

## **INSTRUCTIONS/PROVISIONS FOR BIDDER**

### **PAVEMENT MARKING ON COUNTY ROADS**

**BID SUBMITTAL DEADLINE:** The Bid Submittal Deadline is **10:30am on Thursday, April 19, 2012**. Bids must be submitted in sealed envelopes and should be properly identified with the bid name and name of bidder. Telephone, telegraphic, facsimile, electronic, and late bids will not be accepted or considered. It is the Bidders' responsibility to see that their bids have sufficient time to be received by the Calhoun County Road Commission (CCRC) office before the Bid Submittal Deadline.

The Bid Opening will be held at **10:30am on Thursday, April 19, 2012** at the Calhoun County Road Commission, 13300 15 Mile Road, Marshall, Michigan.

CCRC's Contract Administrator is Hershel Stacy. He can be contacted at 269/781-9841, Monday through Friday between the hours of 7am and 3pm.

**SPECIAL PROVISION:** This shall be a two (2) year contract with the option to extend for two (2) years with mutual agreement between CCRC and the Contractor. This bid may include work on state trunklines.

**INFORMED BIDDERS:** Before submitting bids, Bidders must fully inform themselves of the conditions, requirements and specifications of the work or materials to be furnished. Failure to do so will be at Bidders' own risk and they cannot secure relief on the plea of error.

**LATE BIDS:** Bids not received by the Bid Submittal Deadline are late. Late bids will remain unopened.

**RIGHT TO REJECT:** The Board reserves the right to reject any or all proposals or to waive any irregularities in bidding and to accept the proposal deemed to be in the best interest and to the advantage of the Calhoun County Road Commission.

**CANCELLATION OF CONTRACT:** The Calhoun County Road Commission may cancel this contract WITHOUT CAUSE at any time by giving thirty (30) days written notice to the supplier/contractor. CCRC may cancel this contract WITH CAUSE at any time by giving ten (10) days written notice to the supplier/contractor. Cancellation for cause shall be at the discretion of CCRC and shall be, but is not limited to, failure to supply the materials, equipment or service specified within the time allowed or within the terms, conditions or provisions of this contract. The successful Bidder may not cancel the contract without prior written consent of the Calhoun County Road Commission.

If the contract with the bid holder is cancelled for any reason, CCRC reserves the right to award the bid to the next lowest bidder, provided they are interested and their bid prices remain the same as in their original bid.

**FORMATION OF CONTRACT:** Bidder's signed bid and CCRC's written acceptance shall constitute a binding contract.

**HOLD HARMLESS:** Successful Bidder agrees to indemnify, defend, and hold harmless CCRC, its governing body, officers, employees, and insurance carriers, individually and collectively, from all losses, claims, suits, demands, expenses, subrogation, attorneys' fees, or actions of any kind in nature resulting from personal injury to any person (including bodily injury and death), or damage to any property, arising or alleged to have arisen out of Bidder's negligent acts, errors, omissions, for provision of the products specified under this contract. The amount and type of insurance coverage requirements set forth herein, or lack thereof, will in no way be construed as limiting the scope of indemnity in this paragraph.

**PROTECTION OF PUBLIC:** Adequate warning devices, barricades, guards, flagmen or other necessary precautions shall be taken by the contractor to give advised and reasonable protection, safety and warning to persons and vehicular traffic concerned in the area.

**REJECTION OF WORK:** Contractor agrees that CCRC has the right to make all final determinations as to whether the work has been satisfactorily completed.

**INSURANCE:** Proof of insurance shall be on file at the CCRC Office before any work can begin. Certificate must state that the certificate holder is named additional insured and that the certificate holder be named as follows: Calhoun County Road Commission, Board of County Road Commissioners, its officers, agents and employees, 13300 15 Mile Road, Marshall, Michigan 49068.

The successful bidder shall at all times during this agreement maintain in full force and effect the following types of insurance in at least the limits specified:

<u>Coverage</u>	<u>Limits of Liability</u>
Workers' Compensation	Statutory
Liability	\$300,000 each occurrence
Bodily Injury	\$1,000,000 aggregate
Property Damage	\$200,000 each occurrence \$1,000,000 aggregate

## SPECIFICATIONS AND BIDDING INSTRUCTIONS FOR PAVEMENT MARKING ON COUNTY ROADS

### **SCOPE OF THE WORK:**

The intent of these provisions is to provide for the placing of pavement markings, as specified, all in accordance with the current Michigan Manual of Uniform Traffic Control Devices (MMUTCD). The Contractor shall furnish all labor, materials, equipment, tools, transportation, necessary supplies, and shall perform all operations to complete the work in accordance with the most recent Michigan Department of Transportation's Standard Specifications for Construction Manual.

### **MATERIALS:**

Waterborne paint shall be used according to Section 811 of the most recent Standard Specifications for Construction Manual.

The specific marking materials shall be selected from the MDOT's Qualified Products List (QPL). See current MDOT Materials Sampling Guide.

Each container shall be plainly marked, both on the head and the side, with a durable, weather-resistant marking, showing the name and address of the manufacturer, description of the material, batch number, date of manufacture, and volume and weight of contents.

Requirements for testing are waived and the material will be accepted for quality on the basis of a written certification from the supplier that the materials used meet specification requirements.

The Road Commission retains the right to test any product at its discretion. Samples will be provided by the Contractor when requested.

### **MATERIAL SAFETY:**

The Contractor shall provide the Signing Coordinator with Material Safety Data Sheets (MSDS) 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).

### **CONTAINERS OF PAVEMENT MARKING MATERIALS**

The contractor shall be totally responsible for removal and disposal of all containers of paint, solvents, glass beads and anything else that may be considered hazardous to the environment. The contractor shall have a maximum of 30 days after project completion to remove these containers.

## **CONTROL OF SPILLED MATERIALS**

Any spills of materials, whether accidental or intentional, during performance of work or loading and unloading of pavement marking supplies shall be cleaned up and removed by the contractor and disposed of by the contractor in accordance with any current laws so as not to pollute the environment.

**The contractor shall be responsible for unloading marking materials upon their delivery to the local storage site and shall notify the Calhoun County Road Commission 24 hours prior to delivery.**

## **GLASS BEADS:**

Glass beads used for retro-reflectivity shall follow the requirements of Section 6.29.02 of the Standard Specifications with the exception of bead coating. The beads used in waterborne pavement marking shall have a moisture resistant coating and an adhesion promoting silane coating.

## **LAYOUT FOR MARKING:**

**No Passing Zone layout for marking will be the responsibility of the successful bidder.** The layouts must be in accordance with the current Michigan Manual of Uniform Traffic Control Devices (MMUTCD). Complete logs are available and will be furnished to the successful bidder for completion of layout. Payment for the marking of "No Passing Zones" will be considered incidental to the contract.

In the event the limits of "No Passing Zones" must be established due to road changes, this work will be the responsibility of the Road Commission.

All other layout work necessary for the location and placing of centerline, lane lines, railroad crossing, school crossing and other specialized markings where required shall be the responsibility of the Contractor and will not be paid separately.

## **TOLERANCES:**

New markings and/or retraced markings shall be placed, with reasonable tolerance, in their proper locations. Incorrect or misplaced markings shall be obliterated and re-marked as instructed. Where existing skip lines are to be retraced, per this contract, they shall be retraced with a longitudinal tolerance of one foot.

## **WEATHER AND TIME LIMITATIONS:**

Markings shall not be placed when rain is threatening or when the surface to be painted is wet. No painting shall be done when the temperature is less than 50° F unless paint unit is equipped with heat exchanger and/or at the discretion of the Road Commission. The markings shall not be performed on Saturday, Sunday or legal holidays unless otherwise approved in writing by the Signing Coordinator.

## **CONSTRUCTION METHODS:**

Pavement markings shall be paint applied on bituminous or Portland cement concrete surfaces with traffic maintained during the application. Markings shall be four (4) inch minimum width lines either white or yellow as specified in the proposal or as directed. Markings shall be applied so that they adhere adequately to the surface. Glass beads for reflectorization shall be applied uniformly on all markings at a rate of eight (8) pounds of beads per gallon of paint applied. The protection of the wet paint shall be the responsibility of the Contractor.

**TRAFFIC CONES SHALL BE FURNISHED AND PLACED BY CONTRACTOR IN A PROFESSIONAL MANNER FOR THIS PURPOSE.** This work shall be incidental to contract.

The Contractor will furnish the Calhoun County Road Commission with a log showing dates that the roads are painted.

The Contractor shall use a dashing mechanism, capable of being easily adjusted, to retrace existing lane or centerline markings as shown on the plans or in the proposal or as directed. 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 approved method.

The Contractor's equipment shall include a linear footage meter to measure the length of each applied line.

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 removing all foreign materials which can be removed by air blasting. The Contractor shall also be responsible for removing occasional debris or dead animals from the line track.

Pavement marking shall be applied uniformly to the surface following manufacturer's recommendations. All materials shall be thoroughly mixed at all times during application. Thinning of liquid materials will not be permitted.

Four inch wide lines shall be between 4 and 4 ½ inches wide and 15 mills wet film. The markings shall be white or yellow and solid, broken or dotted as shown on the plans or in the proposal or as directed. 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 or one solid line and one broken line. Both lines shall have equal width.

Existing pavement markings are to be retraced with lines of equal length, allowing for a longitudinal tolerance of one foot and a transverse tolerance of one inch.

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

Applied markings shall be sharp and well defined and shall provide uniform application of beads. Bead guns shall be positioned so all beads are directed into the line material. The markings shall be free of uneven edges, over spray, or other readily visible defects which 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.

**MAINTAINING TRAFFIC**

The provisions of the most recent MDOT Standard Specifications for Highway Construction and current specifications of the MMUTCD are applicable in maintaining traffic during all phases of this contract. The contractor shall conduct their operations in such a manner that two-way traffic will be provided with minor delays throughout the entire length of the project. Vehicles will be equipped with warning devices adequate for the traffic volumes anticipated. An additional vehicle may be required on roads where traffic volumes or prevailing conditions indicate a need for additional safety precautions during marking operations. All work of maintaining traffic shall be considered incidental to the project.

Pavement marking lines shall be straight or of uniform curvature and shall conform with the tangents, curves and transitions as specified in the pavement marking plans and/or directed by the Signing Coordinator.

Waterborne paint and glass beads shall be applied uniformly at the rate shown in the following table. Application rates will be determined by dividing the quantity used by the length of line painted.

Pavement Marking Material Application Rates Per mile for Waterborne Paint and Glass Beads (8 lbs. of glass beads/gallon of marking material).

<u>Line Type</u>	<u>Paint (Gal.) Rate per Mile</u>	<u>Glass Beads (lbs.) Rate per Mile</u>
4" – Solid	16	128
4" – Broken	4	32
4" – Double	32	256
4" – 1 Solid, 1 Broken	20	160
4" – Dotted	32	256

**PAINTING THROUGH INTERSECTIONS:**

All types of pavement markings shall be painted through intersections (on through roads) when the intersection is at a curve.

**SPECIALIZED MARKINGS:**

Specialized markings shall consist of the white markings as named and referenced in the appropriate figure of the Michigan Manual of Uniform Traffic Control Devices.

### **MEASUREMENT AND PAYMENT:**

The completed work shall be measured in linear feet and paid for at the contract unit prices for the following contract items (pay items). The skips in dashed lines are not included in the measurements. The quantity (in feet) of skip line shall be determined by multiplying the road mileage by .25. The quantity (in feet) of "No Passing Zone" (one solid line and one skip line) shall be determined by multiplying the road mileage by 1.25. The quantity (in feet) of No Passing Zone (double yellow) shall be determined by multiplying the road mileage by 2. The quantity (in feet) of edge line shall be determined by multiplying the road mileage by 2.

### **ACCEPTING FINAL QUANTITIES:**

During application, the Road Commission shall make sufficient checks, as deemed necessary, to verify the estimated application rates of the materials and the dimensions of the markings.

The Road Commission may verify the final quantities for "No Passing Zones" from the Final Record of the survey, subject to visual checks for completion in accordance with contract provisions. Checks may be either by measurements or by vehicle odometer readings as considered necessary.

The Road Commission may accept final quantities for lines based on a visual check for completion in accordance with Contract provisions. Annual certifications of road mileage may be used in this check and spot checks may be made either by measurements or by vehicle odometer readings as considered necessary.

## Bid Form for Pavement Marking 2012

The pavement marking truck must be equipped with a foot measuring device capable of measuring each line applied, paint metering meters and bead weight monitoring scales.

The truck shall have monitors which monitor the rate of gallons and pounds of beads being applied to the road surface during the painting operation.

The contractor shall provide a printed copy with the following information:

1. County Name or number
2. Route
3. Time started and time finished route
4. Speed painted.
5. Feet painted by each gun used
  - A. Gun #1 – white \_\_\_\_\_
  - B. Gun #2 – yellow \_\_\_\_\_
6. Total feet painted \_\_\_\_\_  
Yellow gallons used \_\_\_\_\_  
Mills thick \_\_\_\_\_  
White gallons used \_\_\_\_\_  
Mills thick \_\_\_\_\_  
Lbs. beads start \_\_\_\_\_  
Lbs. beads added \_\_\_\_\_  
Lbs. beads finish \_\_\_\_\_  
Total lbs. used \_\_\_\_\_  
Lbs. /gallon \_\_\_\_\_

Pay will be per information per ticket.



### Bid Form for Pavement Marking 2012

ITEM OF WORK	QUANTITIES in feet *	UNIT PRICE Per foot	TOTAL AMOUNT
Waterborne Pavement Marking <b>(White)</b>	200,000		
Waterborne Pavement Marking <b>(Yellow)</b>	800,000		
		<b>TOTAL</b>	

Paint Supplier: \_\_\_\_\_

NOTE: Contractor will do lay out work.

\*QUANTITIES ARE AN ESTIMATE ONLY AND WILL VARY

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

### Bid Form for Pavement Marking 2013

The pavement marking truck must be equipped with a foot measuring device capable of measuring each line applied, paint metering meters and bead weight monitoring scales.

The truck shall have monitors, which monitor the rate of gallons and pounds of beads being applied to the road surface during the painting operation.

The contractor shall provide a printed copy with the following information:

- 6. County Name or number
- 7. Route
- 8. Time started and time finished route
- 9. Speed painted.
- 10. Feet painted by each gun used
  - A. Gun #1 – white \_\_\_\_\_
  - B. Gun #2 – yellow \_\_\_\_\_
- 6. Total feet painted \_\_\_\_\_
- Yellow gallons used \_\_\_\_\_
- Mills thick \_\_\_\_\_
- White gallons used \_\_\_\_\_
- Mills thick \_\_\_\_\_
- Lbs. beads start \_\_\_\_\_
- Lbs. beads added \_\_\_\_\_
- Lbs. beads finish \_\_\_\_\_
- Total lbs. used \_\_\_\_\_
- Lbs. /gallon \_\_\_\_\_

Pay will be per information per ticket.

### Bid Form for Pavement Marking 2013

ITEM OF WORK	QUANTITIES in feet *	UNIT PRICE Per foot	TOTAL AMOUNT
Waterborne Pavement Marking <b>(White)</b>	200,000		
Waterborne Pavement Marking <b>(Yellow)</b>	800,000		
		<b>TOTAL</b>	

Paint Supplier: \_\_\_\_\_

NOTE: Contractor will do lay out work.

\*QUANTITIES ARE AN ESTIMATE ONLY AND WILL VARY

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

If your company hasn't done any centerline painting in Calhoun County, please give us two counties names where you have painted centerline.

1. \_\_\_\_\_

2. \_\_\_\_\_

BIDDER: \_\_\_\_\_

\_\_\_\_\_

ADDRESS: \_\_\_\_\_

\_\_\_\_\_

BY: \_\_\_\_\_

DATE: \_\_\_\_\_

PHONE #: \_\_\_\_\_

FAX #: \_\_\_\_\_