

ALLEGANY COUNTY DEPARTMENT OF

PUBLIC WORKS

7 Court Street, Room 210

Belmont, NY 14813-1078

Telephone: 585-268-9230 Fax: 585-268-9648

NOTICE TO BIDDERS

The Allegany County Department of Public Works will receive sealed bids until 10:00 a.m. February 22, 2018. At that time bids will be opened in Room 221, County Office Building, Belmont, New York on the following items:

1. Culvert Pipe & Bands
2. Galvanized Corrugated Steel Beam Guide Rail, Post , Block-Outs, and Back-Up Plates
3. Steel
4. Washed Crushed Gravel – Crushed Limestone
5. Highway Signs, Blanks & Posts
6. Bituminous Materials
7. 1311 Calcium Chloride
8. Crushed Gravel, Screened & Bank Run Gravel
9. Stone Fill (Rip Rap)
10. Ready Mix Concrete, Flowable Fill, and Concrete Blocks
11. Sand & Salt Mix
12. Rust Preventative Paint
13. Equipment Rental
14. **Fiber Reinforced Bituminous Membrane Surface Treatment**
15. Cold In-Place Recycled Asphalt Pavement
16. Pavement Markings

Specifications for the above listed items may be obtained on the Internet: Allegany County Website at www.alleganyco.com; click on Government then Public Works Department. They are also available at the Office of the Superintendent of Public Works, Room 210, County Office Building, Belmont, New York.

The Allegany County Department of Public Works reserves the right to reject any and all bids and to accept the bid it determines to be in the best interest of Allegany County.

Upon mutual agreement of the parties, Allegany County reserves the right to renew the contract(s) awarded as a result of this bid for an additional one (1) year period by resolution of the Public Works Committee of the Allegany County Board of Legislators in accordance with the specifications and NYS GML 103 and 104b.

Guy R. James
Superintendent
Allegany County
Department of Public Works

GENERAL TERMS AND CONDITIONS:

1. Objective:

This document is published in order to obtain competitive prices for Fiber Reinforced Bituminous Membrane Surface Treatment.

2. Acquisition of Bid Documents:

- a. Bid documents are available for download at www.alleganyco.com; click on Government then Public Works Department. They are also available at the Office of the Superintendent of Public Works, 7 Court Street, Room 210, Belmont, New York 14813. The office is open Monday – Friday 8:00 a.m. to 4:00 p.m. Telephone number is (585) 268-9230.
- b. Each contractor bears sole responsibility for acquisition of bid documents. Requests for bid documents to be forwarded are neither a guarantee nor an incurred obligation on the part of Allegany County to ensure contractors requested receipt of bid documents, timely or otherwise.
- c. Receipt of these documents, unsolicited or otherwise, shall not be construed a predetermination of a contractor's qualifications to receive a contract award. Nor shall receipt of these documents be interpreted an endorsement that the contractor's equipment, materials, products, and/or services are in compliance with the bid specifications.

3. Examination, Interpretation, Correction of Bid Documents:

Each contractor shall examine all bid documents and judge all matters relating to the adequacy of such documents. Any inquiries, suggestions or requests concerning interpretation, clarification or additional information pertaining to this bid solicitation shall be in writing and submitted to the Public Works Department. The County shall not be responsible for oral interpretations given by any county employee, representative or others. The issuance of written addendum/addenda is the only official method whereby clarification or additional information can be given.

4. Preparation of Bid Documents:

Bids must be submitted on the forms provided in these bid documents and prepared in the following manner:

- a. All forms shall be clearly legibly completed using a permanent medium (i.e. ink, typewriter, laser printer, etc.) Illegible entries may be rejected.
 - i. If submittal of unit price(s) is a requirement, said unit price(s) shall prevail.
 - ii. All mathematical functions (extensions, additions, etc.) are subject to audit.
 - iii. Each price shall be expressed as a numerical dollar value, indicators such as ditto marks, arrows, etc. are not acceptable.
- b. All forms requiring a contractor's signature shall be signed by the contractor or the contractor's authorized representative. Erasures and/or alterations shall be initialed by the representative whose signature appears on the forms.

- c. The contractor shall submit the bid in accordance with the bid documents and shall not make any changes in the wording or the bid forms or make any stipulations or qualify the bid in any manner.
- d. Prices shall be F.O.B. any point in Allegany County, New York. Price quoted shall include all delivery charges.
- e. All bids shall be firm for a period of forty-five (45) days from the bid opening date; during which time the County shall render its decision.

5. Bid Surety:

All bidders must submit a Bid Bond or Certified Check in the amount of Five Hundred Dollars (\$500.00) payable to Allegany County Department of Public Works with their bid. Bid Bond or Certified Check will be refunded to unsuccessful bidders. The successful bidder (s) will be issued a notice of intent to award and will be required to submit a Performance Bond in the amount of Five Thousand Dollars (\$5,000.00) effective until May 1st, 2019, within three weeks of the date of receipt of the notice of intent. Upon receipt of the Performance Bond or Certified Check the successful bidder(s) will be issued a Notice of Award. The Bid Bond will be returned with the Notice of Award. The Performance Bond will be released upon completion of work and acceptance by the Superintendent of Public Works. Performance Bonds for Town and Village should be provided directly to the respective Town or Village.

6. Contract Term:

May 1, 2018 through April 30, 2019

7. Quantities:

- a. Quantities are not guaranteed. A minimum and/or maximum quantity shall not be established. All purchases, therefore the cumulative annual purchase quantity shall be "as required" by Allegany County.
- b. If this bid specifies "estimated quantities", said quantities are specified for bid purpose only. These quantities are not intended, nor should they be construed to reflect the actual purchase requirements of Allegany County.

8. Non-Collusive Bidding Clause and Certificate:

The contractor shall submit a signed and dated Non-Collusive bidding certificate with its bid which is included in this bid document. Said certificate is mandated by Section 103-d of the General Municipal Law.

9. Hold Harmless Clause and Form:

The contractor shall submit a signed and dated Hold Harmless Clause form with its bid, which is included in this bid document.

10. Iranian Energy Sector Divestment Certification:

Contractor hereby represents that said contractor is in compliance with New York State General Municipal Law, Section 103-g entitled "Iranian Energy Sector Divestment." By submission of this bid, each contractor and said person signing on behalf of any contractor certifies and in case of a joint bid, each party hereto certifies as to its own organization, under penalty of perjury, that the best knowledge and belief, that each contractor is not on the list created pursuant to NYS Finance Law Section 165-A (3) (b).

The contractor shall submit a signed, notarized and dated Iranian Energy Sector Divestment Certification, included in this document, with its bid.

Said certificate is mandated by Section 103-g of the General Municipal Law. Reference the Iranian Energy Sector Divestment Certificate Form included in document.

11. Required Insurance:

a. This bid document includes an information sheet entitled: ALLEGANY COUNTY STANDARD INSURANCE REQUIRMENTS. These requirements establish the minimum insurance(s) which the contractor shall have in effect prior to entering into a contract with Allegany County. Said insurance(s) are required to remain in effect through the term of the contract(s). In the event that the contractor's insurance lapses during the term of the contract(s), the County reserves, as its right, the right to cancel the contractor's contract(s), and to purchase the contracted product(s)/service(s) on the open market; with any increase in cost(s) to Allegany County charged to the awardee. Credit shall not be issued to the awardee where open market cost(s) to the County are less than the cost(s) contracted with the awardee.

b. Additional Insured & Certificate Holder:

i. Allegany County shall be named as an "additional insured" for the purpose of coverage on direct, primary and non-contributory basis in the contractor's policy for all intents and purposes of contract(s) issued as a result of an award of this bid. Additional insured shall read- Allegany County, 7 Court Street, Room 210, Belmont, New York 14813.

ii. Certificate Holder shall read- Allegany County, 7 Court Street, Room 210, Belmont, New York 14813.

c. Each contractor shall submit an original of its Certificate of Insurance and NYS Worker's Compensation Insurance Coverage Form (which indicates the contractor's compliance with the above sections a. and b.) to the following: Allegany County DPW, 7 Court Street, Room 210, Belmont, NY 14813.

12. Sales Tax Exemption:

The County is exempt from payment of sales and compensating use taxes of the State of New York and cities within the State of New York.

13. Protection from Claim Against or Equal:

In the event of any claim concerning or relating to the issues of equal or better, the contractor agrees to hold the County of Allegany free and harmless from any and all claims, legal fees and court cost for loss or damage arising out of this transaction for any reason whatsoever.

14. Addendum/Addenda:

- a. If an addendum has been issued prior to the County's receipt of bids: Allegany County shall attempt to notify contractor's known to have received the sealed bid documents and whose contact information is on file with the County. Allegany County does not ensure the potential contractor's receipt of the addendum. It shall be the responsibility of the contractor, prior to submitting its bid, to contact the Department of Public Works (585) 268-9230, to determine if an addendum has been issued.
- b. Addendum shall be available online at www.alleganyco.com; click on Government then Public Works Department. They are also available at the Office of the Superintendent of Public Works, 7 Court Street, Room 210, Belmont, New York 14813.
- c. It is a requirement that the contractor sign, date and include the addendum with its bid submittal. Failure to do so may result in rejection of bid.

15. Multiple/Alternate Bid Submittal(s):

For those contractor's intending to submit multiple/alternate bids in response to this bid solicitation; the contractor is required and shall submit a complete bid document for each bid submitted. Note: if there is a bid surety requirement, one (1) surety instrument written for the highest amount, shall suffice.

16. Submittal of Bid(s):

- a. The bid shall be submitted in a sealed envelope with the following marked on the outside:
 - i. Print your company's name in the upper left corner
 - ii. In the lower left corner print:
Sealed Bid: February 22, 2018, 10:00 a.m.
Fiber Reinforced Bituminous Membrane Surface Treatment
- b. The envelope shall be addressed to Allegany County DPW, 7 Court Street, Room 210, Belmont, New York 14813.
- c. Bids will be received at the Public Works Department at the time specified. At which time bids will be opened.
- d. Facsimile transmitted bids are not acceptable and shall be rejected.
- e. Security procedures are in effect at the Allegany County Office Building. Interested parties, especially contractors who intend to hand deliver bids and/or conduct business with Allegany County Department of Public Works should allow

sufficient time for any delay which may arise as a result of security procedures. To be considered delivered and on time a bid submittal must be received at the Public Works Department by the appointed hour.

f. All bid proposal sheets shall remain intact and be submitted with the bid.

17. Business Hours:

Contractors will maintain normal business hours during the time in which the material bid will be needed by the County. Bidders agree that normal business hours shall mean 8:00 a.m. to 4:00 p.m. Bidders acknowledge and agree that on some occasions it may be necessary to open before and remain open beyond normal business hours in order to provide the County with material bid.

18. NYSDOT Standard Specifications or Source(s) & Materials:

a. All materials proposed or materials supplied by the bidder to Allegany County shall conform to the requirements set forth in Standard Specifications (US CUSTOMARY UNITS), published by the New York State Department of Transportation, May 2, 2008, including all current amendments, or to any other standard or standard specifications. If the materials bid are subject to certification or approval by the State of New York Department of Transportation for use by the State of New York and the bidder shall furnish with the bid proof of such current approval or certification.

b. The Superintendent of Public Works may order tests for the materials proposed by the bidder or supplies by a successful bidder, at any time, the costs of such testing shall be the responsibility of the bidder and/or successful bidder as the case may be. The bidder and/or successful bidder agree to pay the costs of such tests when presented with an invoice by the Superintendent of Public Works.

19. Compensation:

Payment shall be rendered to the contractor(s) for satisfactory compliance with the general terms and conditions of this bid. Invoice terms shall be net 30 days. The county normally processes invoices for payment bi-monthly, according to regular established schedule.

20. Late Bids:

Contractors bear the sole responsibility for the delivery of their bid in a timely manner. Reliance upon the U.S. Postal Service or other carriers is at the contractor's risk. Late bids will not be considered and will be returned unopened.

21. Right of County to Seek Clarification, Accept or Reject Bid(s), etc:

a. Allegany County reserves as its right, the right to require clarification from the contractor for the purpose of assuring a full understanding of the contractor's responsiveness to the solicitation requirements.

b. Allegany County reserves as its right, the right to accept or reject any and all bids (or separable portions thereof), the right to waive irregularities and technicalities, and the right to request resubmittal of bids (re-bid).

22. Civil Rights:

The County of Allegany in accordance with the provisions of Title VI of the Civil Rights Act of 1964 and New York Labor Law; Article 8- Public Works, Section 220e hereby notifies all contractors will affirmatively ensure that any contract awarded as a result of this bid solicitation will be awarded without discrimination on the grounds of race, color, sex or natural origin.

23. Award of Bid:

For the purpose of this bid and subsequent award(s), it is intended that award(s) will be made on a line item basis:

- a. Bids will be awarded to qualified and responsible contractor(s) who sufficiently meet the terms, conditions and specifications stated herein. However, under all circumstances and all statements to the contrary notwithstanding, Allegany County reserves as its right, the right to determine award(s)/awardee(s) in accordance with the best interest of Allegany County.
- b. Award of bid is not made at the bid opening. All bids are subject to final review and acceptance by the Public Works Committee of the Allegany County Legislature before any award may be made.

24. Executory Clause:

Allegany County shall have no liability under any contract or contracts or to anyone else beyond funds appropriated and available for the purpose of this document and resultant contract(s).

25. Assignability:

The contractor shall not assign, transfer, convey, sub-contract, sublet or otherwise dispose of all or portions of this contract (and/or work to be performed as a result of the contract) or its right, title, or interest to any other person, company, corporation, without prior written consent of the Superintendent of Public Works.

26. Extension of Contract Usage by Political Subdivisions:

Political subdivisions within Allegany County (Towns, Villages, School Districts and Fire Districts), as defined in Section #103 of the General Municipal Law may participate in any contract awarded as a result of this bid document. Additionally, per section 408-a (2) of County Law and Allegany County Resolution No. 202-15, all political subdivisions within the state of New York may piggyback off this competitive bid as long as it is mutually agreed to by both parties. Responsibility, financial or otherwise, for purchase(s) made by other parties as a result of the extension of this contract, shall not be borne by Allegany County.

27. Contractor's Failure to Comply:

The contractor's failure to perform in compliance with the bid award shall result in withholding of payment. The payment shall be withheld until such times as the contractor fulfill its responsibilities. Compliance shall be determined by and to satisfaction of

Allegany County. Such action would not necessarily preclude further initiatives on the part of Allegany County to protect and preserve its best interest.

28. Cancellation of Contract:

Allegany County reserves, as its right, to cancel the contract(s) resulting from an award of this bid solicitation at any time during the contract period, without penalty to Allegany County and without stated reason, by delivering a written ten (10) day notice of intent to the contractor(s) or its representative(s). Said notification mailed to the contractor or its representatives via the US Postal Service, First Class Mail shall be considered sufficient and delivered.

ALLEGANY COUNTY DEPARTMENT OF PUBLIC WORKS
SPECIFICATIONS FOR
FIBER REINFORCED BITUMINOUS MEMBRANE SURFACE TREATMENT
February 22, 2018

DESCRIPTION

The work shall consist in the construction of a fiber reinforced bituminous membrane surface treatment known as “FiberMat- Type A” as a Stress Absorbing Membrane, SAM and as FiberMat- Type B” when used as a Stress Absorbing Membrane Interlayer, SAMI. This is accomplished by using a specific applicator, which can be mounted on an asphalt distributor modified for applying the surface treatment of bituminous binder reinforced with glass fibers. The applicator comprises an open bottomed spray bar housing fan or blower for producing a down draft in the housing, and at least one spray bar mounted on the housing and adapted to extend transversely in the direction of movement of the asphalt distributor on which the unit is mounted. A number of nozzles spaced longitudinally along the spray bar for spraying bituminous material, means of controlling the nozzles, and a number of sources for dispensing the cut glass fibers through the open bottomed housing to the surface of the bituminous material previously sprayed shall also be included.

Asphalt emulsion, aggregate and in-place chopped fibers are combined to form a versatile treatment, ideal for sealing as a SAM and arresting severely alligator cracked surfaces. The in-place chopped fiber gives the surface an improved tensile strength.

When applied within the pavement structure the fiber reinforced bituminous membrane surface treatment acts as a SAMI for the treatment of reflective cracking prior to the construction or placement of subsequent layers.

MATERIALS

1. Bituminous Materials

- a. Bituminous Material Approval. The bituminous material shall be obtained from a storage facility that has been approved by the Director, Materials Bureau within the current calendar, before the start of work.

- b. Bituminous Material Selection. The selected bituminous material shall be compatible with the aggregate to be used. It is the contractor’s responsibility to ensure compatibility between the bituminous material and the aggregate. The selection of bituminous material shall be subject to the approval of the NYSDOT, Materials Bureau Engineer, and to conform to the standards below with the following exceptions.

i. Surface Treatment

Material Designation	Grade	Description
702-4701	CRS-1P	Polymer modified cationic asphalt emulsion
Or where appropriate CRS-2P Polymer modified cationic asphalt Emulsion Elastic recovery, 10°C – minimum 60%		

2. Aggregates

The aggregates for the fiber reinforced bituminous membrane surface treatment shall conform to the requirements of NYSDOT Item Section 703-02, "Coarse Aggregate" and be from an approved source. Where aggregates for pavement surface treatment are from more than one source or of more than one type of material, they shall be proportioned and blended to provide a uniform mixture. The Regional Director or the authorized representative shall approve the procedure used for this proportioning.

Where the fiber reinforced bituminous membrane surface treatment is to be considered as a SAM then the aggregate size shall be Size 1ST and Size 1A or a combination of both as in a double dressing.

Where the fiber reinforced bituminous membrane surface treatment is to be considered as a SAMI, then the aggregate size shall be size 1A only.

In both cases the aggregate shall meet one of the following:

- a. Limestone having an acid insoluble content of not less than 20%, excluding particles of chert and similar siliceous rocks. Blends of siliceous and non-siliceous and non-siliceous limestone will not be permitted.
- b. Dolomite
- c. Sandstone, granite, chert, trap rock, ore tailings, or other non-carbonate materials.
- d. Gravel, or a natural or manufactured blend of two or more of the following types of material; limestone, dolomite, gravel, sandstone, granite, chert, tarp rock, ore tailings, slag or other similar materials meeting the following requirements.
 - Non-carbonate plus 3.2 mm particles must comprise a minimum 10% of the total aggregate (by weight with adjustments to equivalent volumes for materials of different specific gravities).
 - For Size 1A a minimum of 20% of plus 4.75mm particles must be non-carbonate
 - For Size 1 ST a minimum of 20% of plus 9.5mm particles must be non-carbonate.

3. Polymer Modifier

The ideal amount of solid or dry polymer modifier shall be 3%, based on the asphalt weight. The polymer materials shall be milled or blended into the asphalt or blended with the "soap phase" or post added to the emulsion but at all times ensuring good homogenization of the polymer with the asphalt emulsion.

4. Fiber

The glass fiber is E Class from an approved source determined by the license holder. The glass fiber spools are supplied internally wound, in coils or cheeses. Typically the spools are cut in-place into 60mm, (2.38") lengths which are distributed uniformly across and between the two parallel applications of modified asphalt emulsion. Glass fiber spread rates are up to 120g/sqm, (4 oz), with additional asphalt emulsion rates of spread, depending on the site requirements.

CONSTRUCTION DETAILS

1. Fiber Reinforced Bituminous Membrane Surface Treatment

a. Weather and Seasonal Limitations

The fiber reinforced bituminous membrane surface treatment may be applied on a dry or damp surface, but should not be laid where there is standing water or on a wet surface. Application should only be undertaken when the surface temperature is at least 10°C, (50°F), and rising, subject to site inspection. Greater initial traffic speed control may be required in certain circumstances, for example when the surface temperature is low.

The fiber reinforced bituminous membrane surface treatment shall be placed normally in New York during the period May 1st to the third Saturday in September. Application outside of these times is permissible only with the approval of the county or the local municipality.

2. Equipment (The following equipment shall be required:)

a. Bituminous Material Distributor

The liquid bituminous fiber applicator that is used could be mounted on a vehicle for applying a surface treatment of bituminous binder reinforced with glass fibers. The applicator shall comprise an open bottomed spray bar housing, a fan or blower producing a down draft in the housing, and at least one spray bar mounted on the housing and adapted to extend transversely in the direction of movement of the vehicle on which the applicator is mounted. A number of nozzles spaced longitudinally along the a spray bar for spraying binder material, means for controlling the nozzles, and a number of sources for dispensing cut glass fiber through the open bottomed housing to the surface of the binder material previously sprayed shall also be included.

The applicator shall have been calibrated within the previous 12 months for transverse and longitudinal distribution application rates according to ASTM D2995, Practice for Determining Application Rate of Bituminous Applicator or other suitable method. The bituminous fiber applicator shall be equipped, maintained, and operated so that the bituminous materials can be applied at controlled rates from 0.1 l/m² (0.022 gal/SY) to 2.5 l/m² (0.56gal/SY). The fiber is applied at controlled rates from nominally 30 to 120g/m² (approx.. 1-4oz/SY). These applications shall be such a uniform first layer of asphalt emulsion is applied followed by uniform layer of glass fibers that is chopped in place and covered with a uniform second layer of asphalt emulsion.

b. Self-Propelled Aggregate Spreader

Aggregate spreader shall be a self-propelled unit capable of uniformly spreading the aggregate at the required rate on a minimum width of 150mm wider than the width of the lane to be treated. The spreader shall meet the approval of the Engineer and be calibrated similar to the test method used in ASTM D2995, within the previous 12 months, for transverse and longitudinal distribution.

c. Pneumatic Tire Roller

The Engineer will require a sufficient number of pneumatic tire rollers to permit the initial rolling of the aggregate to occur within 5 minutes of the application of the fiber reinforced bituminous membrane surface treatment. The pneumatic roller shall be self-propelled and have oscillating wheels with smooth tread tires and have a minimum ballasted weight of 9 metric tons or 10 US tons. The tire pressure for all wheels shall be uniform within 2 psi. The rollers shall be operated at a maximum speed of 8 km/hr, (5mph). To prevent pick-up of aggregate on the tires, the tires shall be kept moistened with water mixed with small quantities of detergent or other material approved by the Engineer. In no case shall a solvent having effect upon the fiber reinforced bituminous membrane surface treatment be used.

d. Static Steel-Wheel Rollers

Shall be self-propelled and be either 9 to 11 metric ton tandem three-axle type or 7 to 9 ton tandem two-axle type. This shall be used particularly when a SAMI application is specified for the fiber reinforced bituminous membrane surface treatment following the pneumatic tire roller. The aim is to crush the aggregate and bind into the surface prior to the application of the new overlay.

e. Self-Propelled Rotary Power Broom

A self-propelled rotary power broom shall so be designed, equipped, maintained and operated so that the pavement surface can be swept clean. The broom shall have an adjustment to control downward pressure. The power shall meet the approval of the engineer. In the case where a SAMI is being overlaid the same day then a vacuum sweeper shall be used only.

3. Determination of the Quantities of Materials to be Applied

In conjunction with the engineer the contractor will decide upon the appropriate rates of asphalt emulsion and fiber for and during the job. Typical rates of application for the asphalt emulsion range from 1.8-2.3L/m² (0.4-0.5 Gal/SY) and fiber application rates from 30-120g/m² (approx. 1-4 OZ/SY).

- a. For SAM applications the aggregate shall be of the 6mm or 10mm maximum size and be added at rates as per conventional chip sealing operations – typically (11-13kg/m² -- approximately 19-26 lb/sy)
- b. For SAMI applications only the 6mm maximum size aggregate is used at typically (6-8kg/m² – approximately 10-15 lb/sy) to blend in the surface if it is to be overlaid within a few weeks. Otherwise higher aggregate application rates are employed and approved with the local engineer.

4. Preparation of Surface

A self-propelled power broom shall be used to clear any loose material from the surface to be treated immediately prior to the application. Potholes shall be repaired prior to commencement of work. Manhole covers, drop inlets, catch basins, curbs and any structure within the roadway area shall be protected against the fiber reinforced bituminous membrane surface treatment.

5. Application of the Fiber Reinforced Bituminous Membrane Surface Treatment

Fibers and bituminous materials shall be applied by means of pressure distributor in a uniform, continuous spread over the section to be treated and within the temperature range, sandwiching the in-place chopped fibers between the two layers of asphalt emulsion. The quantities of fibers and bituminous materials shall be decided between the engineer and contractor dependent on the job site. The distributor shall be moving forward at the proper application speed at the time the spray bar and fiber chopper bars are opened. If any skipped areas or deficiencies occur, the operation shall be immediately stopped. Junction of spreads shall be carefully made to assure a smooth riding surface and the deficient areas corrected in a manner approved by the engineer.

The fiber reinforced bituminous membrane surface treatment shall not be applied more than 50 meters, (150ft), in advance of the self-propelled chip spreader. Under no circumstances shall operations proceed in such a manner that the fiber reinforced bituminous membrane surface treatment will be allowed to chill, set-up, dry or otherwise impair retention of the cover aggregate. Traffic will not be allowed to run on the unprotected fiber reinforced bituminous membrane surface treatment. The distributor, when not spreading, shall be parked so that the spray bar or mechanism will not drip on the surface of the traveled way.

6. Application of the Cover Aggregate

Immediately following the application of the fiber reinforced bituminous membrane surface treatment, cover aggregate shall be spread at the rate agreed between the engineer and contractor.

Spreading shall be accomplished in such a manner that the tires of the aggregate spreader at no time contact the uncovered and newly applied fiber reinforced bituminous membrane surface treatment. Immediately after the cover aggregate is spread, any deficient areas shall be covered by additional material. Pneumatic tire rolling shall begin immediately. The initial pass shall be completed within 5 minutes of the application of the fiber reinforced bituminous membrane surface treatment and shall be continued until three complete passes are obtained within 30 minutes of the application of the fiber reinforced bituminous membrane surface treatment. Pneumatic tire rollers shall come to a complete stop prior to a change in direction.

7. Opening to Traffic

"Loose Stone" signs meeting the requirements of NYSMUTCD shall be posted at 1.6 km (1 mile), intervals throughout the length of the project. These signs shall be erected before treatment commences and removed after contract is accepted. Unless otherwise specified, the highway shall be kept open to traffic at all times. Traffic shall be discontinued on the lane being surface treated; and as soon as the final layer is applied and rolled, controlled traffic may be permitted thereon. Traffic shall be maintained at a speed not to exceed 24km/h, (15 mph) for a period of four hours after placement of the fiber reinforced bituminous membrane surface treatment using two-way radio-equipped patrol vehicles in accordance with the maintenance and protection of traffic details shown on the plans. All patrol vehicles shall be equipped with signs meeting the requirements of section 254.5 of the Manual of Uniform Traffic Control Devices. Immediately after completion of the fiber reinforced bituminous membrane surface treatment, the section shall be posted for a speed limit of 48km/h, (30 mph), for a period of three days. The

signs should be posted at 800-meter (0.5 mile) intervals and signs showing other speed limitations should be covered for this period. All construction signs shall meet the requirements of the NYSMUTCD.

8. Method of Measurement

Fiber reinforced bituminous membrane surface treatment will be measured by the number of square meters of compact material in place making no deductions for minor untreated areas such as catch basins and manholes.

BASIS OF PAYMENT

1. Fiber Reinforced Bituminous Membrane Surface Treatment

The unit price bid per square yard per day, plus the addition of any items the agency requires the contractor to furnish. The following items will be performed by the agency, unless otherwise directed:

- a. Manhole covers, water valves, catch basins, and other drainage structures shall be clearly referenced for location and adjustment.
- b. Thermoplastic traffic markings shall be removed
- c. All vegetation at the edge of the pavement shall be removed
- d. Compaction with operator
- e. Furnish aggregate delivered to the Chip-Spreader
- f. Furnish Chip-Spreader
- g. Maintenance and Protection of Traffic
- h. Furnish self- propelled Power Broom or Vacuum

2. Price Adjustment

The price escalation clause for CRS-1p / CRS – 2p under the NYSOGS Liquid Bituminous Materials Bid shall apply to Fiber Reinforced Bituminous Membrane Surface Treatment. **The price adjustment per gallon shall be multiplied by a factor .4 to calculate the price adjustment per square yard.**

Formula

$$\text{Price Adj. Per SY} = \frac{\text{New Ave. FOB - Base Ave Terminal Price}}{235} \times \frac{\text{Total Allowable Petroleum \%}}{X.4}$$

For purposes of this contract, the October 1, 2017 Base Average FOB Terminal Price for Asphalt Cement shall be used. That price is \$421.00/U.S. Ton.

Proposal

THE UNDERSIGNED BIDDER HAS CAREFULLY EXAMINED THE SPECIFICATION for Fiber Reinforced Bituminous Membrane Surface Treatment and agrees to furnish and supply all the materials, equipment, tools and labor necessary to properly install the product requested, in strict conformance to the detailed specification attached. No deviations, amendments, or alternative methods of application or installation of the product or specification will be considered.

Bidders are requested to submit prices per square yard for the (2) types listed. The square yard range is the average daily square yards to be construed on all project locations or work sites.

Company Name

Address

City, State, Zip

Signed by

Title

Date

Email

Telephone Number

Fax Number

**YOU MUST COMPLETE AND RETURN THE BID PRICING FORM
AT THE END OF THIS DOCUMENT**

Bid Sheet

Square Yard Range	FiberMat- Type A	FiberMat- Type B
1-5,000 SY/Day	\$_____ /SY	\$_____ /SY
5,001 – 10,000 SY/DAY	\$_____ /SY	\$_____ /SY
10,001 – 20,000 SY/DAY	\$_____ /SY	\$_____ /SY
20,001 – 40,000 SY/DAY	\$_____ /SY	\$_____ /SY
40,000+ SY/DAY	\$_____ /SY	\$_____ /SY

OPTIONAL ADDITIONAL ITEMS (if Agency elects to require contractor to provide any or all of these items)

- A.\$_____ /SY if Contractor furnishes and delivers aggregate to aggregate Chip Spreader
- B.\$_____ /SY if Contractor furnishes and operates self-propelled aggregate Chip Spreader
- C.\$_____ /SY if Contractor furnishes and operates pneumatic tired roller (per roller)
- D.\$_____ /SY if Contractor furnishes Maintenance and Protection of Traffic as per MUTCD
- E.\$_____ /SY if Contractor furnishes and operates steel wheel roller
- F.\$_____ /SY if Contractor furnishes and operates self-propelled broom or vacuum.