



Request for Bids Pavement Markings RFB (2022-013) Town of Salem NH

SALEM PURCHASING

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Prepared for and in coordination with

SALEM MUNICIPAL SERVICES

ENGINEERING ♦ PUBLIC WORKS ♦ UTILITIES

GENERAL TERMS AND CONDITIONS

PREPARATIONS OF BIDS/PROPOSALS: Proposals shall be submitted on the forms provided and must be signed by the Bidder or his authorized representative. The person signing the proposal shall initial any corrections to entries made on the attached forms.

Vendors must provide pricing on all items appearing on the bid forms unless specific directions in the advertisement, on the bid form or in the special provisions allowed for partial bids. Failure to provide pricing on all items may disqualify the bid. Alternative bids will be considered, unless otherwise stated, only if the alternate is described completely, including, but not limited to, sample, if requested and specifications sufficient so that a comparison to the request can be made.

Any questions or inquiries must be submitted in writing, and must be received by the Purchasing Department no later than seven (7) calendar days before the Request for Proposal due date to be considered. Any changes to the Request for Proposal will be provided to all bidders of record.

The name of manufacturer, trade name, or catalog number mentioned in this request for bid description is for the purpose of designating a minimum standard of quality and type. Such references are not intended to be restrictive, although specified color, type of material and specified measurements may be mandatory.

Proposals will be considered for any brand that meets or exceeds the quality of the specifications listed. On all such proposals, the bidder shall specify the product they are proposing and shall supply sufficient data to enable a comparison to be made with the particular brand or manufacturer specified. Failure to submit the above may be sufficient grounds for rejection of the proposal.

SUBMITTED BIDS/PROPOSALS: Proposals must be submitted as directed in the Notice to Qualified Firms, and on the forms provided unless otherwise specified. Proposals must be typewritten or printed in ink. Proposals must be mailed or delivered in person. Proposals that are faxed or emailed will not be accepted.

WITHDRAWING BIDS/PROPOSALS: Proposals may be withdrawn prior to the opening date and time upon written request of the Proposer. Negligence on the part of the Proposer in preparing his/her proposal shall not constitute a right to withdraw a proposal subsequent to the proposal opening.

PROPOSAL EVALUATION:

The Town reserves the right to reject any and all proposals received for the following reasons including but not limited to:

- Fails to adhere to one or more of the provisions established in the proposal.
- Fails to submit its proposal at the time or in the format specified herein or to supply the minimum information requested herein.
- Fails to meet the minimum evaluation criteria specified in this proposal.
- Fails to submit its proposal to the required address on or before the deadline date established by the Town.
- Misrepresents its services, experience and personnel by providing demonstrably false information in its proposal or fails to provide material information.
- Fails to submit its cost on the enclosed bid form.
- Refuses a reasonable request for an interview.
- Refuses to provide clarification requested by the Town.

RECEIPT AND OPENING OF PROPOSALS:

Proposals shall be submitted prior to the time fixed in the Request for Sealed Bids/RFP. Proposals received after the time so indicated shall be returned unopened.

PROPOSAL RESULTS:

All sealed bids received will be considered confidential and not available for public review until after the bid opening is conducted. Bid and RFP openings will be scheduled and opened accordingly. Results will not be given over the phone. Please send your request in writing or send an email to gfaccaudio@salemnh.gov to receive sealed bid results after the public opening. All Bids, RFP's, and RFQ's will remain unofficial and if applicable confidential until the award has been posted on the Town website.

KNOWLEDGE AND EXPERIENCE: If and as requested per document, provide a description of the firm's knowledge and experience in the industry. Highlight your company's experience to provide the highest quality and effective product and reliable service and support.

REFERENCES: If and as requested per document, projects within the past ten years best illustrating current qualifications for this project.

AWARD OF CONTRACT: It is the policy of the Town of Salem, NH that contracts are awarded only to responsible bidders. In order to qualify as responsible, a prospective vendor must meet the following standards as they relate to this request:

- Have adequate financial resources for performance or have the ability to obtain such resources as required during performance.
- Have the necessary experience, organization, technical and professional qualifications, skills and facilities.
- Be able to comply with the proposed or required time of completion or performance schedule; and
- Have a demonstrated satisfactory record of performance.
- Adhere to the specifications of this bid and provide all documentation required of this bid.

The contract will be awarded to a responsive & responsible bidder based on best (lowest) cost first understanding the qualifications and experience of the bidder, the quality of the equipment/product /materials/services to be provided and the support that the bidder offers during the duration of the contract terms.

EXECUTION OF AGREEMENT:

The successful proposer shall sign (execute) the necessary agreements for entering into the contract and return such signed agreements to the town within ten (10) calendar days from the date mailed or otherwise delivered to the successful Proposer.

APPROVAL OF AGREEMENT:

Upon receipt of the agreement that has been fully executed by the proposer, the owner will complete the execution of the agreement and return the agreement to the contractor. The Agreement accompanied by a Town issued purchase order will be delivered to the contractor and will constitute a mutual approval and agreement by both parties to abide by the terms and conditions of the agreement.

FAILURE TO EXECUTE AGREEMENT:

Failure of the successful proposer to execute the agreement at the date and time agreed upon by the Town and the successful Proposer shall be just cause for cancellation of the award and forfeiture of all deposits.

CONTRACT TERMINATION:

If at any time the proposer fails to provide proper services during the contract period, the Town of Salem, NH will have the option to terminate the contract at any time without notice.

RIGHT TO REJECT BIDS: The Town reserves the right to reject any and all sealed bids, should the Town deem it to be in the best interest of the public.

INSURANCE CERTIFICATES:

Prior to award of this contract, the Contractor shall submit insurance certificates indicating coverage for all vehicles, public liability and property damage in the following amounts:

Comprehensive General Liability	\$1,000,000/\$ 1,000,000
Auto Liability: Property Damage	\$1,000,000/\$ 1,000,000
Personal Injury	\$ 1,000,000/\$ 1,000,000
Workmen's Compensation	as required by the State of New Hampshire

PRICING: Unless otherwise specified all prices listed are firm for the term of the contract. All prices should include all labor and material costs, and any discounts offered. All fuel surcharges, delivery charges and miscellaneous charges that are not part of the terms and conditions of this contract will only hold up payment if they are added to the submitted invoice.

INVOICING:

Invoices must be physically mailed and/or submitted (emailed invoices unacceptable) to Accounts Payable at:

Town of Salem
c/o Accounts Payable
33 Geremonty Drive
Salem NH 03079.

The invoice must include an itemization of all items, supplies, repairs, labor furnished, including unit list pricing, and net pricing, as identified in the bid award. The total amount due shall be clear and apparent on the invoice for proper payment. Payment terms are net thirty (30) days from the date of the invoice. General terms as allowable: Invoices received before the twentieth of each month should get processed for said month with payment available through said month check disbursement.

TAX:

The Town is exempt from all sales and federal excise taxes. Our exemption number is 026000817 Please Invoice less these taxes.

DELIVERY: Deliveries are to be made only to the department or division indicated on the order and in accordance with accepted commercial practices, without extra charge for packing or containers.

GUARANTEES AND WARRANTIES: All parts and labor related to agreements must be guaranteed and include a warranty. If any work is unable to be guaranteed, the contractor must inform the Town, in writing, prior to the delivery of an item or any work being performed.

FORCE MAJEURE: Neither party shall be liable for any inability to perform its' obligations under any subsequent agreement due to war, riot, insurrection, civil commotion, fire, flood, earthquake, storm or any other act of God.

POLICE DETAILS: Police Details shall be scheduled as required for safety, by and as required by Town, and will be paid by the Municipal Services Department. The Contractor shall coordinate and confirm work schedule with the Municipal Services Department, or the designee, discuss Police Detail, if approved, and if applicable, provide detail slips back to Municipal Services.

REQUEST FOR BIDS PAVEMENT MARKINGS

You are cordially invited to submit a proposal for Pavement Markings in accordance with the attached specifications, terms, and conditions listed in RFB 2022-013 Pavement Markings which can be obtained at <https://www.townofsalemnh.org/purchasing>. The Town of Salem NH is requesting qualifications from a Contractor for professional services to provide materials, equipment, and labor for work which will include but is not limited to the following: furnishing, placing, and painting: white or yellow retro-reflective paint pavement markings, long lines, skips, stencils, stop bars, crosswalks, symbols, and associated markings as requested. All work should be performed per NHDOT Specifications. This will be a three (3) year contract, 2022 – 2024. **All proposals/bids must be received by March 3, 2022, at 9:30 AM EST. Two (2) copies of the BID package must be submitted in a sealed envelope, plainly marked:**

**RFB 2022-013
Pavement Markings
Town of Salem
Purchasing Office
33 Geremonty Drive
Salem NH 03079**

INTRODUCTION

This work shall consist of furnishing, placing, and painting white or yellow retroreflective paint pavement markings, and associated items listed on the Bid Form. Any work through this contract shall meet Specifications in Appendix A. All materials, equipment and labor shall be furnished by the Contractor to complete the job as specified. The Town will reject any work it determines to be below the high standards of the industry. The Contractor shall be responsible for promptly repairing/replacing any work which is deemed unacceptable by the Town.

SCOPE OF WORK

All work to be done in accordance with the State of NH specifications for Road and Bridge Construction, latest edition, attached hereto in Appendix A. Section 632 “retro-reflective pavement marking” with the exception of section 632 (3.1.1.2) and (3.3) delete in its entirety. Your attention is directed to Section 632 (3.1.5) protection of work will be strictly adhered to during the work in progress. It is the contractor’s responsibility for all traffic control, including uniformed police if necessary. Town of Salem, NH personnel will be on the job site to supervise the work, to assure quality and quantity only, and are not responsible for traffic control in anyway. The Contractor will provide a Job Sheet for work performed identifying items and quantities. If for some reason the Town representative cannot receive the slip, it shall be the Contractor’s responsibility to get the slip to the administrative offices of Municipal Services – Public Works via email c/o Kim Babaian: kbabaian@salemnh.gov.

Scheduling will by mutual consent, and the Contractor must be able to meet appearances as expected with minimal impact of cancellation other than by weather or extreme circumstances. A

Town representative will be designated to communicate with the on-site Contractor representative as needed. Traffic control is by Contractor understanding proper placement of cones and or closing lanes so as to avoid confusion by the public moreover avoid unnecessary damage to paint. All work will be performed in the evening /early morning hours in order to impact traffic the least. The start/end time will be coordinated prior to scheduling for that day start/end times depend on the day of the week the work will be scheduled. In general, Work by Contractor is defined in ITEM(S) Bid Form. The Contractor shall supply all material, tools, equipment and labor to complete the work. Work shall be conducted in a neat and orderly fashion such that no damage occurs to adjacent property, pavement, curbing, landscape, driveways, etc., and does not significantly impact traffic or pedestrians.

BID AWARD

The Bid will be awarded to the lowest most qualified and responsive Contractor by the TOTAL BID amount on the Bid Form. The Bid is by unit price, linear feet or each, for items listed here:

- 4" Painted Yellow Long Lines
- 4" Painted White Long Lines (Mostly Gutter)
- 4" Painted Broken Lines (Skips)
- 4" Painted White (Handwork)
- Stop Bars
- Directional Arrows (Federal Specs)
- "ONLY" (8' Stencil Federal Specs)
- Crosswalks (12" White Line)
- "SCHOOL" (8' Stencil)
- Bike Symbols

The Alternates request will not be used for this award as the work may not occur at all. However if needed those prices and/or different Bidder than the Awarded Bidder may be utilized as warranted in the Town's best interest.

BID DELIVERABLES

- A. BID Sheet completed in full and correct. Each ITEM should be bid as one ITEM, by unit price, LINEAR FEET or EACH, i.e., **NOT** for the full estimated quantity times the unit price EACH. The TOTAL BID shall be a cumulative of the ITEMS 1 – 10 and the basis for developing best cost. Alternates Pricing is reserved for the Town's best interest and not the basis for this award.
- B. Acknowledgement Forms from APPENDIX B completed and signed accordingly.
- C. All proposals/bids must be received by March 3, 2022, at 9:30 AM EST.

BID FORM

ITEM	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE
1	4" Painted Yellow Long Lines	750,000	LF	\$
2	4" Painted White Long Lines (Mostly Gutter)	600,000	LF	\$
3	4" Painted Broken Lines (Skips)	3000	LF	\$
4	4" Painted White (Handwork)	1000	LF	\$
5	Stop Bars	100	EACH	\$
6	Directional Arrows (Federal Specs)	300	EACH	\$
7	"ONLY" (8' Stencil Federal Specs)	75	EACH	\$
8	Crosswalks (12" White Line)	50	EACH	\$
9	"SCHOOL" (8' Stencil)	25	EACH	\$
10	Bike Symbols	100	EACH	\$
TOTAL BID				\$

PLEASE SEE IMPORTANT NOTES BELOW WHEN CALCULATING TOTAL BID ABOVE

Contractor is responsible for reviewing APPENDIX A - SPECIFICATIONS to develop responsible BID.
 LUMP SUM BID per EACH ITEM is the full cost the Contractor will charge to complete one (1) LF (linear foot), each (or one) ITEM. NOT the Estimated Quantity times the LF/EACH cost.
 Estimated Quantity is expected but not guaranteed.
 All Bid Items are of an estimated quantity at indeterminate locations.
 Work shall be located primarily on main roads throughout town.
 Police Details will be ordered and paid by Town if applicable.

ALTERNATE PRICING BELOW REQUESTED BUT **NOT** USED IN CALCULATING BID AWARD.
 ALTERNATES BELOW ARE ITEMS THAT MAY BE REQUESTED BUT ARE NOT PART OF
 NORMAL OPERATIONS FOR BID WORK.

ITEM	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE
A1	THERMO - 4" Painted Yellow Long Lines	30,000	LF	\$
A2	THERMO - 4" Painted White Long Lines (Mostly Gutter)	20,000	LF	\$
A3	THERMO - 4" Painted Broken Lines (Skips)	250	LF	\$
A4	THERMO - 4" Painted White (Handwork)	250	LF	\$
A5	THERMO - Stop Bars	30	EACH	\$
A6	THERMO - Directional Arrows (Federal Specs)	30	EACH	\$
A7	THERMO - "ONLY" (8' Stencil Federal Specs)	10	EACH	\$
A8	Markings/Paint Removal	5000	LF	\$

APPENDIX A: NHDOT SPECIFICATIONS

SECTION 632 -- RETROREFLECTIVE PAVEMENT MARKINGS**Description****Materials**

- 2.1 Traffic Paint.
- 2.2 Glass Beads.
- 2.3 Permanent Tape.
- 2.4 Temporary Tape.
- 2.5 Preformed Thermoplastic.
- 2.6 Extruded.

Construction Requirements

- 3.1 General.
- 3.2 Retroreflective Pavement Marking Paint.
- 3.3 Preformed Retroreflective Pavement Marking Tape.
- 3.4 Retroreflective Thermoplastic Pavement Marking.
- 3.5 Obliteration of Pavement Markings.

Method of Measurement**Basis of Payment****Description**

1.1 This work shall consist of furnishing, placing and removing white or yellow retroreflective paint pavement markings, preformed retroreflective tape pavement markings, retroreflective thermoplastic pavement markings at locations shown on the plans or as ordered.

Materials**2.1 Traffic Paint.**

Traffic paint shall be prequalified for use. To prequalify a product, manufacturers shall supply a sample from each lot manufactured to the Bureau of Materials and Research for verification testing. Acceptable lots will be included on the Traffic Paint Batch List available at and maintained by the Bureau of Materials and Research. Final acceptance will be subject to testing of materials sample at the project. Each batch of paint delivered to the project shall be accompanied by a document issued by the supplier identifying the manufacturer, product, batch number and date of manufacture. Field sampling will be performed in accordance with NHDOT Test Procedure C1.

2.2 Glass Beads.

2.2.1 Glass beads shall conform to AASHTO M 247 and shall be Type 1 with a moisture resistant coating.

2.2.1 Glass beads shall not contain more than 200 parts per million arsenic or lead. A certificate of compliance, as required by [106.04](#), shall be provided to the Engineer upon delivery of the material to the project. The certificate of compliance from the manufacturer shall include the process, batch or lot number(s); corresponding date(s) of manufacturer; and a statement of the actual levels of arsenic and lead.

2.3 Permanent Tape.

2.3.1 Preformed retroreflective pavement marking tape for extended service life shall conform to ASTM D 4505, Retroreflectivity Level I or II, Adhesive Class 2 or 3, Skid Resistance Level A or B. Level I tape should be used when no external lighting source (i.e. overhead lighting) is present and Level II markings should be used when an external lighting source is present. The tape shall be a product listed on the [Qualified Products List](#).

2.4 Temporary Tape.

2.4.1 Retroreflective preformed pavement marking tape for limited service life shall conform to ASTM D 4592 Type I (Removable) or Type II (Non-removable). Type I tapes should be used in areas that require the tape to be removed in the future and Type II tapes should be used when the required service life of the tape is less than three months and can be left in place due to pavement overlay or other similar activity. Type I and II tapes shall have a minimum skid resistance of 45 BPN.

2.4.1.1 Type I shall be a product listed on the [Qualified Products List](#). Type II Tape shall be approved by the Engineer

2.4.2 Blackout pavement marking tape shall conform to ASTM D 4592 Type I (Removable), except that the material shall be matte black and not be retroreflective. The tape shall be a product listed on the [Qualified Products List](#).

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2.5 Preformed Thermoplastic.

2.5.1 Preformed thermoplastic material shall be composed of a resin resistant to degradation by motor fuels, lubricants etc. In conjunction with aggregates, pigments, binders, and glass beads which have been factory produced as a finished product. The thermoplastic material shall conform to AASHTO M249 with the exception of the relevant differences due to the material being supplied in a preformed state such as during time and flowability tests.

2.5.2 Preformed thermoplastic material shall have factory applied surface beads in addition to the intermixed beads at a rate of 10 pounds per 100 square feet of markings. It also shall contain a minimum of thirty percent (30%) intermixed graded glass beads by weight.

2.5.3 The surface, with properly applied and embedded surface beads, shall provide a minimum resistance value of 45 PN when tested according to ASTM E 303.

2.5.4 The material shall be applied at a thickness of 80 mils.

2.6 Extruded.

2.6.1 Thermoplastic material shall be homogeneously composed of pigment, filler, resins and glass beads. The pre-mix glass beads shall be uniformly distributed throughout the entire thickness of material. The material, when applied in accordance with the manufacturer's recommended procedures, shall be capable of resisting deformation by traffic. The material shall be tested in accordance with AASHTO T250 requirements.

2.6.2 The binder shall be either alkyd or hydrocarbon conforming to AASHTO M249. If an alkyd thermoplastic is used, the binder shall consist of synthetic resins, at least one of which is solid at room temperature and high-boiling point plasticizers. At least 1/3 of the binder compositions shall be a maleic-modified glycerol ester resin and shall be at least 10% by weight of the total composition.

2.6.3 Thermoplastic material shall not deteriorate by contact with sodium chloride, calcium chloride or other chemicals used to prevent roadway ice. The material shall also not deteriorate because of the oil content of pavement materials or from oil droppings or other effects of traffic.

2.6.4 Material, when formed into pavement markings, shall be readily renewable by placing an overlay of the same material directly over the old markings. The new material shall bond itself to the old markings in such a manner that no splitting or separation takes place.

2.7 Pavement Marking Recess. Recessed pavement markings shall be installed as specified for permanent markings. The recess shall be uniform in depth across the entire width.

Construction Requirements

3.1 General.

3.1.1 All pavement markings of the type specified shall be applied at the locations shown on the plans or as ordered, and shall be in accordance with the MUTCD and the [NHDOT Standard Plans](#). Traffic control operations in conjunction with placing markings shall conform to 619 and the Traffic Control Plan.

3.1.1.1 The Contractor shall establish the base line points at 50 ft. intervals on curves and 100 ft. intervals on tangent sections throughout the length of pavement to be marked under this section from the Department provided control points. All other pavement markings shall be applied according to the physical pavement layout provided. The Contractor shall provide the pavement marking layout on the final wearing course pavement to the Engineer at least 3 working days prior to installation of the permanent pavement markings unless otherwise permitted.

3.1.1.2 Whenever existing pavement marking patterns are to be obscured and later restored, the Contractor shall take detailed measurements of all existing pavement markings to permit the Contractor to accurately prepare drawings to reproduce those patterns. Reproduced markings shall be placed in the correct location laterally to reflect the intended lane and shoulder widths as specified in the Contract or as directed. The Contractor shall also perform a good quality videotape survey showing all pavement markings in each direction of travel with appropriate audio description of location and direction. The drawings and videotape shall be submitted to the Engineer prior to obscuring any pavement markings on the project.

3.1.1.3 The Contract Administrator shall be notified of the day and time of the pavement markings application a minimum of 48 hours prior to the application unless otherwise approved. This notification must be acknowledged. No payment will be made for materials placed without proper notification.

3.1.1.4 In the event the Contractor cannot place pavement markings per [619.3.3](#) and [NHDOT Work Zone Traffic Control Standard Plans](#), the Bureau of Traffic shall be notified a minimum of 48 hours before the end of this period in order to apply applicable pavement markings. No item payment will be made and a callout charge of \$2,500.00 plus \$500.00 per mile of striping

for this application will be deducted from money due the Contractor. In case of cancellation or the Contractor placing the pavement markings after notification, the callout charge will apply unless the Bureau of Traffic is notified by telephone at least 24 hours prior to the event.

3.1.2 Longitudinal lines placed on tangent roadway segments shall be straight and true. Longitudinal lines placed on curves shall be continuous smoothly curved lines consistent with roadway alignment. All pavement markings placed shall meet the tolerance limits shown on the plans.

3.1.3 Broken lines shall consist of 10 ft. line segments with 30 ft. gaps and shall meet the tolerance limits shown on the [NHDOT Standard Plans](#).

3.1.4 ReflectORIZED paint and thermoplastic pavement markings shall be applied in one pass at the width specified; preformed retroreflective pavement marking tape and thermoplastic shall be applied at the full width specified. Unless otherwise specified, widths of pavement marking lines shall be as follows:

Line Type	Width - inch	
	Interstate* Applications	All Other Applications
Centerlines	N/A	4
Edgelines	6	4
Lane Lines	6	4
Gore Markings	12	8
Crosswalk Lines	N/A	6
Parking Space Markings	N/A	4
**Stop Lines	N/A	18

* Interstate criteria may be used on other divided highway facilities where shown on the plans or ordered.

** Stop Lines can be applied in three passes if necessary

3.1.5 Newly applied pavement markings shall be protected from traffic until the material has cured. The method of protection shall not constitute a hazard to the traveling public. As a minimum, when striping two-way roadways, an escort vehicle shall precede and another shall follow the pavement marking truck. On one-way divided roadways, at least two escort vehicles shall follow the truck to protect pavement markings from traffic. Additional escort vehicles may be required on multi-lane roadways. Damage to any markings as a result of tracking shall be repaired by the Contractor at no cost to the Department.

3.1.6 The use of pavement markings other than in their final location on wearing course will only be permitted if the marking material is designed to be removed without the use of heat, solvent, grinding or blast treatment, and leaves no visible scar on the surface.

3.1.7 The Contractor shall furnish and have available for the Engineer's use a pavement temperature gauge.

3.1.8 All clean up and disposal of solvents, residue, and the like shall be the responsibility of the Contractor and shall be performed in accordance with all applicable federal, state and local regulations.

3.2 Retroreflective Pavement Marking Paint.

3.2.1 All equipment used for highway striping shall be specifically designed and manufactured for that purpose by a company experienced in the design and manufacture of such equipment and approved for use. Equipment used for longitudinal lines shall be mounted on a truck having a minimum gross vehicle weight rating of 14,000 lb. with a minimum paint tank capacity of 60 gal, and shall have the capability of placing double lines up to 4" in width or single lines up to 12" in width in one pass. Each paint tank shall be plainly marked in a prominent place with the maximum filled capacity of the tank. Each tank shall have a mixer or aerator capable of combining and maintaining the ingredients of the paint into a thoroughly mixed and uniform mass. The paint shall be applied with an atomizing or airless spray type striping machine having the waterbase paint at a temperature of 105 °F maximum in the heat exchanger and 85 – 105 °F at the spray nozzle. Paint shall pass through a screen with a maximum opening of 1/8 " located before the heat exchanger. A valve accessible for sampling shall be located in the paint feed line between the screen and the heat exchanger. The striping machine shall be equipped with an automatic paint stripe controller having skip-line capability to place broken lines in accordance with 3.1.3 and the [NHDOT Standard Plans](#). A gauge reading paint temperature shall be mounted and conveniently displayed on the equipment. The equipment shall include a mechanical, glass-bead dispenser mounted not more than 12" behind the paint dispenser. All equipment shall be kept in good operating condition.

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3.2.1.1 Vehicles and equipment will be subject to inspection by the Bureau of Traffic at their office located in Concord at least once per year prior to the first application of material and as frequently as considered necessary thereafter. Yearly inspection shall be arranged with a ten working day notification. Approved vehicles will receive a seal for that year. If found unfit to function properly, the vehicle will be disapproved for use until correct operating conditions have been obtained.

3.2.2 Immediately before applying the pavement marking paint to the pavement, the Contractor shall ensure the surface is dry and entirely free from dirt, sand, grease, oil, or other matter which would prevent effective adhesion of the paint to the pavement.

3.2.3 The surface temperature of the pavement shall be a minimum of 40 °F.

3.2.3.1 Cold Weather Paint.

When paint must be applied between the dates of October 15 through April 15 inclusive or on pavement with a surface temperature below 40 °F, cold weather paint can be used which does not exceed EPA's Federal Register/Rules and Regulations (40 CFR Part 59 [AD-FRL-6149-7] RIN 2060-AE55), as amended, for VOC content limit and shall meet the AASHTO M248 F and requirements noted below. These products shall be applied according to the manufacturer's requirements.

3.2.3.1.1 The Contractor shall provide a copy of their cold weather paint specification and a sample of each batch to the Bureau of Materials & Research per [708.03](#) – Approval, Sampling and Testing for approval. Each batch sample shall include lab test results verifying that the paint meets their specification. Refer to the Traffic Paint Batch list for approved cold weather paints. The cold weather paint shall meet the following minimum requirements.

Property	Test Method	Requirement
Dry Opacity (contrast ratio)	ASTM D2244 – with a wet film thickness of 15 mil	0.96 Min.
VOC	ASTM D3960	1.25 lb/gal Max.
Drying time	ASTM D7111 with wet film thickness of 15 mils	15 Minutes max @ 77 °F

3.2.3.1.2 The thickness of the paint and the bead application shall be at the manufacturers recommendation. This information shall be stated in their specification submittal with batch sample and also provided to the Engineer.

3.2.4 Paint shall be applied to a thickness of 20 mil wet.

3.2.5 Glass beads shall be evenly applied through the entire paint thickness at a rate of 8 pounds to each gallon of water base or alkyd paint. Glass beads shall be applied simultaneously with paint, by pressurized or mechanical drop methods.

3.2.6 All clean up and disposal of solvents, residue, and the like shall be the responsibility of the Contractor and shall be performed in accordance with all applicable federal, state, and local regulations.

3.2.7 The Contractor shall furnish and have available for the Engineer's use the following inspection equipment:

Wet Film Thickness Gauge:	Scales which range from 2 to 30 mils in 2 mil increments.
Pocket Microscope:	Scope having a four-part lens system with magnification of 20x and a clip-on accessory light.
Striping Calibration Kit:	Volumetric bead calibration kit shall be complete with instructions, as manufactured by Potters Industries, Inc., or approved equal.

3.2.7.1 Contractor shall measure all paint tanks (white & yellow) with paint stick prior to painting and after to determine the number of gallons used. Contractor shall also provide the Engineer their footage at the end of striping by zeroing out or recording the footage on their footage meters prior to and at the end of striping. All footage meters shall be able to measure white & yellow separately.

3.2.8 Painted lane lines, edgelines, and centerlines shall have a minimum retroreflectivity of 200 millicandelas for white and 150 millicandelas for yellow. The retroreflectivity measurement will be taken by the Department on lines that are clean and dry within 30 days of application, before any winter maintenance takes place.

Retroreflectivity measurements will be taken by the Department for acceptance in accordance with ASTM E 1710. All readings shall be taken with the test instrument centered on the line.

A minimum of two groups of 10 retroreflectivity tests will be performed within a 200 ft. length for the first 2 miles of each line length or less per project. An additional 10 retroreflectivity tests will be performed for each additional 2 mile line length or less. The location of these test groups will be at the selection of the Department. No more than 10% of all tests taken for each line

shall be below the minimum retroreflectivity (see chart below). When this requirement is not met, the entire line will be restriped at no additional expense to the Department. The Contractor shall provide traffic control and line cleaning for testing, as requested by the Engineer. Traffic control and line cleaning, will be subsidiary to Item 619 and Item 632 respectively.

Project Mileage	# Retro Tests Required	# Retro Tests to Fail Failure >10%
0-2 miles	20	3
2-4 miles	30	4
4-6 miles	40	5
6-8 miles	50	6
8-10 miles	60	7
10-12 miles	70	8

3.2.9 All painted pavement markings including cold weather paint shall receive a second application within seven (7) to ten (10) days after the first application if it is anticipated that the markings will be in place for the winter maintenance season. Retroreflectivity requirements stated in 632.3.2.8 shall be met for each painting application.

3.3 Preformed Retroreflective Pavement Marking Tape.

3.3.1 Preformed pavement marking tape shall be applied at locations shown on the plans by mechanical or manual methods. Mechanical applications shall be suitable for all markings. Manual applications shall normally be used for transverse lines, symbols and legends. The manufacturer shall provide technical assistance for equipment operation and maintenance, and product applications.

3.3.2 Preformed pavement marking tape shall be stored and applied as directed by the manufacturer. All markings applied after September 1 of any year shall be applied using the inlay method, unless specifically permitted by the Engineer. Prior to September 1, application by either the inlay or overlay method will be permitted, unless otherwise specified. When the inlay method is used, paving and marking operations shall be coordinated to meet the manufacturer's recommendations.

3.3.2.1 For the inlay method, the pavement markings shall be embedded in the pavement surface with a conventional steel wheel roller. The surface temperature of the pavement shall be within the range specified by the manufacturer and shall not deform or discolor the markings.

3.3.2.2 When applying pavement markings by the overlay method, the pavement surface shall be clean, dry and above the minimum temperature as specified by the manufacturer. The surface shall be broomed clean and all dust shall be removed using compressed air. When required by the manufacturer, a coat of primer/adhesive activator shall be applied.

3.3.3 The Contractor shall provide a copy of the manufacturer's storage and application recommendations and the manufacturer's certificate of compliance to the Engineer upon delivery of the material to the project. The certificate shall include the process, batch, or lot number(s) and corresponding date(s) of manufacture.

3.3.4 The required quantity of preformed pavement marking tape shall be available at the project prior to the start of applicable paving operations.

3.3.4.1 Material shall be delivered to the project in original containers. Each container shall be clearly marked to indicate the color of the material, a specific description of the contents, and the process batch or lot numbers.

3.3.4.2 Material found to be discolored or damaged in any way or material manufactured more than one year prior to installation shall not be used.

3.4 Retroreflective Thermoplastic Pavement Marking.

3.4.1 Thermoplastic pavement markings shall be applied to the road surface in a molten state by screed/extrusion method with a surface application of glass beads.

3.4.1.1 All equipment used to apply thermoplastic pavement markings shall be constructed to provide continuous uniform heating at temperatures exceeding 400 °F during mixing and agitation of the material. Equipment used for longitudinal lines shall be mounted on a truck having a minimum gross vehicle weight of 14,000 lb, and shall have the capability of placing double lines up to 4" in width or single lines up to 12" in width in one pass. The equipment shall operate so that all mixing and conveying parts, including the line dispensing device, maintains the material at the required plastic temperature. The use of pans, aprons or similar appliances which the dispenser overruns will not be permitted. The striping machine shall be equipped with an automatic stripe controller having skip-line capability to place broken lines in accordance with 3.1.3 and the [NHDOT Standard Plans](#), and a glass bead dispenser located immediately behind the material dispenser. All equipment shall be kept in good operating condition.

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3.4.1.2 A special kettle shall be provided for uniformly melting and heating the thermoplastic material. The kettle shall be equipped with an automatic thermostat control device and material thermometer for positive temperature control and to prevent overheating or under heating of the material. The heating kettle and application equipment shall meet the requirements of the National Fire Underwriters, the National Fire Protection Association and state and local authorities.

3.4.2 Immediately before applying the thermoplastic to the pavement, the Contractor shall ensure the surface is dry and entirely free from dirt, sand, grease, oil, or other matter which would prevent effective adhesion of the thermoplastic material to the pavement.

3.4.2.1 When recommended by the manufacturer of the thermoplastic material, a primer/sealer shall be applied to the pavement surface prior to the application of the thermoplastic material. The primer shall be void of solvent and water prior to the thermoplastic application.

3.4.3 Thermoplastic pavement marking materials shall not be applied when air and/or pavement surface temperatures are below 50 °F, or when the surface of the pavement contains any evidence of moisture.

3.4.4 Thermoplastic material shall be applied to the pavement at a thickness of 125 mils.

3.4.5 Glass beads shall be evenly applied to the surface of the completed marking at a rate of 10 pounds per 100 square feet of markings. Glass beads shall be applied by pressurized or mechanical drop methods.

3.4.6 Preformed Thermoplastic. Preformed thermoplastic pavement markings shall be a resilient white thermoplastic product with uniformly distributed glass beads throughout the entire cross sectional area. The markings shall be resistant to the detrimental effects of motor fuels, lubricants, hydraulic fluids etc. The markings can be used for stop lines, legends, symbols, and crosswalks, and shall be capable of being affixed to bituminous concrete pavements by the use of the normal heat of a propane torch.

3.4.6.1 The markings shall be capable of conforming to pavement contours, breaks and faults through the action of traffic at normal pavement temperatures. The markings shall have resealing characteristics, such that they are capable of fusing with themselves and previously applied thermoplastic when heated with the torch.

3.4.6.2 The marking must be able to be applied on pavement with a surface temperature down to 40 °F without any preheating of the pavement to a specific temperature.

3.5 Obliteration of Pavement Markings.

3.5.1 Pavement marking obliteration shall result in a minimum of pavement scar and shall obliterate all evidence of the existing pavement marking material. Removal may be performed by grinding, sand or water blasting, blackout tape, or other method(s) approved by the Engineer that do not materially damage the pavement surface.

3.5.2 “Painting” over pavement markings with paint, asphalt mixtures or any other material is prohibited.

3.5.3 Removal and disposal of pavement markings including, but not limited to retroreflectorized paint, retroreflective thermoplastic, preformed retroreflective tape and raised pavement markers shall be the responsibility of the Contractor in accordance with all applicable federal, state, and local regulations.

Method of Measurement

4.1 Retroreflective pavement marking lines of the type and width specified including the second paint application stated in 632.3.2.9 will be measured by the linear foot, to the nearest foot of length of marking applied.

4.1.1 Double lines and combination solid/broken lines will be measured as separate lines according to the length of each individual marking applied.

4.2 Retroreflective pavement marking symbols or words of the type specified will be measured by the square foot, to the nearest 0.1 of a square foot of area applied, based on established areas as shown on the Standard Sheets (Plans).

4.3 Repair work ordered under 3.1.5 will not be measured.

4.4 Raised pavement markers will be measured by each for each marker installed.

4.5 Obliterate pavement marking lines of the type specified will be measured by the linear foot, to the nearest foot of length of marking, with no adjustment for width.

4.6 Obliterate pavement marking symbols or words of the type specified will be measured by the square foot, to the nearest 0.1 of a square foot, based on established areas as shown on the Standard Sheets (Plans).

4.7 Work ordered under 3.1.1.4 will be measured to the nearest tenth (0.1) of a mile

Basis of Payment

5.1 The accepted quantities of retroreflective pavement marking lines of the type and width specified will be paid for at the Contract unit price per linear foot complete in place.

5.1.1 If preformed retroreflective tape, removable is ordered, and not included in the Contract, it will be paid as provided for in 109.04.

5.2 The accepted quantities of retroreflective pavement marking symbol or words of the type specified will be paid at the Contract unit price per square foot complete in place.

5.3 Additional equipment or labor necessary to apply preformed retroreflective pavement marking tape by the inlay method will be subsidiary.

5.4 The accepted quantities of obliterate pavement marking lines will be paid for at the Contract unit price per linear foot. Payment will not be made for the removal of removable pavement marking tape.

5.5 The accepted quantities of obliterate pavement marking symbols or words of the type specified will be paid for at the Contract unit price per square foot. Payment will not be made for the removal of removable pavement marking tape.

KEY TO ITEM NUMBERS FOR PAVEMENT MARKINGS

Item Number	Unit
632 .A B C D	Item number
632 .A	Section number
B	Material
C D	Type of marking
.A Material:	Width of line
0 Retroreflective Paint	
1 Preformed Retroreflective Tape, Type I (Removable)	
2 Preformed Retroreflective Tape, Type II (Non-Removable)	
3 Retroreflective Thermoplastic	
4 Blank	
5 Preformed Retroreflective Tape, Level I	
6 Preformed Retroreflective Tape, Level II	
B Type of Marking:	
1 Line	Linear Foot
2 Symbol	Square Foot
CD Width of Line	
04 4 in	Linear Foot
06 6 in	Linear Foot
08 8 in	Linear Foot
12 12 in	Linear Foot
16 16 in	Linear Foot
18 18 in	Linear Foot
24 24"	Linear Foot
.911 Obliterate Pavement Marking, 12" Wide & Under	
.912 Obliterate Pavement Marking, Over 12" Wide	

Examples :

632.0104	Retroreflective Paint Pavement Marking, Single Solid Line, 4 in	Linear Foot
632.3104	Retroreflective Thermoplastic Pavement Marking, Single Solid Line, 4 in	Linear Foot

APPENDIX B: ACKNOWLEDGEMENT FORMS

SIGNATORY DECLARATION

I, the undersigned, acknowledge completion and receipt of the Authorized Signatory Declaration Form, and fully understand my responsibility as an Authorized Signatory on this document and all subsequent forms thereof requiring signature. In particular I understand rules regarding the referencing, checking, and verification as necessary for disclosure to award this bid or proposal as requested and defined within this document. The bid document as submitted has not been altered knowing all information must be filled out correctly for consideration. It is hereby understood that the Town of Salem reserves the right to reject any and all proposals or parts of proposals; to waive any defects, information, and minor irregularities; to accept exceptions to these specifications; to award contracts, or to cancel this request, if it is in the Town's best interest to do so.

Written Name of Authorized Signatory: _____

Title: _____

Signature: _____

Date: _____

Company: _____

Address: _____

Phone: _____

Email: _____

NON-COLLUSION STATEMENT

By Submission of the Bid or Proposal, the Bidder Certifies that:

1. This bid or proposal has been independently arrived at without collusion with any other competitor or potential competitor;
2. This bid proposal has not been knowingly disclosed and will not be knowingly disclosed prior to the opening of bids or proposals for this project, to any other bidder, competitor, or potential competitor;
3. No attempt has been made to induce any other person, partnership or corporation to submit or not to submit a bid or proposal;
4. The person signing this bid or proposal certifies that he has fully informed himself regarding the accuracy of the statements contained in this certification, and under the penalties of perjury, affirms the truth thereof, such penalties being applicable to the bidder as well as to the person signing in its behalf;
5. That attached hereto (if a corporate bidder) is a certified copy of a resolution authorizing the execution of the certificate by the signatory of this bid or proposal on behalf of the corporate bidder.

Signature: _____

Date: _____

INDEMNIFICATION AGREEMENT

The successful vendor agrees to indemnify, investigate, protect, defend, and save harmless the Town of Salem, NH, it's officials, officers, agents, and employees from any and all claims and losses accruing or resulting to any and all contractors, subcontractors, suppliers, laborers and any other person, firm or corporation furnishing or supplying work, services, materials, equipment or supplies in connection with the performance of this contract and from any and all claims and losses accruing or resulting to any person, firm or corporation which may be injured or damaged by the vendor in the performance of this contract. In any case, the forgoing provisions concerning indemnification shall not be construed to indemnify the Town for damage arising out of bodily injury to persons or damage to property caused by or resulting from the sole negligence of the Town or its employees. This indemnification shall survive the expiration or early termination of this contract.

Signature: _____

Date: _____

NO BID QUESTIONNAIRE

If you choose not to bid, please complete the questionnaire below and return it with your response by the bid opening date. Your assistance in helping us to analyze no bid rationale is very much appreciated.

A no bid is submitted in reply to the Town of Salem, NH invitation in reference to:

Given the following:

_____ Item not supplied by our company

_____ Bid Specification (Provide reason)

_____ Profit Margin too low

_____ Past experience with the Town of Salem (Provide reason)

_____ Insufficient time allowed to prepare and respond to bid request

_____ Bid requirements (Provide reason)

_____ Priority of other business opportunities limits time.

_____ Other reason(s): _____

Signature: _____

Date: _____

Request for Taxpayer Identification Number and Certification

Give Form to the
requester. Do not
send to the IRS.

► Go to www.irs.gov/FormW9 for instructions and the latest information.

Print or type. See Specific Instructions on page 3.	1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank.	
	2 Business name/disregarded entity name, if different from above	
	3 Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only one of the following seven boxes. <input type="checkbox"/> Individual/sole proprietor or single-member LLC <input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ► _____ Note: Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is not disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner. <input type="checkbox"/> Other (see instructions) ►	4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3): Exempt payee code (if any) _____ Exemption from FATCA reporting code (if any) _____ <small>(Applies to accounts maintained outside the U.S.)</small>
	5 Address (number, street, and apt. or suite no.) See instructions.	Requester's name and address (optional)
	6 City, state, and ZIP code	
	7 List account number(s) here (optional)	

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Note: If the account is in more than one name, see the instructions for line 1. Also see *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Social security number									
				-				-	
or									
Employer identification number									
				-					

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
3. I am a U.S. citizen or other U.S. person (defined below); and
4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here	Signature of U.S. person ►	Date ►
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General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to www.irs.gov/FormW9.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

- Form 1099-INT (interest earned or paid)

- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding, later.