



SECTION 626

RUMBLE STRIPS

SECTION 626.10 BITUMINOUS RUMBLE STRIPS

626.11 Description. This work shall consist of constructing rumble strips in the bituminous shoulders as shown on the plans or as directed by the engineer.

626.12 Equipment.

626.12.1 Rollers used to form the rumble strips shall meet the requirements of [Sec 403.12](#). The rollers shall be modified with an adjustable auxiliary steel wheel roller or may be self-propelled steel wheel rollers designed solely for the purpose of forming a rumble strip.

626.12.2 The roller wheel shall have approximate half sections of solid steel bar or steel pipe welded to the face of the wheel with the rounded surface of the bar or pipe away from the wheel. The steel bar shall have a nominal 1 1/2-inch (40 mm) diameter. The steel pipe shall have a nominal 1 1/2-inch (40 mm) inside diameter decreased in cross section to provide a nominal 3/4-inch (20 mm) projection of the section when welded to the wheel. Each section of bar or pipe shall be 3 feet (900 mm) in length with a 6-inch (150 mm) longitudinal beveled transition on each end. The longitudinal centerline of each section shall be aligned with the center axis of the wheel to maintain equal pressure along the length of the section when in use. Sections shall be spaced at nominal 8-inch (200 mm) centers around the perimeter of the wheel.

626.12.3 The rumble strip roller wheel shall be equipped with a guidance device to enable the operator to maintain proper linear and offset alignment.

626.12.4 The rumble strip roller wheel shall have a system for moistening the wheel contact surface.

626.12.5 Sections shall be replaced if deformed or excessively worn.

626.13 Construction Requirements.

626.13.1 Rumble strip depressions shall be formed in the hot bituminous surface of the shoulder at 8-inch (200 mm) intervals following the last pass of the final roller. Each depression shall be a nominal 1 1/2-inch (40 mm) wide indentation, 3/4 inch (20 mm) deep and 3 feet (900 mm) in length, excepting the two 6-inch (150 mm) depth transition sections.

626.13.2 Rumble strip depressions shall be formed in one pass of the roller. The bituminous temperature shall be such that depressions can be formed to the specified length and depth without unacceptable displacement or tearing of the bituminous mix.

626.14 Method of Measurement. Measurement will be made parallel to the centerline for the length of rumble strip constructed on each shoulder to the nearest 10 linear feet (1.0 m).

626.15 Basis of Payment . The accepted quantity of rumble strips will be paid at the contract unit price per 100 feet (5.0 m) and will be full compensation for all labor, equipment, material and incidental work necessary to construct the rumble strips.

SECTION 626.20 PORTLAND CEMENT CONCRETE RUMBLE STRIPS

626.21 Description . This work shall consist of constructing rumble strips in the concrete shoulders as shown on the plans or as directed by the engineer.

626.22 Construction Requirements . The corrugations shall be formed in the plastic concrete at the optimum time so as to produce a neat and uniform finish. Forms and methods used to form the corrugations shall be approved by the engineer.

626.23 Method of Measurement . Rumble strips will be measured by the square yard (square meter). Final measurement will not be made except for authorized changes during construction or where appreciable errors are found in the contract quantity. The revision or correction will be added to or deducted from the contract quantity.

626.24 Basis of Payment . The accepted quantity of rumble strips will be paid at the contract unit price per square yard (square meter) and will be full compensation for all labor, equipment, material and incidental work necessary to form the rumble strips.