

**TOWN OF WATERTOWN  
WATERTOWN, CONNECTICUT**

**NOTICE OF BID**

**Aggregate Sealing of Public Roads  
Watertown Public Works Department**

Sealed bids are invited and will be received by the Purchasing Agent of the Town of Watertown at the office of the Purchasing Agent, Town Hall Annex, 424 Main Street, Watertown, Connecticut, until **11:00 a.m., Thursday, April 21st, 2016** at which time and place they will be publicly opened and read aloud for furnishing aggregate sealing of public roadways to the Town of Watertown.

The Information for Bidders, Form of Bid, Specifications, and other contract documents may be obtained or examined at the office of the Purchasing Agent, Town Hall Annex, 424 Main Street, Watertown, Connecticut 06795 or by accessing the Town of Watertown's website at <http://www.watertownct.org>. Proposals must be submitted on the forms provided and in a sealed envelope plainly marked "**Bid – Aggregate Sealing of Public Roads**".

To receive consideration bids must be in the hands of the Purchasing Agent or his authorized representative no later than the day and hour mentioned above.

The Purchasing Agent reserves the right to accept or reject any or all bids; to waive any informality; or to accept any bid deemed in the best interests of the Town of Watertown.

The Town of Watertown reserves the right to take into account the residency of bidders within the Town of Watertown and/or the location of the bidder's business within the Town of Watertown in awarding this bid.

All bids will be considered valid for a period of sixty (60) days.

Jason Warner  
Purchasing Agent  
Town of Watertown

**INFORMATION FOR BIDDERS**

**TOWN OF WATERTOWN  
WATERTOWN, CONNECTICUT 06795**

**Aggregate Sealing of Public Roads  
Watertown Public Works Department**

**BID OPENING: 11:00 a.m., Thursday, April 21st, 2016**

**PROPOSALS RECEIVED**

All bids must be in a sealed envelope and received prior to **11:00 a.m., Thursday, April 21st, 2016** at the office of the Purchasing Agent, 424 Main Street, Watertown, Connecticut 06795.

**PREPARATION OF PROPOSALS**

Proposals must be made upon forms contained herein. The blank spaces in the Proposal must be filled in correctly where indicated. The Bidder must state the prices for which he proposes to do each item of the work contemplated. In case of discrepancy where both words and the numerals are requested, the words shall govern. Ditto marks are not considered writing or printing and shall not be used. The Bidder shall sign his Proposal correctly. If the Proposal is made by an individual, his name, post office address and telephone number must be shown. If made by a firm, partnership, or corporation, the Proposal must be signed by an official of the firm, partnership, or corporation authorized to sign contracts, and must show the post office address and telephone number of the firm, partnership, or corporation. Failure to do so may disqualify the bid.

Each bid must be submitted in a sealed envelope bearing on the outside the name of the Bidder, post office address, and name of the project for which the bid is submitted. If forwarded by mail, the sealed envelope containing the bid must be enclosed in another envelope addressed to: The Purchasing Agent, Town Hall Annex, 424 Main Street, Watertown, CT 06795.

All information shall be entered in ink or by typewriter. Mistakes may be crossed out and corrections inserted before submission of your bid. The person signing the bid shall initial corrections in ink.

Corrections and/or modifications received after the closing time specified will not be accepted.

**SUBMISSION OF PROPOSALS**

All proposals and literature shall be submitted **IN DUPLICATE** on the proposal form, which is a part of these specifications.

Descriptive literature containing complete specifications must accompany each bid. If a bidder wishes to furnish additional information, more sheets may be added.

Adobe Acrobat® Reader is required to view electronic documents on-line. If you do not have Adobe Acrobat® Reader, you may download it for free from Adobe at <http://www.adobe.com/products/acrobat/readstep.html>.

Response summaries will be available online at <http://www.watertownct.org> on the day of the bid opening.

Responses delivered via fax are received subject to the following qualifications and limitations:

- The Town is not responsible for the confidentiality of the information transmitted.
- The Town cannot guarantee that its fax equipment will be operational and able to receive transmittals by a particular time and date. It is the Bidder's responsibility to ensure that quotations are received in their entirety and on time at the required location. It is recommended that vendors be advised to call immediately after transmitting a document electronically to confirm complete and accurate receipt by the Town. The Town assumes no liability in the event that a bidder's electronic transmission is not received by the Town in a timely fashion, or is not received either in its entirety or error-free.
- Bids transmitted electronically which have a bond requirement are subject to the same submittal requirements as those responses delivered via traditional means, such as mail or hand delivery, or as otherwise stipulated by appropriate authority.

### **INCURRING COSTS**

The Town of Watertown is not liable for any cost incurred for the preparation of proposals or submission of samples by the firms submitting proposals for the work requested in this bid document or request for proposals.

### **FAMILIARITY WITH THE WORK**

Each bidder is considered to have examined the work to fully acquaint himself with the exact existing conditions relating to the work and has fully informed himself as to the work involved and the difficulties and restrictions attending the performance of this bid. Failure to do so will not relieve a bidder of his obligation to furnish all aggregate sealing of public roadways as specified for the consideration set forth in this bid. The submission of a bid will be considered as conclusive evidence that the bidder has made such examination.

### **CONSIDERATION OF PRIOR SERVICE**

Previous performance, quality of service and merchandise will be considered.

### **ADDENDA AND INTERPRETATIONS & ALTERNATE PROPOSALS**

Addenda information will be available online at <http://www.watertownct.org>. Adobe Acrobat® Reader may be required to view this document. It is strongly suggest that Bidders check for any addenda a minimum of forty eight hours in advance of the bid deadline.

At the time of the opening of bids each Bidder will be presumed to have inspected the work and to have read and to be thoroughly familiar with all of the Contract Documents (including all addenda).

The failure or omission of any Bidder to receive or examine any form, instruction or document shall in no way relieve any bidder from any obligation in respect to his bid.

If any person contemplating submitting a proposal is in doubt as to the true meaning of any part of these specifications, he may submit a written request for an interpretation to the Purchasing Agent. No interpretations as to the meaning of the plans, specifications or other Contract Documents will be made to any Bidder orally.

Every request for such interpretation should be in writing addressed (duplicate copy) to the Town of Watertown, Purchasing Agent, 424 Main Street, Watertown, Connecticut 06795, and to be given consideration, must be received at least five (5) days prior to the date fixed for the opening of Bids. Any and all such interpretations and any supplementary instructions will be in the form of written Addenda to the Specifications which, if issued, will be mailed by Registered Mail with Return Receipt Requested to all prospective Bidders at the respective addresses furnished for such purposes, not later than three (3) days prior to the date fixed for the opening of bids. Failure of any Bidder to receive any such Addendum or interpretations shall not relieve any Bidder from any obligations under his bid as submitted. All Addenda so issued shall become part of the Contract Documents. Oral explanations will not be binding on the Town.

The specifications listed are to be interpreted as meaning the minimum acceptable by the Town of Watertown. Bidders are requested to submit quotations on the basis of these specifications. Alternative bids providing a broader scope and/or services than requested in these specifications may receive consideration providing such equipment and/or service is clearly explained. Any exceptions to the specifications requested herein must be clearly noted in writing and are to be included as a part of the bid proposal. If none are included it will be assumed that there are none.

Definition of the word "complete" means that each unit of the equipment proposed shall include all appurtenances, fasteners, parts, accessories, and services ordinarily catalogued.

An item equal to that named or described in the specifications may be furnished by the Bidder, except where expressly noted as "no substitutions." The naming of any commercial name, trademark, or other identification shall not be construed to exclude any item of any manufacturer not mentioned by name, nor limit competition, but shall establish a standard of equality only. An item shall be considered equal to the item so named or described if:

- It is at least equal in quality, durability, appearance, strength and design.
- It will perform at least equally the function imposed by the design for the work being contracted for or the material being purchased.
- It conforms substantially, even with deviations, to the detailed requirements for the item in the specifications.

The Bidder shall hold the Town of Watertown, its officers, agents, servants, and employees, harmless from liability of any nature or kind because of use of any copyrighted or uncopied compositions, secret process, patented or unpatented inventions, articles or appliances furnished or

used under this bid, and agrees to defend, at his own expense, any and all actions brought against the Town of Watertown or himself because of the unauthorized use of such articles.

### **QUOTATION LIMITATION**

Bidders shall offer only **ONE ITEM AND PRICE** for each line item bid. If an or equal item is to be bid, the bidder is to select the brand and model that meets or exceeds the specified item, and submit his bid for that item.

### **ESTIMATE OF WORK**

For bidding purposes, the work has been subdivided into unit price items. The quantities shown are to be considered as approximate only. The Purchasing Agent does not expressly or by implication agree that the actual quantity will correspond therewith, but reserves the right to increase or decrease the amount of any item or portion of the work as deemed necessary.

### **SAMPLES**

Samples of articles, when required shall be furnished free of cost of any sort to the Town of Watertown. Samples received may be retained by the Town for future comparison. Samples which are not destroyed by testing, or which are not retained for future comparison will be returned upon request at the bidder's expense.

### **WITHDRAWAL OF BID**

Bidders may withdraw their proposals at any time prior to the bid date. No agent/broker shall withdraw or cancel their proposal for a period of sixty (60) days after the bid closing date of **11:00 a.m., Thursday, April 21st, 2016**. The successful agent/broker shall not withdraw, cancel or modify their proposal.

### **POWER OF ATTORNEY**

Attorneys-in-fact who sign contract bonds must file, with each bond, a certified and effectively dated copy of their power of attorney.

### **SUBCONTRACTORS**

- Each bidder contemplating the use of any subcontractor shall submit a list of subcontractors as listed on the Bid Form.
- The apparent low bidder shall file with the Town of Watertown, within five (5) days after the date of bid opening, a complete list of the names and addresses of competent, responsible and qualified subcontractors who are actually to perform major portions of the work. This in no way restricts or limits the requirement that all subcontractors must be approved by the Town.
- Subcontractors listed on the Bid Form or those previously approved may not be changed without the approval of the Town of Watertown.

Local subcontractors, material suppliers, and labor in the Town of Watertown should be considered and sought insofar, as is practical in the performance of this project.

## **QUALIFICATION OF BIDDER**

In determining the qualifications of a bidder, the Town may consider his record in the performance of any contracts for similar work into which he may have previously entered; and the Town expressly reserves the right to reject the bid of such bidder if such record discloses that such bidder, in the opinion of the Town, has not properly performed such contracts or has habitually, and without just cause, neglected the payment of bills or has otherwise disregarded his obligations to subcontractors, suppliers, state or local codes, men or employees of subcontractors.

The Town may make such investigation as he deems necessary to determine the ability of the bidder to perform the work and the bidder shall furnish to the Town all such information and data for this purpose as the Town may request. The Town reserves the right to reject any bid if the evidence submitted by or the investigation of such bidder fails to satisfy the Town that such bidder is properly qualified, or that such bidder misrepresented material facts in the bid documents.

## **DISQUALIFICATION OF BIDDERS**

More than one proposal from an individual, firm, partnership, corporation, or an association under the same or different names will not be considered. Reasonable grounds for believing that any Bidder is interested in more than one proposal for the work contemplated will cause the rejection of all proposals in which such Bidder is interested. Any or all proposals in which such Bidder is interested will be rejected if there is reason for believing that collusion exists among the Bidders and all participants in such collusion will not be considered in future proposals for the same work. Proposals in which the prices are obviously unbalanced may be rejected. No Contract will be awarded except to competent Bidders capable of performing the class of work contemplated.

## **DELIVERY**

Inasmuch as this work concerns a needed public improvement, the provisions of this bid relating to the time of delivery, performance and completion of the work are of the essence of this bid. **Accordingly, the work must be done in July or August only.**

Time of delivery shall be stated as the number of calendar days following receipt of the Purchase Order by the Bidder to receipt of the goods or services by the Town of Watertown.

Prices quoted must include delivery to the Town of Watertown as specified on the Purchase Order. No charges will be allowed for parking, crating, freight, express or cartage unless specifically stated and included in this bid.

Time of delivery may be considered in the award.

## **PAYMENT**

The Town, after inspection and acceptance of workmanship, and in consideration of the faithful performance by the Bidder of all and singular his covenants, promises, and agreements contained herein, agrees to pay the Bidder for the full completion by him of the work embraced in this Contract, within (30) Thirty Days of the receipt of the final invoice. When subcontractors or

suppliers are utilized, the successful Bidder for this project shall be required to submit a Mechanics Lien Waiver, acceptable to the Town, with each progress payment and/or at time of final payment prior to any payment being made.

Time, in connection with any discount offered, will be computed from the date of delivery to the Town or from the date a correct invoice is received by the Town's Finance Department, if the latter date is later than the date of delivery.

Prices will be considered as **NET**, if no cash or payment discount is shown.

The successful bidder shall submit invoices to the following address:

Town of Watertown  
Watertown Public Works Department  
61 Echo Lake Road  
Watertown, CT 06795

**IT IS UNDERSTOOD AND AGREED THAT SHOULD A BID BE ACCEPTED, IT WILL AUTOMATICALLY BECOME THE CONTRACT OR AN ADDENDUM TO ANY CONTRACT AGREED UPON.**

Notification of the bid award will be made by issuance of a purchase order. Bidders are to list their bids on the appropriate attached sheets. Bidders may attach a letter of explanation. A clear notification should be made on the standard bid sheets at the appropriate point of explanation that there is a letter of explanation attached. All bids must be NET prices.

The successful bidder shall submit an itemized invoice to the Town of Watertown for the work as described herein.

The bidder shall be required to submit a Mechanics Lien Waiver, acceptable to the Town of Watertown, with each progress payment and at time of final payment prior to any payment being made.

At the time of award the successful bidder shall be required to supply the Town of Watertown a Certificate of Good Standing, certifying that the corporation is in fact a valid corporation and presently licensed to conduct business in the State of Connecticut.

### **SALES TAX**

Certain materials and supplies incorporated in the work of this project are exempt from Connecticut Sales Tax. The Bidder shall familiarize himself with current regulations of the State Tax Department. The tax on materials or supplies exempted by such regulations shall not be included as part of the bid. The Town will furnish the successful Bidder sales tax exemption authorization.

## **CARE AND PROTECTION OF PROPERTY**

The Bidder shall take particular care to avoid damages to all private and public property and to private or public improvements within the Town's right of way. He shall make good any damages to the satisfaction of the Town. There shall be no additional compensation for the repair or restoration of private or public property improvements.

## **COMPLIANCE WITH FEDERAL, STATE AND LOCAL CODES**

The Bidder shall be responsible for full compliance with any Federal, State and/or Local codes, laws, regulations and standards, as applicable.

## **AWARD**

The Town of Watertown reserves the right to accept or reject any bid to best serve its interests, or to hold the bids for sixty (60) days before decision.

The Town reserves the right to reject any and all bids (or any part thereof), to waive defects in proposals, or to accept any proposal deemed to be in its best interest.

**Exceptions will be considered to the specification provided, providing they are listed and fully explained on a separate page entitled "EXCEPTIONS TO SPECIFICATIONS"**

Each exception will be considered as to its degree of impact and total effect on the bid. The purchaser shall determine which (if any taken) exceptions are acceptable, and this determination shall be final.

The Town of Watertown reserves the right:

- To award bids received on the basis of individual items, or groups of items, or on the entire list of items.
- To reject any or all bids, or any part thereof.
- To waive any informality in the bids.
- The Town of Watertown reserves the right to take into account the residency of bidders within the Town of Watertown and/or the location of the bidders business within the Town of Watertown in awarding this bid.
- To accept the bid that is in the best interest of the Town of Watertown. The Purchasing Agent's decision shall be final.

## **INSURANCE**

### **A. General:**

The Bidder shall be responsible for maintaining insurance coverage in force for the life of the contract of the kinds and adequate amounts to secure all of the Bidder's obligations under the contract with an insurance company with an AM Best Rating of A - VII or better licensed to write such insurance in Connecticut and acceptable to the Town of Watertown.

The insurer shall provide the Town of Watertown with Certificates of Insurance signed by an

authorized representative of the insurance company(ies) prior to the performance of this contract describing the coverage and providing that the insurer shall give the Town of Watertown written notice at least thirty (30) days in advance of any termination, expiration, or any and all change in coverage.

Such insurance or renewals or replacements thereof shall remain in force during the Bidder's responsibility under this agreement.

The Bidder at his own cost and expense shall procure and maintain all insurance required and shall name the Town of Watertown, its employees, departments, boards, committees and commissions, as an additional insured on all contracts except Worker's Compensation and Professional Errors & Omissions coverage.

In order to facilitate this requirement for insurance, it is recommended that the bidder forward a copy of this exhibit to the bidder's insurance representative(s).

**B. Specific Requirements:**

**(1) Workers' Compensation Insurance**

The Bidder shall provide Workers' Compensation Insurance required by law and the Employer's Liability Insurance for at least the amounts of liability for Bodily Injury by accident of \$100,000 each accident; Bodily Injury by Disease each employee of \$100,000; Bodily Injury by Disease, policy limit of \$500,000.

**(2) Commercial General Liability Insurance**

The Bidder shall carry Commercial General Liability policy (Insurance Services Office Incorporated Form CG-0001 or equivalent). A per occurrence limit of \$1,000,000 is required. The Aggregate Limit will be not less than \$1,000,000.

**(3) Business Automobile Liability Insurance**

The Bidder shall carry Business Automobile Liability Insurance. (Insurance Services Office Incorporated Form CA-00001 or equivalent). A per occurrence limit of \$1,000,000 is required. "Any Auto" (symbol 1 or equivalent) is required.

**C. Hold Harmless & Subcontractor's Requirements:**

The Bidder shall require the same insurance that it is required to carry by the Town of Watertown to be carried by any subcontractors and independent contractors hired by the Bidder and to obtain Certificates of Insurance before subcontractors and independent contractors are permitted to begin work.

The Bidder shall require that the Town of Watertown, its employees, departments, boards, committees and commissions, be named as Additional Insured on all subcontractor's and independent contractor's policies before they are permitted to begin work.

The Bidder and all subcontractors and independent contractors and their insurers shall waive all rights of subrogation against the Town of Watertown, and its officers, agents, servants and employees for losses arising from the work performed by each on this contract.

The Bidder assumes and agrees to hold harmless, indemnify, protect and defend the Town of Watertown against any and all liability for injuries and damages to Bidder and to Bidder's employees, agents, subcontractors and guests, third parties or otherwise incident to or resulting from any and all operations performed by a contractor under any terms of this contract.

D. Other Data:

NOTE 1: If Bidder is only a vender shipping goods via Common Carrier only, General Liability is required.

NOTE 2: If Bidder is a Professional, Errors & Omission coverage will be required.

NOTE 3: The Town reserves the right to amend amounts of coverage required and the types of coverage provided based on work or service to be performed.

**OSHA 10 HOUR CERTIFICATION (To be included in all Public Works Project Bids)**

Proof of OSHA 10 Hour certification shall be submitted with certificate of insurance prior to the start of any construction activities. Workers not documented as having this certification shall not be allowed on the worksite, including any subcontractors.

**GUARANTEE**

The bidder shall unconditionally guarantee for a period of one (1) year from the date of acceptance, all materials, supplies, equipment, and services; including but not limited to its workmanship, delivery and installation. If within the guarantee period there are any defects or signs of deterioration the bidder shall repair, adjust or replace the item(s) to the complete satisfaction of the Town. These repairs, adjustments, or replacements are at the sole expense of the bidder and shall be made at such times that are agreeable to the Purchasing Agent so that it is least detrimental to instructional programs.

**PERMITS**

When required all licenses and permits for complying with any applicable Federal, State, and Municipal laws, codes, regulations in connection with the prosecution of the work shall be obtained by the Bidder, at no additional cost to the Town.

**NONDISCRIMINATION IN EMPLOYMENT**

The successful bidder shall agree and warrant that, in the performance of this contract, he will not discriminate or permit discrimination against any person or group of persons on the grounds of race, color, sex, religion, or national origin in any manner prohibited by State, Federal, County, or Municipal law. A certification of Nonsegregated Facilities and a Certification Regarding Equal Employment Opportunity shall be considered a part of this contract.

## **DISPUTE RESOLUTION**

1. Mandatory Negotiation.

The parties agree that they will attempt to negotiate in good faith any dispute of any nature arising under this agreement. The parties shall negotiate in good faith at not less than two (2) negotiation sessions prior to seeking any resolution of any dispute by any means under Dispute Resolution provisions contained herein below. Each party shall have the right to legal representation at any such negotiation session.

2. Mandatory Mediation.

Any dispute or question arising under the provisions of this agreement, which has not been resolved under the mandatory negotiation provision, shall be submitted to non-binding mediation before one (1) mediator agreed upon by the parties or appointed by the American Arbitration Association. Mediation proceedings shall take place at any suitable location in Watertown, Connecticut and shall be conducted in accordance with the rules and procedures of the mediation then applicable of the American Arbitration Association. If an independent mediator is agreed upon by the parties, said independent mediator shall establish the rules of such mediation. Each party shall pay one half of all costs and expenses of such mediation. The parties shall use their best efforts to reach a good faith resolution of said dispute within ninety (90) days after the commencement of the mediation proceedings. Any decision of the mediator shall not be binding upon the parties except by agreement of the parties.

3. Election to Begin Court Proceedings.

Provided the parties have completed the mandatory negotiation proceedings and the foregoing provisions with respect to mediation notwithstanding, if either party determines that mediation is not an appropriate means to settle any such dispute, such party shall have the right to commence judicial proceedings for the purpose of settling any such dispute.

## **MECHANICS LIEN WAIVERS**

The successful Bidder shall be required to submit a Mechanics Lien Waiver, acceptable to the Town of Watertown, with each progress payment, and/or at time of final payment, prior to any payment made.

For further technical or administrative information contact Jason Warner, Purchasing Agent at (860) 945-5260 or via email at [warner@watertownct.org](mailto:warner@watertownct.org).

**TOWN OF WATERTOWN  
WATERTOWN, CONNECTICUT**

**TECHNICAL SPECIFICATIONS**

**Aggregate Sealing of Public Roads  
Watertown Public Works Department**

Bidders Shall:

- Provide a list of equipment available for the project.
- Have at least five (5) years experience with aggregate sealing in the State of Connecticut.
- Provide a list of references for aggregate seals performed over the last five (5) years in the State of Connecticut.
- Provide manufacturer's certification of pavement fabric installer.

This work will be on a demand basis. The initial list of streets and approximate quantities are listed below. The actual streets and quantities to be done will be finalized just prior to the work. Any discrepancy between the listed quantity and the contractor's estimated quantity is to be brought to the attention of the town immediately. The price bid will remain in effect throughout the calendar year. The Town will make every effort to consolidate its demands to the same time period during the year to minimize mobilizations and demobilizations. For bidding purposes the contractor is to schedule all work to be done between June 30, 2014 and August 30, 2014.

Dinunzio Road between Sylvan Lake Road and Route 262 – 4,617 SY  
Frost Bridge Road between Sylvan Lake Road and Route 262 – 2,278 SY  
Ice House Road – 9,560 SY  
Bassett Road – 25,220 SY  
Ledgewood Road – 14,400 SY

**Aggregate Seal  
(Emulsified Asphalt)**

**Description**

**Base Bid**

Work shall consist of the furnishing one layer of 3/8 inch aggregate and liquid asphalt on pavement on designated roads throughout the Town of Watertown. Aggregate shall be purchased and delivered to stockpile locations designated by the Town in the vicinity of the work. The Town shall transport the aggregate from the stockpiles to the spreader. Traffic control shall be provided by the town. Rolling to be done by the Vendor. Sweeping of pavement prior to application of material will be done by the Town. Sweeping of loose aggregate after application shall be done by the Vendor and deposited at the former stockpile locations for pick-up and disposal by the Town.

## **Materials**

### **Aggregate**

Aggregate shall be clean, washed, crushed stone of uniform quality with a percent of wear of not more than 45 as measured by ASTM C131 (AASHTO T96). Aggregate shall be cubical in shape. Aggregate with a significant quantity of flat, elongated pieces shall not be used. The surface charge shall be negative. Aggregate shall meet the following gradation by washed sieve analysis (AASHTO T11):

<u>3/8 Inch Layer</u>	
<u>Sieve Size</u>	<u>% Passing</u>
1/2	100
3/8	5-100
#4	10-30
#8	0-10

### **Base Bid Asphalt**

Asphalt shall be PMCRS-2 (3% latex) cationic emulsion meeting all Connecticut DOT specifications (AASHTO M 140).

### **Alternate – Pretreatment of Aggregate**

#### **TREATED STONE**

Aggregate shall be crushed quarry stone free from dust, soft stone, or other contaminants, with the minimum of 70% of the stone having a fractured face. All stone shall satisfy a 40% minimum for the abrasion test. Aggregate shall be treated with emulsion specified by the Engineer prior to application with a bituminous material at the rate of 0.4% to 0.8% residual asphalt. Proper aggregate treatment shall be obtained by the use of a shafted pug mill with a digital readout belt scale.

#### **ASPHALT EMULSION**

AASHTO M 140 Grade MS-2 or RS-2, M 208 Grade CMS-2 or CRS-2, and M 316 CRS-2L. Polymer Modified Cationic Emulsified Asphalts.

**POLYMER ADDITIVE**

The polymer latex rubber additive shall be BASE Butonal NS198 or approved equal. It is required that the polymer additive be added at the emulsion colloid mill at the time of manufacture. The polymer additive shall be introduced at a rate of 2 – 3%.

Table 1 Styrene/Butadiene Copolymer Dispersion

<u>Item</u>	<u>Limits</u>
Solids Content (%)	63.0-65.0
pH	4.5-5.0
Brookfield Viscosity (RFT Spindle #3 at 20 RPM mPa-s)	250-2000
Bound Styrene (%)	24
Residual Monomer (%)	0.08 max
Specific Gravity	0.94
Weight/Volume (lb/gal) (Kg/L)	7.8 0.94

Hours of Work

The contractor shall base bids upon working between the hours of 6:30 a.m. and 2:30 p.m., Monday through Friday.

Alternate Overtime Hours

Contractor to indicate additional cost, if any, for extending hours of operation from 2:30 p.m. to 5:30 p.m., Monday through Friday.

**Construction Methods**

Base Bid

The pavement to be treated will be patched and swept by the Town. The Contractor is solely responsible for inspecting areas to be sealed and identifying any areas of concern prior to application.

The Vendor shall submit certified test results that all materials being used on the project meet the specifications.

The Vendor shall purchase the aggregate and provide for its transportation to stockpile locations designated by the Town.

Work shall be done in hot, dry weather at the end of the month of June or during the months of July or August. Air temperature shall be at least 50° F in the shade and rising. Pavement temperature shall be at least 70°F. No work shall be performed if there is a threat of rain within the next 48 hours or if the pavement is wet.

The asphalt distributor shall be equipped to insure the proper application rate and must have full circulating spray bars.

The residual asphalt shall be applied at the rate of 0.35-0.45 gal/s.

### **AGGREGATE PLACEMENT**

Prior to the placement of aggregate, the emulsion shall be applied at a rate of 0.35 – 0.45 gallons per square yard. The exact rate shall be determined in the field by taking into consideration the aggregate gradation, traffic quantity, traffic volume, and pavement condition.

The aggregate shall be spread uniformly by a self-propelled spreader at a rate of approximately 22 pounds per square yard for 3/8" stone. The exact rate shall be determined in the field by the Engineer to achieve a minimum amount of loose stone, while allowing for complete uniform coverage.

The application rate is dependent upon existing pavement texture and proximity and aggregate gradation. The rate is adjusted to provide us asphalt thickness that when the aggregate is spread and compacted into its densest position the voids between the aggregate particles are filled from two third to three quarters (2/3 – 3/4) deep with asphalt.

Asphalt shall be applied at a temperature of 125-185°F.

The Town shall transport the aggregate from the stockpile to the spreader.

Aggregate may be spread in a damp condition but shall not be wet.

The Vendor shall spread aggregate with a self propelled chip spreader equipped with a segregated screen immediately following the distributor. The chip spreader shall be operated by two (2) trained operators. In addition, the vendor will supply a ground crew to remove excess and cover missed areas.

Aggregate shall be spread at the rate 22 #/sy for the 3/8" stone, unless pavement texture warrants a higher application rate, the intent being to completely cover the asphalt with a layer of aggregate equal to the thickness of one aggregate particle. Aggregate shall be spread immediately behind the distributor.

Rolling shall be performed with a pneumatic, rubber tire, roller equipped with a wide-tread compaction tires capable of exerting an average of 60 to 90 pounds per square inch uniformly over surface to press aggregate into the asphalt. Every square yard of treated surface is to be rolled. Rolling shall immediately follow the application of the aggregate and shall continue until the aggregate is properly embedded and discontinued when the asphalt has set or when optimum embedment occurs. Rolling shall begin at the outer edge of the pavement and work towards the center with the previous passes overlapped by approximately one half the width of the front wheels.

Sufficient rollers shall be provided or the speed of the process shall be slowed to insure that compaction immediately follows the spreader.

Vendor shall sweep the work area to remove loose aggregate 3 days after the work is completed.

Sweepings shall be deposited at the stockpile locations for removal and disposal by the town.

Vendor shall provide a foreman for quality control and facilitation of the operation.

Areas not covered by the spray bar of the distribution shall not be “squeezed” but instead shall be hand sprayed using a hand wand from the distributor.

The Vendor is completely and solely responsible for the aggregate seal performance. Should a failure occur within one year of the work (loss of aggregate, flushing or bleeding of asphalt) Vendor shall return upon notification by the Town and correct the deficiencies to the Town’s satisfaction, which could include reapplication of aggregate seal beyond the failed areas if failure is probable in those areas at the sole discretion of the Town.

### **Method of Measurement**

#### Base Bid

This work will be measured for payment by the number of square yards of pavement sealed and accepted by the Town.

#### Alternate

Pretreatment of asphalt to this work will be measured for payment by the number of square yards of pretreated stone completed and accepted by Town.

#### Basis of Payment

This work will be paid for at the contract unit price per square yard for Aggregate Seal (Emulsified Asphalt) or pretreated stone (alternate) complete in place and accepted, which price shall include all equipment, sweeping, signage, traffic control, material, labor and work incidental thereto as specified herein.

Bids shall remain in effect for calendar year 2014.

## **TRAFFIC CONTROL DURING MAINTENANCE OPERATIONS**

The following guidelines shall assist field personnel in determining when and what type of traffic control patterns to use for various situations. These guidelines shall provide for the safe and efficient movement of traffic through work zones and enhance the safety of work forces in the work area.

### **TRAFFIC CONTROL PATTERNS**

Traffic control patterns shall be used when a work operation requires that all or part of any vehicle protrudes onto any part of a travel lane or shoulder. For each situation, the installation of traffic control devices shall be based on the following:

1. Speed and volume of traffic
2. Duration of operation.
3. Exposure to hazards.

Traffic control patterns shall be uniform, neat and orderly so as to command respect from the motorist.

In the case of a horizontal or vertical sight restriction in advance of the work area, the traffic control pattern shall be extended to provide adequate sight distance for approaching traffic.

If a lane reduction taper is required to shift traffic, the entire length of the taper should be installed on a tangent section of roadway so that the entire taper area can be seen by the motorist.

Any existing signs that are in conflict with the traffic control patterns shall be removed, covered, or turned so that they are not readable by oncoming traffic.

When installing a traffic control pattern, a Buffer Area should be provided and this area shall be free of equipment, workers, materials and parked vehicles.

## **TRAFFIC CONTROL DURING MAINTENANCE OPERATIONS**

### **PLACEMENT OF SIGNS**

Signs must be placed in such a position to allow motorists the opportunity to reduce their speed prior to the work area. Signs shall be installed on the same side of the roadway as the work area.

#### **Allowable Adjustment of Signs and Devices Shown on the Traffic Control Plans**

The traffic control plans contained herein show the location and spacing of signs and devices under ideal conditions. Signs and devices should be installed as shown on these plans whenever possible.

The proper application of the traffic control plans and installation of traffic control devices depends on actual field conditions.

Adjustments to the traffic control plans shall be made only at the direction of the Town Engineer or Highway Superintendent to improve the visibility of the signs and devices and to better control traffic operations. Adjustments to the traffic control plans shall be based on safety of work fences and motorists, abutting property requirements, driveways, side roads, and the vertical and horizontal curvature of the roadway.

The Engineer or Superintendent may require that the signing pattern be located significantly in advance of the work area to provide better sight line to the signing and safer traffic operations through the work zone.

Table I indicates the minimum taper length required for a lane closure based on the posted speed limit of the roadway. These taper lengths shall only be used when the recommended taper lengths shown on the traffic control plans cannot be achieved.

**TABLE I – MINIMUM TAPER LENGTHS**

<b>POSTED SPEED LIMIT MILES PER HOUR</b>	<b>MINIMUM TAPER LENGTH IN FEET FOR A SINGLE LANE CLOSURE</b>
<b>30 OR LESS</b>	<b>180</b>

## **TRAFFIC CONTROL DURING MAINTENANCE OPERATIONS**

### **PAVING OPERATIONS ON HIGHWAYS – WORK BY CONTRACTOR**

The town will determine the hours of the preparations and will coordinate the operations with other construction activities in the immediate area.

### **INSTALLING AND REMOVING TRAFFIC CONTROL PATTERNS**

Lane closures shall be installed beginning with the advanced warning signs and proceeding forward toward the work area.

Lane Closures shall be removed in the reverse order, beginning at the work area, or end of the traffic control pattern, and proceeding back toward the advanced warning signs.

## **TRAFFIC CONTROL DURING MAINTENANCE OPERATIONS**

Devices shall be positioned a sufficient distance prior to the workers or equipment being protected to allow for appropriate vehicle roll-ahead in the event that the device is hit, but not so far that an errant vehicle could travel around the device and into the work area.

### **TRAFFIC CONES**

Traffic Cones shall be fluorescent orange PVC with 6” and 4” white retro reflective collars. Traffic cones shall be 36” minimum in height and 12 lbs. minimum in weight with the following approximate dimensions: 14” square base, 2-1/4” top O.D., 10-1/2” bottom O.D.

## **Chip Seal 2016**

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	<b>Sqaure Feet</b>	<b>Sqaure Yard</b>
Dinunzio Road	41550	4617
Frost Bridge Road	20500	2278
Bassett Road	226980	25220
Ledgewood Road	129600	14400
Ice House Road	86040	9560
Subtotal	504670	56074

**PLEASE**

**IT IS A REQUIREMENT OF  
THIS BID THAT EACH  
PROPOSAL SUBMITTED  
MUST HAVE A DUPLICATE  
COPY ATTACHED.**

**YOUR COOPERATION IS  
APPRECIATED**

**TOWN OF WATERTOWN  
WATERTOWN, CONNECTICUT 06795**

**BID PROPOSAL**

**Aggregate Sealing of Public Roads  
Watertown Public Works Department**

**BID OPENING: 11:00 a.m., Thursday, April 21st, 2016**

**TO: *Jason Warner, Purchasing Agent  
Town of Watertown  
Town Hall Annex  
424 Main Street  
Watertown, CT 06795***

The undersigned, as bidder, agrees to furnish aggregate sealing of public roads as specified herein and declares that no person or persons, other than those named herein, are interested in this Proposal; that this Proposal is made without collusion with any person, firm, or corporation; that he has carefully examined the location of the proposed work; that no person or persons acting in any official capacity for the Town is directly or indirectly interested therein or in any portion of the profit thereof; and that he proposes and agrees, if this Proposal is accepted to provide all necessary equipment, tools, labor and deliver and to do all work and furnish all materials specified in the manner and time therein prescribed, and according to the requirements of the Town as therein set forth, and that he will take in full payment therefor, the following unit prices and lump sums, to wit:

FIRM \_\_\_\_\_  
Name

\_\_\_\_\_  
Street

\_\_\_\_\_  
City State Zip Code

NAME \_\_\_\_\_  
Please Print

TELEPHONE NUMBER \_\_\_\_\_

FAX NUMBER \_\_\_\_\_

EMAIL ADDRESS \_\_\_\_\_

SIGNED \_\_\_\_\_ DATE \_\_\_\_\_

**PROPOSAL**

<u>Description/Unit Price</u>	<u>Estimated Quantities</u>	<u>Computed Totals</u>
<b>Item #1. Stone Pretreatment (Alternate)</b> The unit price of _____ Dollars and _____ Cents (\$ _____ ) per square yard.	56,074 sq. yd.	\$ _____
<b>Item #2. 3/8" Aggregate Seal (Emulsified Asphalt)</b> The unit price of _____ Dollars and _____ Cents (\$ _____ ) per square yard.	56,074 sq. yd.	\$ _____
<b>Item #3. Alternate Overtime Hours</b> The unit price of _____ Dollars and _____ Cents (\$ _____ ) per square yard	unknown	_____ n/a
		<b>PROJECT TOTAL \$ _____</b>

**NOTE:** The Town reserves the right to eliminate any Item or portion of the work which it deems to be in its best interest.

Payment Terms \_\_\_\_\_

Time to Completion \_\_\_\_\_ Working Days



**RECEIPT OF ADDENDA**

**ADDENDUM #**

**SIGNATURE**

**DATE**

- |    |       |          |
|----|-------|----------|
| 1. | _____ | __/__/__ |
| 2. | _____ | __/__/__ |
| 3. | _____ | __/__/__ |
| 4. | _____ | __/__/__ |

NAME OF BIDDER: \_\_\_\_\_

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

PHONE NUMBER: \_\_\_\_\_

BY: \_\_\_\_\_ TITLE: \_\_\_\_\_  
(Please Print)

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

SIGNATURE: \_\_\_\_\_

**PROPOSED SUBCONTRACTORS**

FIRM \_\_\_\_\_  
Name  
\_\_\_\_\_  
Street  
\_\_\_\_\_  
City State Zip Code

CONTACT \_\_\_\_\_ TELEPHONE \_\_\_\_\_  
Please Print  
TYPE OF WORK TO BE PERFORMED \_\_\_\_\_

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FIRM \_\_\_\_\_  
Name  
\_\_\_\_\_  
Street  
\_\_\_\_\_  
City State Zip Code

CONTACT \_\_\_\_\_ TELEPHONE \_\_\_\_\_  
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TYPE OF WORK TO BE PERFORMED \_\_\_\_\_

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FIRM \_\_\_\_\_  
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Street  
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City State Zip Code

CONTACT \_\_\_\_\_ TELEPHONE \_\_\_\_\_  
Please Print  
TYPE OF WORK TO BE PERFORMED \_\_\_\_\_

\_\_\_\_\_

**REFERENCES**

**Please list a minimum of three references of similar work performed within the last three years.**

FIRM \_\_\_\_\_  
Name \_\_\_\_\_  
Street \_\_\_\_\_  
City State Zip Code

CONTACT \_\_\_\_\_ TELEPHONE \_\_\_\_\_  
Please Print  
TYPE OF WORK TO BE PERFORMED \_\_\_\_\_

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FIRM \_\_\_\_\_  
Name \_\_\_\_\_  
Street \_\_\_\_\_  
City State Zip Code

CONTACT \_\_\_\_\_ TELEPHONE \_\_\_\_\_  
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TYPE OF WORK TO BE PERFORMED \_\_\_\_\_

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FIRM \_\_\_\_\_  
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Street \_\_\_\_\_  
City State Zip Code

CONTACT \_\_\_\_\_ TELEPHONE \_\_\_\_\_  
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TYPE OF WORK TO BE PERFORMED \_\_\_\_\_

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