

NOTICE TO BIDDERS

Blacktop Surfacing of Roadways Worcester County, Maryland

The Worcester County Commissioners are currently accepting bids for county-wide surfacing of various sections of roadways in Worcester County to be completed by June 14, 2019 and requiring approximately 14,196 Tons of Superpave 9.5 mm Bituminous Concrete for paving of roughly 13.59 miles of road and to furnish and install roughly 12,220 square yards of Hatelit G-50 paving fabric with performance grade asphalt to approximately 1.02 miles of road for the Roads Division of the Worcester County Department of Public Works. The work will also include approximately 2,332 Tons of Superpave 9.5 mm Bituminous Concrete for paving of roughly 1.90 miles of road for the Solid Waste Division of Public Works. Bid specification packages and bid forms are available from the Office of the County Commissioners, Room 1103 - Worcester County Government Center, One West Market Street, Snow Hill, Maryland 21863, obtained online under the "Bids" drop-down menu in the lower right hand side of the home page at www.co.worcester.md.us or by calling the Commissioners' Office at 410-632-1194 to request a package by mail. **Sealed bids will be accepted until 1:00 PM, Monday, February 25, 2019** in the Office of the County Commissioners at the above address, at which time they will be opened and publicly read aloud. Envelopes shall be marked "**Blacktop Bid**" in the lower left-hand corner. After opening, bids will be forwarded to the Department of Public Works for tabulation, review and recommendation to the County Commissioners for their consideration at a future meeting. In awarding the bid, the Commissioners reserve the right to reject any and all bids, waive formalities, informalities and technicalities therein, and to take whatever bid they determine to be in the best interest of the County considering lowest or best bid, quality of goods and work, time of delivery or completion, responsibility of bidders being considered, previous experience of bidders with County contracts, or any other factors they deem appropriate. All inquiries shall be directed to Frank Adkins, Roads Superintendent, at 410-632-2244, Monday through Thursday, 6:00 am to 4:30 pm.

Bid Specifications

The Worcester County Commissioners are currently accepting bids on Bituminous Concrete. Sealed bids will be accepted until **1:00 PM, Monday, February 25, 2019**, at the Worcester County Commissioners Office, Room 1103, Worcester County Government Center, One West Market Street, Snow Hill, MD 21863 at which time they will be opened and publicly read aloud. After opening, bids will be forwarded to the Department of Public Works for tabulation, review and recommendation to the County Commissioners for award at a future date. **Envelopes must be marked in lower left corner with "Blacktop Bid"**.

The work is to be completed by **June 14, 2019**. No bid bond is required. If all work is not completed as specified within liquidated damages shall be imposed as stated. **A pre-construction meeting will be required within five (5) days prior to commencement of work.**

ITEM 1 - BLACK TOP SPECIFICATIONS:

All paving will be done in accordance with the requirements and covenants of the Maryland State Highway Administration's Specifications of March 1968 and all subsequent addenda thereto, the plans of the proposed improvements and the special provisions contained herein.

The contractor will provide, erect and maintain all necessary barricades, danger signals and signs provide sufficient number of **certified flaggers** and take all necessary precaution for the protection of the work and safety of the public.

Part A-1 and Part C - The contractor will use Bituminous Concrete Material Surface Course which will be placed at approximately **one and one-half (1-1/2)** inches± compacted depth, Superpave 9.5mm. Quantities are approximate and unit prices shall apply regardless of any increase or decrease in the estimated quantities.

Part A-2 - The contractor will use Bituminous Concrete Material Surface Course which will be placed at approximately **two (2)** inches± compacted depth during the installation of paving fabric as described in item 2, Superpave 9.5mm. Quantities are approximate and unit prices shall apply regardless of any increase or decrease in the estimated quantities.

This item, "Bituminous Concrete", shall be paid for on a per ton basis, which price and payment shall constitute full compensation for furnishing, hauling and placing, preparation of all materials and for all labor, equipment, tools and incidentals necessary to complete this item. All milling of joints are to be included in bid price which include but not limited to driveways, intersections, curbing, etc. Milled joints are to be adequately signed and shall not be milled more than 1 day prior to paving. Any wedging of roads to be paved shall be determined by the inspector or Roads Superintendent. The tons of bituminous concrete required for wedging shall be deducted from the total tons required for paving "said road" or will be deducted from the total tons required for the entire project.

A materials laboratory under the direction of a competent laboratory technician or engineer shall be available at the plant site at all times during the mixing of bituminous concrete. Bitumen extraction, marshall, stability tests and aggregate gradation will be required at the discretion of the engineer. This will not be a pay item and considered as incidental to the construction.

Miscellaneous: **No work will be performed on weekends or holidays.**

Warranty:

All work and materials shall be warranted for a period of one year. This shall include but not be limited to slippage or tearing.

Description:

The project requires the furnishing and application of all specified asphalt and Aggregate cover materials. The contractor provides all necessary labor, equipment and materials, including maintenance of traffic items.

Asphalt distributing equipment per SHA specifications.

Power broom required. See following section below.

The contractor shall use two (2) 12-15 ton steel wheel rollers. Anything less will **not** be accepted.

Contractor shall assign a sufficient number of trucks to each job site to allow for continuous paving of each road without affecting the efficiency of the paving process. The amount of trucks will be determined sufficient by either the inspector or the Roads Superintendent. If the amount of trucks is determined to be insufficient, then the operation will cease until these corrections are made.

Contractor shall ensure that a sufficient of employees is on-site to complete the job in a safe and efficient manner. This will be determined by the inspector or Roads Superintendent. If it is determined that the number of employees are insufficient, then the operation will cease until these corrections are made.

All other equipment per SHA specifications or as required for successful prosecution of the work.

Weather:

Referenced SHA section 503.03.02

Foundation Preparation:

The County will trim the shoulders of roads to be paved.

The County will patch all ruts or potholes as deemed necessary.

The contractor shall power broom the surface to remove all loose and foreign materials prior to application of the asphalt. The power broom, operator, fuel, maintenance, and traffic control will not be paid for directly, and is considered incidental to the pay items in the schedule of prices.

Verification:

The type, quantity, and temperature of asphalt material applied must be verified to the satisfaction of the inspector.

Maintenance, Protection and Performance of the Work:

The contractor shall exercise control of the delivery and application of asphalt materials to prevent damage to the roadway surface. Contractor shall be responsible for all delivery trucks and operators to assure no damage is done to recently laid mat. Delivery drivers will not be allowed to use diesel fuel for the purpose of cleaning dump bodies of the trucks in area where new mat is to be laid.

Communication: Any communication efforts with manufacturer and/or subcontractors need to be coordinated by the successful bidder.

ITEM II – PAVING FABRIC SPECIFICATIONS – Part B:

Description:

This work consists of furnishing and placing high strength geosynthetic reinforcement within the pavement structure.

The contractor will provide, erect and maintain all necessary barricades, danger signals and signs provide sufficient number of **certified flaggers** and take all necessary precaution for the protection of the work and safety of the public.

A manufacturer's representative must be present, at minimum, for the first day of installation of the pavement interlayer and available thereafter upon request by the contractor or Department of Public Works Director or Roads Superintendent.

References:

American Society for Testing and Materials (ASTM)

1. D 4354 Practice for Sampling of Geosynthetics for Testing
2. D 6637 Test method for tensile properties of geogrids
3. D 4759 Practice for determining the specification conformance of geosynthetics
4. D 4873 Guide for identification, storage, and handling of geotextiles

Definitions:

Minimum Average Roll Value (MARV): Property calculated as typical minus two standard deviations. Statistically, it yields a 95.0% degree of confidence that any sample taken during assurance testing will exceed value reported.

Submittals:

The contractor shall provide to the Roads Superintendent a certificate stating the name of the manufacturer, product name, style number, chemical composition of the product and other pertinent information to fully describe the geosynthetic. The certification shall state that the furnished geosynthetic meets MARV requirements of the specification as evaluated under the manufacturer's quality control program.

Manufacturer Qualifications:

The manufacturing facility shall be ISO 9001 registered.

Delivery, Storage, and Handling:

A. Contractor shall inspect the roll goods upon delivery to ensure that the proper material has been received.

B. During all periods of shipment and storage, the rolls shall be wrapped in a protective poly wrap and not exposed to temperatures exceeding 150°F. General storage and handling of the rolls shall be in accordance with procedures identified in ASTM D 4873. Product labels shall clearly show the manufacturer or supplier name, style number, and roll number.

Product:

Materials – Geosynthetic Pavement Interlayer

The pavement interlayer shall consist of continuous fiberglass filaments with a bituminous asphalt coating and a lightweight polypropylenes nonwoven fabric bonded to the glass grid. The material shall conform to the physical properties in Table 1. All values are Minimum Average Roll Values (MARV) based on a 95% confidence level unless a range is indicated.

TABLE 1 – Physical Properties for Pavement Interlayer	
Property	Units
Mass/Unit Area, oz/yd² (ASTM D 5261)	9.5
Aperture Size, inches (measured)	1.2 x 1.2
Open Area of Grid, (CWO 22125)	>80%
Tensile Strength-Single Rib, lb/ft (ASTM D 6637)	3,425 x 3,425
Elongation at Break, % (ASTM D 6637)	<3%
Identification of Fibers, °F (°C) (ASTM D 276)	490 (255)
Asphalt Retention, (ASTM D-6140)	0.10 gal/yd ²
Roll Size, feet	12.8 x 492.1

Acceptable products for this specification are Hatelit G50 from Huesker, Inc., Charlotte, NC or equivalent.

Geogrid delivered to the site shall be subject to sampling and testing to verify specification conformance. Sampling for conformance testing shall be in accordance with ASTM D 4354 and performed at the contractor’s expense. Conformance of the geogrid material shall be established in accordance with ASTM D 4759 and Table 1 physical properties.

Geosynthetic Installer Qualification:

Geosynthetic asphalt reinforcement material shall be installed using a manufacturer’s approved certified installer.

The manufacturer certified installer shall submit a proven record of at least 1 million square yards of installed geosynthetic reinforcement material in the last 5 years.

Preparation:

Surface Preparation: The material must always be installed between bituminous surfaces. A non-bituminous surface should be covered with a bituminous regulating surface. The surface upon which the material is to be placed shall be free of all loose milled asphalt, dirt, gravel, water, and vegetation. Any cracks wider than ¼ of an inch shall be sealed with an asphalt sealer meeting the requirements of the asphalt sealer specifications. Repair larger cracks, potholes, depressions, and irregularities. A leveling course may be required should irregularities be excessive.

The County will trim the shoulders of roads to have G50 Hatelit Paving Fabric installed and paved. The County will patch all potholes as deemed necessary.

Application of Tack Coat: A tack coat must be applied uniformly and without streaking to the pavement surface prior to installation of the Geogrid reinforcement. Tack coat shall be 100% of performance grade asphalt binder (Example PG64-22). Tack coat shall be applied per manufacturer’s installation guidelines and based on project site-specific conditions.

Installation:

Material Placement: The geogrid shall be placed directly onto the tack coat, with the geotextile fabric facing down and the geogrid facing up. The geogrid shall be installed taut, without any folds or creases.

Overlap shall be six (6) inches on roll edges and ten (10) inches at roll ends. Overlap the geogrid in a shingle fashion so that the paving train does not lift the leading edge of the overlap.

At all geogrid-to-geogrid overlaps at roll ends or curves, spray additional hot tack coat between the geogrid layers and seal tight.

Asphalt Overlay: Place a minimum of 1.5 inches of compacted hot mix asphalt above the geogrid or in accordance with project specifications. The paver and delivery vehicles should move carefully over the geogrid-covered surface to avoid displacement. Sharp turns, rapid changes in speed and hard braking should be avoided.

Technical Support: During the initial phases of installation of pavement reinforcing geogrid, a manufacturer's representative can be requested to be available on site to provide technical support, supervision, and instruction.

Weather: Proper weather conditions for installation of G50 Hatelit paving fabric to be determined by manufacturer.

Communication: Any communication efforts with manufacturer and/or subcontractors need to be coordinated by the successful bidder.

Warranty: All work and materials shall be warranted for a period of one year. This shall include but not be limited to slippage or tearing.

ITEM I AND II – SPECIFICATIONS:**POC:**

The contractor shall designate a contact person and telephone number for the handling of complaints or claims of the public due to the contractor's operation.

Mail and paper box care:

The contractor's attention is called to mail or paper boxes on this project that may be within the limit of work. These boxes if required to be moved for equipment shall be the contractor's responsibility. They shall be moved to a suitable location that mail and papers may be received as usual. When construction in a given area has reached the stage that there is no more conflict with such boxes, they shall be placed permanently at or near their original location to conform to U.S. postal requirements. If these boxes or their supports are damaged by the contractor during construction of this project, they shall be repaired or replaced in kind at the contractor's expense. No additional payment will be made to the contractor for adjustments to the existing mail and or paper boxes, but will be considered incidental to other pay items.

MAINTENANCE OF TRAFFIC

Conformance requirements:

SHA "Standard Specifications for Construction and Materials" (SHA Standard Specifications)
section 104
SHA "Book of Highway Standards"
FHA "Manual on Uniform Traffic Control Devices" (MUTCD)

The contractor must maintain traffic at all times throughout the entire length of the project, including public and private and commercial entrances, street intersections, etc.

Traffic Manager (TM) - Traffic Control Plan (TCP)
Referenced SHA section 104.02.03

The contractor shall appoint a Traffic Manager responsible for Maintenance of Traffic conformance requirements. This individual shall develop and submit to the County a Traffic Control Plan suitable to his plan of construction for a given location. This plan will be reviewed with the project inspector and jointly agreed upon prior to starting the work. If during the course of the work adjustments are necessary to traffic control measures the contractor shall take corrective action as required or directed.

Temporary Traffic Signs (TTS):

The contractor shall furnish and install all necessary TTS as required by Sec. 6B of the MUTCD.

Cones:

Cones shall meet the requirements of Sec. 104.14 SHA Standard Specifications.

Flaggers-Pilot Vehicles-Radio Communication:

The contractor shall furnish all necessary MD SHA Certified flag persons in conformance with Section 6F of the MUTCD and Sec. 104.15 of the SHA Standard Specifications. Flaggers shall use STOP/SLOW paddles. Two-way radios or pilot vehicles shall be used whenever flaggers are not within sight distance of each other, or when directed by the Engineer. If there are not enough Certified Flaggers, the paving operation will cease until adequate safety concerns are addressed.

Basis of Payment:

All aforementioned items under this section Maintenance of Traffic will NOT be paid for directly and shall be considered incidental to the other pay items.

MOBILIZATION:

Movement of personnel and equipment to and from the project sites and staging equipment will not be paid for directly and shall be considered incidental to the other pay items.

METHOD OF MEASUREMENT AND BASIS OF PAYMENT

All correspondence and invoices are to be sent to the Worcester County Department of Public Works, Roads Division, 5764 Worcester Highway, Snow Hill, MD 21863. **Please note Part C will need to be billed separately.**

The County Commissioners shall be the sole judge as to whether or not any bid meets specifications. The County Commissioners reserve the right to accept or reject any bid in the best interest of the County.

1. **LIQUIDATED DAMAGES** - For each day that the work shall remain uncompleted after the time specified for completion, the sum per day, given in the following schedule shall be deducted by the County from monies due the Contractor, not as a penalty, but as liquidated damaged.

<u>Amount of Contract</u>	<u>Amount of Liquidated Damages per Day</u>
Less than \$10,000	\$ 80.00
\$10,000 and less than \$50,000	\$160.00
\$50,000 and less than \$100,000	\$240.00
Greater than \$100,000	\$400.00

2. **CONTRACTOR'S INSURANCE** - The contractor shall take out and maintain during the life of this contract, Workmen's Compensation Insurance for all of his or any subcontractor's employees employed at the site of the work; and such Public Liability and Property Damage Insurance as shall protect him from claims which may arise from operations under this contract for personal injury (including accidental death) as well as for property damage - whether such operations are by himself or by any subcontractor, or by anyone directly employed by them.

Public Liability Insurance shall be in the amount not less than \$500,000 for injuries, including wrongful death to any one person; and, subject to the same limit for each person, in an amount not less than \$1,000,000 on account of one accident.

Property Damage Insurance shall be in an amount not less than \$500,000 for damages on account of any one accident, and in an amount not less than \$1,000,000 for damages on account of all accidents.

MEASUREMENT AND PAYMENT

1. **MEASUREMENT OF QUANTITIES** - The Engineer shall make final measurements to determine the quantities of various items of work performed as the basis of final settlement. Pay weight for all items to be paid for by weight shall be determined by actual certified scale weight, certified shipping weight, or by computed weight as specified herein. Materials specified for measurement by tallying of vehicles shall be hauled only in approved units, the carrying capacity of which has been pre-determined. Each hauling unit shall be marked to designate its approved capacity.
2. **PARTIAL PAYMENTS** - Partial payments shall be made monthly in an amount not greater than 90% of the money earned during the pay month. The Contractor shall prepare the application for payment in form satisfactory to the Engineer. Process time shall be thirty (30) days upon receipt.
3. **ACCEPTANCE AND FINAL PAYMENT** - When in the opinion of the Engineer, the Contractor has completed the work in a satisfactory manner in accordance with the terms of the contract, the Engineer shall make final inspection of the entire project and shall certify in writing to the County as to the completion of the work submitting with this report the final estimate showing the amount of each item of work performed as the value thereof.
4. **RELEASE OF LIENS** - The Contractor shall deliver (in a form satisfactory to the owner) a written report to the effect that all bills for labor, materials, and supplies have been paid or satisfactorily secured.
5. **CONSENT OF SURETY** - Projects bonded by a surety bond will require written **CONSENT OF SURETY FOR FINAL PAYMENT.**

BID FORM
Part A-1 and A-2
“FY19 – Blacktop Bid”

Part A-1: I/We have reviewed the specifications and provisions for furnishing and applying approximately 12,838 tons± of Superpave 9.5mm Bituminous Concrete (**1-1/2 inches±** compacted depth) to approximately 12.57 miles± of roads at various locations in Worcester County.

Part A-2: I/We hereby propose to furnish and apply I/We have reviewed the specifications and provisions for furnishing and applying approximately 1,358 tons± of Superpave 9.5mm Bituminous Concrete (**two inches±** compacted depth) to approximately 1.02 miles± of roads at various locations in Worcester County. I/We hereby propose to furnish and apply:

14,196 Tons± Bituminous Concrete @ \$ _____ fixed price per ton = \$ _____

Work is to be completed by **June 14, 2019**.

BID MUST BE SIGNED TO BE VALID.

Date: _____ Signature: _____

Typed Name: _____

Title: _____

Firm: _____

Address: _____

Phone: _____

PROPOSED PAVING FY19 – Part A-1

<i>1-1/2 inches± compacted depth</i>		<u>Length</u>	<u>Width</u>	<u>Tons</u>
Back Creek Road	St Martins Neck Rd - MB #11743	1.74	21'	1786
Bunting Road - South	All	0.62	21'	647
Church Street	All	0.14	16'	110
Danzi Road	All	0.06	22'	65
Danzi Road	All	0.14	36'	246
Danzi Road	cul-de-sac 44' radius			169
Industrial Park Road	Caterpillar Road - Tel Ped #5	0.30	25'	367
Payne Road	Critcher Rd - Va Line	0.32	17'	266
Pennewell Road	All	1.91	19'	1,774
Pitts Road	Old Rt 113 - Church St	0.11	42'	226
Pocomoke Beltway	joint N of RRxng - joint S of Broad St	0.06	40'	117
Sheephouse Road	Buck Harbor Rd - MB #3540	0.62	22'	707
Sheppards Crossing Road	Rt 610 -Shavox Church Road	1.65	19'	1,573
Sheppards Crossing Road	Shavox Church Rd - Nelson Road	1.73	18'	1,522
South Piney Point Road	All	0.65	23'	731
South Piney Point Road	cul-de-sac 38' radius			126
Whitesburg Road	MB 6641 - guardrail at bridge	1.97	20'	1,966
Whitesburg Road - loop	All	0.55	16'	440

Total 12.57 12,838

Proposed FY19 Paving - Part A-2

<i>2 inches± compacted depth</i>		<u>Length</u>	<u>Width</u>	<u>Tons</u>
Dunn Swamp Road	start @ MB 614 towards New Bridge Rd	0.09	22'	129
New Bridge Road	start at MB 1848 to Ped #5	0.17	19'	211
New Bridge Road	start at MB 1217 to Ped #6	0.03	19'	37
New Bridge Road	start at Ped #16 towards Hillman Rd	0.02	18'	23
New Bridge Road	start at MB 1542 towards Dunn Swamp Rd	0.24	19'	297
New Bridge Road	start at MB 1775 towards Hillman Rd	0.17	19'	211
Tulls Corner Road	start at Dunn Swamp Road towards Rt 13	0.30	23'	450

Total 1.02 1,358

BID FORM
Part B
“FY19 – Fabric”

I/We have reviewed the specifications and provisions for furnishing and applying approximately 12,220 square yards± of Hatelit G-50 paving fabric with performance grade asphalt and labor to approximately 1.02 miles± of roads at various locations in Worcester County. I/We hereby propose to furnish and apply:

12,220 Sq Yds± Paving Fabric @ \$ _____ fixed price per sq yard of fabric = \$ _____

Work is to be completed by **June 14, 2019**.

BID MUST BE SIGNED TO BE VALID.

Date: _____ Signature: _____

Typed Name: _____

Title: _____

Firm: _____

Address: _____

Phone: _____

PROPOSED FABRIC FY19 – Part B

		<u>Length</u>	<u>Width</u>	<u>Sq Yds of Fabric</u>
Dunn Swamp Road	start @ MB 614 towards New Bridge Rd	0.09	22'	1,162
New Bridge Road	start at MB 1848 to Ped #5	0.17	19'	1,895
New Bridge Road	start at MB 1217 to Ped #6	0.03	19'	334
New Bridge Road	start at Ped #16 towards Hillman Rd	0.02	18'	211
New Bridge Road	start at MB 1542 towards Dunn Swamp Rd	0.24	19'	2,675
New Bridge Road	start at MB 1775 towards Hillman Rd	0.17	19'	1,895
Tulls Corner Road	start at Dunn Swamp Road towards Rt 13	0.30	23'	4,048

Total 1.02

12,220

BID FORM
Part C
“FY19 – Blacktop Bid”

I/We have reviewed the specifications and provisions for furnishing and applying approximately 2,332 tons± of Superpave 9.5mm Bituminous Concrete (1-1/2 inches± compacted depth) to approximately 1.9 miles± of road for the Solid Waste Division of Public Works. I/We hereby propose to furnish and apply:

2,332 Tons± Bituminous Concrete @ \$ _____ fixed price per ton = \$ _____

Work is to be completed by **June 14, 2019**.

BID MUST BE SIGNED TO BE VALID.

Date: _____ Signature: _____

Typed Name: _____

Title: _____

Firm: _____

Address: _____

Phone: _____

PROPOSED PAVING FY19 – Part C

<i>1-1/2 inches± compacted depth</i>		<u>Length</u>	<u>Width</u>	<u>Tons</u>
Central Site Lane	Rt 113 – Cell 5	1.80	25'	2,200
Central Site Lane	Approach	.04	26'	54
Central Site Lane	Approach	.06	26'	78

Total 1.90 2,332