



POST OFFICE BOX 215
AMITE, LOUISIANA 70422

OFFICE (985) 748-3211
FAX (985) 748-7576

ROBBY MILLER
PARISH PRESIDENT

NOTICE TO BIDDERS

NOTICE IS HEREBY GIVEN THAT SEALED BIDS WILL BE RECEIVED BY THE TANGIPAHOA PARISH GOVERNMENT UNTIL, THURSDAY, MAY 30, 2019, AT 10:00 A.M. IN THE TPC CHAMBERS, 206 E. MULBERRY STREET, AMITE, LOUISIANA ON THE FOLLOWING:

MICRO SURFACE PROGRAM FY 2019

THEN AND THERE BIDS WILL BE OPENED AND READ ALOUD. BIDS RECEIVED AFTER THE SPECIFIED TIME AND DATE WILL NOT BE OPENED OR RECOGNIZED.

SPECIFICATIONS MAY BE PICKED UP AT THE OFFICE OF THE TANGIPAHOA PARISH GOVERNMENT BETWEEN THE HOURS OF 8:00 A.M. - 4:00 P.M., MONDAY THROUGH FRIDAY.

A MANDATORY PRE-BID CONFERENCE FOR THIS PROJECT WILL BE HELD ON THURSDAY, MAY 16, 2019 AT 11:00 A.M. IN THE TANGIPAHOA PARISH GOVERNMENT ANNEX OFFICE, 206 E, MULBERRY STREET, AMITE, LOUISIANA.

TANGIPAHOA PARISH GOVERNMENT OFFICIAL BID DOCUMENTS ARE POSTED ON www.centralbidding.com.

THE TANGIPAHOA PARISH GOVERNMENT RESERVES THE RIGHT TO REJECT BIDS IN ACCORDANCE WITH THE LAW.

S/DONNA DOMIANO
PURCHASING AGENT

DAILY STAR
PLEASE PUBLISH APRIL 30, 2019 & MAY 7 & 14, 2019

COUNCIL

TRENT FORREST
DISTRICT 1
EMILE "JOEY" MAYEAUX
DISTRICT 6

JAMES BAILEY
DISTRICT 2
LIONELL WELLS
DISTRICT 7

LOUIS "NICK" JOSEPH
DISTRICT 3
DAVID P. VIAL
DISTRICT 8

CARLO S. BRUNO
DISTRICT 4
HARRY LAVINE
DISTRICT 9

H. G. "BUDDY" RIDGEL
DISTRICT 5
BOBBY CORTEZ
DISTRICT 10

NOTICE TO BIDDERS

NOTICE IS HEREBY GIVEN THAT SEALED BIDS WILL BE RECEIVED BY THE TANGIPAHOA PARISH GOVERNMENT UNTIL, THURSDAY, MAY 30, 2019 AT 10:00 A.M. IN THE TPC CHAMBERS, COURTHOUSE ANNEX, 206 E. MULBERRY STREET, AMITE, LOUISIANA ON THE FOLLOWING:

Micro Surface Program FY 2019

THEN AND THERE BIDS WILL BE OPENED AND READ ALOUD. BIDS RECEIVED AFTER THE SPECIFIED TIME AND DATE WILL NOT BE OPENED OR RECOGNIZED.

SPECIFICATIONS MAY BE PICKED UP AT THE OFFICE OF THE TANGIPAHOA PARISH GOVERNMENT BETWEEN THE HOURS OF 8:00 A.M. - 4:00 P.M., MONDAY THROUGH FRIDAY.

A MANDATORY PRE-BID CONFERENCE FOR THIS PROJECT WILL BE HELD AT 11:00 A.M., THURSDAY, MAY 16, 2019, IN THE TANGIPAHOA PARISH GOVERNMENT ANNEX OFFICE, 206 E. MULBERRY STREET, AMITE, LA 70422. THE CONTRACT DURATION OF THE PROJECT IS 90 CALENDAR DAYS FROM THE EFFECTIVE DATE OF THE NOTICE TO PROCEED.

THE TANGIPAHOA PARISH GOVERNMENT RESERVES THE RIGHT TO REJECT BIDS IN ACCORDANCE WITH LAW.

S/DONNA DOMIANO
PURCHASING AGENT

DAILY STAR
PLEASE PUBLISH APRIL 30, 2019 &
MAY 7, & 14, 2019

Advertise Date	4/30/19, 5/7/19, 5/14/19
Mandatory Pre bid	MAY 16, 2019
Bid Opening Date	MAY 30, 2019
Ratification By Council	JUNE 10, 2019
Pre-Construction Meeting	JUNE 14, 2019
Notice To Proceed	JULY 1, 2019
End Date	SEPTEMBER 28, 2019

Micro Surface Program FY 2019

NOTICE TO CONTRACTORS

SEALED BIDS WILL BE RECEIVED FOR THE CONSTRUCTION OF THIS PROJECT BY THE TANGIPAOA PARISH GOVERNMENT, COUNCIL CHAMBERS, COURTHOUSE ANNEX BUILDING, P.O. BOX 215, AMITE, LOUISIANA, 70422 (206 EAST MULBERRY STREET, AMITE, LOUISIANA) UNTIL 10:00 A.M. ON *THURSDAY, MAY 30, 2019* AT WHICH TIME AND PLACE BIDS WILL BE PUBLICLY OPENED AND READ ALOUD. PROPOSALS RECEIVED AFTER SPECIFIED TIME AND DATE WILL NOT BE OPENED OR RECOGNIZED.

THE TANGIPAOA PARISH GOVERNMENT RESERVES THE RIGHT TO REJECT BIDS IN ACCORDANCE WITH LAW.

CONTRACTING AGENCY: TANGIPAOA PARISH GOVERNMENT

PROPOSAL GUARANTY: 5% OF BID PROPOSAL
(See Standard Bid Bond Form)

BIDS SHOULD BE SUBMITTED IN A SEALED ENVELOPE MARKED:

Micro Surface Program FY 2019
Contractor Name
Contractor License No.

WINNING BIDDER WILL BE REQUIRED TO POST A
50% PERFORMANCE BOND AND A 50% PAYMENT BOND

LOUISIANA UNIFORM PUBLIC WORK BID FORM

TO: Tangipahoa Parish Government
P. O. Box 215, Amite, LA 70422
(Courthouse Annex Building
206 East Mulberry St., Amite)

BID FOR: Micro Surface Program FY 2019

The undersigned bidder hereby declares and represents that she/he; a) has carefully examined and understands the Bidding Documents, b) has not received, relied on, or based his bid on any verbal instructions contrary to the Bidding Documents or any addenda, c) has personally inspected and is familiar with the project site, and hereby proposes to provide all labor, materials, tools, appliances and facilities as required to perform, in a workmanlike manner, all work and services for the construction and completion of the referenced project, all in strict accordance with the Bidding Documents prepared by: _____ and dated: _____

(Owner to provide name of entity preparing bidding documents.)

Bidders must acknowledge all addenda. The Bidder acknowledges receipt of the following **ADDENDA**:

No. _____ Dated: _____ No. _____ Dated: _____ No. _____ Dated: _____
No. _____ Dated: _____ No. _____ Dated: _____ No. _____ Dated: _____

BASE BID: For all work required by the Bidding Documents (including any and all unit prices but not alternates) the sum of Dollars (\$ _____)

ALTERNATES: For any and all work required by the Bidding Documents for Alternates.

Alternate No. 1 (Owner to provide description of alternate and state whether add or deduct) for the lump sum of:

_____ Dollars (\$ _____)

Alternate No. 2 (Owner to provide description of alternate and state whether add or deduct) for the lump sum of:

_____ Dollars (\$ _____)

Alternate No. 3 (Owner to provide description of alternate and state whether add or deduct) for the lump sum of:

_____ Dollars (\$ _____)

NAME OF BIDDER: _____

ADDRESS OF BIDDER: _____

LOUISIANA CONTRACTOR'S LICENSE NUMBER: _____

NAME OF AUTHORIZED SIGNATORY OF BIDDER: _____

TITLE OF AUTHORIZED SIGNATORY OF BIDDER: _____

SIGNATURE OF AUTHORIZED SIGNATORY OF BIDDER*: _____

DATE: _____

* If someone other than a corporate officer signs for the Bidder/Contractor, a copy of a corporate resolution or other signature authorization shall be required for submission of bid. Failure to include a copy of the appropriate signature authorization, if required, may result in the rejection of the bid unless bidder has complied with La. R.S. 38:2212(A)(1)(c) or RS 38:2212(O) .

BID SECURITY in the form of a bid bond, certified check or cashier's check as prescribed by LA RS 38:2218.A is attached to and made a part of this bid. If a bid bond is provided it shall be on the attached form and only on the attached form.

TO: Tangipahoa Parish Government
 P. O. Box 215, Amite, LA 70422
 (Courthouse Annex Building
 206 East Mulberry St., Amite)

LOUISIANA UNIFORM PUBLIC WORK BID FORM
UNIT PRICE FORM
 Micro Surface Program FY 2019

BID FOR: Tangipahoa Parish Government

The Unit Price Form shall be used if the contract includes unit prices. Otherwise it is not required and need not be included with the form. The number of unit prices that may be included is not limited and additional sheets may be included if needed.

UNIT PRICES: This form shall be used for any and all work required by the Bidding Documents, and described as unit prices. Amounts shall be stated in figures and only in figures.

DESCRIPTION: MICROSURFACE		UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity X Unit Price)
REF. NO.	QUANTITY:			
NS-500	77458.0	SQUARE YARDS		
DESCRIPTION: MOBILIZATION				
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (QUANTITY X UNIT PRICE)
727.01	50	MOB		
DESCRIPTION: PLASTIC PAVEMENT STRIPING BROKEN LINE (4" WIDTH)				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity X Unit Price)
732-03	5.13	MILES		

All quantities are estimated. The contractor will be paid based upon actual quantities as verified by the Owner.

BID BOND
FOR
Micro Surface Program FY 2019

Date: _____

KNOW ALL MEN BY THESE PRESENTS:

That _____ of _____, as Principal, and _____, as Surety, are held and firmly bound unto the _____ (Obligee), in the full and just sum of five (5%) percent of the total amount of this bid, including all alternates, lawful money of the United States, for payment of which sum, well and truly be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally firmly by these presents.

Surety represents that it is listed on the current U. S. Department of the Treasury Financial Management Service list of approved bonding companies as approved for an amount equal to or greater than the amount for which it obligates itself in this instrument or that it is a Louisiana domiciled insurance company with at least an A - rating in the latest printing of the A. M. Best's Key Rating Guide. If surety qualifies by virtue of its Best's listing, the Bond amount may not exceed ten percent of policyholders' surplus as shown in the latest A. M. Best's Key Rating Guide.

Surety further represents that it is licensed to do business in the State of Louisiana and that this Bond is signed by surety's agent or attorney-in-fact. This Bid Bond is accompanied by appropriate power of attorney.

THE CONDITION OF THIS OBLIGATION IS SUCH that, whereas said Principal is herewith submitting its proposal to the Obligee on a Contract for Micro Surface Program FY 2019

NOW, THEREFORE, if the said Contract be awarded to the Principal and the Principal shall, within such time as may be specified, enter into the Contract in writing and give a good and sufficient bond to secure the performance of the terms and conditions of the Contract with surety acceptable to the Obligee, then this obligation shall be void; otherwise this obligation shall become due and payable.

PRINCIPAL (BIDDER)

SURETY

BY: _____
AUTHORIZED OFFICER-OWNER-PARTNER

BY: _____
AGENT OR ATTORNEY-IN-FACT(SEAL)

STATE OF LOUISIANA

PARISH /COUNTY OF TANGIPAHOA

Before Me, the undersigned authority, duly commissioned and qualified within and for the state and parish or county aforesaid, personally came and appeared _____
_____ representing _____. Who, being by me first duly sworn
deposed and said that he or she has read and signed this Affidavit and he/she does hereby attest, under oath,
as follows:

- (1) That affiant and his or her firm is registered and participates in a status verification system to verify that all employees in the State of Louisiana are legal citizens of the United States or are legal aliens;
- (2) That affiant and his or her firm will continue, during the term of any contract with the Tangipahoa Parish Government, to utilize a status verification system to verify the legal status of all new employees in the State of Louisiana; and
- (3) That affiant and his or her firm will require all subcontractors to submit to them and /or their employer a sworn Affidavit verifying compliance with paragraphs (1) and (2) of this Affidavit.

Prospective bidder or representative to sign and type or print name below signature.

Affiant - Signature

Print Name

SWORN TO AND SUBSCRIBED BEFORE ME THIS _____ day of _____, 2019

NOTARY PUBLIC

AFFIDAVIT

**ATTESTATION CLAUSE REQUIRED BY
LA. R.S. 38:2227 (PAST CRIMINAL CONVICTIONS OF BIDDERS)**

Sworn statements shall be submitted in the form of an affidavit as indicated below, executed and sworn to by the bidder before persons authorized by laws of the State to administer oaths. The original of such sworn statement shall be submitted by the successful bidder before the Award of Contract. The award of Contract shall be within (____) calendar days of the bid opening.

State Project Number: _____ (if applicable)

Name of Project: _____

Parish _____

(an individual)

(a partnership)

(a corporation)

Certify that:

Appearer, as a Bidder on the above-entitled Public Works Project, does hereby attest that:

- A. No sole proprietor or individual partner, incorporator, director, manager, officer, organizer, or member who has a minimum of a ten percent (10%) ownership in the bidding entity named below has been convicted of, or has entered a plea of guilty or nolo contendere to any of the following state crimes or equivalent federal crimes:
- (a) Public bribery (R.S. 14:118)
 - (b) Corrupt influencing (R.S. 14:120)
 - (c) Extortion (R.S. 14:66)
 - (d) Money laundering (R.S. 14:23)
- B. Within the past five years from the project bid date, no sole proprietor or individual partner, incorporator, director, manager, officer, organizer, or member who has a minimum of a ten percent (10%) ownership in the bidding entity named below has been convicted of, or has entered a plea of guilty or nolo contendere to any of the following state crimes or equivalent federal crimes, during the solicitation or execution of a contract or bid awarded pursuant to the provisions of Chapter 10 of Title 38 of the Louisiana Revised Statutes:
- (a) Theft (R.S. 14:67)
 - (b) Identity Theft (R.S. 14:67.16)
 - (c) Theft of a business record (R.S.14:67.20)
 - (d) False accounting (R.S. 14:70)
 - (e) Issuing worthless checks (R.S.14:71)
 - (f) Bank fraud (R.S. 14:71.1)
 - (g) Forgery (R.S. 14:72)
 - (h) Contractors; misapplication of payments (R.S. 14:202)
 - (i) Malfeasance in office (R.S. 14:134)

NAME OF BIDDER

NAME OF AUTHORIZED SIGNATORY OF BIDDER

DATE

TITLE OF AUTHORIZED SIGNATORY BIDDER

WITNESSES:

SIGNATURE OF AUTHORIZED SIGNATORY BIDDER

Parish or county _____ State of _____

Subscribed and sworn to before me the _____ day of _____, 20_____.

NOTARY PUBLIC (signature)

NOTARY PUBLIC (printed name)

NOTARY PUBLIC NUMBER

EXPIRATION

Micro Surface Program FY 2019

GENERAL BIDDING REQUIREMENTS

Bid security is required and must be from a company meeting Parish requirements. The bid must be properly signed, the proposal completed both in numbers and script, and include bidder's Louisiana License Number.

The LA Revised Statutes require that all public works be governed by criteria as set forth by the LA-DOTD and approved by the Chief Engineer of that Agency. The specifications, contract and bonds governing the construction of all public works are contained in these Specifications for Roads and Bridges, together with any supplementary specifications and special provisions attached to this proposal. All prospective bidders are advised that they must be familiar with these requirements if they desire to bid on any public works. The lack of knowledge in this particular may jeopardize the acceptance of future bids.

The plans herein referred to, if any, are the plans approved and marked with the project name, together with all standard or special designs necessary to illustrate the requirements of the public works.

As a condition of this proposal, the bidder declares that he employs no person, corporation, firm, association or other organization, either directly or indirectly, to secure the public contract under which he received payment, other than persons regularly employed by the bidder whose services in connection with the construction, alteration, or demolition of this project or in securing the public contract were in the regular course of their duties for bidder; and that no part of the contract price received by bidder was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the contract, other than the payment of their normal services in connection with the construction, alteration, or demolition of this project were in the regular course of their duties for bidder; that careful examination has been made of the site of the proposed work, the plans, standard specifications mentioned and the form of contract and contract bond; that the bidder agrees, if this proposal is accepted, to provide all necessary machinery, tools, apparatus, and other means of construction and will do all work and furnish all material specified in the contract, in the manner and time therein prescribed and in accordance with the requirements therein set forth; and agrees to accept as full compensation therefore, the amount of the summation of the products of the quantities of work and material incorporated in the completed project, as determined by the Engineer.

It is understood by the bidder that the quantities given in this proposal are a fair approximation of the amount of work to be done and that the sum of the products of these approximate quantities shall constitute the gross sum bid which sum shall be used in comparison of bids and awarding of the contract. The bidder's attention is directed to the sheet listing the items and bidder is advised that the sums must be entered as directed by the item. The failure to do so may jeopardize the bid.

The bidder agrees to execute such change orders as are necessary to fulfill the contract; that he will execute the contract and furnish surety bond in a timely manner.

Micro Surface Program FY 2019

INSURANCE

The Contractor agrees to obtain and continuously maintain, during the life of this contract, such insurance as will protect the Tangipahoa Parish Government and the Contractor from claims for damages because of bodily injury, including death to his employees and all others; and for claims for damages to property and/or all of which may arise from the contractor's operation by anyone directly or indirectly employed by him.

The insurance to be carried by the contractor, certificates of which are to be furnished to the Tangipahoa Parish Government, is noted as follows:

Workman's Compensation Insurance and Employer's Liability Insurance in amounts sufficient to comply with the laws of Louisiana, including the Jones Act and U.S.L. and Harbor Worker's Compensation.

Comprehensive General Public Liability Insurance in the amount of \$300,000.00 for injury or death of an individual and \$900,000.00 for injury or death of more than an individual in any one occurrence, and Property Damages Insurance with limits of \$300,000.00 for any one occurrence.

Automobile Insurance in the amount of \$300,000.00 for injury or death of one person and \$1,000,000.00 for injury or death of more than one person in any one occurrence and Property Damage Insurance to the extent of \$250,000.00 as an aggregate for each occurrence.

The bidder's attention is directed to the requirements of the certificates. He must furnish that certificate upon bid of any project. Thereafter, he may maintain a file copy with the required update at the office of the Tangipahoa Parish Government. Failure to provide this certificate initially will disqualify the bid.

These requirements are subject to change as state law may be amended and insurance companies adjust their rates. These changes will be made available to all prospective bidders.

TECHNICAL SPECIFICATIONS

Item NS-500 MICROSURFACING

1—DESCRIPTION

Microsurfacing shall consist of a mixture of polymer-modified emulsified asphalt, mineral aggregate, water, and additives, proportioned, mixed and uniformly spread over a properly prepared surface as directed by the Engineer. Microsurfacing should be capable of performing in variable thickness cross-sections such as ruts, scratch courses and milled surfaces. After curing and initial traffic consolidation, it should resist further compaction.

The Microsurfacing shall be applied as a homogeneous mat, adhere firmly to the prepared surface, and have a skid resistant texture throughout its service life.

The Microsurfacing system shall accept straight, rolling traffic on a half-inch thick (½" th.) surface within one hour after placement in specific application conditions. Stopping and starting traffic may require additional curing time.

Microsurfacing, surface preparation, and subsequent roadway markings shall be included in the unit prices and overall bid submitted.

2—MATERIALS

2.1 EMULSIFIED ASPHALT

2.1.1 GENERAL

The emulsified asphalt shall be polymer modified. The polymer material shall be milled or blended into the asphalt or emulsifier solution prior to the emulsification process. In general, a three percent (3%) polymer solids, based on asphalt weight, is considered minimum.

2.1.2 QUALITY TESTS

The emulsified asphalt, and emulsified asphalt residue, shall meet the requirements of AASHTO M 208 or ASTM D 2397 for CQS-1h, with limited exceptions per "Recommended Performance Guideline for Micro Surfacing – A143 (Revised February 2010)".

2.2 AGGREGATE

2.2.1 GENERAL

The mineral aggregate used shall be the type specified for the particular application requirements of the micro surfacing. The aggregate shall be a crushed stone such as granite, slag, limestone, chat, or other high-quality aggregate, or combination thereof. To assure the material is 100 percent crushed, the parent aggregate will be larger than the largest stone in the gradation used.

2.2.2 QUALITY TESTS

The aggregate should meet agency specified polishing values and the minimum requirements per "Recommended Performance Guideline for Micro Surfacing – A143 (Revised February 2010)".

2.2.3 GRADATION

When tested in accordance with AASHTO T 27 (ASTM C 136) and AASHTO T 11 (ASTM C 117), the mix design aggregate gradation shall be within one of the following bands:

Sieve Size	Percent Passing		Stockpile
	Type II	Type III	Tolerance
3/8"	100	100	
#4	90 - 100	70 - 90	+5%
#8	65 - 90	45 - 70	+5%
#16	45 - 70	28 - 50	+5%
#30	30 - 50	19 - 34	+5%
#50	18 - 30	12 - 25	+4%
#100	10 - 21	7 - 18	+3%
#200	5 - 15	5 - 15	+2%

The gradation of the aggregate stockpile shall not vary by more than the stockpile tolerance from the mix design gradation (indicated in the table above) while also remaining within the specification gradation band. The percentage of aggregate passing any two successive sieves shall not change from one end of the specified range to the other end.

The aggregate will be accepted at the job location or stockpile based on five gradation tests sampled according to AASHTO T 2 (ASTM D 75). If the average of the five tests is within the stockpile tolerance from the mix design gradation, the material will be accepted. If the average of those test results is out of specification or tolerance, the contractor will be given the choice to either remove the material or blend additional aggregate with the stockpile material to bring it into compliance. Materials used in blending must meet the required aggregate quality test specifications in Section 2.2.2 before blending and must be blended in a manner to produce a consistent gradation.

Aggregate blending may require a new mix design. Screening shall be required at the stockpile if there are any problems created by oversized materials in the mix.

Type II. This aggregate gradation is used to fill surface voids, address surface distresses, seal, and provide a durable wearing surface.

Type III. This aggregate gradation provides maximum skid resistance and an improved wearing surface. This type of micro surfacing surface is appropriate for heavily traveled pavements, rut filling, or for placement on highly textured surfaces requiring larger size aggregate to fill voids.

2.3 MINERAL FILLER

Mineral filler may be used to improve mixture consistency and to adjust mixture breaking and curing properties. Portland cement, hydrated lime, limestone dust, fly ash, or other approved filler meeting the requirements of ASTM D 242 shall be used if required by the mix design.

Typical use levels are normally 0.0 - 3.0 percent and may be considered part of the aggregate gradation.

2.4 WATER

The water shall be free of harmful salts and contaminants. If the quality of the water is in question, it should be submitted to the laboratory with the other raw materials for the mix design.

2.5 ADDITIVES

Additives may be used to accelerate or retard the break/set of the micro surfacing. Appropriate additives, and their applicable use range, should be approved by the laboratory as part of the mix design.

3—LABORATORY EVALUATION

3.1 GENERAL

Before the work begins, the contractor shall submit a signed mix design covering the specific materials to be used on the project. This design will be performed by a laboratory which has experience in

designing micro surfacing. After the mix design has been approved, no material substitution will be permitted unless approved by the Engineer. [Note: the "International Slurry Surfacing Association", ISSA, can provide a list of laboratories experienced in micro surfacing design.]

3.2 MIX DESIGN

Compatibility of the aggregate, polymer-modified emulsified asphalt, water, mineral filler, and other additives shall be evaluated in the mix design. The mix design shall be completed using materials consistent with those supplied by the contractor for the project. Recommended tests and values are as listed in the "Recommended Performance Guideline for Micro Surfacing – A143 (Revised February 2010)", particularly article "5.2".

The laboratory should verify that mix and set times are appropriate for the climatic conditions expected during the project.

The laboratory shall also report the quantitative effects of moisture content on the unit weight of the aggregate (bulking effect) according to AASHTO T19 (ASTM C29).

The percentage of each individual material required shall be shown in the laboratory report.

Based on field conditions, adjustments within the specific ranges of the mix design may be required.

The component materials shall be designed within the following limits:

COMPONENT MATERIALS SUGGESTED LIMITS

Residual Asphalt: 5.5 - 10.5% by dry weight of aggregate

Mineral Filler: 0.0 - 3.0% by dry weight of aggregate

Polymer Content: Minimum of 3.0% solids based on bitumen weight content

Additives: As needed

Water: As required to produce proper mix consistency

4—EQUIPMENT

4.1 GENERAL

All equipment, tools, and machines used in the application of micro surfacing shall be maintained in satisfactory working condition at all times.

4.2 MIXING EQUIPMENT

The machine shall be specifically designed and manufactured to apply micro surfacing. The material shall be mixed by an automatic-sequenced, self-propelled micro surfacing mixing machine. It shall be a continuous-flow mixing unit that accurately delivers and proportions the mix components through a revolving multi-blade, double-shafted mixer. Sufficient storage capacity for all mix components is required to maintain an adequate supply to the proportioning controls.

When specifying continuous machinery to minimize transverse joints, the specified machine must be capable of loading materials while continuing to apply micro surfacing. The continuous-run machine shall be equipped to provide the operator with full control of the forward and reverse speeds during application. It shall be equipped with opposite-side driver stations to assist in alignment. The self-loading device, opposite-side driver stations, and forward and reverse speed controls shall be of original-equipment-manufacturer design.

4.3 PROPORTIONING DEVICES

Individual volume or weight controls for proportioning mix components shall be provided and properly labeled. These proportioning devices are used in material calibration to determine the material output at any time.

4.4 SPREADING EQUIPMENT

The mixture shall be agitated and spread uniformly in the surfacing box by means of twinshafted paddles or spiral augers fixed in the spreader box. A front seal shall be provided to insure no loss of the mixture at the road contact point. The rear seal shall act as a final strike-off and shall be adjustable. The spreader box and rear strike-off shall be so designed and operated that a uniform consistency is achieved and a free flow of

material is provided to the rear strike-off. The spreader box shall have suitable means provided to side shift the box to compensate for variations in the pavement geometry.

4.4.1 SECONDARY STRIKE-OFF

A secondary strike-off shall be provided to improve surface texture. The secondary strike-off shall be adjustable to match the width of the spreader box and allow for varying pressures to control the surface texture.

4.4.2 RUT-FILLING EQUIPMENT

When project plans require, Micro Surfacing material may be used to fill ruts, utility cuts, depressions in the existing surface, etc. Ruts of ½" or greater in depth, shall be filled independently with a rut-filling box, 5 ft or 6 ft in width. Ruts that are in excess of 1-½" in depth may require multiple applications with the rut-filling box to restore the cross-section.

When rutting or deformation is less than ½", a full width scratch course may be applied with the spreader box using a metal or stiff rubber strike-off. Apply at a sufficient rate to level the pavement surface.

All rut-filling and level-up material should cure under traffic for at least twenty-four (24) hours before additional material is placed.

4.5 AUXILIARY EQUIPMENT

Suitable surface preparation equipment, traffic control equipment, hand tools, and other support and safety equipment necessary to perform the work shall be provided by the contractor.

5—CALIBRATION

Each mixing unit to be used in the performance of the work shall be calibrated in the presence of the Engineer or an approved representative of the contractor prior to the start of the project.

Previous calibration documentation covering the exact materials to be used may be acceptable, provided that no more than 60 days have lapsed. The documentation shall include an individual calibration of each material at various settings that can be related to the machine metering devices.

Any component replacement affecting material proportioning requires that the machine be recalibrated.

No machine will be allowed to work on the project until the calibration has been completed and/or accepted. The ISSA Inspector's Manual describes a method of machine calibration. ISSA contractors and/or machine manufacturers may also provide methods of machine calibration.

6—WEATHER LIMITATIONS

Micro surfacing shall not be applied if either the pavement or air temperature is below 50°F (10°C) and falling, but may be applied when both pavement and air temperatures are above 45°F (7°C) and rising.

No micro surfacing shall be applied when there is the possibility of freezing temperatures at the project location within 24 hours after application. The micro surfacing shall not be applied when weather conditions prolong opening to traffic beyond a reasonable time.

7—NOTIFICATION AND TRAFFIC CONTROL

7.1 NOTIFICATION

Homeowners and businesses affected by the construction shall be notified at least one day in advance of the surfacing. Should work not occur on the specified day, a new notification shall be distributed.

The notification shall be in the form of a written posting, stating the time and date that the surfacing will take place. If necessary, signage alerting traffic to the intended project should be posted.

7.2 TRAFFIC CONTROL

Traffic control devices shall be in accordance with agency requirements and, if necessary, conform to the requirements of the LaDOTD and the "Manual on Uniform Traffic Control Devices".

Opening to traffic does not constitute acceptance of the work

8—SURFACE PREPARATION

8.1 GENERAL

Immediately prior to applying the micro surfacing, the surface shall be cleared of all loose material, silt spots, vegetation, and other objectionable material. Any standard cleaning method will be acceptable.

If water is used, cracks shall be allowed to dry thoroughly before applying micro surfacing. Manholes, valve boxes, drop inlets and other service entrances shall be protected from the microsurfacing by a suitable method.

The Engineer or approved contractor representative shall approve the surface preparation prior to surfacing.

8.2 TACK COAT

Normally, tack coat is not required unless the surface to be covered is extremely dry and raveled or is concrete or brick.

If required, the emulsified asphalt should be SS, CSS, or the microsurfacing emulsion. Consult with the micro surfacing emulsion supplier to determine dilution stability.

The tack coat may consist of one part emulsified asphalt/three parts water and should be applied with a standard distributor. The distributor shall be capable of applying the dilution evenly at a rate of 0.05-0.15 gallons per sq. yd. The tack coat shall be allowed to cure sufficiently before the application of microsurfacing. Tack coat shall be required where noted on the project plans.

8.3 CRACKS

All pavement surface cracks wider than ¼" shall be treated with an approved crack sealer prior to application of the slurry seal.

9—APPLICATION

9.1 GENERAL

A test strip shall be placed in conditions similar to those expected to be encountered during the project at location mutually agreed between the Engineer and the Contractor. The test strip shall be in close proximity to the project, and shall be a minimum of 20' wide by 40' in length.

When local conditions warrant, the surface shall be fogged with water ahead of the spreader box. The rate of application of the fog spray may be adjusted as the temperature, surface texture, humidity, and dryness of the pavement change.

The microsurfacing shall be of the appropriate consistency upon leaving the mixer. A sufficient amount of material shall be carried in all parts of the spreader at all times so that complete coverage is obtained. Overloading of the spreader box shall be avoided. No lumps or unmixed aggregate shall be permitted. No dry aggregate either spilled from the lay-down machine or existing on the road, will be permitted. No streaks, such as those caused by oversized aggregate or broken mix, shall be left in the finished surface. If excessive streaking develops, the job will be stopped until the contractor proves to the Engineer that the situation has been corrected. Excessive streaking is defined as more than four drag marks greater than ½" wide and 4" long, or 1" wide and 3" long, in any 29.9 square yard area.

No transverse ripples or longitudinal streaks of ¼" in depth will be permitted, when measured by placing a 10 ft straight edge over the surface.

9.2 RATE OF APPLICATION

The microsurfacing mixture shall be of the proper consistency at all times so as to provide the application rate required by the surface condition.

The application rate shall be in accordance with the article "11.2" table in the "Recommended Performance Guideline for Micro Surfacing – A143 (Revised February 2010)".

9.3 JOINTS

No excess buildup, uncovered areas, or unsightly appearance shall be permitted on longitudinal or

transverse joints.

The contractor shall provide suitable width spreading equipment to produce a minimum number of longitudinal joints throughout the project. Where possible, longitudinal joints shall be placed on lane lines.

Partial width passes will only be used when necessary and shall not be the last pass of any paved area.

A maximum of 3" shall be allowed for overlap of longitudinal joints. The joint shall have no more than a 1/4" difference in elevation when measured by placing a 10 ft straight edge over the joint and measuring the elevation difference.

9.4 MIXTURE

The micro surfacing shall possess sufficient stability so that premature breaking of the material in the spreader box does not occur.

The mixture shall be homogeneous during and following mixing and spreading. It shall be free of excess liquids which create segregation of the aggregate.

Spraying of additional water into the spreader box will not be permitted.

9.5 HANDWORK

Areas which cannot be accessed by the mixing machine shall be surfaced using hand squeegees to provide complete and uniform coverage.

If necessary, the area to be hand worked shall be lightly dampened prior to mix placement. As much as possible, handwork shall exhibit the same finish as that applied by the spreader box.

All handwork shall be completed prior to final surfacing.

9.6 LINES

Lines at intersections, curbs, and shoulders will be kept straight to provide a good appearance. If necessary, a suitable material will be used to mask off the end of streets to provide straight lines.

Longitudinal edge lines shall not vary by more than ± 2 in horizontal variance in any 96 ft length.

9.7 ROLLING

Rolling is usually not necessary for microsurfacing on roadways. Airports and parking areas shall be rolled by a self-propelled, 10-ton (maximum) pneumatic tire roller equipped with a water spray system. All tires should be inflated per manufacturer's specifications. Rolling shall not start until the microsurfacing has cured sufficiently to avoid damage by the roller.

Areas which require rolling shall receive a minimum of two (2) full coverage passes.

9.8 CLEAN UP

All utility access areas, gutters and intersections, shall have the micro surfacing removed as specified by the Engineer.

The contractor shall remove any debris associated with the performance of the work on a daily basis.

10—QUALITY CONTROL

10.1 INSPECTION

Inspectors assigned to projects must be familiar with the materials, equipment and application of microsurfacing.

Local conditions and specific project requirements should be considered when determining the parameters of field inspection.

Proper mix consistency should be one of the major areas of inspector concern. If mixes are too dry, streaking, lumping and roughness will be present in the mat surface. Mixes applied too wet will flow excessively and not hold straight lane lines. Excessive liquids may also cause an asphalt-rich surface with segregation.

10.2 MATERIALS

To account for aggregate bulking, it is the responsibility of the contractor to check stockpile moisture content and to set the machine accordingly.

At the Engineer's discretion, material tests may be run on representative samples of the aggregate and emulsion.

Tests will be run at the expense of the Owner. The Engineer will notify the contractor immediately if any test fails to meet the specifications.

10.3 MICROSURFACING

If required, representative samples of the micro surfacing may be taken directly from the microsurfacing machine. Residual asphalt content (ASTM D2172) tests may be run on the samples at the expense of the Owner.

The Engineer will notify the contractor immediately if any test fails to meet specifications. Data obtained from the proportioning devices on the microsurfacing machine may be used to determine individual material quantities and application rate.

10.4 NON-COMPLIANCE

If any two successive tests fail on the stockpile aggregate, the job shall be stopped.

If any two successive tests on the mix from the same machine fail, the use of the machine shall be suspended. It will be the responsibility of the contractor, at his expense, to prove to the Engineer that the problem(s) have been corrected.

11—METHODS OF MEASUREMENT

11.1 AREA

The method of measurement for Item NS-500 Micro Surface are based on the area covered, measured in SQUARE YARDS.

12—PAYMENT

The microsurfacing shall be paid for by the unit area ("per SQUARE YARD") at the contract unit price bid for Item NS-500 as accepted by the Engineer, which payment shall be constitute full compensation for all preparation, mixing and application of materials, and for all labor, equipment, tools, testing, cleaning, and incidentals necessary to complete the job as specified herein.

SPECIAL PROVISIONS

SIGNS & BARRICADES

The Contractor will provide adequate signs, barricades, and warning devices to protect the public and his personnel and minimize inconvenience to vehicular traffic. This may include lighting devices at night and during inclement weather to adequately warn of personnel, equipment, materials and/or work sites that are left in a hazardous location or condition. Such signs, barricades and warning devices shall be **appropriately** and **timely** placed before work commences and be **timely** removed when work is completed. The costs incurred in this operation will be reflected in bid items and, of itself, be due no monies. All construction and advance construction signs must be removed within ten (10) days after a section of road overlay is completed. Note: Completion of a road consists of completion of work and installing permanent striping.

UTILITIES

The Contractor will familiarize himself with existing utilities in the areas of his operations and coordinate any removals and/or relocations with the affected utility company and hold the Parish harmless in this regard.

RIGHT-OF-WAY

The Contractor is advised that no additional rights-of-way or servitudes were acquired and will confine his operation and storage of equipment to the existing roadways. The Contractor may make any arrangements with adjacent property owners that he deems necessary without the Parish being a party thereto.

As stated in the Pre-Bid Conference for this Project, this contract may be extended both by quantity and date.

FUND ALLOCATIONS

The Contractor will be paid monthly estimates in accordance with bid items with 5% retainage. Retainage to be paid when project is complete and after a forty-five (45) day lien period. If the costs of the bid items overrun the estimate, the Parish reserves the right to reduce or eliminate items and/or certain roads. The Parish will, however, attach a list of priorities to assist the bidder in preparing his proposal. The roads are listed in priority order and their quantities estimated accordingly. Any changes to be made to the priority list by the contractor must be pre-approved by the Public Works Director or his designee prior to beginning work activities. Any questions concerning this should be directed to the Office of the Tangipahoa Parish Government Public Works Director as soon as possible.

ITEM 727-01 MOBILIZATION:

This Work Consists of Preparatory Work and Operations, including those Necessary for movement of personnel, equipment, supplies, and incidentals to the project site; The establishment of offices, buildings, and other facilities necessary for work on the project; the cost of bond and any required insurance; and other preconstruction materials.

Mobilization will be paid when the distance from the previous parish road to the next parish road is one mile or more. The distance will be determined by measuring the shortest distance between the two roads. The parish will pay only one mobilization regardless of the number of pieces of equipment that the contractor moves. The parish will determine the order of roads to be improved and will determine which roads qualify for a mobilization charge at the time the task order is issued.

ITEM NO. 732-02 PLASTIC PAVEMENT STRIPING SOLID LINE

The thermoplastic marking material where required shall be four (4") inches wide and applied in a solid line along the edge of pavement as directed by the Public Works Director or his designee.

ITEM NO. 732-03 PLASTIC PAVEMENT STRIPING BROKEN LINE

The thermoplastic marking material where required (on roadways 18' or greater in width) four (4") inches in width by ten (10') feet in length is to be placed along road centerline at intervals of forty (40') feet center-to-center unless otherwise directed by the Public Works Director or his designee.

General Notes

CONTRACT DURATION

Contract duration of the project is 90 calendar days from the effective date of the Notice To Proceed.

STIPULATED DAMAGES

If a road has not been maintained and/or completed in the allotted timeframe not associated with weather conditions or non-excusable delays; the contractor will automatically be subjected to an assessment of stipulated damages in the amount of \$500.00 per day and per road until the road is completed.

