

**ROSCOMMON COUNTY ROAD COMMISSION
2009 PAVEMENT MARKING**

Pavement Marking of Primary Roads:

To include centerline and edgeline unless otherwise noted:

CR 201:	From Old 27 East and North to CR 200	1.29 miles
CR 202:	From CR 104 North to CR 200	1.75 miles
CR 603:	From M 18 East then South then East to F 97	3.90 miles
CR 602:	From CR 603 South then East to F 97	4.52 miles
F 97:	From Old 76 North to County line	9.33 miles
F 97:	From M 55 North then East to Old 76	7.13 miles
F 28:	From F 97 East to County line	2.00 miles
Old 76:	From M 55 North then Northeast to M 18	17.69 miles
F 18:	From F 97 East to County line	6.12 miles
CR 400:	From CR 401 East to M 18	3.00 miles
CR 305:	From Old 27 East to M 55	1.90 miles
CR 100:	From M 18 North then East to M 18	17.87 miles
CR 102:	From CR 100 North then East to M 18	2.87 miles
CR 300:	From CR 100 West to Old 27	7.22 miles
CR 300:	From M 55 North then East to Old 27	4.85 miles
CR 105:	From M 18 East 1.18 miles (Centerline Only)	1.22 miles

Total Primary Centerline Marking **92.66 miles**

Total Primary Edgeline Marking **91.44 miles**

Pavement Marking of Local Roads:

To include centerline and edgeline unless otherwise noted

Tower Hill Rd.:	From M-55 South to Emery Rd.	1.93 miles
West Shore Dr.:	From Old 27 North to Old 27 (Centerline on crown)	4.00 miles
Airport Rd.:	From Old 76 West to Chippewa Tr. & From Old 76 East to end of pavement	2.20 miles
Oak Rd.:	From Old 76 Southwest to end	0.55 miles
Sunset Dr.:	From CR 101 West to E. Higgins Lake Dr.	1.00 miles
Flint Rd.:	From CR 300 North to CR 104	3.14 miles
Lake James Dr.:	From Main St. To CR 107	2.55 miles
Main Street:	From M-55 East to Lake James Dr.	0.50 miles
W.Higgins Lk. Dr.	From CR 200 North to Ironwood	2.44 miles

Total Local Centerline Marking	18.31 miles
Total Local Edgeline Marking	18.31 miles

Thermoplastic Snowmobile Crossing

CR 300	At Lakewood	992 sft.
CR 104	Power line crossing	960 sft.
Old 27	South of CR402	400 sft.
CR 103	Between M-18 and Old 76	384 sft.
F-97	South of M-55	352 sft.
F-97	North of St Helen	384 sft.

Old 76	At Deckers Road	1008 sft.
CR 400	At Owens Road	560 sft.

Total Thermoplastic Snowmobile Crossing **5040 sft.**
(This Item may be reduced or eliminated)

***NOTE:**

Desired Completion Date: This project is desired to be completed no later than November 10, 2009. _____

The edgeline shall be a single 4" line, where double edgeline are present only the inside line shall be painted.

**ROSCOMMON COUNTY ROAD COMMISSION
2009 PAVEMENT MARKING
BID SHEET**

	<u>Unit Price</u>	<u>Total</u>
Pavement Marking, Regular Dry, 4 inch, Yellow	\$_____/RB mile	\$_____
Pavement Marking, Regular Dry, 4 inch, White	\$_____/RB mile	\$_____
Thermoplastic Snowmobile Crossing	\$_____/sft.	\$_____
	Total Bid \$	_____

Company Name Telephone Number

Mailing Address Fax Number

City, State, Zip Date

Authorized Company Representative's Signature

ROSCOMMON COUNTY ROAD COMMISSION
Specifications for Pavement Marking

Description: Furnish and apply retroreflective permanent pavement markings according to the Michigan Manual of Uniform Traffic Control Devices. All markings, shapes, spacing and dimensions must conform to the MDOT Pavement Marking Typical Plans unless specifically noted herein.

Supervision: All work shall be performed under the supervision of the County Highway Engineer or his authorized representative.

Paint and Beads: All Construction and Materials must meet Sections 811 and 920 of the current MDOT Standard Specification for Construction Manual.

Maintaining Traffic and Safety: The contractor shall be responsible for maintaining traffic and shall protect painted lines until dry enough to cross. All safety features and equipment required by law shall be maintained in good working condition by the contractor.

Contractor to furnish work sheet of each road painted showing mileage or footage to verify invoiced amount prior to payment.

References: Each bidder shall furnish references to verify his experience in this type of work.

Insurance: Bidder shall provide Certificate of Insurance prior to commencing work. Certificate shall include: 1) Board of County Road Commissioners and Roscommon County Road Commission named as additional insured to all coverage, 2) General Liability -\$1,000,000 each occurrence, 3) Automotive Liability-\$1,000,000 each occurrence, and 4) Worker's compensation - statutory limits.

Method of Payment: All paint, beads and application whether intermittent or solid shall be measured and paid for as actual number of road bed miles marked.

Quantity: The bid sheet reflects our best estimate of the required amount of work at this time. The Roscommon County Road Commission reserves the right to add or delete roadways from the bid, deemed to be in the best interest of Roscommon County.

ROSCOMMON COUNTY ROAD COMMISSION
SPECIAL PROVISION
FOR
THERMOPLASTIC SNOWMOBILE CROSSING

RCRC:RS

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9-1-09

a. Description. This work consists of placing thermoplastic coating to the finished HMA surface. This work will be completed in accordance with manufacturer recommendations, Section 811 of the current Standard Specifications for Construction and this special provision.

b. Materials. Select the thermoplastic from the Qualified Products List. Use silica sand as recommended by the thermoplastic manufacturer.

c. Construction.

1. Clean the bituminous surface, make sure the pavement is dry and above 40 degrees Fahrenheit. A supplemental heating device is recommended.
2. Melt the material to a temperature of 400 to 420 degrees Fahrenheit. Darken the material to a gray color so it blends with the surrounding road surface.
3. Apply the melted thermoplastic directly to the road surface. The material will bond with the tar in the asphalt.
4. Stagger the seams to ensure 100% coverage.
5. Apply the thermoplastic in three layers with a minimum of 90 mils per layer.
6. Add extra material to the edges of the crossing running parallel to the roadway traffic to provide extra protection for the road surface from the snowmobile skis.
7. Taper edges running perpendicular to the flow of roadway traffic to reduce the effect on the driver of a vehicle going over the snowmobile crossing.
8. Apply silica sand at the time of application as recommended by the manufacturer so the crossing has a non-skid texture.
9. Apply the material so the width of the crossing is 14 feet or as directed by the Engineer.

d. Measurement and Payment. The material, when applied at a minimum recommended total depth of 270 mils, will be measured in square feet and includes all labor, equipment and materials required to prepare the crossing and place the thermoplastic coating.