City of Waterville
Department of Public Works
6 Wentworth Court
Waterville, Maine 04901-4892

Tel (207) 680-4744 Fax (207) 877-7532

REQUEST FOR BIDS

Traffic Painting of City Streets – City of Waterville, Maine

Date: October 21, 2022

Instructions to Bidders

General: The City of Waterville Public Works Department is accepting bids for roading painting

1. **Bid Submittal**: Sealed bids will be accepted by the Office of the Director of Public Works, 6 Wentworth Court, Waterville, ME 04901 up to and including **9:00 am, Wednesday, November 16, 2022** at which time they will be opened and read. All bids will be placed in a sealed envelope clearly marked "Bid – Road Painting" in the center with the bidder's name and address in the upper left had corner. Bids not dated and time stamped by the Office of the Director of Public Works prior to the specified date and time stated above will be declared invalid and returned unopened.
2. **Withdrawal or Revision of Bid**: A bidder may withdraw or revise a bid after it has been received by the Office of the Director of Public Works, provided the request is made in writing or in person before the time set for bid opening.
3. **Bid Award**: Bid award, if the City determines to award, will be made within thirty (30) calendar days after bid opening. The City reserves the right to reject any and/or all bids without absorbing any liability against the City.
4. **Evaluation of Bids**: For purposes of evaluating the bids, in the event of any discrepancies on a proposal between an amount written out in words verses the same amount expressed in numbers, the amount written in words shall govern (if applicable). Similarly, unit prices shall prevail over extended totals. In the event of Additive Bid Items, the "low bid" shall be based upon the least total for the highest combination of bid items which may be awarded within the Control Amount (i.e. a predetermined budget amount to be disclosed at the time of bid opening). In the event that all Base Bids exceed the Control Amount, the "low bid" shall be based solely upon the lowest Base Bid submitted. Bidders shall examine and familiarize themselves with the Specifications and Bid Documents. The bidder shall in no way be relieved

of any obligation to provide the product, service and /or equipment specified through error, mistake or omission.

5. **Interpretation of Addenda:** It shall be the bidder's responsibility to make inquiry as to any interpretation of the specifications or requirements of the participants. Any changes in the specifications shall be by written addenda.
6. **Invoices and Payment:** Invoices shall be transmitted to the City of Waterville, 6 Wentworth Ct, Waterville, Maine 04901. It is the practice of the City of Waterville to pay invoices within thirty (30) days of receipt. The City is exempt from State of Maine Sales Tax.
7. **Cancellation:** The City reserves the right to cancel an unfulfilled portion of the Contact if, in the opinion of the City, the services or materials supplied are unsatisfactory or are not in compliance with the terms and conditions of the specifications. Cancellation shall be effective following ten (10) calendar days written notice to the Bidder.
8. **Exceptions to Specifications:** These instructions to Bidders and General Paragraphs are an integral part of the specifications for *Road Painting* and will be binding on the bidder. Bidders are advised that they shall be bound to the requirements of the Specifications, Instructions to Bidders and General Paragraphs unless exceptions are otherwise clearly noted in the Proposal. Any exceptions shall be considered, however, in determining the most acceptable proposal.
9. **Inquiries:** Any questions concerning this bid request should be directed to:
   John Lombardi, Asst. City Engineer, jlombardi@waterville-me.gov or 207-680-4744.

General

1. All work to be completed no later than June 30, 2023.
2. Contractors will be notified of bid results after they are tabulated. We will not be allowing contractors to participate in the bid opening.

SPECIFICATION FOR FAST DRY WATERBORNE
(From Maine Department of Transportation)

TRAFFIC PAINT

1. SCOPE: This specification describes 100% acrylic type, low VOC, fast drying, white, yellow, and other colors as listed, waterborne traffic paints that can be used on bituminous and Portland cement concrete pavements.

2. APPLICABLE SPECIFICATIONS: Federal specification TT-P-1952F (Paint, Traffic and Airfield Marking, Waterborne), Federal Test Method Standard 141c. American Society for Testing and Materials (latest revision) as referenced. American Association of State Highway and Transportation Officials (AASHTO) Materials, Specifications and Tests.

3. GENERAL REQUIREMENT:

a. The paint shall be formulated and processed specifically for service as a binder for beads, in such a manner as to produce maximum adhesion, refraction, and reflection. Any capillary action of the paint shall not be such as to cause complete coverage of the beads.
b. The paint shall be well mixed in the manufacturing process and shall be properly ground when incorporating the pigments in order to conform to the requirements as specified.
c. The paint shall not liver, thicken, curdle gel, settle excessively, or otherwise show any objection properties while in storage and in use. It shall be readily remixed manually to smooth, uniform consistency throughout and during application.
d. The paint shall dry on a road surface to a strongly adherent film that will not turn dark in sunlight or show appreciable discoloration with age. It shall be easily and uniformly applicable with mechanical line-marking equipment and shall have excellent covering properties. The paint shall be suitable for binding glass beads so as to produce a highly weather and wear resistance traffic line.

4. APPLICATION:

a. This paint must be reflectorized for night visibility by adding reflective spheres before the paint dries or sets, by using drop-on or pressurized methods. The reflective spheres shall be evenly dispersed on wet paint film of 15+ 1 mils (110- 115 square feet per gallon) at a rate of 8 pounds per gallon.
b. The lines shall be applied with airless or air assisted spray equipment so as to have the paint at a temperature of 150°F maximum in the heat exchanger and 120-140°F at the spray nozzle. The maximum no-tracking time shall not be exceeded when the pavement temperature is greater than 50°F, under humidity conditions of 80% or less on dry pavement.

5. STANDARD COMPOSITION:

a. The composition of the **white paint** shall comply with the following:
    i. The binder shall be 100% acrylic, as determined by infrared analysis according to ASTM D2621. It shall consist of either Rohm Haas Fastrack 3427, or Dow DT-250 or an equivalent, pre-approved by the State. (The State will, as its option, to assure that the specified binder is used).
    ii. Titanium Dioxide (ASTM D1394), Rutile Type II 1 1b/gal. Min.
    iii. Pigment (ASTM D3723), by weight 58% Min. 62% Max.

iv. Total non-volatile (ASTM D2697) 76% Min. by weight 62% Min. by vol.
v. Total non-volatile in vehicle 42% Min. by weight
vi. Lead (ASTM D3335) 0.06% Max.
vii. VOC (ASTM D3960) 1.25 lb. /gal. (150 g/l) Max.
viii. Weight per gallon (ASTM D1475) 14.0 + 0.3 pounds
ix. pH of the paint 9.6 Min.
x. The paint shall be rated as non-combustible. The closed cup flash point shall not be less than 140°F.

b. The composition of the **yellow paint** shall comply with the following:
   i. The binder shall be 100% acrylic, as determined by infrared analysis according to ASTM D2621. It shall consist of either Dow DT-250 or Rohm Haas Fastrack 3427, or an equivalent, preapproved by the State. (The City will, as its option, to assure that the specified binder is used.) The yellow pigment shall be Yellow #65, Yellow #75, or Yellow #83.
   ii. Titanium Dioxide (ASTM D1394), Rutile Type II 0.2 lb./gal. Max.
   iii. Pigment (ASTM D3723), by weight 58% Min. 62% Max.
   iv. Total non-volatile (ASTM D2697) 76% Min. by weight 62% Min. by Vol.
   v. Total non-volatile in vehicle 42% Min. by weight
   vi. Lead (ASTM D3335) 0.06% Max.
   vii. VOC (ASTM D3960) 1.25 lb./gal. (150g/l) Max.
   viii. Weight per gallon (ASTM D1475) 13.6 + 0.3 pounds
   ix. pH of the paint 9.6 Min.
   x. The paint shall be rated as non-combustible. The close cup flash point shall not be less than 140°F.

6. DETAILED REQUIREMENT:

a. Viscosity: The paint viscosity shall not be less than 78 nor more than 95 Krebs units at 77°F when tested according to ASTM D562.
b. Condition in Container: The paint as received shall show no livering, skinning, mold growth, purification, corrosion of the container, or hard settling of the pigment. Any settling shall be readily dispersed when stirred by hand with no persistent foaming.
c. Grind: The fineness of grind shall not be less than 2 N.S.U. when tested according to ASTM D1210.
d. Drying Time: The paint shall dry in not more than 10 minutes at 77°F when tested according to ASTM D711 and drawn down to a wet film thickness of 15 mils.
e. Color: The white traffic paint shall match Federal Test Standard 595 No. 37925. It shall not discolor in sunlight and shall maintain its light fastness throughout the life of the paint (approximately two years). For yellow the color shall closely match Federal Test Standard 595 No. 33538. Other colors listed below. Color determination shall be made without bead at least 24 hours after application.
   Green – 2252U Pantone Color
   Black – 37038
   Blue – 299U Pantone Color
   Red – 7622U Pantone Color
f. Flexibility: The paint shall show no cracking or flaking when tested in accordance with Federal Specification TT-P-1952F, Section 4.5.5., using a ½" mandrel bends.
g. Dry Opacity: The paint shall have a minimum contrast ratio of 0.96 when applied at a wet film thickness of 5 mils when tested according to ASTM D2244.

h. Daylight Reflectance: The daylight directional reflectance of the white paint shall not be less than 85% and not less than 50% for yellow (relative to magnesium oxide) when measured in accordance with Federal Test Method No. 141c.
i. Bleeding: The paint shall have a minimum bleeding ratio of 0.97 when tested in accordance with Federal Spec. TT-P-1952F.
j. Scrub Resistance: The paint shall pass 300 cycles when tested in accordance with ASTM D-2486.
k. Freeze-Thaw Stability: The paint shall show no change in consistency greater than 10% when tested in accordance with TT-P-1952F.
l. No Track Time: The paint shall dry to a no tracking condition in no more than 75 seconds. The no tracking condition shall be determined by actual application on the pavement at a wet film thickness of 15 mils (381 microns) with white or yellow paint covered with glass beads at a rate of 6 pounds per gallon (719 grams per liter). The paint lines for this test shall be applied with the striping equipment operated so as to have the paint at temperatures up to 140°F (60°C) at the spray orifice. This maximum tracking time shall not be exceeded when the pavement temperature varies from 50°F (10°C) to 120°F (49°C), and under humidity conditions of 80% or less providing that the pavement is dry. The no tracking time shall be determined by passing over the paint line 75 seconds after paint application, in a simulated passing maneuver at a constant speed of 30 to 40 miles per hour (48 to 64 kilometer per hour) with a passenger car. A line showing no visual deposition of the paint to the pavement surface when viewed from a distance of approximately 50 feet (15.3 meters) from the point where the test vehicle has crossed the line shall be considered as showing no tracking and conforming to the requirement for field drying conditions. This field dry time test shall be used for production samples only.
m. Heat Stability: The paint shall show no coagulation, discoloration or change in consistency greater than ten (10) Krebs Units when tested in accordance with TT- P-1952F.
n. Dry Through (Early Washout): A 15 mil wet film of the paint placed immediately in a humidity chamber maintained at 72.5°F+ 2.5°F and 90%+ 3 relative humidity shall have a "drythrough" time less than or equal to the specifier's laboratory reference paint film when tested in accordance with ASTM D1640, except that the pressure exerted will be the minimum needed to maintain contact between the thumb and film.
o. Storage Stability: When stored in a three-quarters filled can for a period of thirty days, the paint shall be in a homogeneous state with no skinning, curdling, hard settling or caking that cannot be readily remixed.

End of Specifications

BID FORM

To the Director of Public Works for the City of Waterville, Maine:

Please accept the bid of _____ (hereinafter called "Bidder"), a

corporation * organized under the laws of the State of _____ a partnership or an individual **

doing business as_____.

The following bid is submitted for ***Road Painting of City Streets*** in compliance with your invitation for bids, having examined specifications and conditions contained therein.

The Bidder proposes to supply pricing for the following:

Item	Unit	Quantity	Price
Center Line Solid & Skip / Fog Lines	**LF**	**87,500**	
Hand Striping (Stop Bars, Crosswalks, Parking Stalls, Arrows	**SF**	**14,000**	
		TOTAL BID:	

Name of Bidder: _____

By: _____

(Signature)

Print Name and Title: _____

Address: _____

_____

Telephone #: _____ Tax ID#: _____

*(Seal if bid is by a Corporation)

**Cross out words / phrases that do not apply.