

TOWN OF LEBANON
2010 ROAD CHIP SEALING
INVITATION TO BID

The Town of Lebanon is seeking bids for chip sealing of approximately 5.17 miles of town road in various locations. Bid specifications are available at: www.lebanontownhall.org or at the Lebanon Town Hall, Office of the First Selectman, 579 Exeter Road, or by calling (860) 642-6100. Sealed bids will be accepted up until 4:45 P.M. on Tuesday, August 10, 2010 in the Office of The First Selectman. E.O.E.

The Board of Selectmen reserves the right to reject any and all bids.

Joyce R. Okonuk
First Selectman

TOWN OF LEBANON
2010 ROAD CHIP SEALING
BID SPECIFICATIONS

1. SCOPE OF WORK

- a. The Contractor shall furnish the labor, materials and equipment necessary to construct a single chip seal on Town roads utilizing trap-rock in the Town of Lebanon, Connecticut in accordance with these specifications and the directions of the Public Works Foreman.
- b. Sweeping prior to paving will be completed by the Town of Lebanon.
- c. Traffic control will be supplied by the Town of Lebanon.
- d. All bids shall be lump sum and submitted on the enclosed bid form. Bids shall be hand-delivered or mailed to the Town of Lebanon, Office of the First Selectman, 579 Exeter Road, Lebanon, Connecticut 06249 in a sealed envelope entitled: Att: Bids: Highway Chip Seal
- e. Deadline for bid submission is 4:45 PM on August 10, 2010.

2. SPECIFICATIONS

a. Materials

Liquid asphalt emulsion shall consist of anionic rapid setting asphalt emulsion (RS-2) or equivalent meeting all the requirements of ASTM specification D977 and AASHTO specification M140 or cationic rapid setting asphalt emulsion (CRS-2) or equivalent meeting all the requirements of ASTM specification D2397 and AASHTO specification M208. Asphalt emulsion shall be stored, handled and transported in accordance with the requirements of Construction Leaflet #21 (CL-21) published by the Asphalt Institute, and shall be transported and handled at a temperature between 150 and 170 degrees Fahrenheit. Emulsion shall be applied at the temperature, generally between 150 degrees and 170 degrees Fahrenheit, as specified by the Public Works Foreman.

Aggregate shall be a 3/8 inch broken stone consisting of clean, hard, tough durable fragments of rock of uniform quality throughout. It shall be free from detrimental quantities of thin, flat, soft or disintegrated pieces and shall be completely free of any mud, dirt, organic or other injurious material and shall meet the following size and gradation requirements as determined by ASTM test method D422:

Sieve size Range

1/2"	100%	passing by weight
3/8"	65-90%	passing by weight
# 4	0-8%	passing by weight
# 8	0-4%	passing by weight
#16	0-2%	passing by weight
#100	0-1.5%	passing by weight
#200	0-.75%	passing by weight

No aggregate shall be utilized in the work without the approval of the Town.

b. Construction Methods

- 1) Contractor shall apply asphalt emulsion to Town roads as directed by the Town and as specified herein. Application temperatures shall be as directed, generally between 150 degrees and 170 degrees Fahrenheit.
- 2) Enough emulsion shall be applied to the road surface so that the resulting chip seal has an effective emulsion depth of 30 to 50% of the height of the applied aggregate in place on the road. Emulsion depths less than 30% of the applied stone as observed 90 days after the completion of the work will not be acceptable. Emulsion depths greater than 50% of the applied stone may be acceptable as long as excessive bleeding does not occur.
- 3) Asphalt application shall be made by the Contractor using a liquid asphalt pressure distributor designed and operated to distribute the asphalt emulsion in a uniform spray without atomization, in the amount and between the limits of temperature specified.
- 4) It shall be equipped with a bitumeter having a dial registering feet of travel per minute. The dial shall be visible to the truck driver so he can maintain the constant speed required for application at the specified rate.
- 5) The pump shall be equipped with a tachometer having a dial registering gallons per minute passing through the nozzles. The dial shall be readily visible to the operator.
- 6) Means for indicating accurately the temperature of the asphaltic material at all times shall be provided. The thermometer well shall not be in contact with a heating tube.
- 7) The normal width of application of the spray bar shall be not less than 12 feet, with provision for the application of lesser width when necessary. A hose and spray nozzle attachment shall be provided for applying asphaltic material to patches and areas inaccessible to the spray bar.
- 8) The distributor shall be provided with heating attachments and the asphaltic material shall be circulated during the entire heating process.
- 9) The distributor shall also be equipped with a sampling valve in the bulkhead and full circulating spray bars with sufficient spare sections of spray bars to apply liquid asphalt in multiples of 2 feet and 2 squeegees for removing excess asphalt emulsion at stops and starts.
- 10) Contractor's pressure distributor shall be clean, free from dirt and well maintained. Town shall have the right to inspect the pressure distributor at all times and reserves the right to reject it and prohibit its use if it does not conform to these specifications.
- 11) Contractor shall provide qualified operators highly skilled in the operation of the distributor to operate same. Said operator shall apply emulsion and shall pay particular attention to maintaining a minimum distance between the distributor and the aggregate spreader.
- 12) Contractor shall supply a feeder truck to supply the asphalt distributor in so far as may be required to meet reasonable production standards.

- 13) If within 1,095 days of its application, any asphalt emulsion that has been applied by Contractor shows results unsatisfactory to the Town, the Town reserves the right to demand the replacement cost of said unsatisfactory asphalt emulsion (including all costs incurred in putting the road in satisfactory condition) be paid by the Contractor.
- 14) Aggregate must be slightly damp when applied. Aggregate shall be applied by means of a chip spreader as provided for below. Contractor shall be responsible for purchasing and hauling aggregate to the job site to be applied.
- 15) Contractor shall furnish a sufficient number of laborers to break down the piles of chips and cause the chips to be raked evenly over the roadway. Said raking shall be done with approved chipseal rakes.
- 16) Contractor shall spread aggregate on freshly applied asphalt emulsion in an accurate and workmanlike manner in accordance with these specifications and as directed by the Public Works Foreman.
- 17) Contractor shall provide qualified operators highly skilled in the operation of the aggregate spreader to operate same. The Contractor and his operator shall at all times coordinate the operation of the aggregate spreader with the operation of the pressure distance between the distributor and the aggregate spreader as directed by the Public Works Foreman.
- 18) Contractor shall roll the freshly spread aggregate surface with a pneumatic-tired roller (minimum 8 tons) making a minimum of one pass over all areas of the completed surface and as directed by the Public Works Foreman. Contractor shall provide one qualified operator skilled in the operation of the roller to operate same. Contractor shall coordinate the operation of the roller with the distributor and aggregate spreader so that all sections are rolled as soon as possible after the aggregate is spread.

3. Contractor's Obligations

The Contractor shall and will, in good workmanlike manner, do and perform all work and furnish all supplies and materials, machinery, equipment, facilities and means, except as herein otherwise expressly specified, necessary or proper to perform and complete all the work required by this contract within the time herein specified, in accordance with the provisions of this contract and said specifications and in accordance with the plans and drawings covered by this contract and any and all supplemental plans and drawings, and in accordance with the directions of the Town as given from time to time during the progress of the work. The Contractor shall observe, comply with, and be subject to all terms, conditions, requirements, and limitations of the contract and specifications, and shall do, carry on, and complete the entire work to the satisfaction of the Town.

4. Department of Public Works Authority

The Public Works Foreman or his authorized representative shall give all orders and directions contemplated under this contract and specifications relative to the execution of the work. The Public Works Foreman shall determine the amount, quality, acceptability, and fitness of the work and materials which are to be paid for under this contract and shall decide all questions which may arise in relation to said work and the construction thereof. The Public Works Foreman's estimates and decisions shall be final and conclusive, except as herein otherwise expressly provided. In case any question shall arise between the parties hereto relative to said contract or specifications, the determination or decision of the Board of Selectmen shall be a condition precedent to the right of the Contractor to receive any money or payment for work under this contract affected in any manner or to any extent by such question.

The Public Works Foreman shall decide the meaning and intent of any portion of the specifications and of any plan or drawings where the same may be found obscure or be in dispute. Any differences or conflicts in regard to their work which may arise between the Contractor under this contract and other contractors performing work for the Owner shall be adjusted and determined by the Public Works Foreman.

5. Payment

Contract bid amount shall be paid 95% upon completion and acceptance by the Town of Lebanon. The remaining 5% will be retained for ninety days until such time as the town has made a determination as to any defects in material or workmanship requiring repair. Upon satisfactory repair, the Town shall release the remaining 5% upon the approval and/or recommendation of the Public Works Foreman.

3. GENERAL CONDITIONS

1. Contractor receiving award must submit list of all sub-contractors being used for this project including name, address, and phone number. Sub-contractor must supply Town with three (3) references showing municipal chip sealing experience.
2. Contractor must provide list of all equipment being used on project. Machinery inspection will be required by the Town prior to start of paving.
3. Certificate of insurance, with a minimum coverage of one million dollars, must be submitted to the town following bid award, with Town of Lebanon included as an additional insured.
4. The Board of Selectmen reserves the right to reject any and all bids.
5. All bids shall be lump sum and submitted on the enclosed bid form. Bids shall be hand-delivered or mailed to the Town of Lebanon, Office of the First Selectman, 579 Exeter Road, Lebanon, Connecticut 06249 in a sealed envelope entitled: Att: Bids: Chip Sealing 2010
6. Deadline for bid submission is 4:45 PM on Tuesday August 10, 2010.
7. Projects to be completed within 30 days of contract signing.

**TOWN OF LEBANON
2010 ROAD CHIP SEALING**

<u>BID SUBMISSION</u>

	<u>Location</u>	<u>Miles</u>	<u>Lump Sum Bid</u>
A.	Church Road	Entire Length	\$ _____
B.	Brookview Drive	Entire Length	\$ _____
C.	Mack Road	Entire Length	\$ _____
D.	Dr. Manning Drive	Entire Length	\$ _____
E.	Gregory Road	Entire Length	\$ _____
F.	Geer Road	Entire Length	\$ _____

Total Miles 5.17

Total Bid \$ _____

Submitted by: _____ Phone: _____
[Please Print]

Company Name: _____
[Please Print]

Company Address: _____

Signature: _____ Date: _____

Telephone: _____ Email Address: _____