

SAGINAW COUNTY ROAD COMMISSION
3020 Sheridan Avenue
Saginaw, Michigan 48601

NOTICE TO BIDDERS

Sealed proposals will be received by the Board of County Road Commissioners of Saginaw County, Michigan, at their office at 3020 Sheridan Avenue, Saginaw, Michigan, 48601, until 10:00 a.m., Monday, March 15th, 2010, at which time and place bids will be publicly opened and read for the purpose of furnishing one (1) years supply of the following items:

Proposal #28 – Pavement Marking, Cold Applied

All proposals must be returned in sealed envelopes, plainly **marked as to bid items** and bear name of bidder. **ONE BID, PER ITEM, PER ENVELOPE.**

The Commission reserves the right to reject any or all proposals or any part of same; to waive irregularities and/or informalities and to accept any proposal considered to be in the best interest of the County of Saginaw.

BOARD OF COUNTY ROAD COMMISSIONERS OF SAGINAW COUNTY, MICHIGAN

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BOARD OF COUNTY ROAD COMMISSIONERS
SAGINAW COUNTY, MICHIGAN
3020 SHERIDAN AVE.
SAGINAW MI 48605

PROPOSAL #28
For
2010 Season (May 1st, 2010 to April 30th, 2011)
For
PAVEMENT MARKING, COLD APPLIED

Notice is hereby given that sealed bids for pavement marking, cold applied, will be received and publicly opened at **10:00 a.m., Monday March 15th, 2010** by the Board of County Road Commissioners, 3020 Sheridan, Saginaw, Michigan, furnishing materials as called for in the proposal.

PAVEMENT MARKING, WATER BORNE and REGULAR DRY SOLVENT

Bids must be sealed and delivered to the Board of County Road Commissioners, Saginaw County, Michigan. (For questions: Call Scott A. Hare, Director of Maintenance at 989-399-3754.

ITEM No. 1 - ± 1,400,000 Ft. Yellow Line as directed

LABOR & EQUIPMENT (Price per Foot)	\$
* PAINT & BEADS (Price per Foot)	

ITEM No. 2 - ±3,200,000 Ft. White Line as directed

LABOR & EQUIPMENT (Price per Foot)	\$
* PAINT & BEADS (Price per Foot)	

SPECIAL PROVISION
For
WATER BORNE AND REGULAR-DRY PAVEMENT MARKING APPLICATIONS

Description of Work

This work shall consist of furnishing and applying retro reflectorized Water Borne pavement markings as directed by the Superintendent in accordance with the Michigan Manual of Uniform Traffic Control Devices and as specified herein.

Coordination

The Contractor will be given a list of roads to be painted at the "Notice of Award."

The Contractor will meet with the Superintendent or designated representative at least once a week to discuss additions or deletions to the painting program.

The Contractor will inform the Road Commission of the roads to be painted during the coming week so the shoulder maintenance work on these roads will be suspended during the time the Contractor is painting. The Contractor will be responsible for the removal of all debris along the edge of the pavement to be painted if this notice is not given. No payment will be made for roads painted in non-compliance of these restrictions.

Materials

Materials shall comply with all standards specified in the MDOT "Standard Specifications for Construction," 2003 Edition. Each paint shall be plainly marked, both on the head and side, with a durable, weather-resistant marking, showing the name and address of the manufacturer or vendor, description of the material, purchase order number, batch number, date of packaging, and volume and weight of contents. Glass Beads - Glass beads shall meet the requirements of Subsection 920.01.B of the 2003 Standard Specifications.

Material Safety - The Contractor shall provide the Superintendent with Material Safety Data Sheets for all materials and supplies used for this contract. The Contractor shall properly dispose of unused material and containers in accordance with The Federal Resource Conservation Recovery Act (RCRA) of 1976 and the Michigan Hazardous Waste Management Act (ACT 64).

The Saginaw County Road Commission will provide buildings or space to store the Contractor's materials and/or equipment. The Saginaw County Road Commission will not provide labor or equipment for the loading or unloading of materials and/or equipment of the Contractor. The Saginaw County Road Commission will not be responsible for any damage or spillage to the Contractor's materials and/or equipment.

Equipment

The pavement marking equipment shall be self-propelled when used to apply longitudinal lines of regular-dry paint. Where the configuration or location of a pavement marking is such that the use of a self-propelled pavement marker is unsuitable, Water Borne paint and glass beads may be applied by other methods and equipment approved by the Superintendent.

The self-propelled pavement marking machine shall be equipped with a pressure regulated air jet capable of removing all debris from the pavement in advance of the applicator gun. The air jet shall be equipped with a moisture separator.

All pressurized air lines shall have water and oil traps installed and operating at all times. In general, the equipment shall be that necessary to accomplish the marking in a safe and efficient manner.

The self-propelled pavement marker used to apply centerlines shall be capable of applying two yellow, four-inch minimum width centerlines in one pass of the equipment. A single gun truck may be used on two or four-lane roads to apply the remaining edge line. The equipment shall have sufficient material capacity to enable sustained pavement-marking operations and shall be equipped so as to assure uniform application of the paint and beads. The equipment shall have pressurized bead dispensers.

The Contractor shall use an accurate dashing mechanism, capable of being easily adjusted, to retrace existing lane or centerline markings. The pavement-marking machine shall be equipped with a method of measuring the flow rate of the material to the applied line. A flow meter, graduated tanks, or other method approved by the Superintendent is acceptable for measuring flow rate. The Contractor's equipment shall include a linear footage meter to measure the length of the applied line.

The Superintendent shall check the calibration of any metering device prior to the start of work. The accuracy and reliability of the equipment being used shall be satisfactory to the Superintendent. When the equipment is unsatisfactory, other methods determined to be acceptable by the Superintendent shall be used. No work shall progress until this determination has been made.

All vehicles used in marking operations in traffic shall be equipped with rotating or oscillating amber flashers and a Type B Lighted Arrow conforming to the requirements for lighted arrows contained in the 2003 Standard Specifications for Construction, both capable of being visible from either the front or rear of the vehicle. The Contractor shall provide sufficient time for the Superintendent to inspect the lighted arrow and any corrections shall be made before continuing.

Construction Methods

Prior to the application of pavement marking, the pavement surfaces shall be clean, dry, and free of foreign materials. The Contractor shall be responsible for removal of foreign material, which can be removed by air blasting. The Contractor shall also be responsible for removing occasional debris or dead animals from the line track.

Water Borne and Regular-dry paint shall be applied at a rate such that a minimum of 15 mils thickness will be achieved. Application rates will be determined by demonstration in the field. The

application rates shown are approximate rates, which can be achieved with acceptable equipment and methods.

Pavement markings shall be applied uniformly to the surface and so that they adhere adequately, following manufacturer’s recommendations. All materials shall be thoroughly mixed at all times during application. Thinning of liquid materials will not be permitted. Longitudinal lines applied on concrete surfaces shall be offset approximately two inches from construction joints.

Glass beads for retro-reflectorization shall be applied uniformly at the rate shown in the following table covering the surface of the marking material.

PAVEMENT MARKING MATERIAL APPLICATION RATES PER MILE

Line Type	Water Borne and Regular-Dry Paint (Gal.) (Approximate Rate)	Glass Beads (lbs.) (Approved Rate)
Broken		
4"	4	24
Solid		
4"	16	96
4" Double		
2 Solid	32	192
1 Solid, 1 Broken	20	120

Pavement markings shall consist of lines of minimum four-inch widths. The markings shall be white or yellow, and solid or broken as directed by the Superintendent. A solid line of the color and width specified shall have no gaps or spaces of unapplied material. An edge line shall be a solid line. A double line of the color and width specified shall be applied as either two solid lines or one solid line and one broken line. Both lines shall have equal width.

A broken line of the color and width specified shall be a minimum of 12½ feet long with a 37½ foot gap between each applied line on all unmarked pavement. A white, four-inch minimum and 4½ inch maximum wide, broken line shall be applied between lanes of pavement carrying traffic in the same direction unless a solid line is specified. All edge line shall be applied to achieve a maximum 10 foot traffic lane unless the road is not wide enough to accommodate. Any edge line sprayed creating a traffic lane wider than 10 feet will not be considered for payment.

All pavement-marking materials shall be loaded on the pavement-marking machine in a manner that will not interfere with or delay traffic.

If markings are applied when the roadway is open to traffic, the following requirements shall apply:

On two-lane, two-way roadways, the Contractor will not be permitted to apply the centerline(s) and edge line in one pass. The centerline(s) on two-lane, two-way roadways shall be applied with both the marking machine and back-up vehicles straddling the center of the roadway or

occupying the travel lane adjacent to the marking being applied as directed by the Superintendent.

The protection of the wet line shall be the responsibility of the Contractor. Suitable devices such as traffic cones shall be placed at 100-foot intervals along the paint or as directed by the Superintendent.

Uncured pavement markings damaged by traffic that were not applied and/or protected in accordance with this special provision shall be retraced at the Contractor's expense as directed by the Superintendent.

Improperly located markings shall be removed at the Contractor's expense, in accordance with Subsection 812.03.H of the 2003 Standard Specifications and shall be reapplied in the correct locations at no cost to the Saginaw County Road Commission.

Applied markings shall be sharp and well defined and shall provide uniform application of beads. The markings shall be free of uneven edges, over spray, or other readily visible defects, which, in the opinion of the Superintendent, detract from the appearance or function of the pavement markings. Appropriate care shall be taken to prevent motorists from being sprayed. Shields or other devices may be used for this purpose.

Pavement marking lines shall be straight or have uniform curvature and shall conform to the tangents, curves, and transitions as directed by the Superintendent. The lateral deviation of the finished lines shall not exceed 1/2 inch from the proposed location alignment, as directed by the Superintendent.

Any deviation of the pavement marking lines greater than that specified herein or shown on the pavement marking plans shall be sufficient cause for requiring the Contractor to remove and correct such pavement markings at no additional expense to the Saginaw County Road Commission.

Pavement markings damaged by traffic, that were not applied and/or protected in accordance to this special provision shall be traced at the Contractor's expense as directed by the Superintendent. Tracked lines shall be removed at the Contractor's expense when ordered by the Superintendent.

Application Limitations

New Bituminous Pavement - No pavement markings shall be placed with less than a 14-day cure time on the new bituminous wearing surface.

Temperature - This marking material shall be applied when the surface temperature of the pavement is 41° F or higher.

Measurement and Payment

The completed work as measured for WATER BORNE AND REGULAR-DRY PAVEMENT MARKING APPLICATIONS will be paid for at the contract unit prices for the contract items (pay items) listed on pages 1 and 2 of the bid form.

Payment for accepted work completed shall be made at the contract unit prices. Payment shall be full compensation for all materials, labor, traffic control, and equipment necessary for placement of the pavement marking material.