

MIDLAND COUNTY ROAD COMMISSION

BID FORM

Sealed Proposal will be received at the office of the Board of Road Commissioners, County of Midland, located at 2334 N. Meridian Road, Sanford, Michigan, 48657, until:

DATE: Wednesday, April 15th, 2015, at 2:00 p.m.

Item No. 18 - RAISED THERMOPLASTIC RUMBLE STRIPS

Thermoplastic Rumble Strip \$ _____/FT.

DESCRIPTION

Furnish and install thermoplastic rumble strips in advance of a stop sign or other locations on bituminous roadways as directed by the Managing/Director and/or the Superintendent for the Midland County Road Commission. Perform all work in accordance with Section 811 of the Michigan Department of Transportation Standard Specifications for Construction as well as items contained within this document. All work shall be completed by Sept. 15th.

Materials: Select the thermoplastic from the MDOT Qualified Products List. Use glass beads as recommended by the thermoplastic manufacturer.

Construction:

1. Clean the bituminous surface, making sure the pavement is dry and above 40 degrees Fahrenheit.
2. Apply the thermoplastic as shown on diagram within this document, entitled "Raised Thermoplastic Rumble Strips for Use on State Trunk lines".
3. Apply glass beads as recommended by the manufacturer of the thermoplastic.

Measurement and Payment. The length of each 6 inch by 3/8 inch strip will be summed to determine the total length for payment. (The bid price submitted shall include all materials, labor, equipment, and mobilization necessary to complete this item of work.)

COMPANY BIDDING _____

CONTACT PERSON _____

ADDRESS _____

PHONE/FAX _____

AUTHORIZED SIGNATURE

TITLE

INDICATE ON ENVELOPE: Company Name, Item Number, Bid Item, Time and Date

MIDLAND COUNTY ROAD COMMISSION

SPECIAL PROVISION
FOR
RAISED THERMOPLASTIC RUMBLE STRIPS

OPR:JGM

C&T:APPR:JAR:DBP:08-31-11
FHWA:APPR:8-31-11

a. Description. This work consists of furnishing and installing raised thermoplastic rumble strips on hot mix asphalt (HMA) pavement in advance of a stop sign, or at other locations as directed by the Engineer.

b. Materials. Select the thermoplastic from the Qualified Products List (811.03D4). Use glass beads as recommended by the thermoplastic manufacturer.

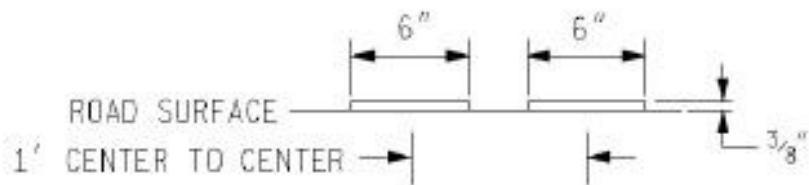
c. Construction. Prepare the pavement surface and apply the rumble strips in accordance with section 811 of the Standard Specifications for Construction and the following:

1. Clean the HMA surface, making sure the pavement is dry and above 40 degrees F.
2. Apply the thermoplastic as shown on the Raised Thermoplastic Rumble Strips for Use on State Trunklines detail included in this special provision.
3. Apply glass beads as recommended by the manufacturer of the thermoplastic.

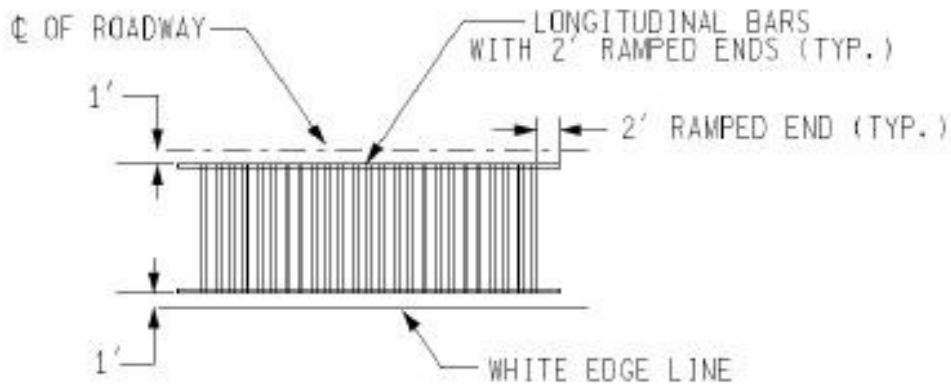
d. Measurement and Payment. The completed work, as described, will be measured and paid for at the contract unit price using the following pay item:

| Pay Item | Pay Unit |
|--|-----------------|
| Pavt Mrkg, Thermopl, Rumble Strip..... | Foot |

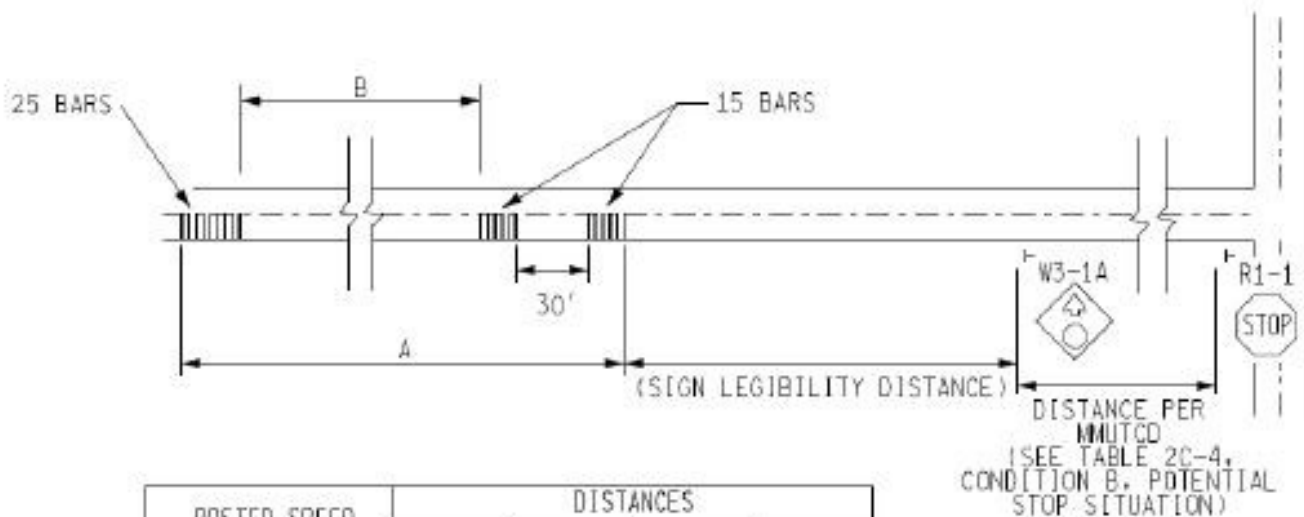
The Engineer will measure each length of 6 inch by 3/8 inch thermoplastic material to determine the total length of **Pavt Mrkg, Thermopl, Rumble Strip** for payment.



PROFILE VIEW



PLAN VIEW



| POSTED SPEED | DISTANCES | |
|--------------|-----------|--------|
| | A | B |
| 45 MPH | 200 FT | 115 FT |
| 50 MPH | 230 FT | 145 FT |
| 55 MPH | 245 FT | 160 FT |

LOCATION

NOTE: DISTANCES GIVEN ARE MINIMUM VALUES

RAISED THERMOPLASTIC RUMBLE STRIPS FOR USE ON STATE TRUNKLINE