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# WEXFORD COUNTY ROAD COMMISSION

*OUR MISSION IS TO IMPROVE AND MAINTAIN A SAFE AND EFFICIENT ROAD SYSTEM*

January 14, 2025

## NOTICE TO CONTRACTORS AND MATERIAL SUPPLIERS

Sealed bids will be received at the office of the Wexford County Road Commission, 85 West Highway M-115, Boon, Michigan 49618 until 2:00 p.m. Tuesday, January 28, 2025, at which time and place the bids will be opened and read for furnishing the Wexford County Road Commission with the following material:

### **2025-County-Wide Chipseal with Fog and Chipseal Underlayment**

Specifications are available at [www.wexfordcrc.org](http://www.wexfordcrc.org) and the Road Commission office in Boon, Michigan. Telephone, emailed, or faxed bids will not be accepted.

All materials and all work will be in accordance with the 2020 MDOT Standard Specifications for Construction.

Insurance requirements shall be in accordance with the 2020 MDOT Standard Specifications for Construction. The award is contingent upon Board approval.

The Wexford County Road Commission, in accordance with Title VI of the Civil Rights Act of 1964, 78 Stat. 252, 42 U.S.C 2000d to 2000d-4 and Title 49, Code of Federal Regulations, Department of Transportation, SubTitle A, Office the Secretary, Part 21, Nondiscrimination in Federally assisted programs of the Department of Transportation issued pursuant to such Act, hereby notifies all bidders that it will affirmatively insure that in any contact entered into pursuant to this advertisement, minority business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

The Board reserves the right to reject any or all bids or any part of the same, to waive irregularities and/or informalities and to make the award in part or entirety in any manner deemed to be in the best interest of the Wexford County Road Commission. Contractors / suppliers that do not honor their bid throughout the season may at WCRC discretion be precluded from future bid lettings.

Wexford County Road Commission

Harry Hagstrom, Chairman  
Harold Falan, Vice-Chairman  
Dean Jurik, Member  
Jim Leggett, Member  
Robert Hilty, Member

## **WCRC County-wide Chipseal with Fog, and HMA Underlayment 2025 - Specifications and Bid Proposal**

### **Pre-Qualifications-**

Bidders shall be pre-qualified by the Michigan Department of Transportation and have available, upon request, three references from previous work experience including the company name, address, phone and a contact person.

### **Insurance Requirements-**

The contractor shall at all times exercise extreme care and shall hold the Wexford County Road Commission its Commissioners and employees harmless and indemnified from any claims or damages. Contractors working within the road right-of-way shall have valid proof of Auto Liability, Worker's Compensation and Commercial General Liability Insurance and WCRC shall be named as additionally insured. Certificates shall be on file with the Road Commission prior to the start of any work.

### **Equipment-**

All equipment must meet the requirements under Section 505 of the MDOT 2020 Standards and Specifications for Construction, except as modified herein:

#### Pressure Distributor:

The pressure distributor shall have a ground speed control device interconnected with the asphalt emulsion pump such that the specified application rate will be supplied at any speed. The pressure distributor shall be capable of maintaining the asphalt emulsion at the specified temperature. The spray bar nozzles shall produce a uniform fan spray, and the shutoff shall be instantaneous with no dripping. Each pressure distributor shall be capable of maintaining the specified rate of application within +/- 0.015 gallons per square yard for each load.

#### Aggregate Chip Spreader:

Use a self-propelled chip spreader capable of uniformly spreading the cover material at the designated rate. Equipped with pneumatic tires and with a screen to remove oversized material.

#### Compacting Equipment:

Use two (2) self-propelled, pneumatic-tired rollers, weighing not less than 8 tons.

#### Broom/Sweeper:

The use of a rotary-powered broom is required to remove the loose material from the surface to be treated and for removing loose aggregate after the work has been completed.

#### Miscellaneous:

Provide all equipment including hand tools, thermometers, etc. Equip all self-propelled equipment with at least one approved, flashing, rotating or oscillating amber light, visible to traffic in all directions. Equip chip spreaders with one such light on each side of the spreader.

**Subcontracting-**

The approval of the Road Commission shall be obtained prior to any substantial work being subcontracted. The contractor shall assure that any subcontractor named has sufficient equipment, insurance, and personnel to properly complete any item of work within the specified time.

**Pre-paving Meeting-**

A pre-paving meeting will be held on site with the Engineer before beginning work to discuss the following:

- Work schedule for underlayment and stand along projects.
- Chipseal with fog to be completed by August 15, 2025.
- Traffic control plan.
- Equipment calibration and adjustments.
- Condition of materials and equipment, including transport units.
- Mix design(s) including job-mix-formula (JMF); coarse aggregate gradation; application rate of asphalt emulsion and coarse aggregate (by stationing and course).
- Contractor's quality control plan (method of yield check, etc.).

**Seasonal Limitations-**

The chip seal shall be placed when the pavement and the atmospheric temperature are above 55°F. Placement is not permitted when temperatures are forecasted to be below 32°F within 24 hours from the time of work. Placement is not permitted when the existing pavement temperature is 130°F or above.

**Maintaining Traffic-**

The contractor shall provide all equipment, labor, and materials to properly control traffic throughout the length of the project. All traffic control features shall be in accordance with the current Michigan Manual of Uniform Traffic Control Devices to protect the traveling public, their workforce, and the work. Traffic control shall be provided at no additional cost to the Road Commission and shall be included in the cost per square yard.

**General Placement Operations-**

1. The contractor shall establish 1000-foot intervals along the entire length of the project, prior to placing materials. The stations shall be clearly identified and maintained until project completion.
2. Perform all surface preparation that may affect the performance of the chip seal. Remove all plastic pavement markings using an abrasion method. Remove markings just before the surfacing operation. Clean all pavements to be treated with a motorized power broom to remove all loose material. Clean all depressions not reached by the power broom using a hand broom. Thoroughly clean the outer edges of the pavement or shoulder. For single chip seal and double chip seal, extend cleaning 1 foot onto the adjacent paved shoulder.
3. The contractor shall place raised pavement markings along the center of the roadway and any taper or turning lanes prior to starting the chipseal operation. Raised pavement markers to be placed at 100' intervals in tangents and 50' intervals in curves and/or no passing zones.
4. Keep all vehicles and equipment involved in the chip sealing operation as close to each other as practical. Keep the asphalt emulsion distributor within 150 feet of the chip spreader. Do not place cover aggregate on asphalt emulsion after it breaks.
5. Locate longitudinal construction joints as follows:
  - Single chip seal-on a painted lane line or at the outside edge of the shoulder.

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- Double chip seal-place the joint to overlap the centerline by 6 inches for the first course and place the joint on the centerline for the second course.
  - Shoulder chip seal-at the edge of the driving lane or at a location requiring the least overlap onto the driving lane.
6. Perform rolling within five minutes of placing the coarse aggregate and before the asphalt emulsion has set up. Make a minimum of two complete passes over the coarse aggregate. A complete pass is one trip, forward and backward, over the same path. Overlap each pass by one-half the width of the roller. Use a minimum of two rollers and proceed in a longitudinal direction at a speed not greater than 5 mph.
  7. Use the appropriate equipment and perform an initial sweeping of the completed chip seal to remove excess loose aggregate before the end of each day's work or within 24 hours with the approval of the County Inspector. For single chip seal and double chip seal, sweep beyond the edge of pavement to help prevent migration of loose aggregate back onto the pavement. Do not sweep loose aggregate into curbed areas or intersections.
  8. Before opening to traffic, place W8-7 (LOOSE GRAVEL) signs with 35 mph speed plaques mounted below. Place these signs throughout the completed work, beginning 50 feet before the treated area in the direction of oncoming traffic at a maximum spacing of 0.5 mile.
  9. Before beginning the chip seal operation, protect all utility castings, monument boxes and raised pavement markers using tarpaper or other approved materials. Remove these protective coverings before sweeping and opening to traffic.
  10. Allow the new surface sufficient cure time to prevent damage by vehicle tires before opening to traffic. Protect the new surface from potential damage at intersections and driveways. Repair all traffic damage to the new surface at the Contractor's expense.

**Submittals-**

Upon completion the contractor shall provide an inspector's daily report for each day work was performed containing the following information:

- Road Name / project number
- Date / air temperature / pavement temperature / humidity
- Asphalt Emulsion temperature
- Yield checks on asphalt emulsion
- Yield checks on coarse aggregate
- Length / Width / Total Square Yards
- Contractor's Signature

Other required documentation:

- Aggregate Certification or Shipment of Tested Stock Report (MDOT Form 1922).
- Asphalt Emulsion: per current acceptance procedures.

**Chipseal Asphalt Specifications-**

Emulsified asphalt products shall meet the requirements of section 904 of MDOT 2020 Standards and Specifications as specified below. Documentation shall be provided to WCRC.

- HFRS-2**                      Table 904-5
- CQSEA**                      Table 904-6
- CRS-2M**                      Table 904-7

**CM-90 Multi-grade Asphalt** shall meet the requirements outlined below:

	<u><b>CM-90</b></u>	<u>METHOD OF TEST</u>
Viscosity @ 25°C, 1. Sec.-1, P.	2000-20,000	ASTM D-4957
Flash Point, °C	67+	ASTM D-93
Water % max	1.0-	ASTM D-95
Distillate Test		
Volume % of Total Distillate to 360° C		ASTMD-402-02
To 225° C	0-2	
To 260° C	0-3	
To 316°	10-65	
Residue from Distillate to 360°,min	90	
Volume by Difference		
Test on Residue from Distillation		
Penetration @ 25° C, 100g, 5 sec, dmm.	80-140	ASTM D-5
Ductility at 25°C, cm. min.	report	ASTM D 113
Float Test @ 60° C, sec.	1200+	ASTM D-139
Solubility %	99.0+	ASTM D-2042

The above submittals shall be placed in order by date in a folder with the certification statement in the back.

**Application Temperature-**

The contractor shall apply the asphalt emulsion at a temperature between 145°F and 190°F, followed by a uniform application of coarse aggregate. For CM-90 Oil the Contractor shall apply the multi-grade asphalt at a temperature between 270° F and 300° F, followed by a uniform application of coarse aggregate.

**Asphalt Emulsion Application Rates-**

HFRS2, CRS-2M (as selected based on price submittals) shall be spread at a target rate between 0.42 and 0.50 gallons per square yard. If the target rate of 0.42 to 0.50 gallons per square yard is not the optimum application rate due to the gradation of the coarse aggregate or due to existing surface conditions of the pavement, the contractor shall notify the Project Engineer prior to application. All truck demurrage will be the responsibility of the contractor.

CM-90 shall be within the range of 0.30-0.32 gal/syd. The JMF target rate for the asphalt shall be 0.31 gal/syd.

If the target rate of 0.31 gal/syd is not the optimum application rate due to the gradation of the coarse aggregate or due to existing surface conditions of the pavement, the Contractor shall notify the Project Engineer, immediately. The Contractor shall then document the new JMF rate(s) by stationing.

**Coarse Aggregate Specification-**

The coarse aggregate shall be placed immediately after the application of asphalt emulsion or oil. The coarse aggregate shall meet the requirements of section 902 of MDOT 2020 Standards and Specifications as specified below.

<b>34CS Slag</b>	Table 902-7 & 902-8
<b>25A Slag</b>	Table 902-1 & 902-2
<b>25A Nat</b>	Table 902-1 & 902-2
<b>29A Nat</b>	Table 902-1 & 902-2

Documentation shall be provided to WCRC.

**Coarse Aggregate Application Rates-**

Cover material to be used will be 34CS Slag. Slag placement rate shall be within the range of 17 to 22 pounds per square yard for emulsion and 14-19 pounds per syd for CM-90.

If the target rate is not the optimum application rate due to the gradation of the coarse aggregate or due to existing surface conditions of the pavement, the contractor shall notify the Road Commission’s inspector prior to application.

For under seals that will be overlaid with HMA this year the contractor may use 25A or 29A natural stone.

**Stockpiling Aggregate Material-**

The WCRC will provide several stockpile locations throughout the county; all provided stockpile locations would be located on property in which the Road Commission owns or has easement to use. If the contractor wishes to stockpile their material at a location not provided by the Road Commission, they would be doing so at their own risk and expense.

**Fog Seal Application Rate-**

CQSEA (at 50% dilution) or alternates as selected based on price submittals shall be spread at a target rate between 0.12 and 0.15 gallons per square yard. Under seal projects will not require fog seal.

If the target rate of 0.12 to 0.15 gallons per square yard is not the optimum application rate due to the gradation of the coarse aggregate or due to existing surface conditions of the pavement, the contractor shall notify the Road Commission’s inspector prior to application. All truck demurrages will be the responsibility of the contractor.

**Delayed Acceptance-**

After 30 days from the time of placement of the chip seal, the Road Commission’s inspector, in the company of the contractor, shall inspect the work for any deficiencies. These deficiencies will be limited to surface flushing, surface patterns, or loss of stone retention. All correction work shall be accomplished within seven (7) working days after notification or an agreed upon date. The contractor shall furnish the materials, equipment, and labor to make the identified corrections to the satisfaction of the Road Commission at no additional cost to the Road Commission. MDOT pavement performance warranties shall apply.

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**Measurement and Payment**

Completed work, as measured, will be paid for at the contract unit price for the following contract items:

<u>Pay Item</u>	<u>Pay Unit</u>
Single Chip Seal	Square Yard
Fog Seal	Square Yard

Payment for the chip seal (as selected by WCRC from the prices for each material combination) includes all equipment, labor and materials for placement of a single or double application of asphalt emulsion and coarse aggregate, brooming before fogging, establishment of yield intervals, maintaining traffic, and delayed acceptance inspection.

No adjustments in the unit price will be made for the approved rate of asphalt emulsion and/or coarse aggregate that are within the ranges identified in Asphalt Emulsion and Coarse Aggregate Application.

The contract unit price shall be payment in full for all labor and equipment needed to accomplish the work, including traffic control and temporary construction signage.

See attached list of proposed chipseal roads and termini including length and square yards as estimated.

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**PROJECT LIST AND ESTIMATED QUANTITIES:**

The project list below is for Chipseal with fog. The work below can be started when the seasonal limitations allow and is to be completed by **August 15<sup>th</sup>, 2025**. Coordination with the HMA paving contractor will be required as some of the projects require HMA wedging prior to chipseal. Please note, some of the roads will require bar seal along the edge or in the wheel paths. This work will be in various locations throughout the roadway length and will be determined with field layout prior to start of construction. Bar seal and double seal will be paid for at the square yard unit price.

2025 Chipseal with Fog- BUDGETED									
Road Name	Township	Termini	Termini	Length	Width	Mainline SYDS	Chip Approach	Dbl & Bar Chip SYDS	Total SYDS Chip
Arbutus Dr	Clam Lake	40 1/2 Rd	40 1/2 Rd	1.250	22	16133	400	2000	18600
50 Rd	Clam Lake	43 Rd	37 1/2 Rd	2.500	22	32267	800	4436	37600
43 Rd	Clam Lake	M-115	50 Rd	1.150	26	17541	300	2991	20900
45 Rd	Clam Lake	40 1/2 Rd	M-115	3.750	24	52800	500	19333	72700
Mack Trail	Clam Lake	M-115	Mitchell St	2.500	40	58667	800	0	59500
46 Rd	Cherry Grove	27 Rd	37 Rd	3.850	24	54208	200	5328	59800
Works Ave	Haring	Mitchell St	Plett Rd	0.500	24	7040	200	2191	9500
Bell Ave	Haring	Mitchell St	Plett Rd	0.500	24	7040	200	3336	10600
Hanthorne St	Haring	Boon Rd	13th St	1.000	27	15840	200	6839	22900
Bricker Ave	Haring	Works Ave	Bell Ave	0.260	20	4251	300	2000	6600
41 Rd	Haring	34 Rd	North End	0.250	30	5700	100	1500	7300
Timber Ridge Sub	Haring	45 1/2 Rd	Entire Sub	1.280	21	15770	200	2000	18000
35 Rd	Selma	32 Rd	Ms. Green Recycle	1.250	23	16867	400	3333	20600
34 Rd	Selma/Haring	M-115	39 Rd	2.200	36	46464	800	0	47300
37, 28, 31 Rds	Selma/Haring	13th St	28	9.100	26	138805	2000	278	141100
Division St	Selma/Haring	E lake Mitchell	Seneca Dr	1.400	30	24640	400	0	25100
20 1/2 Rd	Cedar Creek	41 1/2 Rd	Mack Tr	0.500	22	6453	100	1067	7700
22 Rd	Cedar Creek	Mack Tr	End of HMA	0.250	24	3520	0	500	4100
47 Rd	Cedar Creek	M-42	14 Rd	1.750	24	24640	600	1500	26800
41 Rd	Liberty	14 Rd	10 Rd	2.000	22	25813	600	2500	29000
14 Rd	Liberty	47 Rd	Seeley Rd	0.500	26	7627	400	0	8100
2 Rd	Greenwood	25 1/2 Rd	31 Rd	1.250	26	19067	600	0	19700
16 Rd	Antioch	M-37	25 Rd	6.000	37	130240	1600	0	131900
29 & 29 1/4 Rds	Colfax	24 Rd	16 Rd	4.750	28	78027	1600	23747	103400
23 Rd	Boon	38 Rd	34 Rd	2.100	26	32032	1000	0	33100
30 Rd	Slagle	9 1/2 Rd	1 Rd	4.500	25	66000	2000	5025	73100
48 1/2 & 5 1/2 Rds	South Branch	M-37	7 1/2 Rd	3.100	24	43648	400	3487	47600
48 Rd	South Branch	7 1/2 Rd	11 1/4 Rd	1.850	23	24963	100	1168	26300
7 1/2 Rd	South Branch	48 Rd	M-55	2.250	23	32360	0	935	33300
11 1/2 Rd	South Branch	50 1/2 Rd	N State Rd	1.100	23	17343	200	2009	19600
<b>Road Totals</b>				<b>64.640</b>		<b>1,008,422</b>	<b>17,000</b>	<b>97,503</b>	<b>1,141,800</b>

The quantities listed above are estimated quantities and are for bidding information only. Double and bar seal quantities are estimated and are variable. Road deterioration condition may change by the time work is completed, thus changing this quantity. The Road Commission reserves the right to add or delete projects as needed without change to contract price.



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**PROJECT LIST AND ESTIMATED QUANTITIES:**

The project list below is for chipseal underlayment on HMA paving projects. The work below can be started when the weather allows. Underlayment chipseal sections are to be completed independently of the stand-alone chipseal. This allows the paving contractor to complete the HMA work without trucks damaging the stand-alone chipseal work. The remaining stand-alone chipseal work on these projects is to be completed by August 15<sup>th</sup>, 2025. Coordination with the paving contractor will be required, as the scheduled completion date may change due to the paving schedule. The paving contractor has not been determined to date. Work performed too early may require fog seal to hold stone in place if WCRC finds excessive stone loss prior to paving.

<b>2025 - Underlayment Chipseal - No Fog- BUDGETED</b>								
<b>Road Name</b>	<b>Township</b>	<b>Termini</b>	<b>Termini</b>	<b>Length</b>	<b>Width</b>	<b>Mainline SYDS</b>	<b>Chip Approach</b>	<b>Total SYDS Chip</b>
<b>30 Rd</b>	Slagle	11 1/2 Rd	9 1/2 Rd	1.000	25	14667	200	14900
<b>16 Rd</b>	Hanover	17 Rd	23 Rd	1.500	36	31680	300	32000
<b>19 Rd</b>	Antioch	M-115	16 Rd	1.750	24	24640	300	25000
<b>Road Totals</b>				<b>4.250</b>		<b>70,987</b>	<b>800</b>	<b>71,900</b>

The quantities listed above are estimated quantities and are for bidding information only. The Road Commission reserves the right to add or delete projects as needed without change to contract price.

**2025 WCRC County-wide Chipseal and Fog  
Bid Tab**

The undersigned wishes to submit the following proposal for 2025 Bituminous Chip Seal Surface Treatment in Wexford County.

**Single Chip Seal:**

Cost per square yard per Material combination

Single Chip Seal (CRS-2M/34CS Slag) \_\_\_\_\_ \$/SYD

Single Chip Seal (CRS-2M/25A Slag) \_\_\_\_\_ \$/SYD

Single Chip Seal (CM-90/34CS Slag) \_\_\_\_\_ \$/SYD

Single Chip Seal (CM-90/25A Slag) \_\_\_\_\_ \$/SYD

**Fog Seal:**

Fog Seal Cost per SYD to be used on selected roads

Fog Seal (CQSEA) \_\_\_\_\_ \$/SYD

Fog Seal (Specify alternate material) \_\_\_\_\_ \$/SYD

**Renewal Option:** The Road Commission reserves the right to renew the contract for an additional one-year term, for as long as there is mutual agreement of both parties.

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

Print Name & Title: \_\_\_\_\_

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Telephone Number: \_\_\_\_\_

Email Address: \_\_\_\_\_

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

Federal EIN: \_\_\_\_\_