ITEM #0407006a—CENTERLINE RUMBLE STRIPS – SINUSOIDAL MILL PATTERN

Description:

Work under this item shall consist of installing sinusoidal centerline rumble strips on asphalt State highway routes shown on the plans or where directed by the Engineer.

Construction Methods:

The Contractor shall pre-mark the beginning and ending points of the sections, prior to the installation of the rumble strips. The Engineer will review and approve the locations.

The Contractor shall arrange for a technical representative from the company that produces the milling machine to be used on the Project, who will be required to be on-Site from the beginning of the operation until such time as the Engineer is satisfied, to ensure results that meet the requirements of the plans and specifications.

Rumble strips shall not be installed where there is a break in the centerline, on bridge decks, in passing zones, at drainage structures, through loop detector sawcut locations, in two way left-turn lanes or in other areas identified by the Engineer.

The contractor shall install a double yellow centerline using temporary pavement markings on the rumble strips if a double yellow centerline using epoxy paint cannot be installed within 24 hours after the milling of the rumble strips.

Milling Equipment:

The cutting head(s) shall have the cutting tips arranged in such a pattern as to provide a relatively smooth cut (approximately 1/16 in between peaks and valleys) in one pass. The equipment shall include suitable provisions for the application of water to prevent dust.

Finished Cut:

The rumble strips shall have finished dimensions of 12 in (+/- 1/2 in) wide measured perpendicular to the direction of travel and shall follow the installation instructions as detailed in the Sinusoidal Centerline Rumble Strips Details, Section B-B. The peak to peak distance of the Sinusoidal Rumble Strips shall be 14 in with a maximum depth of 10/16 in. The rumble strips shall be placed in relation to the roadway according to the patterns shown in the plans or on the Sinusoidal Centerline Rumble Strip Details. Alignment of the edge of the cut will be checked and verified by the Engineer.

The cutting tool shall be equipped with guides to provide consistent alignment of each cut in relation to the roadway.

The Contractor shall contain and collect waste material resulting from the operation in a manner acceptable to the Engineer. This waste material shall be disposed of in accordance with Subarticle 2.02.03-10(a).

The work area shall be returned to a debris-free state prior to re-opening to traffic.

The Contractor shall provide all traffic control in accordance with the Maintenance and Protection of Traffic special provision included in the Contract.

Installation of Pavement Joint:

When rumble strips are being installed in a project that is also installing bituminous concrete pavement, the top vertical notch of the pavement joint shall be located at least 6 in from the edge of the rumble strip where feasible.

Method of Measurement:

This work will be measured for payment by the actual number of linear feet of centerline where the sinusoidal centerline rumble strips are placed and accepted. This distance shall be measured longitudinally along the edge of pavement with deductions for bridge decks, passing zones, drainage structures, loop detector sawcut locations, and other sections where the rumble strips were not installed.

Basis of Payment:

This work will be paid for at the Contract unit price per linear foot for "Sinusoidal Centerline Rumble Strips." The price shall include furnishing all equipment, tools, labor, a technical representative and work incidental thereto, and also collection and disposal of waste material resulting from the operation.

 Pay Item Pay Unit

Sinusoidal Centerline Rumble Strips l.f.

