



**CITY OFFICE**  
2052 County Road 24, Medina, MN 55340-9790  
**ADMINISTRATION | PLANNING & ZONING | PUBLIC WORKS**  
p: 763-473-4643 f: 763-473-9359  
e: [city@medinamn.gov](mailto:city@medinamn.gov)  
**PUBLIC SAFETY**  
p: 763-473-9209 f: 763-473-8858

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January 3, 2023

**RE: Road Material and Equipment Bids**

To Whom It May Concern:

Because of the many paving projects planned to be complete in 2023, we are mailing bid packets earlier than normal this year.

Enclosed please find the Road Material and Equipment Bid document which includes specifications and documents for purchase of road materials and rental of certain pieces of construction equipment.

Sealed proposals will be received, publicly opened, and tabulated by the Medina City Clerk at 10:00 a.m. on Tuesday, January 31, 2023 and considered by the City Council at the February 7, 2023 meeting.

Electronic bids **will not be accepted** and will be deemed as invalid. All proposals shall be addressed to the City of Medina, **600 Clydesdale Trail**, Medina, MN 55340, shall be on the form included in the specifications furnished by the City, sealed and marked "Road Material Bids" on the outside of the envelope.

Copies of the specifications and proposals are on file with the City. No deposit or bid bond will be required. The City of Medina reserves the right to reject any and all bids and waive any informality therein.

For further information or questions regarding 2023 paving projects, please contact Public Works Director, Steve Scherer, at [steve.scherer@medinamn.gov](mailto:steve.scherer@medinamn.gov) or call 763-473-8842.

Sincerely,

Lisa DeMars  
Public Works Assistant

Enclosure



**SPECIFICATIONS AND DOCUMENTS**

**FOR**

**PURCHASE OF ROAD MATERIALS AND RENTAL  
OF CERTAIN PIECES OF CONSTRUCTION EQUIPMENT**

(Gravel, Crushed Rock, Sand, Road Oils, Recycled Aggregate, Bituminous Milling, Sealcoating, Reclaiming, Bituminous Patching Mixes, Curb Installation, Non-reinforced Concrete Flat Work)

**Bids to be submitted by 10:00 AM CST Tuesday, January 31, 2023**

Sealed bids will be received by the CITY OF MEDINA at their **PUBLIC WORKS** offices at **600 Clydesdale Trail**, Medina, MN 55340, until **10:00 AM CST on Tuesday, January 31, and opened publicly at 600 Clydesdale Trail, Medina, MN 55340** at that hour. The reading of bids will begin at 10:01 AM CST.

- All bids shall be on the form included in the specifications furnished by the City.
- All bids shall be sealed and marked "Road Material Bids" on the outside of the envelope.
- Electronic bids **will not be accepted** and will be deemed as invalid.

CITY OF MEDINA, MINNESOTA

JANUARY 2023



PROPOSAL

\_\_\_\_\_, 2023

Honorable Mayor and  
Members of the City Council  
City of Medina  
600 Clydesdale Trail  
Medina, MN 55340

SUBJECT: ROAD MATERIALS AND EQUIPMENT - CITY OF MEDINA

We, the undersigned, having examined specifications, instructions to bidders and any other necessary documents pertaining to subject project, do hereby propose to furnish and where noted deliver for the following prices. It is agreed that the prices stated below shall remain in effect until April 2024, or until such later date as may be mutually agreed upon.

The bidder must fill in the unit prices in figures.

\*DELIVERED PRICE TO INCLUDE MATERIAL AND DELIVERY UNLESS OTHERWISE SPECIFIED.

**\*ITEM NO. 1 - MN-D.O.T. SPNWB230B MIX**

Picked up at Contractor's Plant with City trucks at \$\_\_\_\_\_ per ton.

Delivered to site of road work in City of Medina in Contractor's trucks at  
\$\_\_\_\_\_ per ton.

\*\*Placed on City streets with Contractor's paver, roller, trucks, and crew at  
\$\_\_\_\_\_ per ton.

\*\*All placed materials will include tack oil.  
\*\*Length and width of paved area will vary.

*Payment and Performance Bond may be required (see page 9 for details) and shall be included in bid price. The Contractor is responsible traffic control within and immediately abutting the project and shall be included in bid price.*

**\*ITEM NO. 2 - MN-D.O.T. SPNWB330B MIX**

Picked up at Contractor's plant with City trucks at \$\_\_\_\_\_ per ton.

Delivered to site of road work in City of Medina in Contractor's truck's at \$\_\_\_\_\_ per ton.

\*\*Placed on City streets with Contractor's paver, roller, trucks, and crew at \$\_\_\_\_\_ per ton.

- \*\*All placed materials will include tack oil.
- \*\*Length and width of paved area will vary.

*Payment and Performance Bond may be required (see page 9 for details) and shall be included in bid price. The Contractor is responsible traffic control within and immediately abutting the project and shall be included in bid price.*

**\*ITEM NO. 3 - MN-D.O.T. SPWEB240B MIX**

Picked up at Contractor's Plant with City trucks at \$\_\_\_\_\_ per ton.

Delivered to site of road work in City of Medina in Contractor's trucks at \$\_\_\_\_\_ per ton.

\*\*Placed on City streets with Contractor's paver, roller, trucks, and crew at \$\_\_\_\_\_ per ton.

- \*\*All placed materials will include tack oil.
- \*\*Length and width of paved area will vary.

*Payment and Performance Bond may be required (see page 9 for details) and shall be included in bid price. The Contractor is responsible traffic control within and immediately abutting the project and shall be included in bid price.*

**\*ITEM NO. 4 - MN-D.O.T. SPWEB340C MIX**

Picked up at Contractor's Plant with City trucks at \$\_\_\_\_\_ per ton.

Delivered to site of road work in City of Medina in Contractor's trucks at \$\_\_\_\_\_ per ton.

\*\*Placed on City streets with Contractor's paver, roller, trucks, and crew at \$\_\_\_\_\_ per ton.

- \*\*All placed materials will include tack oil.
- \*\*Length and width of paved area will vary.

*Payment and Performance Bond may be required (see page 9 for details) and shall be included in bid price. The Contractor is responsible traffic control within and immediately abutting the project and shall be included in bid price.*

**\*ITEM NO. 5 - MN-D.O.T. SPWEA240B MIX**

\*\*Place on City trails with Contractor’s paver, roller, trucks, and crew at \$\_\_\_\_\_ per ton.

- \*\*All placed materials will include tack oil.
- \*\*Length and width of paved area will vary.

*Payment and Performance Bond may be required (see page 9 for details) and shall be included in bid price. The Contractor is responsible traffic control within and immediately abutting the project and shall be included in bid price.*

**\*ITEM NO. 6 – BITUMINOUS FINE MIX/SAND MIX**

Picked up at contractor’s plant with City trucks at \$\_\_\_\_\_ per ton.

Delivered to site of road work in City of Medina in Contractor’s trucks at \$\_\_\_\_\_ per ton.

**\*ITEM NO. 7 – AGGREGATE SHOULDERING PLACED (MnDOT 2118)**

\*\*Delivered to project site and placed on City street shoulders with Contractor’s equipment and crew at \$\_\_\_\_\_ per ton.

Mobilization fee (if applicable)  
\$\_\_\_\_\_

\*\*Approximate width of shouldering is 18 inches, thickness of 2-3 inches.

*Payment and Performance Bond may be required (see page 9 for details) and shall be included in bid price. The Contractor is responsible traffic control within and immediately abutting the project and shall be included in bid price.*

**\*ITEM NO. 8 – BITUMINOUS INTEGRAL CURB INSTALLATION (Bituminous for curb installation will be supplied in the bituminous quantities being placed at the time the curb is installed)**

Installation price per lineal foot \$\_\_\_\_\_

**\*ITEM NO. 9 – MILL BITUMINOUS SURFACE AT DEPTH PER SQUARE YARD (Including Milling Removal)**

\*\*Mill bituminous surface 0-2” depth  
\$\_\_\_\_\_ per square yard.

\*\*Mill bituminous surface 2-4” depth  
\$\_\_\_\_\_ per square yard.

\*\*Mill bituminous surface 4-6” depth  
\$\_\_\_\_\_ per square yard.

Mobilization fee (if applicable)  
\$\_\_\_\_\_

\*\* Length and width of paved area will vary.

*Payment and Performance Bond may be required (see page 9 for details) and shall be included in bid price. The Contractor is responsible traffic control within and immediately abutting the project and shall be included in bid price.*

**\*ITEM NO. 10 – MISCELLANEOUS MILLING SERVICES AT PER HOUR RATE**

Width of machine \_\_\_\_\_

Per hour rate \$ \_\_\_\_\_

Mobilization fee (if applicable)  
\$ \_\_\_\_\_

*Payment and Performance Bond may be required (see page 9 for details) and shall be included in bid price. The Contractor is responsible traffic control within and immediately abutting the project and shall be included in bid price.*

**\*ITEM NO. 11 – RECLAIM ROADWAY AT DEPTH PER SQUARE YARD**

\*\*Reclaim surface 0-2" depth  
\$ \_\_\_\_\_ per square yard.

\*\*Reclaim surface 2-4" depth  
\$ \_\_\_\_\_ per square yard.

\*\*Reclaim surface 4-6" depth  
\$ \_\_\_\_\_ per square yard.

Mobilization fee (if applicable)  
\$ \_\_\_\_\_

\*\* Length and width of paved area will vary.

*Payment and Performance Bond may be required (see page 9 for details) and shall be included in bid price. The Contractor is responsible traffic control within and immediately abutting the project and shall be included in bid price.*

**\*ITEM NO. 12A – SEAL COATING INSTALLED, Including Pre-Sweeping, CRS-2 Liquid Asphalt at .27 Gallons/Sq Yd, 1/8" Trap Rock at 25 lbs/Sq Yd, Area Rolled With Two Eleven Wheeled Pneumatic Tire Rollers and Excess Rock Pick Up and Disposal (May require two sweepings)**

- 0-25,000 Sq. yds.           \$ \_\_\_\_\_
- 25-50,000 Sq. yds.       \$ \_\_\_\_\_
- 50-75,000 Sq. yds.       \$ \_\_\_\_\_
- 75-100,000 Sq. yds.      \$ \_\_\_\_\_

\*\* Length and width of paved area will vary.

\*\* Exhibit A – Seal coating materials specification.

*Payment and Performance Bond may be required (see page 9 for details) and shall be included in bid price. The Contractor is responsible traffic control within and immediately abutting the project and shall be included in bid price.*



**\*ITEM NO. 12B – SEAL COATING INSTALLED, Including Pre-Sweeping, CRS-2 Liquid Asphalt at .30 Gallons/Sq Yd, FA2 Granite at 28 lbs/Sq Yd, Area Rolled With Two Eleven Wheeled Pneumatic Tire Rollers and Excess Rock Pick Up and Disposal** (May require two sweepings)

- 0-25,000 Sq. yds.           \$ \_\_\_\_\_
- 25-50,000 Sq. yds.       \$ \_\_\_\_\_
- 50-75,000 Sq. yds.       \$ \_\_\_\_\_
- 75-100,000 Sq. yds.      \$ \_\_\_\_\_

\*\* Length and width of paved area will vary.  
\*\* Exhibit A – Seal coating materials specification.

*Payment and Performance Bond may be required (see page 9 for details) and shall be included in bid price. The Contractor is responsible traffic control within and immediately abutting the project and shall be included in bid price.*

**\*ITEM NO. 13 – FOG SEAL INSTALLED, including CSS-1hD50 at .10 Gallons/Sq Yd,**

- 0-25,000 Sq. yds.           \$ \_\_\_\_\_
- 25-50,000 Sq. yds.       \$ \_\_\_\_\_
- 50-75,000 Sq. yds.       \$ \_\_\_\_\_
- 75-100,000 Sq. yds.      \$ \_\_\_\_\_

\*\* Length and width of paved area will vary.

*Payment and Performance Bond may be required (see page 9 for details) and shall be included in bid price. The Contractor is responsible traffic control within and immediately abutting the project and shall be included in bid price.*

**\*ITEM NO. 14 – CURB INSTALLATION – MN-D.O.T. D424**

- \*\*Remove and Replace (including Bituminous Patch)  
\$ \_\_\_\_\_ per lineal foot.
- \*\*Remove and Replace (Bituminous Patch by others)  
\$ \_\_\_\_\_ per lineal foot.
- \*\*New Installation  
\$ \_\_\_\_\_ per lineal foot.

\*\*Length and width of curb will vary.

*Payment and Performance Bond may be required (see page 9 for details) and shall be included in bid price. The Contractor is responsible traffic control within and immediately abutting the project and shall be included in bid price.*

**\*ITEM NO. 15 – CURB INSTALLATION – MN-D.O.T. B618**

\*\*Remove and Replace (including Bituminous Patch)  
\$ \_\_\_\_\_ per lineal foot.

\*\*Remove and Replace (Bituminous Patch by others)  
\$ \_\_\_\_\_ per lineal foot.

\*\*New Installation  
\$ \_\_\_\_\_ per lineal foot.

\*\*Length and width of curb will vary.

*Payment and Performance Bond may be required (see page 9 for details) and shall be included in bid price. The Contractor is responsible traffic control within and immediately abutting the project and shall be included in bid price.*

**\*ITEM NO. 16 – CURB INSTALLATION – RIBBON CURB – MN-D.O.T. 2531 - New Installation as maintenance strip around tennis court fence posts**

12" w x 5" Depth \_\_\_\_\_ per LF

18" w x 5" Depth \_\_\_\_\_ per LF

24" w x 5" Depth \_\_\_\_\_ per LF

*Payment and Performance Bond may be required (see page 9 for details) and shall be included in bid price. The Contractor is responsible traffic control within and immediately abutting the project and shall be included in bid price.*

**\*ITEM NO. 17 – NON REINFORCED CONCRETE FLAT WORK- MN-D.O.T. 3F52**

4" Thick \_\_\_\_\_ per sq. foot

6" Thick \_\_\_\_\_ per sq. foot

8" Thick \_\_\_\_\_ per sq. foot

**\*ITEM NO. 18 - ¾" MINUS CRUSHED LIMESTONE**

Delivered to site of road work in City of Medina in Contractor's trucks at  
\$ \_\_\_\_\_ per ton.

**\*ITEM NO. 19 - 1" MINUS (MN-D.O.T. 3138, CLASS 5) CRUSHED LIMESTONE**

Delivered to site of road work in City of Medina in Contractor's trucks at  
\$ \_\_\_\_\_ per ton.

**\*ITEM NO. 20 - 1 ½" MINUS CRUSHED LIMESTONE**

Delivered to site of road work in City of Medina in Contractor's trucks at  
\$ \_\_\_\_\_ per ton.

**\*ITEM NO. 21 - 1 1/2" CLEAN CRUSHED LIMESTONE**

Delivered to site of road work in City of Medina in Contractor's trucks at \$\_\_\_\_\_ per ton.

**\*ITEM NO. 22 - CLASS 5 CRUSHED RECYCLED MATERIAL - BITUMINOUS**

Picked up at Contractor's site with City trucks at \$\_\_\_\_\_ per ton  
Delivered to site of road work in City of Medina in Contractor's trucks at \$\_\_\_\_\_ per ton.

**\*ITEM NO. 23 - CLASS 5 GRAVEL**

Delivered to site of road work in City of Medina in Contractor's trucks at \$\_\_\_\_\_ per ton.

**\*ITEM NO. 24 - FA-1 (WINTER SAND)**

Delivered to site of road work in City of Medina in Contractor's trucks at \$\_\_\_\_\_ per ton.

**\*ITEM NO. 25 - 5/16" CLEAN CRUSHED LIMESTONE CHIPS**

Delivered to site of road work in City of Medina in Contractor's trucks at \$\_\_\_\_\_ per ton.

**\*ITEM NO. 26 - 3/16" CLEAN F.A. 3 GRANITE OR TRAP ROCK**

Delivered to site of road work in City of Medina in Contractor's trucks at \$\_\_\_\_\_ per ton.

**\*ITEM NO. 27 - CLASS 3 RIP RAP**

Delivered to site of road work in City of Medina in Contractor's trucks at \$\_\_\_\_\_ per ton.

THE CITY RESERVES THE RIGHT TO GO TO THE NEXT LOWEST BIDDER IF DELIVERY QUANTITIES ARE NOT SUFFICIENT. THE CITY DOES NOT ALLOW SINGLE TIRE TRAILERS ON THEIR ROADS. IT MAY BE REQUIRED ON CERTAIN JOBS THAT MATERIAL WILL NEED TO BE DELIVERED IN END DUMP TRAILERS.

**\*ITEM NO. 28 - TANDEM AXLE DUMP TRUCK WITH OPERATOR**

Box size \_\_\_\_\_ cubic yards      \$\_\_\_\_\_ per hour  
\$\_\_\_\_\_ Mobilization Fee (if applicable)

**\*ITEM NO. 29 - CRAWLER DOZER WITH OPERATOR**

Size of machine \_\_\_\_\_      \$\_\_\_\_\_ per hour  
\$\_\_\_\_\_ Mobilization Fee (if applicable)

**\*ITEM NO. 30 - CRAWLER LOADER WITH OPERATOR**

Size of machine \_\_\_\_\_ \$\_\_\_\_\_ per hour

\$\_\_\_\_\_ Mobilization Fee (if applicable)

**\*ITEM NO. 31 - CRAWLER BACKHOE WITH OPERATOR**

Bucket size \_\_\_\_\_ cubic yard \$\_\_\_\_\_ per hour

\$\_\_\_\_\_ Mobilization Fee (if applicable)

EQUIPMENT RENTAL ITEMS ARE NOT FOR EMERGENCY WATER OR SEWER REPAIR WORK. IF DIFFERENT SIZE MACHINES ARE AVAILABLE, PLEASE STATE SEPARATELY.

REMARKS OR QUALIFICATIONS

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

The undersigned bidder also agrees to enter into a contract with the Owner within ten (10) days after the Owner's acceptance of this proposal or any section or sections thereof.

In submitting this bid, it is understood that the right is reserved by the Owner to reject any and all bids, and it is understood that this bid may not be withdrawn within a period of 60 (sixty) days after the scheduled time for the receipt of bids.

Successful bidders shall provide the City with a copy of workers compensation and general liability insurance certificate. The successful bidder will be required to provide a payment and performance bond for any single project that exceeds \$50,000 in value or as directed by the Public Works Director. The cost of the bond shall be incidental to the unit price bid for the work. The successful bidder will be required to enter into a services agreement with the City for certain work as directed by the Public Works Director. A copy of the services agreement is on file with the City.

\_\_\_\_\_  
Company Name (Individual; Partnership; Corporation)

By: \_\_\_\_\_  
(Print Name) (Signature)

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

Phone: \_\_\_\_\_

**EXHIBIT A**

**BITUMINOUS SEALCOAT  
MATERIALS SPECIFICATIONS**

## TABLE OF CONTENTS

### INDEX

#### 2023 STREET MAINTENANCE MATERIALS SPECIFICATIONS

<b>1.00</b>	<b>Bituminous Sealcoat</b>	
1.01	Scope of Work	S-1
1.02	Inspection and Supervision	S-1
1.03	Specifications Which Apply	S-1
1.04	Starting Date	S-1
1.05	Completion Schedule	S-1
1.06	Coordination of Work	S-1
1.07	Preconstruction Conferences	S-2
1.08	Commencing Work	S-2
1.09	Traffic Control	S-2
1.10	Protecting Utilities and Property	S-3
1.11	Bituminous Sealcoat Material	S-3
1.12	Equipment	S-3
1.13	Calibration	S-4
1.14	Personnel	S-4
1.15	Road Surface Preparations	S-5
1.16	Rolling Operations	S-5
1.17	Sealcoat Application	S-5
1.18	Protection of Surface	S-5
1.19	Uniform Surface Appearance	S-6
1.20	Sweeping and Disposal of Excess Aggregate	S-6
1.21	Application of Blotting Material	S-6
1.22	Method of Measurement and Payment	S-6
1.23	Quantity Adjustments	S-6
1.24	Liquidated Damages	S-7
1.25	Emergency Response	S-7
1.26	Sampling and Testing	S-7
1.27	Conflict between Unit Prices and Extended Amounts	S-7
1.28	Guarantee	S-7

**1.00 BITUMINOUS SEALCOAT:**

**1.01 SCOPE OF WORK:** The work to be done under this contract includes the furnishing of all labor, materials, transportation, tools, supplies, plant equipment, etc., necessary for the complete and satisfactory construction and installation of sealcoating shown on the maps attached to these specifications.

**1.02 INSPECTION AND SUPERVISION:** The City Public Works Director, or their authorized representative, will provide the necessary inspection for all work under this contract taking place within the City of Medina. The Public Works Director may also designate a consulting engineer who may provide necessary inspection for all work under this contract. The Contractor shall give the City 48 hours notice prior to beginning work or resuming work on this project.

**1.03 SPECIFICATIONS WHICH APPLY:** The specifications of the Minnesota Department of Transportation "Standard Specifications for Construction," 2018 Edition (with all addenda and supplements as of the date of these specifications). Section 2356 "Bituminous Sealcoat" shall apply using English measurements, except as further modified in these Special Conditions as follows:

**1.04 STARTING DATE:** The target start date for this project shall be mutually decided by the Contractor and the City Public Works Director, or his designee.

**1.05 COMPLETION SCHEDULE:** All work under this contract shall be completed on or before September 8, 2023, except street sweeping. Liquidated damages (\$300/day) will be assessed if the work is not completed on time.

**1.06 COORDINATION OF WORK:** Throughout the project the Contractor shall coordinate his work with operations being carried out by City forces, utility companies and/or other contractors. Access shall be maintained as much as possible. The Contractor shall notify those affected of the periods of time that accesses must be closed.

The Contractor shall be required to secure a staging area, approved by the Public Works Director, prior to starting work.

The Contractor shall perform the work in a manner that will ensure completion within the time set in the contract. In case of failure to perform the work in such a manner, the City shall have the right to require the Contractor to place in operation such additional forces and equipment as deemed necessary.

**1.07 PRECONSTRUCTION CONFERENCES:** Prior to the start of any work, following execution of the contract, there will be a preconstruction conference arranged by the Medina Public Works Department.

**1.08 COMMENCING WORK:** The Contractor shall notify Public Works Director, Steve Scherer, of their intentions to commence work at least two days (excluding holidays and Saturdays and Sundays) prior to moving onto the work site. No work shall be started until the contract has been executed and the Contractor has fulfilled all preliminary requirements.

Also, prior to the start of any work, the Contractor shall submit to the Public Works Director for approval, a written time schedule, sequence of moves, and other pertinent information as required by the City of Medina Public Works Department.

**1.09** **TRAFFIC CONTROL:** All required maintenance of contract construction items shall be in accordance with the provisions of MnDOT 1404, 1514, and 1515 with the added stipulations.

The Contractor is responsible for maintenance, control, and safeguard of traffic within and immediately abutting the project in accordance with MnDOT Field Manual on Temporary Traffic Control Zone layouts. The Contractor is responsible for providing and maintaining all traffic control devices. The Contractor shall furnish, erect and maintain warning lights, temporary fence, and barricades as required to adequately warn and protect the public from hazardous protrusions, materials, excavations, etc., resulting directly or indirectly from the construction.

The Contractor shall provide all flaggers (minimum of two), barricades, signs, and other traffic control devices as required during the construction operations at no additional cost to the City. All traffic control devices shall conform to the Minnesota Manual on Uniform Traffic Control Devices. Signs shall be posted to limit speeds to maximum 20 mph. Signs, like MnDOT W21-2 in size (30" x 30") and color designating "Loose Rock" shall be posted at all access points to neighborhoods or streets where sealcoating is taking place. All signs are to be installed by the Contractor prior to sealcoating and removed by the Contractor within 48 hours after the streets are swept after sealcoating. Payment for installation of these provided signs shall be incidental to the work and no additional compensation will be paid.

Traffic control includes signing streets with temporary "No Parking for Street Maintenance" signs a minimum of 24 hours and a maximum of 36 hours before work is to begin. The maximum distance between signs shall be 500 feet with at least two signs per block. It is the responsibility of the Contractor to provide and install and remove temporary no parking signs. Efforts should be made to coordinate with residents and businesses the day before and early morning to keep the street clear of vehicles. Special care shall be taken to move vehicles that may be hit by bituminous material over-spray. The Contractor is responsible for any vehicle cleaning or repainting.

**1.10** **PROTECTING UTILITIES AND PROPERTY:** The Contractor shall furnish a person and materials to carefully cover manhole covers, catch basin grates and watermain valve box covers with suitable paper covers and sand immediately prior to applying bituminous material to those same structures. Directly after sealcoating, all material on the structures will be hand shoveled/swept to ensure that no material is placed on the seal coated street and that all material is removed from the structure. If structures are not covered and are seal coated over and cannot be opened easily, the Contractor shall be charged \$100.00/hour for time spent by City forces to open and clean these items.

The Contractor shall be responsible for protecting all property from damage due to drifting bituminous material and aggregate.

### **1.11 BITUMINOUS SEALCOAT MATERIAL:**

#### **CLASS "A" AGGREGATE SEALCOAT (STREETS, TRAILS AND PARKING LOTS)**

This work shall meet the requirements of MnDOT Specification 2356 for Bituminous Seal Coat with the following modifications:

Bituminous material will be emulsified asphalt, cationic, CRS-2 or polymer modified cationic CRS-2P and shall conform with MnDOT Specification 3151.

Aggregate material shall conform in composition to MnDOT Specification 3137 for Class "A" aggregate and to 3127 for gradation and quality for FA-2 and FA-2 (modified 1/8")



requirements. The base bid shall be all dresser trap rock. An alternate bid shall also be provided for all granite material.

Polymer material shall conform to MnDOT Specifications 3161 for coating and anti-stripping additives.

All materials shall comply with the most recent version of the MNDOT Specification. Materials found to fail testing and quality requirements as outlined in these specifications shall be paid at reduced prices for all materials represented by that sample as outlined in the MnDOT Specifications.

The sealcoat application range is:

- 1) Where FA-2 Class "A" is used, it shall be applied at a rate of 20-25 pounds per square yard with 0.26-0.28 gallons per square yard of CRS-2 or CRS-2P.
- 2) Where FA-2 (Modified 1/8") Class "A" is used, application rates shall be the same as FA-2 Class "A".
- 3) On older, more textured pavements, the inspector may adjust the application rate higher than the specified range for emulsion to provide proper aggregate chip embedment.

Bituminous seal material shall be applied at a rate as directed by the Engineer. Application rates will be determined based on the condition of each area to be sealed.

- 1.12** **EQUIPMENT:** Sweepers shall be "pick-up" type only, capable of non-streak sweeping and spray bar water applications for dust control. Minimum of one machine required on project throughout sealcoat application, and minimum of two machines required for excess aggregate pick up. Also, one tandem axle dump truck per sweeper required for hauling excess sweepings from project.

Asphalt distributor shall be two thousand (2000) gallon minimum capacity, capable of applying a 16 foot width of bituminous material at a computer calibrated rate of application. Minimum of two machines required.

Aggregate spreader shall be a self propelled type, capable of applying a 16 foot width of aggregate material at a calibrated rate of application.

Rollers shall be eleven wheel, self propelled, pneumatic tire type. Minimum of two rollers required. Each pneumatic-tired roller will have a total compacting width of not less than 60 inches and will have a minimum ground contract pressure of 80 psi.

- 1.13** **CALIBRATION:** The Contractor shall be required to demonstrate proof that the equipment being used is distributing aggregate and emulsion at the rates specified herein. Aggregate distribution rates shall be verified at each equipment setup location.

- 1.14** **PERSONNEL:** All assigned personnel shall demonstrate to the satisfaction of the Public Works Director or his designee, the ability to operate the piece of equipment to which they are assigned.

- 1.15** **ROAD SURFACE PREPARATIONS:** Patching and crack sealing of the streets designated for sealcoating, and adjustment of valve boxes and manhole castings will be performed by the City at no cost to the Contractor. Pre-sweeping of streets shall be completed by the Contractor

as part of this project with no additional payment made by the City. The sweeping operation shall provide a clean street prior to starting the sealcoat operation.

**1.16** **ROLLING OPERATIONS:** Complete the initial rolling within 2 minutes after applying the aggregate. Proceed at a recommended speed less than or equal to 8 km per hour (5 miles per hour) to prevent turning over aggregate. Make a minimum of three complete passes over the aggregate before continuing the operation. Roll the aggregate so the entire width of the treatment area is covered in one pass of all the rollers. The total compacting width of each pneumatic-tired roller shall exceed 1.5 m (5 ft).

**1.17** **SEALCOAT APPLICATION:** Furnishing, application, aggregate covering and curing shall be accomplished in accordance with MnDOT Specification 2356.

Starting times each morning during sealcoat application vary based upon weather conditions that day; i.e. humidity, temperature, etc.

In general, sealcoat operations shall be conducted only during the daylight hours when the air temperature is between 60°F and 95°F, when the relative humidity is less than 75%, and the road surface is dry. The City's field representative shall determine each day's starting time based upon those conditions.

Bituminous materials shall be placed at a temperature of 125°F to 185°F and at rates designated by the City's designee.

Cover aggregate shall be applied within 1 minute of the emulsified asphalt at a rate designated by the City's designee. The speed of the spreader will be such that the stones are not rolling over. The aggregate shall be spread in one operation in such a manner that an 8 inch strip of emulsified asphalt is left exposed along the longitudinal center to form a lap for succeeding applications of emulsion. If necessary, thin or bare spots in the spread of aggregates will be corrected by hand spreading or other methods subject to approval of the Public Works Director.

A clear straight line at the edge of the pavement next to the concrete gutter shall be maintained. All streets shall be seal coated to incorporate all adjacent radii as directed by the City's field representative. Application ends shall result in a straight continuous line.

**1.18** **PROTECTION OF SURFACE:** Concrete surfaces such as concrete curb & gutter sections, triangular sections, and cross gutters shall be kept clean from bituminous material so that aggregate does not build up and block drainage. The Contractor shall clean any concrete surface as required by the Public Works Department.

Sections of the streets shall be closed to traffic before the bituminous material is applied on the surface and no traffic shall be permitted on the sealed road surface until after all rolling has been completed and the bituminous material set to a degree satisfactory to the Public Works Department personnel and the material will not pick up on vehicle tires. All required flagmen, barricades, warning signs, traffic cones, and other traffic control devices will be the responsibility of the Contractor for the proper execution of the work. These traffic control devices shall be placed so as to effectively restrict traffic flow on the streets being surfaced.

At the preconstruction conference, the Contractor shall provide the Public Works Department with a plan indicating the devices and procedures to be utilized to protect the surface during bituminous cure. The Public Works Department may recommend changes to the plan and these changes shall be incorporated into the plan at no additional cost to the City.

- 1.19 **UNIFORM SURFACE APPEARANCE:** All areas to be seal coated shall have a uniform aggregate cover base on the specified application rate. This includes street intersection radius areas and any other special areas which may require special application procedures. When complete, there should be no flushing and/or bleeding at the surface and the finished sealcoat should have a uniform surface appearance.
- 1.20 **SWEEPING AND DISPOSAL OF EXCESS AGGREGATE:** Sweeping and re-sweeping will be done as directed by the Public Works Director and discussed at the pre-con meeting.
- 1.21 **APPLICATION OF BLOTTING MATERIAL:** The Contractor shall apply sand blotting material where bleeding is detected as directed by Public Works Director. There shall be no additional compensation for time or materials for blotting streets that bleed through.
- 1.22 **METHOD OF MEASUREMENT AND PAYMENT:** The unit price, on the basis of gallons for bituminous material and square yards for aggregate material, shall include the cost of all materials, equipment used, and other necessary work related to this project. The unit price, on the basis of gallons or square yards, shall include installation of bituminous material and aggregate material applied at the specified application rates. Measurement of square yard area of each street shall be done centerline to centerline. Radiuses at intersections are incidental. All other work shall be considered incidental to the project.

The volume of bituminous material (gallons) will be established by bills of lading of delivery tankers and by measurement of distribution trucks when necessary.

Payments (two) for this project shall be as follows (supersedes GC 24).

At Certified Substantial Completion - 95%  
At Certified Final Completion - Remaining 5%

Payments will be processed in the next available accounts payable cycle after certification. Final payment requires Contractor submissions - see Page 4.

Contractor will submit a separate itemized invoice to the City of Medina for the work performed. The City shall pay invoiced amounts directly to the Contractor.

- 1.23 **QUANTITY ADJUSTMENTS:** The City reserves the right to add or delete streets; adjusting quantities respectively, to equal a dollar amount budgeted for this type of street maintenance. Twenty-five percent (25%) shall be the maximum adjustment without possible adjustment to bid unit price.
- 1.24 **LIQUIDATED DAMAGES:** The Contractor guarantees that he/she can and will complete the work within the time limit stated in Contract Documents, or within the time as extended provided elsewhere in the Contract Documents. Inasmuch as the damage and loss to the City which will result from the failure of the Contractor to complete the work within the stipulated time will be most difficult or impossible of accurate assessment, the damage to the Owners for such delay shall be liquidated at a daily rate of \$300.00 for each calendar day, Sundays and holidays included, beyond the completion date as originally determined or as extended.

The liquidated damages shall not be considered a penalty. The City has the right to deduct and retain out of any money due, or to become due to the Contractor, the amount of liquidated damages accrued, and in case those amounts are less than the amount of liquidated damages, the Contractor shall pay the difference upon demand. The City shall not be deemed to have forfeited or waived its right to liquidated damages by permitting the Contractor to continue work on the project beyond the completion date, nor by assuming control of the Contractor's

obligations and completing the project as provided for in this contract, nor by terminating this contract as provided herein.

- 1.25**      **EMERGENCY RESPONSE:** During the contract period it may be necessary to have contracted work done on an emergency basis. The City shall have the right to require the Contractor, upon 24 hours notice (verbal or written), to respond to such request. In case of failure to perform the work, the City shall have the right to have other non-contractual forces complete requested work. All costs in excess of unit price bid shall be deducted from the Contractor's final payment.
- 1.26**      **SAMPLING AND TESTING:** All bidders shall furnish certification that materials furnished meet specification for both asphalt and aggregates. Said certifications shall be by an approved testing laboratory. The City reserves the right to make any further tests deemed necessary to insure work meets the required specification. Said tests are to be made at the Contractor's expense.
- 1.27**      **CONFLICT BETWEEN UNIT PRICES AND EXTENDED AMOUNT:** In the event of a conflict between the unit price written in a proposal and the product of that unit and the proposal quantity, the unit price will govern. Similarly, in the case of a conflict between a written incorrect total bid amount, the correct total will govern.
- 1.28**      **GUARANTEE:** As noted in the General Conditions, the Contractor shall guarantee the work for a period of one year from the date of final acceptance.

Unless otherwise approved by the City Public Works Director, warranty repair work for the sealcoat portion of the project shall be completed in full lane widths. Work shall be completed such that segments less than 100' in length shall be continuously covered until all areas requiring warranty work have been covered.