Town of Westminster

Chuck Lawrence, Highway Foreman
P.O. Box 147 Westminster, VT 0 5 1 5 8
802-722-4349 highways@westminstervt.org

Request for Chip Seal Bids

(Released March 14, 2024; Bids Due April 8, 2024 @ 2:00pm)

PROPOSAL OF _____ (hereinafter called

"BIDDER"), organized and existing under the laws of the State of _____,

doing business as _____.

The Town of Westminster, VT is accepting bids from Chip Seal Contractors for chip seal work as shown on the attached maps. The project includes 10% rubber chip seal, 3/8" stone application, traffic control and sweeping. The BIDDER hereby proposes to perform all work in accordance with the attached Scope of Work at the prices stated below.

SCOPE OF WORK

Item	Description	Quantity	Unit	Unit Cost	Total Cost
1	Chip Seal - 10% Rubber (3/8" stone)	39,000	SY	$	$
2	Performance Bond w/ 1-year warranty	1	LS	$	$
	(see attached spreadsheet for locations)				
	TOTAL:				$

NOTE: Refer to the attached specifications for further detail of pay item.
LS=Lump Sum; SY=Square Yard

NOTE 1: Final payments will be based on the actual work completed per the bid tabulation.

BIDDER hereby agrees to complete the work under the contract between August 1, 2024 and September 1, 2024. In the event the work is not completed by September 15, 2024, BIDDER agrees to pay as liquidated damages, the sum of four hundred ($400.00) dollars for each consecutive calendar day until work is complete, unless such delay is caused by the actions or inactions of the Town, or conditions reasonably determined to be out of the control of the Chosen Contractor.

SITE VISIT: A site visit will not be held, however the TOWN encourages the bidders to view the locations of the proposed chip seal work detailed herein.

By submission of the Bid, BIDDER certifies that bid has been arrived at independently, without consultation, commitment or agreement as to any matter relating to Bid with any other BIDDER or with any competitor.

Contractors shall furnish all supervision, technical personnel, layout, labor, materials, tools, appurtenances, equipment, traffic control, sweeping, erosion control, staging, disposal sites and

services, mobilization/demobilization, insurances, and services required to perform the work as described in this Request for Bid in the location shown on the attached map.

This work is intended for construction by a Contractor with prior chip seal experience. The Chosen Contractor shall list prior chip sealing experience and may be required to provide references demonstrating successful completion of similar work. The Chosen Contractor may be required to demonstrate that he or she consistently performs work using the highest quality of workmanship. The Chosen Contractor may be required to demonstrate that he or she owns or has access to the equipment required to perform this work.

BID DUE DATE: Sealed bids, clearly marked "**Westminster Chip Seal Bids**" on the envelope, must be received no later than **due date/time** at the following address:

Town of Westminster
Attn: Lou Bordeaux, Town Manager
3651 U.S. Route 5
Westminster, VT 05158

Note: UPS and FEDEX deliveries shall be confirmed by the contractor. Unsealed, late, emailed, or faxed Bids will not be accepted. The bid is anticipated to be awarded by the Town Select Board within the next two selectboard meetings (4/10/24 or 4/24/24).

The contract, if awarded, will be awarded to the least costly, best qualified and most responsible proposer. In determining the "least costly, best qualified and most responsible proposer," in addition to price, the following may be considered:

- The substantial performance of the proposer in meeting the specifications and other terms and conditions of the solicitation;
- The ability, capacity and skill of the proposer to provide the services required, and to do so within the time specified;
- The character, integrity, reputation, experience, financial resources and performance of the proposer under previous contracts with the municipality and elsewhere.

The Town reserves the right:
(1) to accept or reject any or all Bids in whole or in part and to accept other than the lowest price proposal;
(2) to amend, modify, or withdraw this Request for Bids;
(3) to require supplemental statements or information from bidders;
(4) to extend the deadline for responses to this Request for Bids;
(5) to waive or correct any irregularities in Bids received;
(6) to negotiate separately with one or more competing bidders; and
(7) to award the bid deemed in the best interest of the Town.
All bids, upon submission, become the property of the Town.

GENERAL CONSTRUCTION NOTES

- All material to be installed in accordance with manufacturer's specifications and instructions.
- The State of Vermont specifications shall be adhered to. Any reference to "Agency" or TOWN shall imply the Town of Westminster.
- It shall be the contractor's responsibility to comply with OSHA and VOSHA requirements, maintain a safe job site, and protect the safety of the public.

_____ _____
(Signature of Bidder & Date) (Title of Bidder)

_____ _____
(Contractor) (Street/P.O. Box)

_____ _____
(Town, State, Zip) (Phone # / fax#)

Competent Contract Supervisor: _____ years exp.____

Contractor shall list below the successful completion of similar projects:

1. _____

2. _____

3. _____

NOTE: Only submit Pages 1-3. Late bids will not be accepted.

Questions about this Request for Bid should be directed solely to Chuck Lawrence, Highway Supt (highways@westminstervt.org) or phone #802-289-3559. The cutoff date for contractor questions shall be 4:00pm on Thursday, April 4, 2024. The TOWN shall issue an Addendum if necessary, by 2:00pm on Friday, April 5, 2024. Attachments to this Request for Bids: Site location maps.

Scope of Work/Description of pay Items

Item#	Description of work
1	**Chip Seal - 10% Rubber (3/8" stone):** The road shall be swept clean prior to chip sealing and after the chip seal product has been rolled and set up. Flagging/traffic control shall be included as part of the chip seal cost. See attached calculation sheet for the square yards. • Westminster Heights 1 • Westminster Heights 2 • School Street • Kurn Hattin Road 1 • Westminster West Road (North) 7A: (beginning 1 mile south of the Town line, heading south for 2,640 LF; The Town may extend this further south depending on dollars available). Total Square Yards: 38,916 SY **USE 39,000 SY**
3	**Performance Bond w/ 1-year warranty:** This may be a bond or a written guarantee by a company with 20+ years of experience and financial backing.

CONTRACTOR'S LIABILITY INSURANCE:

1. The Contractor shall purchase and maintain such insurance as will protect them from claims set forth below which may arise out of or result from the Contractor's operations under the Contract, whether such operations be by itself or by any sub-contractor or by anyone directly or indirectly employed by any of them or by anyone for whose acts any of them may be liable.
   - Claims under Worker's Compensation disability benefit and other similar employee benefit acts;
   - Claims for damages because of bodily injury, occupational sickness or disease, or death of his employees, and claims insured by usual personal injury liability coverage;
   - Claims for damage because of bodily injury, sickness or disease, or death of any person other than his employees, and claims insured by usual personal injury liability coverage; and
   - Claims for damage because of injury to or destruction of tangible property, including loss of use resulting there from.
2. The insurance required by the above sub-paragraph shall be written for not less than the following minimum limits of liability:
   - Worker's Compensation: Statutory ($500,000/$500,000/$500,000)
   - Comprehensive General Liability:
     Bodily Injury: $1,000,000/$1,000,000 (Each Person/Each Occurrence)
     Property Damage: $100,000/$300,000 (Each Occurrence/Aggregate)
   - Comprehensive Automobile Liability:
     Bodily Injury: $1,000,000/$1,000,000 (Each Person/Each Occurrence)
     Property Damage: $100,000 (Each Occurrence)
   - Pollution Liability $1,000,000 (Aggregate)
3. Prior to commencing work, Contractor shall provide the Town with a Certificate of Insurance and amendatory endorsement naming the Town as an Additional Insured on the liability coverages.

ADDITIONAL CONTRACTOR REQUIREMENTS

The contractor must have the financial resources to obtain materials/equipment and supplies to complete the project and the necessary experience, organization, technical and professional qualifications, skills, equipment and facilities.

The Chosen Contractor will provide signage and traffic control during the completion of the chip seal. The road will not be closed during this process.

The chip sealing being proposed herein follows pavement surface work by other contractor. The Town will notify the chip seal contractor after the completion of the paving.

The Chosen Contractor shall be responsible for verifying dimensions, field conditions and determining all utilities (above and below ground) within the project limits, and to take necessary precautions to protect utilities during construction. Any discrepancies or Contractor questions shall be brought to the Town's attention before the start of construction.

All work performed by the Chosen Contractor shall comply with all federal, state, and local regulations and requirements. The Chosen Contractor shall review and understand all applicable environmental permits and ensure that all construction conditions are met. The Chosen Contractor shall provide erosion control at the new culvert ends.

The omission from the plans and/or specifications of express reference to any labor or materials

reasonably to be inferred there from and necessary for the proper execution of the work shall not relieve the Chosen Contractor from furnishing them of a kind in keeping with the general intent of the work.

No responsibility is assumed by the Town for omissions or duplications by the Chosen Contractor or his subcontractors due to real or alleged error in arrangement of matter in specifications or in notes on the drawings.

The TOWN shall decide all questions which may arise as to the quality, quantity, acceptability, fitness and rate of progress of the several kinds of work and materials to be performed and furnished under the contract, and shall decide all questions which may arise as to fulfillment of the contract on the part of the contractor. The Town's determination and decision shall be final and conclusive as to any and all issues which may arise under the contract.

The Chosen Contractor shall be solely responsible for repairing or paying to repair any damage to private or public property sustained during and as a result of construction activities to original condition.

Town of Westminster - Paving & Chip Seal Projects 2024

3/14/2024

				Base & Top		Type IV Shim		Type IV Overlay		III & IV	Chip Seal	*Milling
Sect	Location	Length (ft)	Ave Width	Depth(in)	TON	shim (in)	TON	overlay (in)	TON	Total TON	10% rubber	1"
1	Westminster Heights 1	2,640	24			0.50	200	0.00	0	200	7,040	
2	Westminster Heights 2	5,360	22			0.50	373	0.00	0	373	13,102	
3	School Street	2,850	22			0.10	40	0.00	0	40	6,967	
4	Kurn Hattin Road 1	1,980	23			0.50	144	0.00	0	144	5,060	
5	Kurn Hattin Road 5	4,000	23			0.00	0	1.00	582	582		10,222
6	Patch Road 1	1,320	23			0.00	0	1.00	192	192		3,373
7A	Westminster West Rd (N) 7A	2,640	23			0.00	0	0.00	0	0	6,747	
8		0	0			0.00	0	0.00	0	0	0	0
9		0	0			0.00	0	0.00	0	0	0	0
10		0	0			0.00	0	0.00	0	0	0	0
11		0	0			0.00	0	0.00	0	0	0	0
12		0	0			0.00	0	0.00	0	0	0	0
13		0	0			0.00	0	0.00	0	0	0	0
14		0	0			0.00	0	0.00	0	0	0	0
15		0	0			0.00	0	0.00	0	0	0	0
16		0	0			0.00	0	0.00	0	0	0	0
17		0	0			0.00	0	0.00	0	0	0	0
18		0	0			0.00	0	0.00	0	0	0	0
19		0	0			0.00	0	0.00	0	0	0	0
20		0	0			0.00	0	0.00	0	0	0	0
										TONS	SQ YDS	SQ YDS
	Miles	3.94							USE	1,531	38,916	13,596

10% ASPHALT RUBBER CHIP SEAL

This specification covers requirements for materials, manufacture and application of crumb rubber polymerized asphalt to be used as a surface treatment. The specification shall consist of an application of a combined reacted mixture of hot paving grade asphalt and ground rubber followed immediately with a cover material.

1.0 BASE MATERIALS

1.1 Asphalt Cement

Asphalt cement for the RPM mixture shall be PG 58-28 or PG 64-28 complying with the requirements of appropriate state or local specifications. The grade selected shall be based on laboratory testing by the RPM supplier.

1.2 Anti-stripping Agent

If required by the job mix formula to produce appropriate water resistance, an anti-stripping agent that is heat stable and approved for use by the Agency shall be incorporated into the RPM material at the dosage required by the job-mix formula (up to 1.0% by weight of asphalt). It shall be added to the asphalt cement prior to blending with the granulated rubber.

1.3 Rubber

The granulated rubber shall be a vulcanized rubber product from the ambient temperature processing of scrap, pneumatic tires. The granulated rubber shall meet the following gradation: no substitutions will be accepted.

Sieve Size	% Passing
2.00 mm, (#10)	100
1.18 mm, (#16)	90 – 100
0.60 mm, (#30)	25 – 75
0.18 mm, (#80)	0 – 20

The use of rubber of multiple types from multiple sources is acceptable provided that the overall blend of rubber meets the gradation requirements. The length of the individual rubber particles shall not exceed 3mm (1/8”). The rubber shall be accepted by certification from the rubber supplier.

1.4 Aggregate

The aggregate shall conform tot he requirement of appropriate state or local specifications for crushed stone. Crushed gravel stone will not be permitted. Percentage of wear as determined by the Los Angeles Abrasion Test (AASHTO-T96) shall be a maximum of 30. The aggregate shall be pre-heated to a temperature between 93°C and 149°C, (200°F and 300°F) and be pre-coated with 0.4% – 0.8% (by weight of aggregate) of PG 58-28 or PG 68-28 asphalt cement prior to application. It is recommended that the gradation of the aggregate meet the following limits:

Sieve Size	Passing – Nominal Size 9.5 mm, (3/8”)
15.8 mm, (5/8”)	100%
12.5 mm, (1/2”)	100%
9.5 mm, (3/8”)	85 – 100%
4.75 mm, (#4)	0 – 25%
2.36 mm, (#8)	0 – 5%
0.30 mm, (#50)	0 – 2 %
0.075 mm, (#200)	0 – 2%

1.5 Materials Testing

A minimum of 60 days prior to construction the Agency or contractor (if RPM supplier is acting as a sub-contractor) shall send a representative sample of the asphalt cement and the aggregate proposed for use to the RPM supplier for testing. Testing for stripping and asphalt content to determine and assure that appropriate characteristics are achieved when blended with the granulated rubber will be performed.

2.0 CRUMB RUBBER POLYMERIZED MEMBRANE

2.1 Mixing and Reaction

The percent of rubber shall be 10% +/- 2% as indicated by the mixture design for specific project requirements by weight of total mixture, that is, by total weight of asphalt cement, plus granulated rubber. The exact granulated rubber content shall be determined by the mix design submitted by the RPM supplier and based on laboratory testing.

The temperature of the asphalt shall be between 154°C and 204°C, (310°F and 400°F), at the time of addition of the granulated reclaimed rubber. The asphalt and rubber shall be combined and mixed together in a blender unit and reacted in the distributor for a period of time as required by the mix design. The temperature of the asphalt RPM mixture shall be above 163°C, (325°F), during the reaction period.

2.1 Delays

When a job delay occurs after full reaction, the RPM may be allowed to cool. The RPM shall be re-heated slowly just prior to application, but not to a temperature exceeding 191°C, (375°F). An additional quantity of granulated rubber or additive not exceeding 2% by volume of the hot RPM mixture my be added after re-heating.

3.0 EQUIPMENT

3.1 Mechanical Blender

A mechanical blender for proper proportioning and thorough mixing of the asphalt-cement and granulated rubber is required. This unit shall be equipped with: an asphalt totaling meter (liters or gallons); a flow rate meter (liters per minute or gallons per minute); a positive displacement auger to

feed the rubber properly to mixing chamber at the specified rate; and a static motionless mixer. Blender will have a separate asphalt cement feed pump and finished product pump to maximized production. Blender shall be capable of providing 100% proportional mix at any given time during the blending cycle and documentation from the manufacturer, supporting this, shall be submitted to the awarding authority if requested.

3.2 Distributor Truck

On projects exceeding 31.8 metric tons, (35 tons), of liquid asphalt rubber, at least two pressure-type bituminous distributor trucks in good condition will be required. The distributor shall be equipped with an internal heating device capable of heating the material evenly up to 218 C, (425F); an internal mixing unit capable of maintaining a proper mixture of asphalt cement and granulated rubber; have adequate pump capacity to maintain a high rate of circulation in the tank and to spray the RPM at a viscosity of 30 – 2000 centipoise; have adequate pressure devices and suitable manifolds to provide constant positive cut-off to prevent dripping from the nozzles. Distributor shall be equipped with an electronically controlled computerized compensation unit for controlling application rates at various width and speed changes. The application unit shall have electronic controls and a digital read out installed and operated from inside the cab of the distributor. The distribution bar on the distributor shall be fully circulating. Any distributor that produces a streaked or irregular distribution of the material shall be promptly repaired or removal from the project.

Distributor equipment shall include a tachometer, pressure gauges, volume measuring devices, and a thermometer for reading temperature of tank contents. Controls for spray bar shall be located in cab of truck, for controlling width and rate of spray of product.

It shall be so constructed that uniform applications may be made at the specified rate per square meter with a tolerance of plus or minus 0.2 liters per square meter, (0.05 gal. /sq. yd). A “bootman” shall accompany the distributor and ride in a position so that all spray bar nozzles are in his full view and readily accessible for unplugging.

3.3 Hauling Equipment

Trucks for hauling cover material shall be rear discharge conveyor-fed or “live bottom” truck equipped with a device to lock onto the hitch at the rear of the chip spreader to prevent aggregate spillage.

Sufficient hauling vehicles should be available to ensure continuous operation of the distributor and chip spreader.

3.4 Aggregate Spreader

The aggregate spreader shall be hydrostatically driven and self propelled. It must be equipped with a hydraulically controlled variable adjustable head that is capable of spreading stone in widths form 1.2 to 4.9 meters, (4 to 16 feet). The spreader shall be mounted on pneumatic tires, and shall apply the

stone on the road surface in a manner that ensures that the tires do not contact the road surface until after the stone has been applied. The unit shall be equipped with an electronic radar type sensor used to measure ground speed and will automatically adjust the stone application rate depending on width of application and the speed of chip spreader. It shall have the ability to apply stone on any grade from 0 – 6%. The spreader shall be equipped with an integral hopper with a minimum capacity of 4.5 metric tons, (5 tons), of stone which shall be filled by trucks in a manner which ensures that the truck tires never come in contact with asphalt treated road surfaces until the stone has been properly applied. To maintain constant stone application, a self-locking truck hitch will permit towing of aggregate trucks without stopping the chip spreader. It will be capable of maintaining positive engagement over irregular terrain.

3.5 Pneumatic-Tired Roller

There shall be at least two self-propelled, multiple wheel, pneumatic-tired rollers which shall weigh between 6.5 and 10.9 metric tons, (7 and 12 tons), each roller shall have a total compacting width of at least 1.4 meters, (56 inches), have a minimum tire pressure of 414 kPa, (60 psi), and be equipped with a watering system.

3.6 Steel-Wheel Roller

One self-propelled, 2-axle (tandem) steel-wheel roller shall be used and shall weigh between 7.3 and 10.9 metric tons, (8 and 12 tons), and be equipped with scrapers, wetting pads and watering system. Combination pneumatic and steel drum-type rollers are acceptable, as one unit only.

4.0 CONSTRUCTION PROCEDURES

4.1 Preparation

Potholes, other areas of pavement failure, and major depressions in the existing pavement surface shall be repaired by the owner with asphalt concrete. A leveling course shall be place on planed, milled or existing surface by the owner, if required.

Immediately prior to application, the surface shall be thoroughly cleaned by sweeping. Contractor shall be responsible for covering all utility irons just prior to application and uncovering after aggregate is spread.

4.2 Seasonal and Weather Limitations

RPM shall not be applied when weather conditions are unfavorable to obtaining a uniform spread. Construction shall proceed only when the atmospheric temperature is at least 10 C, (50 F), and rising. No water shall be present on the road surface.

4.3 Application

The RPM shall be applied at a temperature of 150 C to 200 C (302 F to 392 F), at a rate of 1.4 – 1.8 liters / square meter (0.30 – 0.40 gal / square yard).

Exact rate to be determined by the aggregate gradation, traffic quantity and speed and pavement condition.

Longitudinal joints shall be reasonably true to line and parallel to centerline. Where any construction joint occurs the edges shall be broomed back and blended so there are no gaps and the elevations are the same, and free from ridges and depressions. Longitudinal joints shall be overlapped from 10.2 to 15.2 centimeters, (4 to 6 inches).

During application, adequate provision shall be made to prevent marring and discoloration of adjacent pavements, structures, vehicles, foliage or personal property.

4.4 Aggregate Application

The application of aggregate shall follow as close as possible behind the application of the hot RPM which shall not be spread further in advance of the aggregate spread that can be immediately covered. Construction equipment or other vehicles shall not drive on the uncovered RPM. The hot pre-coated aggregate shall be spread uniformly by a self-propelled spreader at a rate of spread directed by the Agency, generally between 13.6 and 16.3 kilograms per square meter, (25 and 30 pounds per square yard). Any deficient areas shall be covered with additional material.

4.5 Rolling

A minimum of three rollers shall be used for aggregate compaction into the hot RPM. Two of the rollers must be pneumatic-tired and the third must be steel-wheel. At some project locations or when production rates dictate, one less roller may be utilized as determined by the Agency and RPM supplier.

Rolling shall commence immediately following spread of aggregate. There shall be at least three coverages by the pneumatic tired rollers to embed the aggregate particles firmly in the RPM. A coverage shall be as many passes as are necessary to cover the entire width being spread with a pass being one movement of a roller in either direction. Additional coverage of the steel-wheel roller will follow if used. Water shall be applied to the tires or wheels as required to limit sticking of the RPM and aggregate to the rollers.

4.6 Sweeping

When the maximum amount of aggregate has been embedded in to the RPM and the pavement has cooled all loose material shall be swept or otherwise removed. This will be done at a time and in a manner, which will not displace any embedded aggregate or damage the new surface. Pre and post sweeping is the responsibility of the owner unless bid as a separate bid item.

4.7 Traffic Control

Traffic control is the sole responsibility of the awarding authority. Unless otherwise specified, the roadway shall be kept open to traffic at all times, with traffic discontinued on the lane being surface treated. Controlled traffic may be permitted as soon as the final layer is applied and rolled. A recommended maximum speed of 30 km/h, (20 mph), should be maintained for a period of two (2) hours.

5. PERFORMANCE

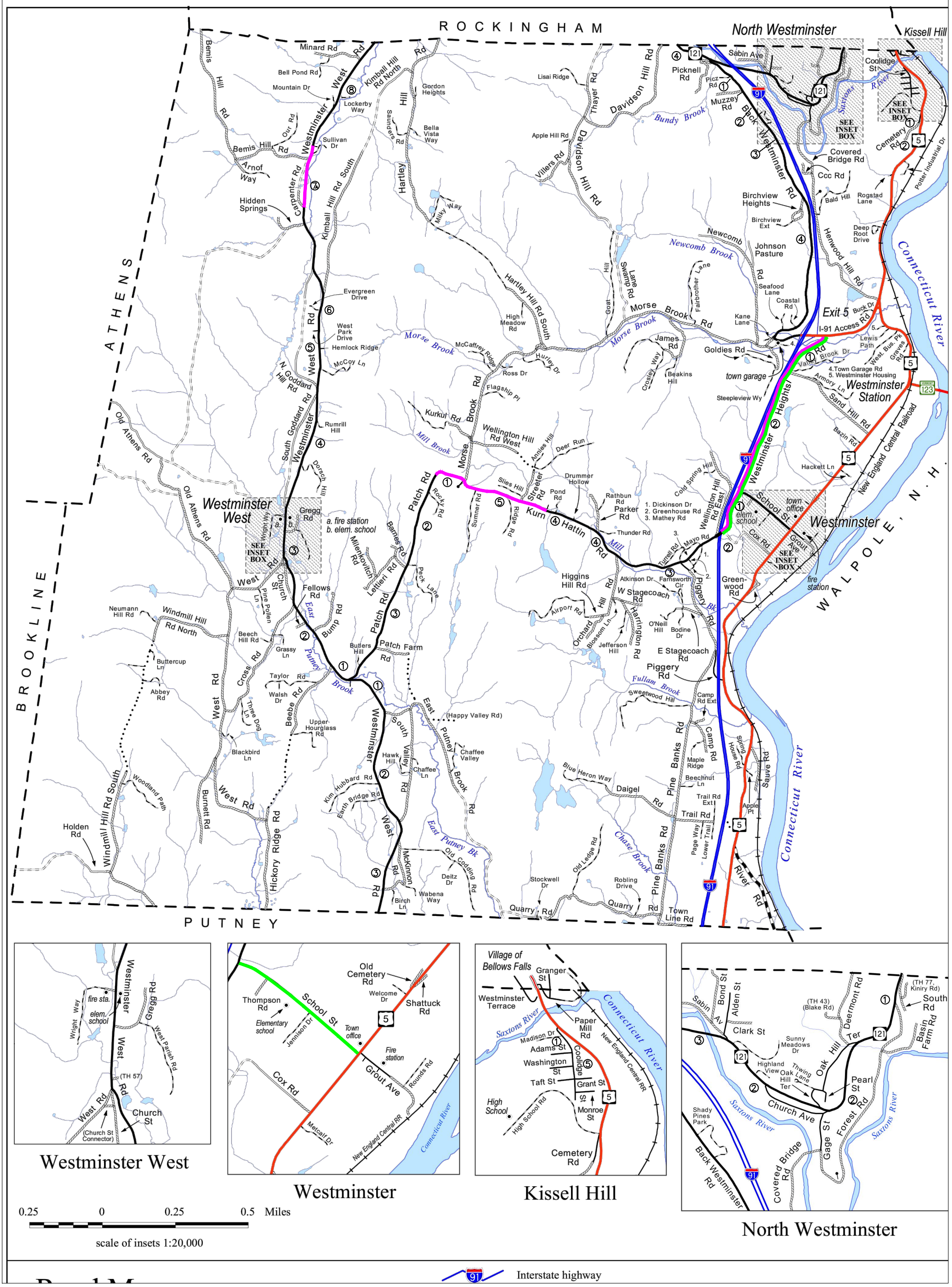
The awarding authority will not award this contract unless the Contractor furnished satisfactory evidence of his/her ability and experience to perform this work, and that he/she has sufficient capital and equipment to enable him/her to prosecute the work successfully and to complete it within the time named in the contract. The Contractor shall not sublet any portion of this contract, and will own all equipment used to complete such contract. As part of the bid, the Contractor must submit a list of six similar and successfully completed jobs, whose relevance to the proposed job shall be deemed by the awarding authority. The name, address, and telephone number of a contact person involved with each of these projects must be included so they can be investigated prior to the award of the contract. It will be the responsibility of each bidder to visit the job site with the Highway Superintendent. The Board of Selectmen can reject any bid of a contractor who has not visited the work site.

6. METHOD OF PAYMENT

Payment for work under this agreement shall be made at the contract unit price per square meter times the number of square meters, measured by the Contractor and the Director or his/her designee, of road surface treated. Price per square yard shall be for complete in place quantities. Upon completion of work, and acceptance by the Director, the Contractor shall submit a payment request to the Director. Payment shall be net thirty (30) days.

7. GUARANTEE

Any material or workmanship found to be defective for up to one (1) year from the date of acceptance by the Director shall be replaced by the Contractor at no cost to the awarding authority. Upon notification of defective material or workmanship, the Contractor shall immediately replace such defective areas.



Town of Westminster, VT

3651 U.S. ROUTE 5
WESTMINSTER, VT 05158

PAVING/CHIP SEAL 2024

revised	Description	Date

1

Project No.	WESTMINSTER_RSMS
Scale	NTS
Date	3/14/2024