

1 Make the following Section a part of the Standard Specifications:
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3

4 **“SECTION 615 – MILLED RUMBLE STRIP**
5

6 **615.01 Description.** This section describes constructing Centerline,
7 Shoulder, and Edgeline Milled Rumble Strips (MRS) in HMA pavement.
8

9 **615.02 Materials.** None.
10

11 **615.03 Construction.**
12

13 **(A) Submittal.** Method of constructing the milled rumble strip shall
14 be submitted to the Engineer for acceptance. Meeting shall be scheduled
15 14 days before start of construction work. Discuss sequence of work
16 plans, and proposal for dust control.
17

18 **(B) Equipment.** Milling equipment shall be equipped with a rotary-
19 type cutting head with cutting tips arranged in a pattern as to provide a
20 relatively smooth cut, approximately 1/16 inches between peaks and
21 valleys.
22

23 The cutting head(s) shall be on a suspension independent from the
24 power unit to allow the head(s) to self-align with surface slopes and
25 irregularities.
26

27 The machine shall have a guidance system that provides consistent
28 alignment of each cut in relation to the roadway and provide uniformity
29 and consistency throughout the project.
30

31 **(C) Longitudinal Spacing.** The Milled Rumble Strip (MRS) shall be
32 placed perpendicular to the roadway with longitudinal spacing as 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 raised
38 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

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

48
49 After the concave depressions are milled into the pavement
50 surface, use a power broom or sweeper/vacuum to collect the waste
51 material resulting from the milling operations.
52

53 Contractor shall dispose the waste material as directed by the
54 Engineer at no increase in contract price or contract time.
55

56 **615.04 Measurement.** The Engineer will measure milled rumble strip per
57 linear foot in accordance with the contract documents.
58

59 **615.05 Payment.** The Engineer will pay for the accepted pay item listed
60 below at contract price per linear foot, as shown in the proposal schedule.
61 Payment will be full compensation for the work prescribed in this section and the
62 contract documents.
63

64 The Engineer will pay for the following pay item when included in the
65 proposal schedule:
66

Pay Item	Pay Unit
16-Inch Milled Rumble Strip, Centerline	Linear foot
12-Inch Milled Rumble Strip, Edgeline	Linear foot"

72
73
74
75
76
77 **END OF SECTION 615**
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