

COUNTY OF ULSTER

JEN METZGER
County Executive



ULSTER COUNTY OFFICE OF GENERAL SERVICES

ED JORDAN
Director of General Services

CONTRACT AWARD INFORMATION

Title: PAVER-PLACED SURFACE TREATMENT

Bid No.: *RFB-UC23-090*

Contract Period: *APRIL 1, 2024 – MARCH 31, 2025 2026*
(EXTENDABLE TO MARCH 31, 2028)

Possible Extensions: *Two (2) One-Year Extensions*

Authorized Users: *COUNTY OF ULSTER DEPARTMENTS, POLITICAL
SUBDIVISIONS AND OTHERS AUTHORIZED BY LAW*

View Specifications at: *<http://www.empirestatebidsystem.com/>*

Submit Inquiries to:

Name: Frances Wu, Principal Buyer

Phone: *845-340-3408*

Fax: *845-340-3434*

Email: *frwu@co.ulster.ny.us*

If you intend to Piggyback off of this bid please contact Buyer first.

BID DESCRIPTION

The purpose of this bid is to solicit pricing for Paver Placed Surface Treatment (PPST, or NovaChip) on County Roads for procurement by the Ulster County Department of Public Works.

The contractor will furnish all necessary materials, equipment and labor to accomplish the anticipated work. The anticipated work includes the construction signage and electronic message boards 5-days prior to construction; the cleaning and preparation of the existing roadway; the cold planing of all intersecting roadways joints and asphalt driveways; the hauling of asphalt; the placement and compaction of the asphalt; and temporary and permanent pavement markings. The Ulster County Department of Public Works will schedule and coordinate the project with the Awarded vendor.

The actual roadways to be paved will be determined by the Commissioner of Public Works.

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AWARDED VENDOR	VENDOR INFORMATION NAME/ADDRESS/CONTACT	PHONE
GORMAN BROS.	Dane Mellon Gorman Construction 200 Church St. Albany, NY 12202	Ph. (518) 462-5401 dmellon@asmg.com

43.0 PRICE ADJUSTMENT FOR HOT ASPHALT PRODUCTS

Price Escalation and De-escalation will be allowed only on the hot asphalt products. **When a Price Adjustment is claimed on an invoice, that invoice must show the current Average Posted Price as well as the base Average Posted Price used in this specification and document the math used to determine the Adjustment that is being claimed. Failure to properly document each invoice may cause a delay in payment.**

The Price Adjustment will be based on the Average Posted Prices for Asphalt (Performance Graded Binder) per US ton as reported by the NYS DOT. This Average Posted Price is available on the DOT WEBSITE by searching for “fuel, asphalt & steel price adjustments” at

<https://www.dot.ny.gov/main/business-center/contractors/construction-division/fuel-asphalt-steel-price-adjustments>

The **Base Average Posted Price** for all liquid bituminous prices submitted on this bid, and for all contracts that result from this bid, will be the price posted by the NYS DOT for **December 2023 which is \$615/US ton.**

The NYS DOT determines new Average Posted Prices for Asphalt each month. It should be understood that price adjustments, in accordance with the formula below, would be effective on purchases made on and after the first day of the following month. In no event will a price adjustment be effected unless the change amounts to more than \$.10 per ton. All price adjustments will be computed to two decimal places. Any and all price revisions allowed by this contract shall be calculated and applied to the original Unit Price per US Ton that was bid.

Any introduction or withdrawal of a temporary voluntary allowance, terminal operator’s allowance or other discount offered to the trade in general from the posted price of asphalt will be considered, for purposes of price adjustment, as a change in the posted price.

Formula for Hot Asphalt Mix:

The Unit Price per US ton of asphalt purchased under these Specifications will be adjusted, by Item, in accordance with the following formula:

The Price Adjustment equals the New Average Posted Price minus the Base Average Posted Price multiplied by the Total Percent % Liquid Asphalt in each product (as indicated below).

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Sample Calculation:

If the new average posted price is established at \$650 per ton and if the ***Base Average Posted Price*** for this bid is **\$615/ton** and we are adjusting the Unit Price per Ton of Hot Mix Asphalt 9.5 F2 HMA (7.2%), the calculation would be as follows:

$$(630 - 615) \times .072 = (+) \$1.08/\text{Ton of Asphalt 9.5 mm mix HMA}$$

The Awarded vendor will be allowed to add **\$1.08** to his bid price per ton when invoicing 6.3 mm F2 mix HMA.

The total percentage of liquid asphalt is indicated below for each of these Specifications:

NYSDOT ITEM #	DESCRIPTION	% LIQUID ASPHALT
Type A	6.3 mm F2 mix HMA,	7.2
Type B	9.5mm F2 mix HMA,	7.2
Type C	12.5mm F2 mix HMA,	6.5

Formula for Liquid Bituminous Materials:

The Unit Price per Gallon of Liquid Bituminous materials purchased under these Specifications will be adjusted, by Item, in accordance with the following formula as described in the New York State contract for Liquid Bituminous Materials Group 31508:

The Price Adjustment, per gallon, equals the New Monthly Average Posted Price per US ton minus the Base Average Posted Price per US ton, divided by a constant factor of 235 (gallons per ton) and then the result multiplied by the Total Percent (%) Liquid Asphalt in each product (as indicated in the chart below).

Price Adjustment (per gallon)	=	$\frac{\text{New Monthly Average FOB Terminal Price} - \text{Base Average Terminal Price}}{235}$	x	Total Allowable Petroleum %
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Sample Calculation: If the ***NEW monthly average posted price*** is established at **\$630/US ton** and if the ***Base Average Posted Price*** for this bid is **\$615/US ton** and we are adjusting the Unit Price per gallon of product #702-4701/CRS-1p which is 60.0% asphalt, the calculation would be as follows:

$$\frac{(630 - 615)}{235} \times .600 = (+) \$0.038/\text{Gallon of \#702-4701/CRS-1p}$$

The Awarded vendor will be allowed to add \$0.038 to the bid price per gallon when invoicing product #702-4701/CRS-1p.

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The total percentage of liquid asphalt is indicated below for each of these Specifications:

ITEM # OF LIQUID BITUMINOUS MATERIAL	% LIQUID ASPHALT
702-4701/CRS-1p	60.00

44.0 SCOPE OF WORK/SPECIFICATIONS

PAVER PLACED SURFACE TREATMENT

It is the intent of this specification to describe the Paver Placed Surface Treatment System preceding the application of a hot mix asphalt-wearing course. The actual roadways to be paved will be determined by the Commissioner of Public Works.

QUALIFICATION:

All bidders shall have a minimum of two (2) years' experience in the placement of "Paver Placed Surface Treatment" and be prepared to furnish proof of experience.

DESCRIPTION:

The Paver Placed Surface Treatment system shall consist of a warm polymer modified asphalt emulsion sprayed immediately preceding the application of a hot mix asphalt wearing course which forms a homogeneous well textured and durable wearing surface that can be opened to traffic immediately on cooling. The nominal thickness of the layer shall be 5/8"; the maximum thickness of the mat shall not exceed 1-1/2".

The wearing course system shall be placed in one (1) pass by a single machine. This machine shall complete the operation by spraying the polymer modified asphalt emulsion binder and applying a hot mix asphalt overlay. The machine shall incorporate a receiving hopper, asphalt emulsion storage tank, variable width asphalt emulsion spray system, and a variable width heated screed. The machine shall be capable of applying the **Paver Placed Surface Treatment** at 20 to 100 feet per minute, and actual application shall not be less than 30 feet per minute.

POLYMER MODIFIED ASPHALT EMULSION MATERIAL:

The liquid material shall be a cationic, rapid-setting, asphalt emulsion NYS Item 702-4001. The emulsion shall be obtained from a storage facility that has been approved by the Director, Materials Bureau, New York State Department of Transportation, within the current calendar year, prior to the start of work.

HOT MIX ASPHALT MATERIAL FOR WEARING COURSE:

The wearing course shall be a plant mixed hot asphalt concrete and shall be a mixture of single size coarse aggregate, fine aggregate, mineral filler and asphalt cement. The single size course aggregate shall be nominal 1/4" for Type A mix, nominal 3/8" for Type B, or nominal 1/2" for Type C mix. The hot mix asphalt concrete shall be obtained from a facility that has been approved by the Director, Materials Bureau, New York State Dept. of Transportation, within the current calendar year, prior to the start of work. The asphalt content of the mix shall be 4.8-5.3% by weight of the total mix and must be computed based on the actual job mix.

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SURFACE PREPARATION:

It is inherent of the Contractor to assure themselves that all of the following items have been completed, prior to the start of the project.

Display construction signage and message boards 5-days prior to construction.

Manhole covers, water valves, catch basins, and other such drainage structures shall be clearly referenced for location and adjustment after the surfacing operation.

Thermoplastic traffic markings shall be removed. All vegetable matter at the edge of pavement shall be removed.

Pavement cracks and joints, greater than 1/4" wide shall be cleaned and filled with an approved material prior to the surfacing operation.

Before applying the Paver Placed Surface Treatment, serious surface irregularities shall be corrected. Wheel ruts greater than 1" in depth shall be filled prior to the surfacing operation.

The pavement surface area to be overlaid shall be cleaned and made free of any debris that may hinder bonding of the overlay.

APPLICATION:

Paver Placed Surface Treatment shall be placed on a dry or damp (not wet) pavement surface. The pavement temperature shall be not less than 45°F and rising.

The polymer modified asphalt emulsion shall be applied by the asphalt emulsion spray system mounted on the self-priming paver. The spray system shall accurately, uniformly, and continuously monitor the rate of application across the entire width to be overlaid.

The rate of spray shall be 0.2 +/- 0.05 gallons per square yard. The asphalt emulsion shall be applied at a temperature of 140°F - 180°F. No wheel or other part of the paving machine shall come into contact with the polymer modified asphalt emulsion before the hot mix asphalt-wearing course is applied.

The hot asphalt concrete wearing course shall be delivered to the self-priming paver at a temperature of 315°F +/- 15°. The application rate of the hot asphalt aggregate mixture shall be:

Type A (nominal 1/4") 80 +/- 10 pounds per square yard

Type B (nominal 3/8") 85 +/- 10 pounds per square yard

Type C (nominal 1/2") 90 +/- 10 pounds per square yard

The hot mix asphalt-wearing course shall be spread over the polymer modified asphalt emulsion within seconds of the spray application. Where shape correction is necessary or the old surface is porous, the application rate of the emulsion and hot mix asphalt wearing course may need to be increased.

Compaction of the Paver Placed Surface Treatment shall be accomplished with a minimum of a steel wheeled, double drum roller of minimum dead weight of 10 tons, before the material temperature has

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fallen below 180°F at mid-layer. Because of the speed of the paving machine, and if production is over 15,000 square yards per day, two (2) steel-wheeled double drum rollers may be required.

TRAFFIC:

The new pavement surface may be opened to traffic when rolling is completed and proper cooling has taken place. In general traffic can use the new surface at a distance of 300' behind the last roller.

VERIFICATION OF QUANTITIES:

At the conclusion of each day's production, a delivery ticket or invoice shall be completed by the Contractor and signed by a representative of the Public Works Department.

DATA TABLE I

POLYMER MODIFIED ASPHALT EMULSION

This material shall be cationic asphalt emulsion modified with an approved polymer, using either natural or synthetic latex. It shall be smooth and homogeneous and shall conform to the following requirements and be available on site at a temperature of not less than 140°F.

TEST	METHOD	Min	Max
Polymer Content (% mass of total residue)		3.0	-
Demulsibility, % by wt Residue	ASTM D244	40	-

DATA TABLE II

45.0 SINGLE SIZE COARSE AGGREGATE COMPONENT GRADATION

AASHTO STANDARD SIEVES		TOTAL % PASSING BY WT		
US	mm	TYPE A (1/4 INCH)	TYPE B (3/8 INCH)	TYPE C (1/2 INCH)
3/4	19	-	-	100
1/2	12.5	-	100	85-100
3/8	9.5	100	85-100	25-50
1/4	6.3	85-100	0-15	0-15
4	4.75	25-50	0-3	0-3
8	2.36	0-3	0	0

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DATA TABLE III**COARSE AGGREGATE PROPERTIES**

TESTS	METHOD	Light Medium	Heavy Traffic >
		Traffic < 200 heavy veh/day	200 heavy veh/day
Los Angeles Abrasion Value, %	ASTM C131	< 25	< 20
Water Absorption, %	ASTM C127	< 2	< 2
Flatness Index, %	NFP 18-561	< 20	< 15
Flatness Coefficient (G/E)*	NFP 18-561	< 1.58	< 1.58
Crushing Ration, %	Observation	100	100
Overall Cleanliness (% Pas #30)	ASTM C142	< 2	< 2
Resistance to Stripping*	ASTM D3625	> 95	> 95

Note 1: Where "G" is the smallest square opening through which the particles can pass and "E" is the smallest slot through which the particles can pass.

Note 2: Anti-stripping agents may be required to provide acceptable values.

DATA TABLE IV**FINE AGGREGATE COMPONENT GRADATION**

AASHTO STANDARD SIEVES		% PASSING BY WEIGHT
US	Metric	Type A, B or C
#4	4.75	100
#8	2.36	90-100
#16	1.18	60-80
#30	0.60	45-60
#50	0.30	30-40
#100	0.15	20-30
#200	0.075	15-25
Crushing ratio, % minimum (Observation)		100

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Sand Equivalency, % minimum (ASTM D2419)

0.60

Mineral Filler, if required, may be Hydrated Lime, Fly Ash or Bag-house Fines
100% passing #100, 80% passing #200

DATA TABLE V**COMBINED AGGREGATE GRADATIONS - DESIGN TARGET ENVELOPES**

AASHTO STANDARD SIEVE SIZES		TOTAL % PASSING BY WT		
US	mm	TYPE A (1/4 INCH)	TYPE B (3/8 INCH)	TYPE C (1/2 INCH)
3/4	19	-	-	100
1/2	12.5	-	100	85-100
3/8	9.5	100	85-100	70-90
1/4	6.3	85-100	30-50	30-50
4	4.75	40-60	24-40	24-40
8	2.36	21-32	21-32	21-32
#16	1.18	16-26	16-26	16-26
#30	0.60	12-20	12-20	12-20
#50	0.30	8-16	8-16	8-16
#100	0.15	5-10	5-10	5-10
#200	0.075	5-7	5-7	5-7
%PGB		4.9-5.3	4.8-5.2	4.8-5.2

Note: All aggregate percentages are based on the total weight of aggregate.

ASPHALT BINDER

Use the appropriate Performance Graded asphalt binder for the project geographical location and design traffic level.

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BID PRICE RETURN FORM

PAVER PLACED SURFACE TREATMENT

ITEM #1 - Type A: Price includes:

Project Size

- a) Price per Ton, 151-500 Ton/Day \$ 335.00 /Ton
- b) Price per Ton, 501-1000 Ton/Day \$ 265.00 /Ton
- c) Price per Ton, 1000+Ton/day \$ 220.00 /Ton

ITEM #2 -Type B: Price includes:

Project Size

- a) Price per Ton, 151-500 Ton/day \$ 325.00 /Ton
- b) Price per Ton, 501-1000/day \$ 255.00 /Ton **basis for award*
- c) Price per Ton, 1000+ Ton/day \$ 205.00 /Ton

ITEM #3 -Type C: Price includes:

Project Size

- d) Price per Ton, 151-500 Ton/Day \$ 320.00 /Ton
- e) Price per 501-1000 Ton/Day \$ 250.00 /Ton
- f) Price per Ton, 1000+ Ton/Day \$ 205.00 /Ton

BIDDER NAME: Gorman Bros., Inc.

AUTHORIZED SIGNATURE: 

PRINT NAME: Dane T. Mellon

TITLE: Sales Manager

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BID PRICE RETURN FORM


ITEM #4 -Crack Seal LF \$ 1.40 /LF

ITEM #5 -Rebate Milling LF \$ 25.00 /LF

ITEM #6 -Shim Ton \$ 99.50 /Ton

ITEM #7 -Maintenance and Protection Traffic (Flagging) \$ 6,000.00 /day

BIDDER NAME: Gorman Bros., Inc.

AUTHORIZED SIGNATURE: 

PRINT NAME: Dane T. Mellon

TITLE: Sales Manager