

ROAD COMMISSION FOR IONIA COUNTY

170 E. Riverside Drive • P.O. Box 76 • Ionia, Michigan 48846 • Phone (616) 527-1700 • Fax (616) 527-8848

CHARLES G. MINKLEY
Commissioner

KENNETH L. GASPER
Commissioner

ALBERT A. ALMY
Commissioner

KAREN D. BOTA
Commissioner

ROBERT G. DUNTON
Commissioner

DOROTHY G. POHL, CPA
Managing Director

PAUL A. SPITZLEY, P.E.
County Highway Engineer

NOTICE TO BIDDERS

Sealed bids will be received by the Board of Ionia County Road Commissioners until 1:00 p.m. on Wednesday, March 28th, 2018, at which time they will be publicly opened and read in the Commission offices for:

CONTRACT #18-21: HOT MASTIC ASPHALT REPAIRS

The contractor shall certify that all materials and equipment meet current Michigan Department of Transportation specifications. All bids will meet or exceed the specifications established by the Ionia County Road Commission and/or the Michigan Department of Transportation.

The bid form is to be returned in a sealed envelope and plainly marked "Sealed Bid for Contract # 18-21 Hot Mastic Asphalt Repairs" and shall include the name and address of the bidder. Further information upon which bids shall be based is available at the road commission office; phone (616) 527-1700 or www.ioniacountyroads.org on the "Doing Business" page.

The Ionia County Road Commission and/or Michigan Department of Transportation reserve the right to reject any and all proposals or to waive irregularities therein, and to accept any proposals which, in their opinion, may be most advantageous and in the best interest of the Ionia County Road Commission and the Michigan Department of Transportation.

BOARD OF COUNTY ROAD COMMISSIONERS IONIA COUNTY, MICHIGAN

Charles G. Minkley - Chairperson

Robert G. Dunton - Vice Chairperson

Albert A. Almy - Member

Karen D. Bota - Member

Kenneth L. Gasper - Member

BOARD OF COUNTY ROAD COMMISSIONERS
Of the County of Ionia
INSTRUCTIONS TO BIDDERS

Sealed bids will be publicly opened at the offices of the Board of County Road Commissioners of the County of Ionia, State of Michigan, located at 170 E. Riverside Drive, Ionia, MI 48846.

Refer to the NOTICE TO BIDDERS for the exact timing and for the identification of the bids as related to furnishing materials, services, equipment, work and/or supplies with the terms, conditions, specifications, drawings, plans and special provisions as stated herein and hereto attached.

The Board's normal practice is to open and read the bids then refer the file to staff for tabulation and analysis. During this period, the files are closed and will remain closed until presented to the Board of County Road Commissioners at their next regular meeting. Notifications of award, pending award or other outcome, will be made in writing. The bid tabulation will accompany award, as is customary for item bid, or may be requested by phone at (616) 527-1700.

1. All bids must be submitted on the Board's blank form when provided. The bid shall be legibly prepared in ink or typewriter. Erasures or alterations must be initialed by the bidder.
2. Specifications and plans should not be returned unless otherwise stated herein.
3. Bids shall be in a sealed envelope and identified on the outside as to the bid concerned. Bids shall be mailed or delivered. Faxed or emailed bids will NOT be accepted.
4. Bids will not be accepted after the time designated for the opening of the bids. The bidder shall assume full responsibility for delivery of bids prior to the appointed hour for opening same and shall assume the risk of late delivery or non-delivery regardless of the manner employed for the transmission thereof. Bids will be accepted at the Road Commission office on behalf of the Board at any time during normal business hours only, said hours being 7:30 a.m. to 4:00 p.m., Monday through Friday, with the exception of legal holidays.
5. It is understood that the Board of County Road Commissioners is a governmental unit and as such, is exempt from the payment of all State and Federal taxes, except as allowed by the regulatory agencies to be included in the cost of materials and services.
6. The bidder, as evidenced by execution of the bid form, thereby declares that the bid is made without collusion with any other person, firm or corporation and agrees to furnish all bid items in strict adherence with all Federal regulatory measures.
7. The Board reserves the right to reject any and all bids, to waive any irregularities therein, and to accept any bid which, in the opinion of the Board, may be most advantageous and to the best interest of the County. In case of error in the extension of prices in the bid or other arithmetical error, the unit prices will govern.
8. **Insurance Requirements:** Upon request or notification of award, and prior to execution of the contract, the contractor shall have fourteen (14) days to submit to the Ionia County Road

Commission a completed copy of the Certificate of Liability Insurance as evidence of the following specific requirements:

A. Indemnification: The contractor shall save harmless and indemnify the Michigan Department of Transportation and the Ionia County Road Commission as well as their officers, agents and employees, against all claims for damages to public or private property and for injuries to persons arising out of and during the progress and to the completion of the work all in accordance with the current Michigan Department of Transportation "Standard Specifications for Construction", section number 107.10.

1. **CERTIFICATE HOLDER** block shall read: "Ionia County Road Commission, 170 E. Riverside Drive, Ionia, Michigan 48846".
2. **DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS** block shall read: "Additional Insured: The Michigan Department of Transportation and the Board of County Road Commissioners for Ionia County, the Ionia County Road Commission and its officers, agents and employees".

B. Worker's Compensation Insurance: The contractor shall carry Worker's Compensation Insurance of not less than the Statutory Limit.

C. Bodily Injury and Property Damage: The contractor, will afford protection against all claims for damages to public or private property, and injuries to persons, arising out of and during the progress of the work, and to its completion and, where specified in the proposal, similar insurance to protect the owner of premises on or near which construction operations are to be performed.

1. **Bodily Injury and Property Damage Other Than Automobile**. Unless otherwise specifically required by special provisions in the proposal, the minimum limits of property damage and bodily injury liability covering each contract will be:

Bodily Injury and Property Damage Liability:

Each Occurrence: \$1,000,000
Aggregate \$2,000,000

The Insurance will include, but not be limited to coverage for:

- a. Underground damage to facilities due to drilling and excavating with mechanical equipment, and
- b. Collapse or structural injury to structures due to blasting or explosion, excavation, tunneling, pile driving, cofferdam work, or building moving or demolition.

2. **Bodily Injury and Property Damage Liability Automobile**. Unless otherwise specifically required by special provision, the minimum limits of bodily injury liability and property damage liability shall be:

Bodily Injury Liability:

Each Person:..... \$500,000
Each Occurrence: \$1,000,000

Property Damage Liability:

Each Occurrence: \$1,000,000

Combined Single Limit for Bodily Injury and Property Damage Liability:

Each Occurrence: \$2,000,000

Comprehensive General Liability Insurance naming the Ionia County Road Commission, its commissioners, officers, agents and employees, as “Additional Insured” is required as shown above. This policy shall include coverage for product liability and completed operations, and bodily or property damage due to perils of explosion, collapse and underground hazards (X, C, U). The completed certificate shall provide the name of the insurance company and its address, phone number, and fax number, in addition to the policy numbers, policy periods, policy descriptions, and signature of the insurance agent.

- C. Owner’s Protective Public Liability Insurance: In the alternative to the previous section, the contractor shall provide for and in behalf of the Ionia County Road Commission, its commissioners, officials, agents and employees, and all agencies specifically named below, and their employees, a policy for Owner’s Protective Public Liability Insurance. Such insurance shall provide coverage and limits the same as the Contractor’s Public Liability Insurance.

The agencies specifically named are the Ionia County Road Commission and the Board of Ionia County Road Commissioners.

9. **Cancellation of Contract Provisions:** The Ionia County Road Commission shall have the right to cancel the contract for non-performance, should an inspection by the designated representative reveal that the contractor’s work results in any non-acceptable maintenance condition of one or all specified areas. The designated representative at the time of the **first** circumstance shall call for a meeting with the contractor and issue a written warning of possible contract termination should the condition continue. If the condition should repeat for a **second** time, written notice of termination shall be sent.
10. **Presumption upon Receipt of Bid:** Submission of bid will be construed as a conclusive presumption that the contractor is thoroughly familiar with the bid requirements and specifications and that he/she understands and agrees to abide by each and all stipulations and requirements contained therein.
11. **Contractor and Contractor’s Subcontractor:** Neither the Contractor nor his/her subcontractors shall discriminate against any employee or applicant for employment, to be employed in the performance of this contract, with respect to his/her hire, tenure, terms, conditions or privileges of employment because of his/her race, color, religion, national origin, or ancestry. Breach of this covenant may be regarded as a material breach of this contract.

Specifications for
Contract # 18-21 Hot Mastic Asphalt Repairs

It is the intent of the Ionia County Road Commission to contract for Mastic Asphalt Repairs on I-96 in Ionia County.

- A. Quantity:
Quantity based upon maintenance budget allocation. Once started, contractor will be expected to stay and complete the job unless prior arrangements are made.
- B. Location:
Ionia County, MI on I-96 from the Morrison Lake Road overpass to the Peake Road overpass.
- C. Safety Requirements:
Contractor shall be responsible for providing any safety materials in accordance with MIOSHA Standards and Regulations that are required for this specific type of work.
- D. Acceptance of Work
Five calendar days prior to the completion of work on the project, or on a route or job included in the project, the contractor shall schedule an inspection of the work with the superintendent to note any deficiencies. Work identified by the superintendent as not acceptable shall be redone by the contractor. The contractor shall notify the superintendent upon completion of required corrective work, or upon completion of work on the route, job, or project if corrective work is not required.
- E. Qualifications and Submittals
 - 1. Manufacturer's certificate of compliance indicating mastic materials compliance to specifications noted.
 - 2. List of references of independent mastic applications by installation contractor.
- F. Measurement and Payment
 - 1. The accepted quantities of mastic road repair will be paid for at the contract unit price per pound which shall include furnishing, hauling, and placing of all materials, the removal and disposal of old filler and debris, and for all labor, equipment, materials, and tools required to complete the work.

<u>Pay Item</u>	<u>Pay Unit</u>
Hot Mastic Asphalt Repair	per pound

- 2. Payment will be issued 30 days from invoice date upon satisfactory completion.

Questions concerning specifications may be directed to Paul Spitzley, County Highway Engineer at (616) 527-1700 ext. 114.

MICHIGAN
DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION
FOR
ASPHALT REPAIR MASTIC

CFS:ARB

1 of 2

APPR:JFS:KPK:08-04-17

a. Description. This work consists of cleaning, filling, and leveling the longitudinal construction joints, transverse joints, cracks and spalls with asphalt repair mastic material.

Clean and fill joints, cracks and spalls at the locations shown in the contract, or as directed by the Engineer.

b. Materials. Provide a hot applied, pre-packaged, pourable, aggregate filled, polymer modified asphalt repair mastic for both concrete and Hot Mix Asphalt (HMA) pavement repairs. Use Deery Level and Go Repair Mastic, Crafcoc Mastic One, or an approved equal as determined by the Engineer.

For concrete pavement, use one of the following 100 percent solids silane primer products: Baracade Silane 100C, Hydrozo® 100, Sikagard® 705L, or an approved equal 100 percent solids silane material prior to placement of the asphalt repair mastic material. Do not use silane primer material for HMA pavement repairs.

c. Equipment. Heat the asphalt repair mastic material in a thermostatically controlled hot oil jacketed mastic mixer equipped with a full sweep horizontal agitator that is able to maintain a uniformly mixed product. The mixer must have an effective means of dispensing the thoroughly mixed mastic material.

d. Surface Preparation and Installation. Prepare all surfaces free from dust, dirt, oil, grease, and loose material prior to application of the mastic using clean, dry, oil free compressed air at 90 pounds per square inch (psi) minimum. Sound substrate surfaces and remove delaminated material prior to final cleaning. Ensure the surfaces of the pavement are completely dry and clean at the time of mastic application.

Artificial heat may be used to warm the substrate surface provided it does not apply a direct flame to the substrate surface, as recommended by the mastic manufacturer. Do not overheat pavement surfaces.

1. HMA. Apply asphalt repair mastic when pavement temperature is above 40 degrees Fahrenheit (F). Place and finish asphalt repair mastic within 10 minutes after warming the pavement area.

2. Concrete. Apply asphalt repair mastic when pavement temperature is above 40 degrees F. Prior to placing the asphalt repair mastic material, apply silane primer onto the repair area and a minimum of 6 inches onto the adjacent pavement surface at a rate of no less than one gallon per 200 square feet. Allow a minimum of 1 hour for the primer to cure (more time may be necessary depending on weather conditions) prior to placing asphalt repair mastic.

Ensure the Contractor is trained and approved by the mastic manufacturer.

Heat and uniformly mix the asphalt repair mastic to the appropriate installation temperature using a mastic mixer.

Place the mastic onto the properly prepared pavement surface according to the mastic manufacturer recommendations.

Apply the mastic to the joint, crack or spall from the bottom up in lifts appropriate to the specific application. Multiple lifts may be required to level deeper repair areas. Fill the uppermost 0.5 to 1 inch with the final lift after prior lifts have sufficiently cooled.

Use a heated hand squeegee to level and smooth the mastic until the material has formed a durable, well-bonded, level repair.

e. 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
Asphalt Repair Mastic	Foot

Asphalt Repair Mastic will be measured in feet based on in-place quantities. Payment includes all surface preparation, furnishing, hauling, placing, and finishing of all materials, removal and disposal of all debris, and all labor, equipment, materials, and tools required to complete the work.

MICHIGAN
DEPARTMENT OF TRANSPORTATION
SPECIAL PROVISION
FOR
**MAINTAINING TRAFFIC,
PERMANENT SIGNING AND PAVEMENT MARKING**

GND:CPE

1 of 6

GND:APPR:BEF:KH:05-30-2017

- a. Description.** This work shall consist of hot mastic patching on both bounds of I-96 from approximately Bliss Road to approximately South Sunfield Road in Ionia County.
- b. General.** Traffic shall be maintained according to the most current edition of the Standard Specifications for Construction, including any Supplemental Specifications, and as specified herein.
1. The Contractor shall notify the Engineer a minimum of 72 hours prior to the implementation of any detours, road, bridge, ramp or lane closures and major traffic shifts. The Contractor shall start work at the time agreed upon with the Engineer. Any delay in the start time may result in delaying the project, until another start date can be agreed upon with the Engineer. Any delay on a new start date may not be reason for an extension of time.
 2. The Contractor shall coordinate his operations with Contractors performing work on other projects within or adjacent to the Construction Influence Area (CIA) as described below.
 3. MDOT maintenance crews and/or Contract Maintenance Agencies may perform maintenance work within or adjacent to the Construction Influence Area (CIA). The Maintenance Division of MDOT and/or Contract Maintenance Agency will coordinate their operations with the Engineer to minimize the interference to the Contractor. No additional payment will be made to the Contractor for the joint use of the traffic control items.
- c. Construction Influence Area (CIA).** The CIA will include the rights-of-way of the following roadways and ramps within the approximate limits described below:
1. On I-96 from approximately 2 miles west of Bliss Road to 2 miles east of South Sunfield Road.
 2. In addition, the CIA will include the right-of-way of any intersecting roads and ramps adjacent to the work zone for a distance of approximately ¼ mile in advance of the state trunkline.
- d. Traffic Restrictions.**
1. No work will be performed or lane closures allowed during the July 4th (3:00 pm Friday, 6/30/2017 to 6:00 am Wednesday, 7/5/2017), Labor Day (3:00 pm Friday, 9/1/2017 to 6:00 am Tuesday, 9/5/2017), or Thanksgiving (3:00 pm Wednesday,

- 11/22/2017 to 6:00 am Monday, 11/27/2017) holiday periods, as defined by the Engineer.
2. A minimum of 1 lane of traffic in each direction shall be maintained at all times on I-96.
 3. Allowable lane closure timeframes:
 - Nightly Saturday through Thursday from 8 pm – 7 am
 - Daily Monday through Friday from 9 am – 3 pm
 4. Additional lane closure restrictions will be required on Saturdays when there is a home football game at Michigan State University or the University of Michigan. The dates below are subject to change.

• September 2 (Both)	• October 21 (MSU)
• September 9 (Both)	• October 28 (Michigan)
• September 16 (Michigan)	• November 4 (Both)
• September 23 (MSU)	• November 18 (MSU)
• September 30 (MSU)	• November 25 (Michigan)
• October 7 (Michigan)	
 5. No more than 1 lane closure, maximum 3 miles in length, will be permitted, unless approved by the engineer.
 6. Restrict access between traveled lanes and work areas to specific locations for construction vehicles. The number of access points and their locations requires the approval of the Engineer. If requested, the Contractor will be required to submit a "Work Zone Traffic Control Plan" to the Engineer, at the pre-construction meeting, in accordance with Section 104 of the Standard Specifications for Construction. The Engineer will have seven (7) calendar days to review the plan for acceptance or provide comments for plan revisions required to obtain acceptance. At a minimum, the Plan shall include the proposed ingress/egress locations for construction equipment and vehicles, traffic control devices that will be utilized to warn the motoring public of ingress/egress locations, and measures that will be taken to ensure compliance with the Plan. No work shall begin prior to acceptance of the "Work Zone Traffic Control Plan". Additional time required to obtain an accepted "Work Zone Traffic Control Plan" shall not be cause for delay or impact claims. All costs associated with obtaining an acceptable Plan, providing and executing all parts of the accepted Plan including required traffic control devices, or resolving an incomplete or unacceptable Plan shall be borne by the Contractor.
 7. Once work is initiated that includes any lane restrictions, that work shall be continuous until completed. A lack of work activity for more than 3 hours (with the exception of mainline concrete curing) will require the removal and replacement of lane restrictions at the Contractor's expense.
 8. The location and duration of equipment and materials stored in the right of way, public or private property shall be as approved by the Engineer.

9. Sign covers shall be placed over existing regulatory, warning and construction signs that are not applicable during construction.
10. Changes or adjustments in the temporary signs and maintaining traffic typicals provided may be necessary to fit field conditions as determined by the Engineer.

e. Traffic Control Devices.

1. General

- A. All traffic control devices and their usage shall conform to the most current edition of the Michigan Manual of Uniform Traffic Control Devices (MMUTCD) specifically part 6, which is available on the Traffic and Safety Support Area web site www.michigan.gov/tands.
- B. During non-working periods, any work site with uncompleted work shall have applicable advance warning signs and channelizing devices, at specific locations, as directed by the Engineer, at no additional cost to the Department.
- C. The Contractor shall be required to drive through the Construction Influence Area at a minimum at the beginning and end of each work day to ensure all traffic control devices remain properly installed.
- D. All items used for maintaining traffic, which include but are not limited to temporary signs, plastic drums, and Type III barricades, must meet the “**acceptable**” criteria as defined in the most current version of the ATSSA publication entitled “Quality Guidelines for Temporary Traffic Control Devices and Features” at the time of initial deployment and as needed throughout the project.

2. Temporary Signs

- A. Refer to the attached sheet M0020a for device spacing, taper/shift lengths, and buffer zones.
- B. Signing for the supplemental speed limit signs will be as shown on attached Figure M0100a.
- C. Signing for a single lane closure will be as shown on attached Figure M0990a.
- D. All temporary signs on this project will be on portable supports and must be laid down with the feet off when they are not applicable.
- E. Temporary traffic control devices shall be as shown on attached Special Detail WZD-125-E or shall be a NCHRP-350 compliant or MASH accepted design.
- F. All temporary signs shall be mounted at a 5 foot minimum bottom height in uncurbed areas and 7 foot minimum bottom height in curbed or pedestrian areas.

G. All temporary signs shall be faced with fluorescent prismatic retro-reflective sheeting.

H. Portable Changeable Message Signs (PCMS)

1. PCMS shall be used during the life of this project. The PCMS shall be used to inform traffic of upcoming work and changing traffic control during the life of the project and as directed by the Engineer. They shall be installed off the shoulder where possible with the wheels blocked up, and operated a minimum of 7 calendar days prior to the start of work. Each PCMS shall be delineated with 3 plastic drums. The drums shall be placed on the shoulder at an offset and alignment as directed by the Engineer.

2. Moving the PCMS's to multiple locations and displaying different messages will be expected through the life of the project. All messages and locations of the signs shall have the approval of the Engineer prior to displaying the message. All PCMS shall have the ability to change/update the message from a remote location. PCMS shall be turned off and removed from the roadway when not being used to display a message approved by the Engineer. Turning the sign parallel to traffic is not acceptable.

3. Sample messages include:

Daily	9 AM	Nightly	8 PM
Lane	Thru	Lane	TO
Closures	3 PM	Closures	7 AM

3. Channelizing Devices

A. Channelizing devices required shall be high intensity Plastic Drums.

B. If the right lane is closed in the vicinity of an entrance ramp and patch locations allow, the channelizing devices shall be arranged to allow the ramp the same acceleration taper to merge into the left lane as the ramp has during periods without construction. Channelizing devices shall have a maximum spacing of 25' in the tapers of ramps.

C. A miscellaneous quantity of 20 each of Plastic Drum, High Intensity, Furn & Oper are included to be used at the discretion of the Engineer.

f. **Measurement and Payment**-The estimate of quantities for maintaining traffic is based on signing and related traffic control devices for 2 single lane closure, and the description in this Special Provision. Payment for these devices shall be in accordance with the most current edition of the Standard Specifications for Construction unless otherwise specified.

1. Payment for temporary signs shall be made on the maximum square foot of sign legends in use at any one time during the project.

2. Any additional signing or maintaining traffic devices required to expedite the construction shall be at the Contractor's expense.

ESTIMATE OF TEMPORARY SIGN QUANTITIES
(for information only)

SIGN	MESSAGE	QTY.	inch x inch		Square Foot
W3-2	YIELD AHEAD Symbol	2	48	48	32
R1-2	YIELD	4	48	48	64
Sign, Type A, Temp, Prismatic, Furn/Oper			Total (Sft):		96

SIGN	MESSAGE	QTY.	inch x inch		Square Foot
E5-1	Exit with arrow symbol	2	72	60	60
R2-1	SPEED LIMIT 45	3	48	60	60
R2-1	SPEED LIMIT 60	3	48	60	60
R2-1	SPEED LIMIT 70	2	48	60	40
W3-5b	REDUCED SPEED ZONE AHEAD	2	48	48	32
W4-2 (R)	Rt Channelizing Symbol	2	48	48	32
W4-2 (L)	Lt Channelizing Symbol	2	48	48	32
W20-1	ROAD WORK AHEAD	4	48	48	64
W20-5 (R)	RIGHT LANE CLOSED AHEAD	2	48	48	32
W20-5 (L)	LEFT LANE CLOSED AHEAD	2	48	48	32
Sign, Type B, Temp, Prismatic, Furn/Oper			Total (Sft):		444

Maintaining Traffic Devices**Quantities**

8120140	Lighted Arrow, Type C, Furn	1	ea
8120141	Lighted Arrow, Type C, Oper	1	ea
8120160	Ltg for Night Work	1	LS
8120170	Minor Traf Devices	1	LS
8120180	Mobile Attenuator	1	ea
8120250	Plastic Drum, High Intensity, Furn	200	ea
8120251	Plastic Drum, High Intensity, Oper	200	ea
8120310	Sign Cover	5	ea
8120330	Sign, Portable, Changeable Message, Furn	1	ea
8120331	Sign, Portable, Changeable Message, Oper	1	ea
8120340	Sign, Type A, Temp, Prismatic, Furn	96	sft
8120341	Sign, Type A, Temp, Prismatic, Oper	96	sft
8120350	Sign, Type B, Temp, Prismatic, Furn	444	sft
8120351	Sign, Type B, Temp, Prismatic, Oper	444	sft

**CONTRACT # 18-21
HOT MASTIC ASPHALT REPAIRS**

Bid Form

70,000 LB. ESTIMATED QUANTITY

Price per pound: \$ _____

Indemnification: Contractor agrees to hold harmless and indemnify the Michigan Department of Transportation and the Ionia County Road Commission as well as their officers, agents and employees, against all claims, suits, and judgments to which the commission, its commissioners, or employees may be subject and for all costs and actual attorney fees which may be incurred arising out of any injury to persons or damage to property, including property of the commission, whether due to negligence of the contractor or the joint negligence of the contractor and the commission, arising out of the work specified in this proposal, or in connection with work not authorized in this proposal, or resulting from failure to comply with the terms of this proposal. Contractor will not be obligated to indemnify the Ionia County Road Commission for any injury or property damage arising out of the sole negligence of the Ionia County Road Commission, its officers, agents, or employees.

Authorized Signature

Date

Print Name / Title

Phone Number

Company Name

Fax Number

Address

Cell Phone Number

City, State, ZIP

Email address