Section a part of the Standard Specifications:
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3 **“SECTION 615 – MILLED RUMBLE STRIPS**
4

5 **615.01 Description.** This section describes constructing centerline, shoulder,
6 and edgeline Milled Rumble Strips (MRS) in HMA pavement.
7

8 **615.02 Materials.** None.
9

10 **615.03 Construction.**
11

12 **(A) Submittal.** Method of constructing the milled rumble strip shall
13 be submitted to the Engineer for acceptance. Meeting shall be
14 scheduled 14 days before start of construction work. Discuss sequence
15 of work plans, and proposal for dust control.
16

17 **(B) Equipment.** Milling equipment shall be equipped with a rotary-
18 type cutting head with cutting tips arranged in a pattern as to provide a
19 relatively smooth cut, approximately 1/16 inches between peaks and
20 valleys.
21

22 The cutting head(s) shall be on a suspension independent from the
23 power unit to allow the head(s) to self-align with surface slopes and
24 irregularities.
25

26 The machine shall have a guidance system that provides
27 consistent alignment of each cut in relation to the roadway and provide
28 uniformity and consistency throughout the project.
29

30 **(C) Longitudinal Spacing.** The Milled Rumble Strips (MRS) shall
31 be placed perpendicular to the roadway with longitudinal spacing as
32 follow:
33

34 Centerline MRS: 20 inch on-center
35

36 The 20 inch on-center longitudinal spacing for Centerline MRS is
37 designed to accommodate various centerline pavement striping and
38 raised pavement marker configurations. It will allow placement of raised
39 pavement markers between the concave depressions.
40

41 **(D) Milling Operations.** Clean pavement surface before constructing
42 the rumble strips. Mill the concave depressions to the dimensions shown
43 in the plans.
44

Align the concave depressions as shown in the plans. Alignment of milled rumble strips shall not deviate from the plans more than ± 2 inches.

After the concave depressions are milled into the pavement surface, use a power broom or sweeper/vacuum to collect the waste material resulting from the milling operations. Seal the entire surface of milled rumble strips with emulsified asphalt. Refer to Section 407 – Tack Coat for material specification and application procedure.

Contractor shall dispose the waste material as directed by the Engineer at no increase in contract price or contract time.

615.04 Measurement. The Engineer will be paid on a contract lump sum basis. Measurement for payment will not apply.

615.05 Payment. The Engineer will pay for the accepted milled rumble strip on a contract lump sum basis. Payment will be full compensation for the work prescribed in this section and the contract documents.

The Engineer will pay for the following pay item when included in the proposal schedule:

Pay Item	Pay Unit
16-Inch Milled Rumble Strip, Centerline	Lump Sum"

END OF SECTION 615