



IFB NO. 20-TA003287CD
ROAD BUILDING MATERIALS AND
SERVICES
(913-71)
JUNE 29, 2020

Manatee County BCC
Procurement Division
1112 Manatee Avenue West Ste 803
Bradenton, FL 34205
purchasing@mymanatee.org

ADVERTISEMENT, INVITATION FOR BID NO. 20-TA003287CD

ROAD BUILDING MATERIALS AND SERVICES

Manatee County, a political subdivision of the State of Florida (hereinafter referred to as County), will receive sealed bids from individuals, corporations, partnerships, and other legal entities authorized to do business in the State of Florida, to provide Road Building Materials and Services, as specified in this Invitation for Bid to include road maintenance and repair services, and the delivery and supply of road building materials.

DATE, TIME AND PLACE DUE:

The Due Date and Time for submission of Bids in response to this IFB is **July 31, 2020 at 3:00 P.M. ET**. Bids must be delivered to the following location: Manatee County Administration Building, 1112 Manatee Ave. W., Suite 803, Bradenton, FL 34205 prior to the Due Date and Time. Bids will be opened immediately following the Due Date and Time at the Manatee County Administration Building, Suite 803 and the Bidder's name and total bid amount will be read aloud. Interested parties may attend the opening.

SOLICITATION INFORMATION CONFERENCE:

No Solicitation Information Conference will be conducted for this solicitation.

DEADLINE FOR QUESTIONS AND CLARIFICATION REQUESTS:

The deadline to submit all questions, inquiries, or requests concerning interpretation, clarification or additional information pertaining to this Invitation for Bid to the Manatee County Procurement Division is July 21, 2020. Questions and inquiries should be submitted via email to the Designated Procurement Contact shown below.

Important: A prohibition of lobbying is in place. Review Section A.15 carefully to avoid violation and possible sanctions.

DESIGNATED PROCUREMENT CONTACT: Chris Daley, CPPO, CPPB, Procurement Project Manager

(941) 749-3048, Fax (941) 749-3034

Email: chris.daley@mymanatee.org

Manatee County Financial Management Department
Procurement Division

AUTHORIZED FOR RELEASE:

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SECTION A, INSTRUCTIONS TO BIDDERS, IFB No. 20-TA003287CD

To receive consideration, entities who submit a response to this Invitation for Bid (Bidders) must meet the minimum qualification requirements and comply with the following instructions. Bid responses (Bids) will be accepted from single business entities, joint ventures, partnerships or corporations.

A.01 BID DUE DATE

The Due Date and Time for submission of Bids in response to this Invitation for Bid (IFB) is **July 31, 2020 at 3:00 P.M. ET**. Bids must be delivered to the following location: Manatee County Administration Building, 1112 Manatee Ave. W., Suite 803, Bradenton, FL 34205 and time stamped by a Procurement representative prior to the Due Date and Time.

Bids received after the Due Date and Time will not be considered. It will be the sole responsibility of the Bidder to deliver its bid to the Manatee County Procurement Division for receipt on or before the Due Date and Time. If a bid is sent by U.S. Mail, courier or other delivery services, the Bidder will be responsible for its timely delivery to the Procurement Division. Bids delayed in delivery will not be considered, will not be opened at the public opening, and arrangements will be made for their return at the Bidder's request and expense.

A.02 PUBLIC OPENING OF BIDS

Sealed Bids will be publicly opened at Manatee County Administration Procurement Division, 1112 Manatee Avenue West, 8th Floor, Suite 803, Bradenton, Florida 34205, in the presence of County officials immediately upon expiration of the Due Date and Time. Bidders or their representatives may attend the Bid opening.

Manatee County will make public at the opening the names of the business entities which submitted a Bid, the city and state in which they reside, and the total bid price. No review or analysis of the Bids will be conducted at the bid opening.

A.03 SUBMISSION OF BIDS

The contents of the Bid sealed package must include:

- One (1) bound original clearly identifying Bidder and marked "ORIGINAL".
- One (1) bound copy clearly identifying Bidder and marked "COPY" with all required information and identical to the original.
- One (1) electronic format copy clearly identifying Bidder with all required information and identical to the original.

Electronic format copy should be submitted on a Universal Serial Bus (USB) portable flash memory drive or compact disc (CD) in MicroSoft Office® or Adobe Acrobat® portable document format (PDF) in one continuous file. Do not password protect or otherwise encrypt electronic Bid copies. Electronic copies must be searchable and contain an identical Bid to the original.

Submit the Bid package in a sealed container with the following information clearly marked on the outside of the package: IFB No. 20-TA003287CD, Road Building Materials and Services, Bidder's name, and Bidder's address.

Bids must be delivered to the Manatee County Procurement Division prior to the Due Date and Time at the following address:

Manatee County
Procurement Division
1112 Manatee Avenue West, Suite 803
Bradenton, FL 34205

A.04 BID FORMS

Bids must include the forms provided in this IFB. If needed, additional pages may be attached to a form. Bidders must fully complete and execute all Bid Forms. Bid Forms must be executed by an authorized official of the company who has the legal authority to bind the company.

A.05 ENVIRONMENTAL SUSTAINABILITY

Bidder shall acknowledge in its Bid if Bidder has an environmental sustainability initiative. In addition, Bidder shall submit with its Bid a brief summary of its environmental sustainability initiative. This information will be used as a determining factor in the award decision when all other factors, including local preference, are otherwise equal.

A.06 STANDARDS FOR MATHEMATICAL ERRORS

1. Bid pricing forms without imbedded mathematical formulas: In the event of multiplication/extension error(s), the unit price shall prevail. In the event of addition error(s) the extension totals will prevail. In the event the dollar amount for contract contingency is omitted, it will be added to the total price of the Bid.
2. Bid pricing forms with imbedded mathematical formulas: Interactive bid pricing forms that contain mathematical formulas may be provided to automate lengthy and complex bid forms. In the event bid pricing forms with imbedded formulas are used and a multiplication/extension error(s) is discovered in the formula, the unit price entered by the Bidder shall prevail.
3. Bidder shall assume the responsibility and accuracy of the information input in the bid pricing form and therefore shall verify that the calculations are correct before submitting its Bid.
4. Regardless of the type of bid pricing form used, all Bids shall be reviewed mathematically by the County using these standards.

A.07 DISTRIBUTION OF SOLICITATION DOCUMENTS

All documents issued pursuant to this IFB are distributed electronically and available for download at no charge at www.mymanatee.org > *Business, Bids and Proposals*. This link is located at the top of the County website home page under the business tab. Documents may be viewed and downloaded for printing using Adobe Reader® software.

At its sole discretion, the County may utilize a third-party provider, to distribute Bids. Participation in the third-party provider's system is not a requirement for doing business with the County.

Additionally, the IFB and all related documents are available for public inspection at the Manatee County Procurement Division, 1112 Manatee Avenue West, Suite 803, Bradenton, FL 34205. Call (941) 749-3014 to schedule an appointment. Documents are available between the hours of 8:30 A.M. and 4:30 P.M., Monday through Friday, with the exception of County holidays.

As a courtesy, Manatee County notifies the Manatee County Chamber of Commerce and the Manasota Black Chamber of Commerce of active solicitations, who then distributes the information to its members.

A.08 ADDENDA

Any interpretations, corrections or changes to this IFB will be made by addendum. Addenda will be posted on the Procurement Division's web page of the County website at <http://www.mymanatee.org> > Business > *Bids and Proposals*. For those solicitations that are advertised on DemandStar, addenda will also be posted on the DemandStar distribution system on the 'Planholders' link.

All addenda are a part of the IFB and each Bidder will be bound by such addenda. It is the responsibility of each Bidder to read and comprehend all addenda issued. Failure of any Bidder to acknowledge an issued addendum in its Bid will not relieve the Bidder from any obligation contained therein.

A.09 BID EXPENSES

All costs incurred by Bidder in responding to this IFB will be the sole responsibility of the Bidder.

A.10 QUESTION AND CLARIFICATION PERIOD

Each Bidder shall examine all terms, conditions and requirements in the IFB documents and will judge all matters relating to the adequacy and accuracy of such documents. Any questions or request for changes or interpretations, clarification or additional information pertaining to this IFB shall be made in writing via email to the Manatee County Procurement Division to the Designated Procurement Contact or to purchasing@mymanatee.org prior to the Deadline for Questions and Clarifications. Bidder shall furnish any data or information it deems necessary for the County to evaluate requests to modify the terms, conditions or requirements of this IFB. Any changes or modifications to the terms, conditions and requirements of this IFB will be at the sole discretion of the County. All questions received and responses given will be provided to potential Bidders via an addendum to this IFB.

Manatee County will not be responsible for oral interpretations given including from County staff, representative, or others. The issuance of a written addendum by the Procurement Division is the only official method whereby interpretation, clarification, modifications, or additional information will be given.

A.11 FALSE OR MISLEADING STATEMENTS

Bids which contain false or misleading statements, or which provide references which do not support an attribute or condition claimed by the Bidder, may be rejected. If, in the opinion of the County, such information was intended to mislead the County in its evaluation of the Bid, and the attribute, condition or capability is a requirement of this IFB. Such Bidder will be disqualified from consideration for this IFB and may be disqualified from submitting a response on future solicitation opportunities with the County.

A.12 UNBALANCED BIDDING

County recognizes that large and/or complex projects will often result in a variety of methods, sources, and prices. However, where in the opinion of the County such variation does not appear to be justified given bid requirements and industry and market conditions, the Bid will be presumed to be unbalanced. Examples of unbalanced Bids will include:

1. Bids showing omissions, alterations of form, additions not specified, or required conditional or unauthorized alternate bids.
2. Bids quoting prices that substantially deviate, either higher or lower, from those included in the Bids of competitive Bidders for the same line item unit costs.
3. Bids where the unit costs offered are in excess of, or below reasonable cost analysis values.

In the event County determines that a Bid is presumed unbalanced, it will request the opportunity to and reserves the right to, review all source quotes, bids, price lists, letters of intent, and other supporting documentation which the Bidder obtained and upon which the Bidder relied upon to develop its Bid. County reserves the right to deem any presumptive unbalanced Bid where the Bidder is unable to demonstrate the validity and/or necessity of the unbalanced unit costs as non-responsive.

A.13 WITHDRAWAL OR REVISION OF BIDS

Bidders may withdraw Bids under the following circumstances:

- a. If Bidder discovers a mistake(s) prior to the Due Date and Time. Bidder may withdraw its Bid by submitting a written notice to the Procurement Division. The notice must be received in the Procurement Division prior to the Due Date and Time for receiving Bids. A copy of the request shall be retained and the unopened Bid returned to the Bidder; or
- b. After the Bids are opened but before a contract is signed, Bidder alleges a material mistake of fact if:
 1. The mistake is clearly evident in the solicitation document; or
 2. Bidder submits evidence which clearly and convincingly demonstrates that a mistake was made in the Bid. Request to withdraw a Bid must be in writing and approved by the Procurement Official.

A.14 JOINT VENTURES

Bidders intending to submit a bid as a joint venture with another entity are required to have filed proper documents with the Florida Department of Business and Professional Regulation and all other State or local licensing agencies as required by Florida Statute Section 489.119, prior to the Due Date and Time.

A.15 LOBBYING

After the issuance of any solicitation, no prospective Bidders, or their agents, representatives or persons acting at the request of such Bidder, shall contact, communicate with or discuss any matter relating in any way to the solicitation with any County officers, agents or employees, other than the Procurement Official or designee, unless otherwise directed by the Procurement Official or designee. This prohibition includes copying such persons on written communications (including

email correspondence) but does not apply to presentations made to evaluation committees or at a County Commission meeting where the Commission is considering approval of a proposed contract. This requirement ends upon final execution of the contract or at the time the solicitation is cancelled. Violators of this prohibition will be subject to sanctions as provided in the Manatee County Code of Ordinances Section 2-26-31 and 2-26-32. Sanctions may include (a) written warning; (b) termination of contracts; and (c) debarment or suspension.

A.16 IRREVOCABLE OFFER

Any Bid may be withdrawn up until the Due Date and Time. Any Bid not so withdrawn shall, upon opening, constitute an irrevocable offer for a period of ninety (90) days to provide the goods or services set forth in this IFB or until one or more of the Bids have been duly accepted by County, whichever occurs first.

A.17 ERRORS OR OMISSIONS

Once a Bid is opened, the County will not accept any request by Bidder to correct errors or omissions in the Bid other than as identified in paragraph A.13.

A.18 DETERMINATION OF RESPONSIBLENESS AND RESPONSIVENESS

The County will conduct a due diligence review of all Bids received to determine if the Bidder is responsible and responsive.

To be responsive a Bidder must submit a Bid that conforms in all material respects to the requirements of this IFB and contains all the information, fully completed attachments and forms, and other documentation required. Bids that are deemed non-responsive will not be considered.

To be responsible, a Bidder must meet the minimum qualification requirements and have the capability to perform the Scope of Services contained in this IFB. Bids submitted by Bidders that are deemed non-responsible will not be considered.

A.19 SCRUTINIZED COMPANIES FORM

Pursuant to Florida Statute Section 287.135, as of July 1, 2012, a company that, at the time of submitting a response for a new contract or renewal of an existing contract, is on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, created pursuant to Florida Statute Section 215.473, is ineligible for, and may not submit a response for or enter into or renew a contract with an agency or local governmental entity for goods or services of \$1 million or more. To the extent certification is required, it shall be provided on the enclosed Attachment, *Vendor Certification Regarding Scrutinized Companies Lists*.

A.20 LOCAL PREFERENCE

To qualify for local preference, a local business, as defined in Section B.05, Terms and Conditions, must provide certification to County by completing an 'Affidavit as to Local Business' form which is available for download at www.mymanatee.org/vendor. Click on 'Affidavit for Local Business' to access and print the form. Complete, notarize, and return the original with Bidder's Bid. It is the responsibility of the Bidder to ensure accuracy of the affidavit and notify County of any changes affecting its local business status.

A.21 COLLUSION

Bidder certifies that its Bid is made without prior understanding, agreement, or connection with any other corporation, firm or person submitting a Bid for the same materials, services, supplies, or equipment and is in all respects fair and without collusion or fraud.

Any such violation may result in contract cancellation, return of materials or discontinuation of services and the possible removal of Bidder from participation in future County solicitations for a specified period.

The County reserves the right to disqualify a Bidder during any phase of the solicitation process and terminate for cause any resulting contract upon evidence of collusion with intent to defraud on the part of the Bidder.

A.22 PUBLIC ENTITY CRIMES

In accordance with Section 287.133, Florida Statutes, a person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to a public entity, may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit bids on leases or real property to a public entity, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in Section 287.017 for Category Two for a period of 36 months from the date of being placed on the convicted vendor list.

In addition, Manatee County Code of Laws Chapter 2-26 Article V prohibits the award of County contracts to any person or entity who/which has, within the past five years, been convicted of, or admitted to in court or sworn to under oath, a public entity crime or of any environmental law that, in the reasonable opinion of the Purchasing Official, establishes reasonable grounds to believe the person or business entity will not conduct business in a reasonable manner.

A person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime, as that term is defined in Section 287.133, Florida Statutes, may not submit a bid to provide any goods or services to a public entity; may not submit a bid with a public entity for the construction or repair of a public building or public work; may not submit bids on leases of real property to a public entity; may not be awarded or perform Work as a contractor, supplier, Subcontractor, or consultant under an agreement with any public entity; and may not transact business with any public entity in excess of the threshold amount provided in Section 287.017, Florida Statutes, for CATEGORY TWO for a period of thirty-six (36) months following the date of being placed on the convicted list.

In addition, the Manatee County Code of Laws prohibits the award of any bid to any person or entity who/which has, within the past five (5) years, been convicted of, or admitted to in court or sworn to under oath, a public entity crime or of any environmental law that, in the reasonable opinion of the Purchasing Official, establishes reasonable grounds to believe the person or business entity will not conduct business in a responsible matter.

To ensure compliance with the foregoing, the Code requires all persons or entities desiring to do business with County to execute and file with the Purchasing Official an affidavit, executed under the pain and penalties of perjury, confirming that person, entity and any person(s) affiliated with the entity, does not have such a record and is therefore eligible to seek and be awarded business with County. In the case of a business entity other than a partnership or a corporation, such affidavit shall be executed by an authorized agent of the entity. In the case of a partnership, such affidavit shall be executed by the general partner(s). A Public Contracting and Environmental Crimes Certification form is attached herein for this purpose.

A.23 DISCOUNTS AND PRICING

All discounts must be incorporated in the prices contained in the bid and not shown separately. Unless otherwise specified in this IFB, pricing must be all inclusive, including delivery costs. The prices indicated on the Pricing Form shall be the prices used in determining award. When there is a discrepancy between the unit prices and any extended prices, the unit prices shall prevail.

A.24 PROTEST

Any actual bidder, proposer, or contractor who is aggrieved in connection with the notice of intent to award of a contract with a value greater than \$250,000 where such grievance is asserted to be the result of a violation of the requirements of the Manatee County Procurement Code or any applicable provision of law by the officers, agents, or employees of the County, may file a protest to the Procurement Official.

Protest must be in writing and delivered via email at purchasing@mymanatee.org or by hand delivery to the Procurement Division at 1112 Manatee Avenue West, Suite 803, Bradenton, FL 34205 by 5:00 p.m. on the fifth business day following the date of posting of the Notice of Intent to Award on the County website. There is no stay of the procurement process during a protest. The Procurement Official shall have the authority to settle and resolve a protest concerning the intended award of a contract.

For additional information regarding the County protest process, visit the Procurement Division webpage on the County website.

A.25 LICENSES AND PERMITS

The successful Bidder shall be solely responsible for obtaining all necessary license and permit fees, including, but not limited to, all license fees, permit fees, impact fees, or inspection fees, and responsible for the costs of such fees. Successful Bidder is solely responsible for ensuring all work complies with all Federal, State, local, and Manatee County ordinances, orders, codes, laws, rules, regulations, directives, and guidelines.

A.26 CONFLICT OF INTEREST

Manatee County Code of Laws prohibits contracts where conflicts are found to exist. Bidder shall not be currently engaged in, or if awarded, will not become engaged in any obligations, undertakings or contracts that will require Bidder to maintain an adversarial role against the County or that will impair or influence the advice or recommendations it provides to the County.

A.27 BASIS OF AWARD

Award(s) will be made to the responsive, responsible Bidder having the lowest Bid. The County, at its sole discretion, may make multiple awards based upon groups, price, or other such criteria. Whenever the lowest Bid is submitted by two or more Bidders and are equal with respect to price, quality, and/or service, the Bid received from a local business shall be given preference in the award. Whenever two or more lowest Bids are received from local businesses and are equal with respect to price, quality, and/or service, the award shall be determined by a chance drawing to be conducted by the Procurement Official in a publicly noticed meeting.

Local business is defined as a business legally authorized to engage in the sale of goods and/or services which, for at least six months prior to the announcement of the solicitation for Bids, has maintained a physical place of business in Manatee, Desoto, Hardee, Hillsborough, Pinellas, or Sarasota County, and which has had at least one full-time employee at that location during the qualifying period.

A.28 OTHER PUBLIC ENTITIES

The successful Bidder agrees to make available to all governmental agencies, authorities, departments, and municipalities (collectively referred to as Public Entities) the terms, conditions and agreed upon prices of the award resulting from this solicitation. Any Public Entity electing to utilize the award will enter into its own agreement with successful Bidder and coordinate the requirements. The County shall in no way be responsible for any such agreement between successful Bidder and Public Entity.

A.29 ACCESSIBILITY

The County is committed to making its documents and information technologies accessible to individuals with disabilities by meeting the requirements of Section 508 of the Rehabilitation Act and best practices (w3C WCAG 2). **For assistance with accessibility regarding this solicitation, contact the Manatee County Procurement Division via email at purchasing@mymanatee.org or by phone at 941-748-4501, X3014.**

Successful Bidder shall ensure all its electronic information, documents, applications, reports, and deliverables required under the Agreement are in a format that meets the requirements of Section 508 of the Rehabilitation Act and best practices (W3C WCAG 2).

Where not fully compliant with these requirements and best practices, Successful Bidder shall provide clear points of contact for each document and information technology to direct users in how to obtain alternate formats. Further, successful Bidder shall develop accommodation strategies for those non-compliant resources and implement strategies to resolve the discrepancies.

A.30 SOLICITATION SCHEDULE

The following schedule has been established for this Solicitation process. Refer to the County's website (www.mymanatee.org > Business > *Bids & Proposals*) for meeting locations and updated information pertaining to any revisions to this schedule.

Scheduled Item**Scheduled Date**

No Solicitation Information Conference will be conducted for this solicitation.

Question and Clarification Deadline

July 21,2020

Final Addendum Posted

July 23, 2020

Bid Response Due Date and Time

July 31, 2020 by 3:00 PM ET

Projected Award

August 2020

END OF SECTION A

SECTION B, TERMS AND CONDITIONS

IFB No. 20-TA003287CD

B.01 AGREEMENT

The agreement resulting from the acceptance of a bid shall be in the form of a contract and/or a purchase order. This agreement shall be for three years from date of award with two (2) one-year renewal options.

B.02 NON-EXCLUSIVE

Unless otherwise stated in this IFB, successful Bidder understands and agrees that any resulting contractual relationship is non-exclusive and the County reserves the right to contract with more than one Bidder or seek similar or identical goods and services elsewhere if deemed in the best interest of the County.

B.03 CONFIDENTIALITY OF SECURITY RELATED RECORDS

- a. Pursuant to Florida Statutes § 119.071(3), the following records (hereinafter referred to collectively as “the Confidential Security Records”) are confidential and exempt from the disclosure requirements of Florida Statutes § 119.07(1):
 1. A Security System Plan or portion thereof for any property owned by or leased to County or any privately owned or leased property held by County.
 2. Building plans, blueprints, schematic drawings, and diagrams, including draft, preliminary, and final formats, which depict the internal layout and structural elements of a building, arena, stadium, water treatment facility, or other structure owned or operated by County.
 3. Building plans, blueprints, schematic drawings, and diagrams, including draft, preliminary, and final formats, which depict the internal layout or structural elements of an attractions and recreation facility, entertainment or resort complex, industrial complex, retail and service development, office development, or hotel or motel development in the possession of, submitted to County.
- b. Successful Bidder agrees that, as provided by Florida Statute, it shall not, as a result of a public records request, or for other reason disclose the contents of, or release or provide copies of the Confidential Security Records to any other party absent the express written authorization of County’s Property Management Director or to comply with a court order requiring such release or disclosure. To the extent Successful Bidder receives a request for such records, it shall immediately contact the County’s designated Contract administrator who shall coordinate County’s response to the request.

B.04 PURCHASING COOPERATIVE

It is the intent of this IFB to include requirements and to obtain bids on behalf of Manatee County. Further it authorizes entities belonging to the Sarasota Bay Area Chapter of NIGP to obtain purchases utilizing the terms, conditions and pricing of this IFB. This opportunity is also made available to all public agencies, pursuant to their own governing laws, and subject to the agreement of the supplier. Manatee County will not be financially responsible for the purchases of other entities utilizing this IFB and any resulting contract or purchase order.

B.05 LOCAL PREFERENCE

Local business is defined as a business legally authorized to engage in the sale of the goods and/or services, and which certifies within its Bid that for at least six (6) full months prior to the advertisement of this IFB it has maintained a physical place of business in Manatee, Desoto, Hardee, Hillsborough, Pinellas or Sarasota County with at least one full-time employee at that location. Local preference shall not apply to the following categories of agreements:

1. Purchases or agreements which are funded, in whole or in part, by a governmental or other funding entity, where the terms and conditions governing the funds prohibit the preference.
2. Any bid announcement which specifically provides that local preference, as set forth in this section, is suspended due to the unique nature of the goods or services sought, the existence of an emergency as found by either the County Commission or County Administrator, or where such suspension is, in the opinion of the County Attorney, required by law.
3. For a competitive solicitation for construction services in which fifty percent (50%) or more of the cost will be paid from state-appropriated funds which have been appropriated at the time of the competitive solicitation.
4. To qualify for local preference under this section, **a local business must certify to County** by completing an **“Affidavit as to Local Business Form,”** which is available for download at www.mymanatee.org/vendor. Click on “Affidavit for Local Business” to access and print the form. Complete, notarize, and mail the notarized original to the following address: Manatee County Procurement Division, 1112 Manatee Avenue West, Suite 803, Bradenton, FL 34205.
5. It is the responsibility of the bidder to ensure accuracy of the Affidavit as to Local Business and notify County of any changes affecting same.

B.06 SUPPLIER REGISTRATION

Registering your business will provide Manatee County a sourcing opportunity to identify suppliers of needed goods and services and identify local businesses. To register as a supplier with the County go to www.mymanatee.org/vendor. For assistance with supplier registration, call the Procurement Division main number at (941) 749-3014. Office hours are Monday – Friday, 8:00 A.M. to 5:00 P.M., excluding County holidays.

B.07 RESERVED RIGHTS

The County reserves the right to accept or reject any and all Bids, to waive irregularities and technicalities, to request additional information and documentation, and to cancel this solicitation at any time prior to execution of the contract. In the event only one bid is received, the County reserves the right to negotiate with the Bidder. The County reserves the right to award to the lowest responsive and responsible Bidder.

The County reserves the right to conduct an investigation as it deems necessary to determine the ability of any Bidder to perform the work or service requested. Upon request by the County, Bidder shall provide all such information to the County. Additional information may include, but will not be limited to, current financial statements prepared in accordance with generally accepted accounting practices and certified by an independent CPA or official of Bidder; verification of availability of equipment and personnel; and past performance records.

B.08 APPLICABLE LAWS

Bidder must be authorized to transact business in the State of Florida. All applicable laws and regulations of the State of Florida and ordinances and regulations of Manatee County will apply to any resulting contract. This solicitation process will be conducted in accordance with Manatee County Code of Ordinances, Chapter 2-26.

B.09 TAXES

Manatee County is exempt from Federal Excise and State Sales Taxes. (F.E.T. Cert. No. 59-78-0089K; Florida Sales Tax Exempt Cert. No. 85-8012622206C-6). Therefore, the Bidder is prohibited from delineating a separate line item in its bid for any sales or service taxes.

The Successful Bidder will be responsible for the payment of taxes of any kind, including but not limited to sales, consumer, use, and other similar taxes payable on account of the work performed and/or materials furnished under the award in accordance with all applicable laws and regulations.

B.10 CODE OF ETHICS

With respect to this and any bid, if a Bidder violates, directly or indirectly, the ethics provisions of the Manatee County Procurement Code and/or Florida criminal or civil laws related to public procurement, including but not limited to Florida Statutes Chapter 112, Part II, Code of Ethics for Public Officers and Employees, such Bidder will be ineligible for award to perform the work described in this IFB, and may be disqualified from submitting on any future quote or bid requests to supply goods or services to Manatee County. By submitting a bid, the Bidder represents to County that all statements made and materials submitted are truthful, with no relevant facts withheld.

B.11 AMERICANS WITH DISABILITIES

Manatee County does not discriminate upon the basis of any individual's disability status. This non-discrimination policy involves every aspect of County's functions including one's access to participation, employment, or treatment in its programs or activities. Anyone requiring reasonable accommodation for an information conference or bid opening should contact the person named on the cover page of this document at least twenty-four (24) hours in advance of either activity.

B.12 EQUAL EMPLOYMENT OPPORTUNITY

In accordance with Title VI of the Civil Rights Act of 1964, Title 15, Part 8 of the Code of Federal Regulations and the Civil Rights Act of 1992, Manatee County hereby notifies all Bidders that it will affirmatively ensure minority business enterprises are afforded full opportunity to participate in response to this Invitation for Bid and will not be discriminated against on the grounds of race, color, national origin, religion, sex, age, handicap, or marital status in consideration of award.

B.13 MINORITY AND/OR DISADVANTAGED BUSINESS ENTERPRISES

The State of Florida Office of Supplier Diversity provides the certification process and maintains the database of certified MBE/DBE firms. Additional information may be obtained at <http://www.osd.dms.state.fl.us/iframe.htm> or by calling (850) 487-0915.

B.14 QUALITY

Unless otherwise specifically provided in the IFB documents, all goods provided shall be new, the latest make or model, of the best quality, of the highest grade of workmanship, and of the most suitable for the purpose intended.

Unless otherwise specifically provided in the IFB documents, reference to any equipment, material, article or patented process, by trade name, brand name, make or catalog number, shall be regarded as establishing a standard of quality and shall not be construed as limiting competition.

B.15 DELIVERY

Unless otherwise specified, all prices shall include all delivery cost (FOB Destination).

B.16 AUTHORIZED PRODUCT REPRESENTATION

Bidder, by virtue of submitting the name and specifications of a manufacturer's product, will be required to furnish the named manufacturer's product. Failure to do so may, in the County's sole discretion, be deemed a material breach of the resulting agreement and shall constitute grounds for County's immediate termination of the resulting agreement.

B.17 ROYALTIES AND PATENTS

The successful Bidder shall pay all royalties and license fees for equipment or processes in conjunction with the equipment and/or services being furnished. Successful Bidder shall defend all suits or claims for infringement of any patent, trademark or copyright, and shall save County harmless from loss on account thereof, including costs and attorney's fees.

B.18 PUBLIC RECORDS

Upon receipt, all inquiries and responses to inquiries related to this Bid become "Public Records", and shall be subject to public disclosure consistent with Florida Statute, Chapter 119.

Bids become subject to disclosure thirty (30) days after the opening or when notice of intent to award is made, whichever occurs first, as provided by Florida Statutes § 119.071(1)(b).

If County rejects all Bids and concurrently notices its intent to reissue the solicitation, the rejected Bids are exempt from public disclosure until such time the County provides notice of an intended decision concerning the reissued solicitation or until County withdraws the reissued solicitation. A bid is not exempt for longer than twelve (12) months after the initial notice of rejection of all Bids.

Pursuant to Florida Statute 119.0701, to the extent Successful Bidder is performing services on behalf of County, Successful Bidder must:

1. Keep and maintain public records required by public agency to perform the service. That information and data it manages as part of the services may be public record in accordance with Chapter 119, Florida Statutes and Manatee County public record policies. Bidder agrees, prior to providing goods/services, it will implement policies and procedures, which are subject to approval by County, to maintain, produce, secure, and retain public records in accordance with applicable laws, regulations, and County policies including but not limited to Section 119.0701, Florida Statutes.

2. Upon request from the public agency's custodian of public records, provide the public agency with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Florida Statutes, Chapter 119, or as otherwise provided by law.
3. Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the contract term and following completion of the contract if the Successful Bidder does not transfer the records to the public agency.
4. Upon completion of the contract, transfer, at no cost, to the public agency all public records in possession of contractor or keep and maintain public records required by the public agency to perform the service. If the Successful Bidder transfers all public records to County upon completion of the contract, the Successful Bidder shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the Successful Bidder keeps and maintains public records upon completion of the contract, the Successful Bidder shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to County, upon request from County's custodian of public records, in a format that is compatible with the information technology systems of County.

**IF THE SUCCESSFUL BIDDER HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO ITS DUTY TO PROVIDE PUBLIC RECORDS RELATING TO ANY RESULTING CONTRACT, CONTACT COUNTY'S CUSTODIAN OF PUBLIC RECORDS AT:
PHONE: (941) 742-5845,
EMAIL: DEBBIE.SCACCIANOCE@MYMANATEE.ORG,
MAIL: ATTN: RECORDS MANAGER, 1112 MANATEE AVENUE WEST,
BRADENTON, FL 34205.**

B.19 TRADE SECRETS

Manatee County is subject to Chapter 119, Florida Statutes. Therefore, all documents, materials, and data submitted as part of a Bid in response to a Request for Bid are governed by the disclosure, exemption and confidentiality provisions relating to public records in Florida Statutes.

Except for materials that are 'trade secrets' as defined by Chapter 812, Florida Statutes, ownership of all documents, materials and data submitted as part of a Bid in response to the Request for Bid shall belong exclusively to County.

To the extent that Bidder desires to maintain the confidentiality of materials that constitute trade secrets pursuant to Florida law, trade secret material submitted must be segregated from the portions of the Bid that are not declared as trade secret. In addition, Bidder shall cite, for each trade secret claimed, the Florida Statute number which supports the designation. Further, Bidder shall offer a brief written explanation as to why the cited Statute is applicable to the information

claimed as trade secret. Additionally, Bidder shall provide a hard copy of its Bid that redacts all information designated as trade secret.

In conjunction with trade secret designation, Bidder acknowledges and agrees that:

- a. Trade secret requests made after the opening will not be considered. However, County reserves the right to clarify the Bidders request for trade secret at any time; and
- b. County and its officials, employees, agents, and representatives are hereby granted full rights to access, view, consider, and discuss the information designated as trade secret throughout the evaluation process and until final execution of any awarded purchase order or contract; and
- c. That after notice from County that a public records request has been made pursuant to Bidder's bid, the Bidder at its sole expense, shall be responsible for defending its determination that submitted material is a trade secret and is not subject to disclosure. Action by Bidder in response to notice from the County shall be taken immediately, but no later than 10 calendar days from the date of notification or Bidder will be deemed to have waived the trade secret designation of the materials.

Notwithstanding any other provision in this solicitation, designation of the entire bid as 'trade secret', 'proprietary', or 'confidential' is not permitted and may result in a determination that the Bid is non-responsive.

B.20 ePAYABLES

Manatee County Board of County Commissioners and the Manatee County Clerk of the Circuit Court have partnered to offer the ePayables program, which allows payments to be made to vendors via credit cards.

The Clerk of the Circuit Court will issue a unique credit card number to vendor after goods are delivered or services rendered, vendors submit invoices to the remit to address on the purchase order. When payments are authorized, an email notification is sent to the vendor. The email notification includes the invoice number(s), invoice date(s), and amount of payment. There is no cost for vendors to participate in this program; however, there may be a charge by the company that processes your credit card transactions.

If Bidder is interested in participating in this program, complete the ePayables Application attached herein and return the completed form via email to lori.bryan@manateclerk.com.

B.21 FUNDING

This IFB is subject to the appropriation of funds in an amount sufficient to allow continuation of the County's performance in accordance with the terms and conditions herein. The County shall provide prompt written notice to the successful Bidder that sufficient funds have not been appropriated to continue its full and faithful performance under the terms of this IFB, and shall, effective thirty (30) days after giving such notice or upon the expiration of the time for which funds were appropriated whichever occurs first, be thereafter released of all further obligations in any way related to this IFB.

B.22 CONDITIONS FOR EMERGENCY EVENTS

A critical challenge in emergency situations is to obtain essential supplies, goods and equipment in the affected areas. It is the County's priority that public property, life, safety, and health are protected during any emergency as declared by the State and/or the County. Therefore, before, during and after a disaster, hurricane, flood, act of terrorism, or other public emergency event, whether natural or man-made, successful Bidder shall make delivery to the County of the goods and services in this IFB its first-priority.

Successful Bidder will ensure that contract prices are billed to the County for deliveries as part of an emergency event. Upon award of a contract, successful Bidder shall furnish an email and phone number in which successful Bidder can be contacted twenty-four (24) hours per day, seven days per week for emergency services.

B.23 TERMINATION

The County, at its sole discretion, reserves the right to terminate any contract entered into pursuant to this IFB with or without cause immediately upon providing written notice to the successful Bidder. Upon receipt of such notice, the successful Bidder shall not incur any additional costs under the contract. The County shall be liable only for reasonable costs incurred by the successful Bidder prior to the date of the notice of termination.

The County reserves the right to terminate any contract entered into pursuant to this IFB, in part or in whole, or place the successful Bidder on probation in the event it fails to perform in accordance with the terms and conditions stated herein. Notification will be made by providing written notice of such failure or default and by specifying a reasonable time period within which the successful Bidder must cure any such failure to perform or default. If the successful Bidder fails to cure the default within the time specified, the County may then terminate the subject contract by providing written notice to the successful Bidder. The County further reserves the right to suspend or debar the successful Bidder in accordance with the appropriate County ordinances and/or policies. In the event of termination for default, the County may procure the required goods and/or services from any source and use any method deemed in its best interest.

B.24 PRECEDENCE

Statements contained in the Scope of Work or Bid Summary Sections of this IFB, which vary from the information contained in Sections A and B, shall have precedence.

B.25 E-VERIFY

Prior to the employment of any person under this contract, the Successful Bidder shall utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of (a) all persons employed during the contract term by the Successful Bidder to perform employment duties within Florida and (b) all persons, including subcontractors, assigned by the Successful Bidder to perform work pursuant to the contract with Manatee County. For more information on this process, please refer to United States Citizenship and Immigration Service site at: <http://www.uscis.gov/>.

Only those individuals determined eligible to work in the United States shall be employed under this contract. By submission of a bid in response to this IFB, the successful Bidder commits that all employees and subcontractors will undergo e-verification before placement on this contract.

The successful Bidder shall maintain sole responsibility for the actions of its employees and subcontractors. For the life of the contract, all employees and new employees brought in after contract award shall be verified under the same requirement stated above.

B.26 SUBCONTRACTORS

The successful bidder will obtain prior written approval from the County for any subcontractor(s) and the work they will perform. A subcontractor is defined as any entity performing work within the scope of the project who is not an employee of the successful Bidder.

Bidders subcontracting any portion of the work shall include a list of subcontractors along with their bid. The list shall include: name and address of subcontractor, type of work to be performed and the percent of the contract amount to be subcontracted.

If County has reasonable objection to any subcontractor, the County may request the successful bidder to submit an acceptable substitute without an increase in contract sum or contract time.

If successful Bidder declines to make any such substitution, the County may award the resulting agreement to the next lowest qualified bidder that proposes to use acceptable subcontractors, who County does not make written objection to. In the event the successful Bidder declines to make any such substitution post award, the County may exercise its right to terminate the agreement.

The successful Bidder shall maintain sole responsibility for the actions of its employees and subcontractors. New employees brought in after contract award shall follow the same requirement stated above for the life of the contract.

B.27 RECOMMENDATION FOR AWARD

Upon successful completion of evaluations, a recommendation for award to the successful Bidder(s) will be presented for approval per County ordinances, policies and procedures.

END SECTION B

SECTION C Bid Forms

(To be completed and returned with Bid)

ATTACHMENT A, ACKNOWLEDGMENT OF ADDENDA

IFB No. 20-TA003287CD

The undersigned acknowledges receipt of the following addenda:

Addendum No.: _____ Date Received: _____

Print or type Bidder's information below:

Name of Bidder: _____

Telephone Number: _____

Street Address: _____

City, State, Zip: _____

Email Address: _____

Website Address: _____

Signature of Authorized Official: _____

Printed Name, Title, Date: _____

Bidder must fully execute and return this form with its Bid.

ATTACHMENT B, BID SIGNATURE FORM

IFB No. 20-TA003287CD

The undersigned represents that:

- (1) By signing the bid, that he/she has the authority and approval of the legal entity purporting to submit the bid and any additional documentation which may be required such as the Joint Venture Agreement or Joint Venture Affidavit, if applicable;
- (2) All facts and responses set forth in the bid are true and correct;
- (3) By submitting a bid and signing below, the Bidder agrees to all terms and conditions in this IFB, which incorporates all addenda, appendices, exhibits, and attachments, in its entirety, and is prepared to sign the Contract as written. The Respondent understands that if it submits exceptions to the Contract in its Response, the Respondent's Response may be determined non-responsive; and
- (4) The Bidder, which includes all companies included in a partnership or joint venture, is not on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List.

Print or type Bidder's information below:

_____	_____
Name of Bidder	Telephone Number
_____	_____
Street Address	City/State/Zip
_____	_____
Email Address	Web Address
_____	_____
Print Name & Title of Authorized Officer	Signature of Authorized Officer Date

Bidder must fully execute and return this form with its Bid.

ATTACHMENT C, PUBLIC CONTRACTING AND ENVIRONMENTAL CRIMES CERTIFICATION

IFB No. 20-TA003287CD

THIS FORM MUST BE SIGNED AND SWORN TO IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICIAL AUTHORIZED TO ADMINISTER OATHS.

This sworn statement is submitted to the Manatee County Board of County Commissioners by

[Print individual's name and title]

for _____ [Print name of entity submitting sworn statement]

whose business address is _____

and (if applicable) its Federal Employer Identification Number (FEIN) is _____. If the entity has no FEIN, include the Social Security Number of the individual signing this sworn statement: _____

I understand that no person or entity shall be awarded or receive a County agreement for public improvements, procurement of goods or services (including professional services) or a County lease, franchise, concession or management agreement, or shall receive a grant of County monies unless such person or entity has submitted a written certification to County that it has not:

(1) been convicted of bribery or attempting to bribe a public officer or employee of Manatee County, the State of Florida, or any other public entity, including, but not limited to the Government of the United States, any state, or any local government authority in the United States, in that officer's or employee's official capacity; or

(2) been convicted of an agreement or collusion among bidders or prospective bidders in restraint of freedom of competition, by agreement to bid a fixed price, or otherwise; or

(3) been convicted of a violation of an environmental law that, in the sole opinion of County's Purchasing Official, reflects negatively upon the ability of the person or entity to conduct business in a responsible manner; or

(4) made an admission of guilt of such conduct described in items (1), (2) or (3) above, which is a matter of record, but has not been prosecuted for such conduct, or has made an admission of guilt of such conduct, which is a matter of record, pursuant to formal prosecution. An admission of guilt shall be construed to include a plea of nolo contendere; or

(5) where an officer, official, agent or employee of a business entity has been convicted of or has admitted guilt to any of the crimes set forth above on behalf of such an entity and pursuant to the direction or authorization of an official thereof (including the person committing the offense, if he is an official of the business entity), the business shall be chargeable with the conduct herein above set forth. A business entity shall be chargeable with the conduct of an affiliated entity, whether wholly owned, partially owned, or one which has common ownership or a common Board of Directors. For purposes of this Form, business entities are affiliated if, directly or indirectly, one business entity controls or has the power to control another business

entity, or if an individual or group of individuals controls or has the power to control both entities. Indicia of control shall include, without limitation, interlocking management or ownership, identity of interests among family members, shared organization of a business entity following the ineligibility of a business entity under this Article, or using substantially the same management, ownership or principles as the ineligible entity.

Any person or entity who claims that this Article is inapplicable to him/her/it because a conviction or judgment has been reversed by a court of competent jurisdiction shall prove the same with documentation satisfactory to County's Purchasing Official. Upon presentation of such satisfactory proof, the person or entity shall be allowed to contract with County.

I UNDERSTAND THAT THE SUBMISSION OF THIS FORM TO THE CONTRACTING OFFICER FOR MANATEE COUNTY IS VALID THROUGH DECEMBER 31 OF THE CALENDAR YEAR IN WHICH IT IS FILED. I ALSO UNDERSTAND THAT ANY CONTRACT OR BUSINESS TRANSACTION SHALL PROVIDE FOR SUSPENSION OF PAYMENTS, OR TERMINATION, OR BOTH, IF THE CONTRACTING OFFICER OR COUNTY ADMINISTRATOR DETERMINES THAT SUCH PERSON OR ENTITY HAS MADE FALSE CERTIFICATION.

[Supplier Signature]

STATE OF _____
COUNTY OF _____

Sworn to and subscribed before me this _____ day of _____, 20____ by _____
_____ who is personally known _____ OR Produced _____
_____ [Type of identification]

Notary Public Signature

My commission expires _____

[Print, type or stamp Commissioned name of Notary Public]

Signatory Requirement - In the case of a business entity other than a partnership or a corporation, this affidavit shall be executed by an authorized agent of the entity. In the case of a partnership, this affidavit shall be executed by the general partner(s). In the case of a corporation, this affidavit shall be executed by the corporate president.

ATTACHMENT D, INSURANCE AND BOND REQUIREMENTS

The SUPPLIER will not commence work under the resulting Agreement until all insurance coverages indicated by an "X" herein have been obtained. The SUPPLIER shall obtain and submit to the Procurement Division within ten (10) calendar days from the date of notice of intent to award, at its expense, the following minimum amounts of insurance (inclusive of any amounts provided by an umbrella or excess policy): Work under this Agreement cannot commence until all insurance coverages indicated herein have been obtained on a standard ACORD form (inclusive of any amounts provided by an umbrella or excess policy):

REQUIRED INSURANCES

Automobile Liability Insurance Required Limits

Coverage must be afforded under a per occurrence policy form including coverage for all owned, hired and non-owned vehicles for bodily injury and property damage of not less than:

- \$1,000,000 Combined Single Limit; OR
- \$ 500,000 Bodily Injury and \$500,000 Property Damage
- \$10,000 Personal Injury Protection (No Fault)
- \$500,000 Hired, Non-Owned Liability
- \$10,000 Medical Payments

This policy shall contain severability of interests' provisions.

Commercial General Liability Insurance Required Limits (per Occurrence form only; claims-made form is not acceptable)

Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name 'Manatee County, a political subdivision of the State of Florida' as an Additional Insured, and include limits not less than:

- \$1,000,000 Single Limit Per Occurrence
- \$2,000,000 Aggregate
- \$1,000,000 Products/Completed Operations Aggregate
- \$1,000,000 Personal and Advertising Injury Liability
- \$50,000 Fire Damage Liability
- \$10,000 Medical Expense, and
- \$1,000,000, Third Party Property Damage
- \$ Project Specific Aggregate (Required on projects valued at over \$10,000,000)

This policy shall contain severability of interests' provisions.

Employer's Liability Insurance

Coverage limits of not less than:

- \$100,000 Each Accident
- \$500,000 Disease Each Employee
- \$500,000 Disease Policy Limit

Worker's Compensation Insurance

US Longshoremen & Harbor Workers Act

Jones Act Coverage

Coverage limits of not less than:

- Statutory workers' compensation coverage shall apply for all employees in compliance with the laws and statutes of the State of Florida and the federal government.
- If any operations are to be undertaken on or about navigable waters, coverage must be included for the US Longshoremen & Harbor Workers Act and Jones Act.

Should 'leased employees' be retained for any part of the project or service, the employee leasing agency shall provide evidence of Workers' Compensation coverage and Employer's Liability coverage for all personnel on the worksite and in compliance with the above Workers' Compensation requirements. NOTE: Workers' Compensation coverage is a firm requirement. Elective exemptions are considered on a case-by-case basis and are approved in a very limited number of instances.

OTHER INSURANCES

Aircraft Liability Insurance Required Limits

Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name 'Manatee County a political subdivision of the State of Florida' as an Additional Insured, and include limits not less than:

- \$ Each Occurrence Property and Bodily Injury with no less than \$100,000 per passenger each occurrence or a 'smooth' limit.
- \$ General Aggregate.

Un-Manned Aircraft Liability Insurance (Drone)

Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name 'Manatee County a political subdivision of the State of Florida' as an Additional Insured, and include limits not less than:

- \$ Each Occurrence Property and Bodily Injury; Coverage shall specifically include operation of Unmanned Aircraft Systems (UAS), including liability and property damage.
- \$ General Aggregate

Installation Floater Insurance

When the contract or agreement **does not** include construction of, or additions to, above ground building or structures, but does involve the installation of machinery or equipment, Installation Floater Insurance shall be afforded under a per occurrence policy form, policy shall be endorsed and name "Manatee County, a political subdivision of the State of Florida" as an Additional Insured, and include limits not less than:

- 100% of the completed value of such addition(s), building(s), or structure(s)

Professional Liability and/or Errors and Omissions (E&O) Liability Insurances

Coverage shall be afforded under either an occurrence policy form or a claims-made policy form. If the coverage form is on a claims-made basis, then coverage must be maintained for a minimum of three years from termination of date of the contract. Limits must not be less than:

- \$ 1,000,000 Bodily Injury and Property Damage Each Occurrence
- \$ 2,000,000 General Aggregate

Builder's Risk Insurance

When the contract or agreement includes the construction of roadways and/or the addition of a permanent structure or building, including the installation of machinery and/or equipment, Builder's Risk Insurance shall be afforded under a per occurrence policy form, policy shall be endorsed and name "Manatee County, a political subdivision of the State of Florida" as an Additional Insured, and include limits not less than:

- An amount equal to 100% of the completed value of the project, or the value of the equipment to be installed
- The policy shall not carry a self-insured retention/deductible greater than \$10,000

Coverage shall be for all risks and include, but not be limited to, storage and transport of materials, equipment, supplies of any kind whatsoever to be used on or incidental to the project, theft coverage, and Waiver of Occupancy Clause Endorsement, where applicable.

Cyber Liability Insurance

Coverage shall comply with Florida Statute 501.171, shall be afforded under a per occurrence policy form, policy shall be endorsed and name 'Manatee County, a political subdivision of the State of Florida' as an Additional Insured, and include limits not less than:

- \$ Security Breach Liability
- \$ Security Breach Expense Each Occurrence
- \$ Security Breach Expense Aggregate
- \$ Replacement or Restoration of Electronic Data
- \$ Extortion Threats
- \$ Business Income and Extra Expense
- \$ Public Relations Expense

NOTE: Policy must not carry a self-insured retention/deductible greater than \$25,000.

Hazardous Materials Insurance (As Noted Below)

Hazardous materials include all materials and substances that are currently designated or defined as hazardous by the law or rules of regulation by the State of Florida or federal government.

All coverage shall be afforded under either an occurrence policy form or a claims-made policy form, and the policy shall be endorsed and name 'Manatee County, a political subdivision of the State of Florida' as an Additional Insured. If the coverage form is on a claims-made basis, then coverage must be maintained for a minimum of three years from termination of date of the contract. Limits must not be less than:

Pollution Liability

Amount equal to the value of the contract, subject to a \$1,000,000 minimum, for Bodily Injury and Property Damage to include sudden and gradual release, each claim and aggregate.

Asbestos Liability (If handling within scope of Contract)

Amount equal to the value of the contract, subject to a \$1,000,000 minimum, for Bodily Injury and Property Damage to include sudden and gradual release, each claim and aggregate.

Disposal

When applicable, SUPPLIER shall designate the disposal site and furnish a Certificate of Insurance from the disposal facility for Environmental Impairment Liability Insurance covering liability.

- Amount equal to the value of the contract, subject to a \$1,000,000 minimum, for Liability for Sudden and Accidental Occurrences, each claim and an aggregate.
- Amount equal to the value of the contract, subject to a \$1,000,000 minimum, for Liability for Non-Sudden and Accidental Occurrences, each claim and an aggregate.

Hazardous Waste Transportation Insurance

SUPPLIER shall designate the hauler and have the hauler furnish a Certificate of Insurance for Automobile Liability insurance with Endorsement MCS-90 for liability arising out of the transportation of hazardous materials. EPA identification number shall be provided.

All coverage shall be afforded under either an occurrence policy form or a claims-made policy form and the policy shall be endorsed and name "Manatee County, a political subdivision of the State of Florida" as an Additional Insured. If the coverage form is on a claims-made basis, then coverage must be maintained for a minimum of three years from termination of date of the contract. Limits must not be less than:

- Amount equal to the value of the contract, subject to a \$1,000,000 minimum, per accident.

Liquor Liability Insurance

Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name "Manatee County, a political subdivision of the State of Florida" as an Additional Insured, and include limits not less than:

- \$1,000,000 Each Occurrence and Aggregate

Garage Keeper's Liability Insurance

Coverage shall be required if the maintenance, servicing, cleaning or repairing of any County motor vehicles is inherent or implied within the provision of the contract.

Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name "Manatee County, a political subdivision of the State of Florida" as an Additional Insured, and include limits not less than:

- Property and asset coverage in the full replacement value of the lot or garage.

Bailee's Customer Liability Insurance

Coverage shall be required for damage and/or destruction when County property is temporarily under the care and custody of a person or organization, including property that is on, or in transit to and from the person or organization's premises. Perils covered should include fire, lightning, theft, burglary, robbery, explosion, collision, flood, earthquake and damage or destruction during transportation by a carrier.

Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name "Manatee County, a political subdivision of the State of Florida" as an Additional Insured, and include limits not less than:

- Property and asset coverage in the full replacement value of the County asset(s) in the SUPPLIER'S care, custody and control.

Hull and Watercraft Liability Insurance

Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name "Manatee County, a political subdivision of the State of Florida" as an Additional Insured, and include limits not less than:

- \$ Each Occurrence
- \$ General Aggregate
- \$ Fire Damage Liability
- \$10,000 Medical Expense, and
- \$ Third Party Property Damage
- \$ Project Specific Aggregate (Required on projects valued at over \$10,000,000)

Other [Specify]

REQUIRED BONDS

Bid Bond

A Bid Bond in the amount of \$_____ or ____% of the total offer. Bid bond shall be submitted with the sealed response and shall include project name, location, and / or address and project number. In lieu of the bond, the bidder may file an alternative form of security in the amount of \$_____ or ____% of the total offer. in the form of a money order, a certified check, a cashier's check, or an irrevocable letter of credit issued to Manatee County. NOTE: A construction project over \$200,000 requires a Bid Bond in the amount of 5% of the total bid offer.

Payment and Performance Bond

Prior to providing services for a project pursuant to a release order over \$100, 000.00, a Payment and Performance Bond shall be submitted by Successful Bidder for 100% of the release order amount and shall be presented to Manatee County within ten (10) calendar days of issuance of the notice of intent to award. NOTE: A construction project over \$200,000 requires a Payment and Performance Bond.

I. INSURANCE REQUIREMENTS

THE POLICIES ARE TO CONTAIN, OR BE ENDORSED TO CONTAIN, THE FOLLOWING PROVISIONS:

Commercial General Liability and Automobile Liability Coverages

- a. **“Manatee County, a Political Subdivision of the State of Florida,” is to be named as an Additional Insured in respect to:** Liability arising out of activities performed by or on behalf of the SUPPLIER, his agents, representatives, and employees; products and completed operations of the SUPPLIER; or automobiles owned, leased, hired or borrowed by the SUPPLIER. The coverage shall contain no special limitation(s) on the scope of protection afforded to the COUNTY, its officials, employees or volunteers.
In addition to furnishing a Certificate of Insurance, the SUPPLIER shall provide the endorsement that evidences Manatee COUNTY being listed as an Additional Insured. This can be done in one of two ways: (1) an endorsement can be issued that specifically lists “Manatee County, a Political Subdivision of the State of Florida,” as Additional Insured; or, (2) an endorsement can be issued that states that all Certificate Holders are Additional Insured with respect to the policy.
- b. The SUPPLIER'S insurance coverage shall be primary insurance with respect to the COUNTY, its officials, employees and volunteers. Any insurance or self-insurance maintained by the COUNTY, its officials, employees or volunteers shall be excess of SUPPLIER's insurance and shall be non-contributory.
- c. The insurance policies must be on an occurrence form.

Workers' Compensation and Employers' Liability Coverages

The insurer shall agree to waive all rights of subrogation against the COUNTY, its officials, employees and volunteers for losses arising from work performed by the SUPPLIER for the COUNTY.

General Insurance Provisions Applicable To All Policies

1. Prior to the execution of contract, or issuance of a Purchase Order, and then annually upon the anniversary date(s) of the insurance policy's renewal date(s) for as long as this contract remains in effect, SUPPLIER shall furnish the COUNTY with a Certificate(s) of Insurance (using an industry accepted certificate form, signed by the Issuer, with applicable endorsements, and containing the solicitation or contract number, and title or description) evidencing the coverage set forth above and naming “Manatee County, a Political Subdivision of the State of Florida” as an Additional Insured on the applicable coverage(s) set forth above.
2. If the policy contains an aggregate limit, confirmation is needed in writing (letter, email, etc.) that the aggregate limit has not been eroded to procurement representative when supplying Certificate of Insurance. In addition, when requested in writing from the COUNTY, SUPPLIER will provide the COUNTY with a certified copy of all applicable policies. The address where such certificates and certified policies shall be sent or delivered is as follows:

Manatee County, a Political Subdivision of the State of Florida
Attn: Risk Management Division
1112 Manatee Avenue West, Suite 969
Bradenton, FL 34205

3. The project's solicitation number and title shall be listed on each certificate.

4. SUPPLIER shall provide thirty (30) days written notice to the Risk Manager of any cancellation, non-renewal, termination, material change, or reduction in coverage of any insurance policies to procurement representative including solicitation number and title with all notices.
5. SUPPLIER agrees that should at any time SUPPLIER fail to meet or maintain the required insurance coverage(s) as set forth herein, the COUNTY may terminate this contract.
6. The SUPPLIER waives all subrogation rights against COUNTY, a Political Subdivision of the State of Florida, for all losses or damages which occur during the contract and for any events occurring during the contract period, whether the suit is brought during the contract period or not.
7. The SUPPLIER has sole responsibility for all insurance premiums and policy deductibles.
8. It is the SUPPLIER'S responsibility to ensure that his agents, representatives and subcontractors comply with the insurance requirements set forth herein. SUPPLIER shall include his agents, representatives, and subcontractors working on the project or at the worksite as insured under its policies, or SUPPLIER shall furnish separate certificates and endorsements for each agent, representative, and subcontractor working on the project or at the worksite. All coverages for agents, representatives, and subcontractors shall be subject to all of the requirements set forth to the procurement representative.
9. All required insurance policies must be written with a carrier having a minimum A.M. Best rating of A- FSC VII or better. In addition, the COUNTY has the right to review the SUPPLIER's deductible or self-insured retention and to require that it be reduced or eliminated.
10. SUPPLIER understands and agrees that the stipulated limits of coverage listed herein in this insurance section shall not be construed as a limitation of any potential liability to the COUNTY, or to others, and the COUNTY'S failure to request evidence of this insurance coverage shall not be construed as a waiver of SUPPLIER'S obligation to provide and maintain the insurance coverage specified.
11. The enclosed Hold Harmless Agreement shall be signed by the SUPPLIER and shall become a part of the contract.
12. SUPPLIER understands and agrees that the COUNTY does not waive its immunity and nothing herein shall be interpreted as a waiver of the COUNTY'S rights, including the limitation of waiver of immunity, as set forth in Florida Statutes 768.28, or any other statutes, and the COUNTY expressly reserves these rights to the full extent allowed by law.
13. No award shall be made until the Procurement Division has received the Certificate of Insurance and Hold Harmless Agreement in accordance with this section.

II. BONDING REQUIREMENTS

Bid Bond/Certified Check. By submitting a proposal, the SUPPLIER agrees should its proposal be accepted, **to execute the form of Agreement and present the same to COUNTY for approval within ten (10) calendar days after notice of intent to award.** The SUPPLIER further agrees that failure to execute and deliver said form of Agreement **within ten (10) calendar days** will result in damages to COUNTY and as guarantee of payment of same a bid bond/certified check shall be enclosed within the submitted sealed proposal in the amount of five (5%) percent of the total amount of the proposal. The SUPPLIER further agrees that in case the SUPPLIER fails to enter into an Agreement, as prescribed by COUNTY, the bid bond/certified check accompanying the proposal shall be forfeited to COUNTY as agreed liquidated damages. If COUNTY enters into an agreement with a SUPPLIER, or if COUNTY rejects any and/or all proposals, accompanying bond will be promptly returned.

Payment and Performance Bonds. Prior to commencing work, the SUPPLIER shall obtain, for the benefit of and directed to COUNTY, a Payment and Performance Bond satisfying the requirements of Florida

Statutes § 255.05, covering the faithful performance by the SUPPLIER of its obligation under the Contract Documents, including but not limited to the construction of the project on the project site and the payment and obligations arising thereunder, including all payments to Subcontractors, laborers, and materialmen. The surety selected by the SUPPLIER to provide the Payment and Performance Bond shall be approved by COUNTY prior to issuance of such Bond, which approval shall not be unreasonably withheld or delayed provided that surety is rated A- or better by Best's Key Guide, latest edition.

Failure to provide the required bonds on the prescribed form may result in SUPPLIER being deemed nonresponsive. Bonds must be in the form prescribed in Florida Statutes § 255.05, and must not contain notice, demand or other terms and conditions, including informal pre-claim meetings, not provided for in Florida Statutes § 255.05.

Bonds shall be in an amount equal to 100% of the contract price issued by a duly authorized and nationally recognized surety company, authorized to do business in the State of Florida, satisfactory to COUNTY. Surety shall be rated as "A-" or better by Best's Key Guide, latest edition. The attorney-in-fact who signs the bonds must file with the bonds, a certificate and effective dated copy of power-of-attorney. Payment and Performance Bonds shall be issued to "Manatee County, a political subdivision of the State of Florida", **within ten (10) calendar days after issuance of notice of intent to award.**

In addition, pursuant to Florida Statutes § 255.05(1)(b), Florida Statutes, prior to commencing work, the SUPPLIER shall be responsible and bear all costs associated to record the Payment and Performance Bond with the Manatee County Clerk of the Circuit Court. A certified copy of said recording shall be furnished to the Procurement Division upon filing. Pursuant to Florida Statutes § 255.05(1)(b), Florida Statutes, COUNTY will make no payment to the SUPPLIER until the SUPPLIER has complied with this paragraph.

Furnishing Payment and Performance Bonds shall be requisite to execution of an Agreement with COUNTY. Said Payment and Performance Bonds will remain in force for the duration of this Agreement with the premiums paid by the SUPPLIER. Failure of the SUPPLIER to execute such Agreement and to supply the required bonds shall be just cause for cancellation of the award. COUNTY may then contract with the next lowest, responsive and responsible SUPPLIER or re-advertise this RFP.

Failure of COUNTY at any time to require performance by the SUPPLIER of any provisions set out in the resulting Agreement will in no way affect the right of COUNTY, thereafter, to enforce those provisions.

[Remainder of page intentionally left blank]

ATTACHMENT D, SUPPLIER'S INSURANCE STATEMENT

THE UNDERSIGNED has read and understands the aforementioned insurance and bond requirements of the Agreement and shall provide the insurance and bonds required by this section within ten (10) days from the date of notice of intent to award.

Date: _____

Consultant Name: _____

Authorized Signature: _____

Printed Name/Title: _____

Insurance Agency: _____

Agent Name: _____

Agent Phone: _____

Surety Agency: _____

Surety Name: _____

Surety Phone: _____

Please return this completed and signed statement with your Bid.

ATTACHMENT E, CONFLICT OF INTEREST AFFIDAVIT

IFB No. 20-TA003287CD

STATE OF _____

COUNTY OF _____

BEFORE ME, the undersigned authority, this day personally appeared [INSERT NAME] _____, as [INSERT TITLE] _____ of [INSERT CONSULTANT NAME] _____, with full authority to bind (hereinafter "CONSULTANT"), who being first duly sworn, deposes and says that CONSULTANT:

- (a) Is not currently engaged and will not become engaged in any obligations, undertakings or contracts that will require CONSULTANT to maintain an adversarial role against the County or that will impair or influence the advice, recommendations or quality of work provided to the County; and
- (b) Has provided full disclosure of all potentially conflicting contractual relationships and full disclosure of contractual relationships deemed to raise a question of conflict(s); and
- (c) Has provided full disclosure of prior work history and qualifications that may be deemed to raise a possible question of conflict(s).

Affiant makes this Affidavit for the purpose of inducing Manatee County, a political subdivision of the State of Florida, to enter into this Agreement No. _____ for _____

DATED this _____ day of _____, 20_____.

CONSULTANT Signature

The foregoing instrument was sworn to and acknowledged before me this _____ day of _____, 20____, by [NAME] _____, as [TITLE] _____ of [CONSULTANT] _____. He / She is personally known to me or has produced _____ [TYPE OF IDENTIFICATION] as identification.

Notary Signature
Commission No. _____

ATTACHMENT F, DRUG FREE WORK-PLACE CERTIFICATION

This form must be signed and sworn to in the presence of a notary public or other official authorized to administer oaths.

This sworn statement is submitted to the Manatee County Board of County Commissioners by _____
[print individual's name and title]

for _____ whose business address is _____
[print name of entity submitting sworn statement]

and (if applicable) its Federal Employer Identification Number (FEIN) is: _____ (If the entity has no FEIN, include the Social Security Number of the individual signing this sworn statement: _____.)

I understand that no person or entity shall be awarded or receive a county contract for public improvements, procurement of goods or services (including professional services) or a county lease, franchise, concession or management agreement, or shall receive a grant of county monies unless such person or entity has submitted a written certification to the County that it will provide a drug free work place by:

(1) providing a written statement to each employee notifying such employee that the unlawful manufacture, distribution, dispensation, possession or use of a controlled substance as defined by § 893.02(4), Florida Statutes, as the same may be amended from time to time, in the person's or entity's work place is prohibited specifying the actions that will be taken against employees for violation of such prohibition. Such written statement shall inform employees about:

- (i) the dangers of drug abuse in the work place;
- (ii) the person's or entity's policy of maintaining a drug free environment at all its work places, including but not limited to all locations where employees perform any task relating to any portion of such contract, business transaction or grant;
- (iii) any available drug counseling, rehabilitation, and employee assistance programs; and
- (iv) the penalties that may be imposed upon employees for drug abuse violations.

(2) Requiring the employee to sign a copy of such written statement to acknowledge his or her receipt of same and advice as to the specifics of such policy. Such person or entity shall retain the statements signed by its employees. Such person or entity shall also post in a prominent place at all of its work places a written statement of its policy containing the foregoing elements (i) through (iv).

(3) Notifying the employee in the statement required by subsection (1) that as a condition of employment the employee will:

- (i) abide by the terms of the statement;
- (ii) notify the employer of any criminal drug statute conviction for a violation occurring in the work place no later than five (5) days after such a conviction.

(4) Notifying the County within ten (10) days after receiving notice under subsection (3) from an employee or otherwise receiving actual notice of such conviction.

(5) Imposing appropriate personnel action against such employee up to and including termination; or requiring such employee to satisfactorily participate in a drug abuse assistance or rehabilitation program approved for such purposes by a federal, state, or local health, law enforcement, or other appropriate agency.

(6) Making a good faith effort to continue to maintain a drug free work place through implementation of sections (1) through (5) stated above.

I UNDERSTAND THAT THE SUBMISSION OF THIS FORM TO THE CONTRACTING OFFICER FOR MANATEE COUNTY IS VALID THROUGH DECEMBER 31 OF THE CALENDAR YEAR IN WHICH IT IS FILED. I ALSO UNDERSTAND THAT ANY CONTRACT OR BUSINESS TRANSACTION SHALL PROVIDE FOR SUSPENSION OF PAYMENTS, OR TERMINATION, OR BOTH, IF THE CONTRACTING OFFICER OR THE COUNTY ADMINISTRATOR DETERMINES THAT:

- (1) Such person or entity has made false certification.
- (2) Such person or entity violates such certification by failing to carry out the requirements of sections (1), (2), (3), (4), (5), or (6) or subsection 3-101(7)(B); or
- (3) Such a number of employees of such person or entity have been convicted of violations occurring in the work place as to indicate that such person or entity has failed to make a good faith effort to provide a drug free work place as required by subsection 3-101(7)(B).

[Signature of Owner, Partner, President, CEO or other Authorized Official or Agent of Bidder]

STATE OF _____
COUNTY OF _____

Sworn to and subscribed before me this _____ day of _____, 201____ by _____
who is:

- Personally known
- OR
- Produced identification _____
[Type of identification]

My commission expires _____

Notary Public Signature _____

[Print, type or stamp Commissioned name of Notary Public]

ATTACHMENT G, BIDDER'S QUESTIONNAIRE

Bidder must fully complete and return this form with its Bid. Bidder warrants the truth and accuracy of all statements and answers herein contained. (Attach additional pages if necessary.)

THIS QUESTIONNAIRE MUST BE COMPLETED AND SUBMITTED WITH YOUR BID

1. Contact Information:

FEIN #: _____
License #: _____
License Issued to: _____
Date License Issued (MM/DD/YR): _____
Company Name: _____
Physical Address: _____
City: _____ State of Incorporation: _____ Zip Code: _____
Phone Number: () _____ Fax Number: () _____
Email address: _____

2. Bidding as: an individual __; a partnership __; a corporation __; a joint venture __

3. If a partnership, list names and addresses of partners; if a corporation, list names of officers, directors, shareholders, and state of incorporation; if joint venture, list names and address of ventures' and the same if any venture are a corporation for each such corporation, partnership, or joint venture:

4. Bidder is authorized to do business in the State of Florida: Yes No
For how many years? _____

5. Your organization has been in business (under this firm's name) as a

Is this firm in bankruptcy? _____

6. Attach a list of projects where this specific type of Work was performed.

BIDDER: _____

7. Is this firm currently contemplating or in litigation? Provide summary details.

8. Have you ever been assessed liquidated damages under a contract during the past five (5) years? If so, state when, where (contact name, address and phone number) and why.

9. Have you ever failed to complete Work awarded to you? Or failed to complete projects within contract time? If so, state when, where (contact name, address, phone number) and why.

10. Have you ever been debarred or prohibited from providing a bid to a governmental entity? If yes, name the entity and describe the circumstances.

11. Will you subcontract any part of this Work? If so, describe which portion(s) and to whom.

12. If any part of work will be subcontracted, list MBE/DBE/WBE/VETERAN to be utilized. Include the estimated dollar amount of the portion of Work each will perform.

BIDDER: _____

13. What equipment do you own to accomplish this Work? (A listing may be attached)

14. What equipment will you purchase/rent for the Work? (Specify which)

15. Is Bidder a local business as defined in Section A.38, Local Preference?

Yes No

If yes, by signing below Bidder certifies that for at least six months prior to the advertisement date of this IFB it has maintained a physical place of business in Manatee, Desoto, Hardee, Hillsborough, Pinellas or Sarasota counties with at least one full-time employee at that location.

BIDDER: _____

BY: _____

PRINTED NAME: _____

TITLE/DATE: _____

PHYSICAL ADDRESS OF QUALIFYING LOCAL LOCATION: _____

NAME OF QUALIFYING EMPLOYEE AT LOCAL LOCATION: _____

ATTACHMENT H, PRICING FORM

IFB No. 20-TA003287CD

We, the undersigned, hereby declare that we have carefully reviewed the IFB Documents in their entirety and with full knowledge and understanding of the Bid information and all its requirements, submit this Bid, which is complete in meeting each specification, term, and condition contained therein.

Company Name: _____

Authorized Signature(s): _____

Name and Title of Above Signer(s): _____

Date: _____

BID FORM

IFB - ROAD BUILDING MATERIALS AND SERVICES

SECTION I - AGGREGATE		
I.1 CRUSHED STONE #4 (FDOT SPEC 901)		
LOCATION OF VENDOR'S PLANT:		
DISTANCE OF VENDOR'S PLANT TO MANATEE COUNTY YARD : <u>5511 39th Street East, Bradenton 34203</u>		/ MILES
PRICE F.O.B. VENDOR'S PLANT:		/ PER TON
PRICE VENDOR DELIVERED TO MANATEE COUNTY YARD:		
	4680 66th Street West, Bradenton FL 34210	/ PER TON
	5511 39th Street East, Bradenton FL 34203	/ PER TON
	2908 12th Street Court East, Bradenton FL 34208	/ PER TON
	36650 Arcadia Avenue, Myakka FL 34251 (MYAKKA YARD)	/ PER TON
	8500 69th Street East, Palmetto FL 34221 (ERIE ROAD)	/ PER TON
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
I.2 CRUSHED STONE #57 (FDOT SPEC 901)		
LOCATION OF VENDOR'S PLANT:		
DISTANCE OF VENDOR'S PLANT TO MANATEE COUNTY YARD : <u>5511 39th Street East, Bradenton 34203</u>		/ MILES
PRICE F.O.B. VENDOR'S PLANT:		/ PER TON
PRICE VENDOR DELIVERED TO MANATEE COUNTY YARD:		
	4680 66th Street West, Bradenton FL 34210	/ PER TON
	5511 39th Street East, Bradenton FL 34203	/ PER TON
	2908 12th Street Court East, Bradenton FL 34208	/ PER TON

BIDDER: _____

AUTHORIZED BY: _____

BID FORM
IFB -
ROAD BUILDING MATERIALS AND SERVICES

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SECTION I - AGGREGATE		
	36650 Arcadia Avenue Myakka FL 34251 (MYAKKA YARD)	/ PER TON
	8500 69th Street East, Palmetto FL 34221 (ERIE ROAD)	/ PER TON
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
I.3 COARSE AGGREGATE 3/8" (FDOT SPEC 901)		
LOCATION OF VENDOR'S PLANT:		
DISTANCE OF VENDOR'S PLANT TO MANATEE COUNTY YARD : <u>5511 39th Street East, Bradenton 34203</u>		/ MILES
PRICE F.O.B. VENDOR'S PLANT:		/ PER TON
PRICE VENDOR DELIVERED TO MANATEE COUNTY YARD		
	4680 66th Street West, Bradenton FL 34210	/ PER TON
	5511 39th Street East, Bradenton FL 34203	/ PER TON
	2908 12th Street Court East, Bradenton FL 34208	/ PER TON
	36650 Arcadia Avenue Myakka FL 34251 (MYAKKA YARD)	/ PER TON
	8500 69th Street East, Palmetto FL 34221 (ERIE ROAD)	/ PER TON
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS

BIDDER: _____

AUTHORIZED BY: _____

BID FORM
IFB -
ROAD BUILDING MATERIALS AND SERVICES

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SECTION I - AGGREGATE	
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I.4 COARSE MASONRY SAND (ASTM C144)	
--	--

LOCATION OF VENDOR'S PLANT:	
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DISTANCE OF VENDOR'S PLANT TO MANATEE COUNTY YARD : <u>5511 39th Street East, Bradenton 34203</u>	/ MILES
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PRICE F.O.B. VENDOR'S PLANT:	/ PER TON
------------------------------	-----------

PRICE VENDOR DELIVERED TO MANATEE COUNTY YARD	
---	--

	4680 66th Street West, Bradenton FL 34210	/ PER TON
--	---	-----------

	5511 39th Street East, Bradenton FL 34203	/ PER TON
--	---	-----------

	2908 12th Street Court East, Bradenton FL 34208	/ PER TON
--	---	-----------

	36650 Arcadia Avenue Myakka FL 34251 (MYAKKA YARD)	/ PER TON
--	--	-----------

	8500 69th Street East, Palmetto FL 34221 (ERIE ROAD)	/ PER TON
--	--	-----------

DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
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I.4A TACK SAND (FDOT SPEC 902-6)	
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LOCATION OF VENDOR'S PLANT:	
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DISTANCE OF VENDOR'S PLANT TO MANATEE COUNTY YARD : <u>5511 39th Street East, Bradenton 34203</u>	/ MILES
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PRICE F.O.B. VENDOR'S PLANT:	/ PER TON
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PRICE VENDOR DELIVERED TO MANATEE COUNTY YARD	
---	--

	4680 66th Street West, Bradenton FL 34210	/ PER TON
--	---	-----------

	5511 39th Street East, Bradenton FL 34203	/ PER TON
--	---	-----------

	2908 12th Street Court East, Bradenton FL 34208	/ PER TON
--	---	-----------

	36650 Arcadia Avenue Myakka FL 34251 (MYAKKA YARD)	/ PER TON
--	--	-----------

BIDDER: _____

AUTHORIZED BY: _____

BID FORM
IFB -
ROAD BUILDING MATERIALS AND SERVICES

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SECTION I - AGGREGATE		
	8500 69th Street East, Palmetto FL 34221 (ERIE ROAD)	/ PER TON
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
I.5 CONCRETE SAND (ASTM C33)		
LOCATION OF VENDOR'S PLANT:		
DISTANCE OF VENDOR'S PLANT TO MANATEE COUNTY YARD : <u>5511 39th Street East, Bradenton 34203</u>		/ MILES
PRICE F.O.B. VENDOR'S PLANT:		/ PER TON
PRICE VENDOR DELIVERED TO MANATEE COUNTY YARD:		
	4680 66th Street West, Bradenton FL 34210	/ PER TON
	5511 39th Street East, Bradenton FL 34203	/ PER TON
	36650 Arcadia Avenue Myakka FL 34251 (MYAKKA YARD)	/ PER TON
	8500 69th Street East, Palmetto FL 34221 (ERIE ROAD)	/ PER TON
	2908 12th Street Court East, Bradenton FL 34208	/ PER TON
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS

BIDDER: _____

AUTHORIZED BY: _____

BID FORM

IFB - ROAD BUILDING MATERIALS AND SERVICES

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SECTION I - AGGREGATE	
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I.6 FILL DIRT CY (FDOT SPEC 120-2)	
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PRICE VENDOR DELIVERED TO JOB SITE	ZONE 1	0 - 2,000 CY	/ PER CY
		OVER 2,000 CY	/ PER CY
	ZONE 2	0 - 2,000 CY	/ PER CY
		OVER 2,000 CY	/ PER CY
	ZONE 3	0 - 2,000 CY	/ PER CY
		OVER 2,000 CY	/ PER CY
	ZONE 4A	0 - 2,000 CY	/ PER CY
		OVER 2,000 CY	/ PER CY
	ZONE 4B	0 - 2,000 CY	/ PER CY
		OVER 2,000 CY	/ PER CY
	ZONE 5	0 - 2,000 CY	/ PER CY
		OVER 2,000 CY	/ PER CY

DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
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I.7 FILL DIRT TON (FDOT SPEC 120-2)	
--	--

LOCATION OF VENDOR'S PLANT:	
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PRICE F.O.B. VENDOR'S PLANT:	/ PER TON
-------------------------------------	------------------

PRICE VENDOR DELIVERED TO JOB SITE	ZONE 1	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON
	ZONE 2	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON
	ZONE 3	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON
	ZONE 4A	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON

BIDDER: _____

AUTHORIZED BY: _____

BID FORM

IFB - ROAD BUILDING MATERIALS AND SERVICES

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SECTION I - AGGREGATE	
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	ZONE 4A	OVER 500 TONS	/ PER TON
	ZONE 4B	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON
	ZONE 5	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON
	DELIVERY DAYS AFTER RECEIPT OF ORDER:		

I.8 SHELL BASE BANK RUN SHELL (FDOT SPEC 911)	
---	--

LOCATION OF VENDOR'S PLANT:	
DISTANCE OF VENDOR'S PLANT TO MANATEE COUNTY YARD : <u>5511 39th Street East, Bradenton 34203</u>	/ MILES
PRICE F.O.B. VENDOR'S PLANT:	/ PER TON
DISTANCE OF VENDOR'S PLANT TO MANATEE COUNTY YARD : <u>5511 39th Street East, Bradenton 34203</u>	/ PER TON

PRICE VENDOR DELIVERED TO JOB SITE	ZONE 1	0 - 500 TONS	/ PER TON	
		OVER 500 TONS	/ PER TON	
	ZONE 2	0 - 500 TONS	/ PER TON	
		OVER 500 TONS	/ PER TON	
	ZONE 3	0 - 500 TONS	/ PER TON	
		OVER 500 TONS	/ PER TON	
	ZONE 4A	0 - 500 TONS	/ PER TON	
		OVER 500 TONS	/ PER TON	
	ZONE 4B	0 - 500 TONS	/ PER TON	
		OVER 500 TONS	/ PER TON	
			0 - 500 TONS	/ PER TON

BIDDER: _____

AUTHORIZED BY: _____

BID FORM

IFB - ROAD BUILDING MATERIALS AND SERVICES

SECTION I - AGGREGATE			
	ZONE 5	OVER 500 TONS	/ PER TON
DELIVERY DAYS AFTER RECEIPT OF ORDER:			/ DAYS
1.9 SHELL BASE BANK RUN SHELL @ <16% MOISTURE CONTENT (FDOT SPEC 911)			
LOCATION OF VENDOR'S PLANT:			
DISTANCE OF VENDOR'S PLANT TO MANATEE COUNTY YARD : <u>5511 39th Street East, Bradenton 34203</u>			/ MILES
PRICE F.O.B. VENDOR'S PLANT:			/ PER TON
PRICE VENDOR DELIVER TO MANATEE COUNTY YARD			/ PER TON
		4680 66th Street West, Bradenton FL 34210	/ PER TON
		5511 39th Street East, Bradenton FL 34203	/ PER TON
		2908 12th Street Court East, Bradenton FL 34208	/ PER TON
		36650 Arcadia Avenue Myakka FL 34251 (MYAKKA YARD)	/ PER TON
		8500 69th Street East, Palmetto FL 34221 (ERIE ROAD)	/ PER TON
PRICE VENDOR	ZONE 1	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON
	ZONE 2	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON
	ZONE 3	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON

BIDDER: _____

AUTHORIZED BY: _____

BID FORM
IFB -
ROAD BUILDING MATERIALS AND SERVICES

--

SECTION I - AGGREGATE			
DELIVERED TO JOB SITE	ZONE 4A	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON
	ZONE 4B	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON
	ZONE 5	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON
DELIVERY DAYS AFTER RECEIPT OF ORDER:			/ DAYS

BIDDER: _____

AUTHORIZED BY: _____

BID FORM

IFB - ROAD BUILDING MATERIALS AND SERVICES

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SECTION I - AGGREGATE			
I.10 SUBBASE STABILIZATION MATERIALS (FDOT SPEC 914)			
LOCATION OF VENDOR'S PLANT:			
DISTANCE OF VENDOR'S PLANT TO MANATEE COUNTY YARD : <u>5511 39th Street East, Bradenton 34203</u>		/ MILES	
PRICE F.O.B. VENDOR'S PLANT:		/ PER TON	
PRICE VENDOR DELIVERED TO JOB SITE	ZONE 1	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON
	ZONE 2	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON
	ZONE 3	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON
	ZONE 4A	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON
	ZONE 4B	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON
	ZONE 5	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON
	DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
	I.11 WASHED SHELL 1/2"		
LOCATION OF VENDOR'S PLANT:			
DISTANCE OF VENDOR'S PLANT TO MANATEE COUNTY YARD : <u>5511 39th Street East, Bradenton 34203</u>		/ MILES	
DISTANCE OF VENDOR'S PLANT TO MANATEE COUNTY YARD:		/ MILES	

BIDDER: _____

AUTHORIZED BY: _____

BID FORM

IFB - ROAD BUILDING MATERIALS AND SERVICES

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SECTION I - AGGREGATE	
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PRICE F.O.B. VENDOR'S PLANT:	/ PER TON
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PRICE VENDOR DELIVER TO MANATEE COUNTY YARD	/ PER TON
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	4680 66th Street West, Bradenton FL 34210	/ PER TON
--	---	-----------

	5511 39th Street East, Bradenton FL 34203	/ PER TON
--	---	-----------

	36650 Arcadia Avenue Myakka FL 34251 (MYAKKA YARD)	/ PER TON
--	--	-----------

	8500 69th Street East, Palmetto FL 34221 (ERIE ROAD)	/ PER TON
--	--	-----------

	2908 12th Street Court East, Bradenton FL 34208	/ PER TON
--	---	-----------

PRICE VENDOR DELIVERED TO	ZONE 1	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON
	ZONE 2	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON
	ZONE 3	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON

BIDDER: _____

AUTHORIZED BY: _____

BID FORM

IFB - ROAD BUILDING MATERIALS AND SERVICES

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SECTION I - AGGREGATE

DELIVERED TO JOB SITE	ZONE 4A	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON
	ZONE 4B	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON
	ZONE 5	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON

DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
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I.12 WASHED SHELL 1"

LOCATION OF VENDOR'S PLANT:	
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DISTANCE OF VENDOR'S PLANT TO MANATEE COUNTY YARD : <u>5511 39th Street East, Bradenton 34203</u>	/ MILES
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PRICE F.O.B. VENDOR'S PLANT:	/ PER TON
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PRICE VENDOR DELIVER TO MANATEE COUNTY YARD	/ PER TON
--	-----------

	4680 66th Street West, Bradenton FL 34210	/ PER TON
--	---	-----------

	5511 39th Street East, Bradenton FL 34203	/ PER TON
--	---	-----------

	36650 Arcadia Avenue Myakka FL 34251 (MYAKKA YARD)	/ PER TON
--	--	-----------

	8500 69th Street East, Palmetto FL 34221 (ERIE ROAD)	/ PER TON
--	--	-----------

	2908 12th Street Court East, Bradenton FL 34208	/ PER TON
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BIDDER: _____

AUTHORIZED BY: _____

BID FORM
IFB -
ROAD BUILDING MATERIALS AND SERVICES

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SECTION I - AGGREGATE	
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PRICE VENDOR DELIVERED TO JOB SITE	ZONE 1	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON
	ZONE 2	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON
	ZONE 3	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON
	ZONE 4A	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON
	ZONE 4B	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON
	ZONE 5	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON

DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
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BIDDER: _____

AUTHORIZED BY: _____

BID FORM

IFB - ROAD BUILDING MATERIALS AND SERVICES

SECTION I - AGGREGATE		
I.13 WASHED SHELL 3"		
LOCATION OF VENDOR'S PLANT:		
DISTANCE OF VENDOR'S PLANT TO MANATEE COUNTY YARD : <u>5511 39th Street East, Bradenton 34203</u>		/ MILES
PRICE F.O.B. VENDOR'S PLANT:		/ PER TON
PRICE VENDOR DELIVER TO MANATEE COUNTY YARD		/ PER TON
	4680 66th Street West, Bradenton FL 34210	/ PER TON
	5511 39th Street East, Bradenton FL 34203	/ PER TON
	36650 Arcadia Avenue Myakka FL 34251 (MYAKKA YARD)	/ PER TON
	8500 69th Street East, Palmetto FL 34221 (ERIE ROAD)	/ PER TON
	2908 12th Street Court East, Bradenton FL 34208	/ PER TON
ZONE 1	0 - 500 TONS	/ PER TON
	OVER 500 TONS	/ PER TON
ZONE 2	0 - 500 TONS	/ PER TON
	OVER 500 TONS	/ PER TON

BIDDER: _____

AUTHORIZED BY: _____

BID FORM

IFB - ROAD BUILDING MATERIALS AND SERVICES

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SECTION I - AGGREGATE	
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PRICE VENDOR DELIVERED TO JOB SITE	ZONE 3	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON
	ZONE 4A	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON
	ZONE 4B	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON
	ZONE 5	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON

DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
--	---------------

I.14 SHELL SCREENINGS TDS 1/2"	
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LOCATION OF VENDOR'S PLANT:	
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DISTANCE OF VENDOR'S PLANT TO MANATEE COUNTY YARD : <u>5511 39th Street East, Bradenton 34203</u>	/ MILES
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PRICE F.O.B. VENDOR'S PLANT:	/ PER TON
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PRICE VENDOR DELIVER TO MANATEE COUNTY YARD	/ PER TON
--	------------------

	/ PER TON
	/ PER TON

	/ PER TON
	/ PER TON

BIDDER: _____

AUTHORIZED BY: _____

BID FORM

IFB - ROAD BUILDING MATERIALS AND SERVICES

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SECTION I - AGGREGATE	
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	36650 Arcadia Avenue Myakka FL 34251 (MYAKKA YARD)	/ PER TON
--	---	-----------

	8500 69th Street East, Palmetto FL 34221 (ERIE ROAD)	/ PER TON
--	---	-----------

	2908 12th Street Court East, Bradenton FL 34208	/ PER TON
--	---	-----------

PRICE VENDOR DELIVERED TO JOB SITE	ZONE 1	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON
	ZONE 2	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON
	ZONE 3	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON
	ZONE 4A	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON
	ZONE 4B	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON
	ZONE 5	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON

DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
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I.15 LIMEROCK BASE MATERIAL (FDOT SPEC SECTION 911)	
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LOCATION OF VENDOR'S PLANT:	
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DISTANCE OF VENDOR'S PLANT TO MANATEE COUNTY YARD : <u>5511 39th Street East, Bradenton 34203</u>	/ MILES
--	---------

BIDDER: _____

AUTHORIZED BY: _____

BID FORM

IFB - ROAD BUILDING MATERIALS AND SERVICES

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SECTION I - AGGREGATE	
------------------------------	--

PRICE F.O.B. VENDOR'S PLANT:	/ PER TON
------------------------------	-----------

	<u>5511 39th Street East, Bradenton FL 34210</u>	/ PER TON
--	--	-----------

PRICE VENDOR DELIVERED TO JOB SITE	ZONE 1	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON
	ZONE 2	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON
	ZONE 3	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON
	ZONE 4A	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON
	ZONE 4B	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON
	ZONE 5	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON

DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
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I.16 CRUSHED CONCRETE AGGREGATE BASE MATERIALS (MANATEE CO SPECS)	
---	--

LOCATION OF VENDOR'S PLANT:	
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DISTANCE OF VENDOR'S PLANT TO MANATEE COUNTY YARD : <u>5511 39th Street East, Bradenton 34203</u>	/ MILES
--	---------

BIDDER: _____

AUTHORIZED BY: _____

BID FORM

IFB - ROAD BUILDING MATERIALS AND SERVICES

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SECTION I - AGGREGATE	
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DISTANCE OF VENDOR'S PLANT TO MANATEE COUNTY YARD	/MILES
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PRICE F.O.B. VENDOR'S PLANT:	/ PER TON
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DISTANCE OF VENDOR'S PLANT TO MANATEE COUNTY YARD : <u>5511 39th Street East, Bradenton 34203</u>	/ PER TON
--	-----------

PRICE VENDOR DELIVERED TO JOB SITE	ZONE 1	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON
	ZONE 2	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON
	ZONE 3	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON
	ZONE 4A	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON
	ZONE 4B	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON
	ZONE 5	0 - 500 TONS	/ PER TON
		OVER 500 TONS	/ PER TON

DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
---------------------------------------	--------

I.17 GRADED AGGREGATE BASE (FDOT SPEC 204)	
--	--

LOCATION OF VENDOR'S PLANT:	
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DISTANCE OF VENDOR'S PLANT TO MANATEE COUNTY YARD : <u>5511 39th Street East, Bradenton 34203</u>	/ MILES
--	---------

PRICE F.O.B. VENDOR'S PLANT:	/ PER TON
------------------------------	-----------

	/ PER TON
<u>5511 39th Street East, Bradenton FL 34210</u>	/ PER TON

BIDDER: _____

AUTHORIZED BY: _____

BID FORM
IFB -
ROAD BUILDING MATERIALS AND SERVICES

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SECTION I - AGGREGATE				
PRICE VENDOR DELIVERED TO JOB SITE	ZONE 1	0 - 500 TONS	/ PER TON	
		OVER 500 TONS	/ PER TON	
	ZONE 2	0 - 500 TONS	/ PER TON	
		OVER 500 TONS	/ PER TON	
	ZONE 3	0 - 500 TONS	/ PER TON	
		OVER 500 TONS	/ PER TON	
	ZONE 4A	0 - 500 TONS	/ PER TON	
		OVER 500 TONS	/ PER TON	
	ZONE 4B	0 - 500 TONS	/ PER TON	
		OVER 500 TONS	/ PER TON	
	ZONE 5	0 - 500 TONS	/ PER TON	
		OVER 500 TONS	/ PER TON	
	DELIVERY DAYS AFTER RECEIPT OF ORDER:			/ DAYS

BIDDER: _____

AUTHORIZED BY: _____

BID FORM
IFB -
ROAD BUILDING MATERIALS AND SERVICES

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SECTION I - AGGREGATE		
I.18 #7 COARSE AGGREGATE 1/2" (FDOT SPEC 901)		
LOCATION OF VENDOR'S PLANT:		
DISTANCE OF VENDOR'S PLANT TO MANATEE COUNTY YARD : <u>5511 39th Street East, Bradenton 34203</u>		/ MILES
PRICE F.O.B. VENDOR'S PLANT:		/ PER TON
PRICE VENDOR DELIVERED TO MANATEE COUNTY YARD:		
	4680 66th Street West, Bradenton FL 34210	/ PER TON
	5511 39th Street East, Bradenton FL 34203	/ PER TON
	36650 Arcadia Avenue Myakka FL 34251 (MYAKKA YARD)	/ PER TON
	2908 12th Street Court East, Bradenton FL 34208	/ PER TON
	8500 69th Street East, Palmetto FL 34221 (ERIE ROAD)	/ PER TON
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS

BIDDER: _____

AUTHORIZED BY: _____

BID FORM
IFB #
ROAD BUILDING MATERIALS

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SECTION II - LIQUID ASPHALT	
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II.1 ASPHALT EMULSION TYPE RS-1 (SPEC FDOT 300)	
--	--

LOCATION OF VENDOR'S PLANT:	
DISTANCE OF VENDOR'S PLANT TO MANATEE COUNTY YARD:	/ MILES
PRICE F.O.B. VENDOR'S PLANT:	/ PER GAL
PRICE VENDOR DELIVER TO MANATEE COUNTY YARD	/ PER GAL
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS

II.2 ASPHALT EMULSION TYPE RS-2 (SPEC FDOT 300)	
--	--

LOCATION OF VENDOR'S PLANT:	
DISTANCE OF VENDOR'S PLANT TO MANATEE COUNTY YARD:	/ MILES
PRICE F.O.B. VENDOR'S PLANT:	/ PER GAL
PRICE VENDOR DELIVER TO MANATEE COUNTY YARD	/ PER GAL
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS

II.3 EPRS (Emulsion Prime Type RS) (SPEC FDOT 300)	
---	--

LOCATION OF VENDOR'S PLANT:	
DISTANCE OF VENDOR'S PLANT TO MANATEE COUNTY YARD:	/ MILES
PRICE F.O.B. VENDOR'S PLANT:	/ PER GAL
PRICE VENDOR DELIVER TO MANATEE COUNTY YARD	/ PER GAL
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION III - PAVEMENT BASE CONSTRUCTION

III.1

SHAPE, MIX AND COMPACT MATERIALS FOR SUB-GRADE STABILIZATION OR EXISTING BASE - Specification: F.D.O.T. Sections 200 thru 290 as applicable. MC Standard 403 - 403.1

6" DEPTH

0 - 2,000 SY

/ PER SY

2,001 - 10,000 SY

/ PER SY

OVER 10,000 SY

/ PER SY

8" DEPTH

0 - 2,000 SY

/ PER SY

2,001 - 10,000 SY

/ PER SY

OVER 10,000 SY

/ PER SY

12" DEPTH

0 - 2,000 SY

/ PER SY

2,001 - 10,000 SY

/ PER SY

OVER 10,000 SY

/ PER SY

DELIVERY DAYS AFTER RECEIPT OF ORDER:

/ DAYS

III.2

PLACE, SHAPE, AND COMPACT SHELL, LIMEROCK, OR CRUSHED CONCRETE BASE, GRADED AGGREGATE - Specification: F.D.O.T. Sections 200 and 290 as applicable MC Standards 403 - 403.1

6" DEPTH

0 - 2,000 SY

/ PER SY

2,001 - 10,000 SY

/ PER SY

OVER 10,000 SY

/ PER SY

8" DEPTH

0 - 2,000 SY

/ PER SY

2,001 - 10,000 SY

/ PER SY

OVER 10,000 SY

/ PER SY

12" DEPTH

0 - 2,000 SY

/ PER SY

2,001 - 10,000 SY

/ PER SY

OVER 10,000 SY

/ PER SY

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION III - PAVEMENT BASE CONSTRUCTION

DELIVERY DAYS AFTER RECEIPT OF ORDER:

/ DAYS

III.3 PRIME AND MAT - Specification: Seal and Sand, (FDOT SPEC 300)

0 - 500 SY

/ PER SY

501 - 1,000 SY

/ PER SY

1,001 - 2,500 SY

/ PER SY

OVER 2,500 SY

/ PER SY

DELIVERY DAYS AFTER RECEIPT OF ORDER:

/ DAYS

III.4 EXCAVATION (DIRT REMOVAL) SEE SPEC

0 - 200 CY

/ PER CY

201 - 2,000 CY

/ PER CY

OVER 2,000 CY

/ PER CY

DELIVERY DAYS AFTER RECEIPT OF ORDER:

/ DAYS

III.5 GRADE AND SHAPE FORESLOPE, BACKSLOPE & PULLING OF DITCHES - SEE SPEC

0 - 200 SY

/ PER SY

201 - 2,000 SY

/ PER SY

OVER 2,000 SY

/ PER SY

DELIVERY DAYS AFTER RECEIPT OF ORDER:

/ DAYS

III.6 TRAFFIC MAINTENANCE SIGNS AND BARRICADES RENTAL

BARRICADES

(A)

TYPE A (without light)

/ PER UNIT DAY

TYPE II (without light) - 48" minimum length

/ PER UNIT DAY

Bidder Name: _____

Authorized Signature: _____

BID FORM		
ROAD BUILDING MATERIALS AND SERVICES		
SECTION III - PAVEMENT BASE CONSTRUCTION		
	TYPE III (without light) - 72" minimum length	/ PER UNIT DAY
(B)	BARRICADE LIGHTS	
	TYPE A - FLASHING	/ PER UNIT DAY
	TYPE B - STEADY BURN	/ PER UNIT DAY
(C)	TRAFFIC BARRELS - ORANGE PLASTIC WITH REFLECTIVE COLLARS	
	18" DIAMETER x 48" HIGH MINIMUM	/ PER UNIT DAY
(D)	TRAFFIC CONES - ORANGE PLASTIC WITH REFLECTIVE COLLARS	
	24" HIGH	/ PER UNIT DAY
	36" HIGH	/ PER UNIT DAY
(E)	TRAFFIC SIGNS - REFLECTORIZED FACED WITH ENGINEERING GRADE OR BETTER MATERIAL. EXACT TYPE TO BE ORDERED TO FIT JOB SITE:	
	36" x 36"	/ PER UNIT DAY
	48" x 48"	/ PER UNIT DAY
	18" x 24"	/ PER UNIT DAY
	60" x 30"	/ PER UNIT DAY
	48" x 30"	/ PER UNIT DAY
(F)	ARROW BOARDS - SELF CONTAINED, TRAILER MOUNTED, 48"H x 60"W MINIMAL SIZE	
	ARROW(S) ONLY	/ PER UNIT DAY
	VARIABLE MESSAGE	/ PER UNIT DAY
(G)	PRE-CAST CONCRETE TEMPORARY BARRIER WALL SECTIONS PER FLORIDA DOT INDEX NO. 415	
	PER SECTION - 12" MINIMUM LENGTH	/ PER UNIT DAY
	DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION III - PAVEMENT BASE CONSTRUCTION

III.7	FILL DIRT PLACING (PLACE, SHAPE, AND COMPACT FILL) SEE SPEC	
--------------	--	--

	ZONE 1	0 - 200 CY	/ PER CY
		201 - 2,000 CY	/ PER CY
		OVER 2,000 CY	/ PER CY
	ZONE 2	0 - 200 CY	/ PER CY
		201 - 2,000 CY	/ PER CY
		OVER 2,000 CY	/ PER CY
	ZONE 3	0 - 200 CY	/ PER CY
		201 - 2,000 CY	/ PER CY
		OVER 2,000 CY	/ PER CY
	ZONE 4A	0 - 200 CY	/ PER CY
		201 - 2,000 CY	/ PER CY
		OVER 2,000 CY	/ PER CY
	ZONE 4B	0 - 200 CY	/ PER CY
		201 - 2,000 CY	/ PER CY
		OVER 2,000 CY	/ PER CY
	ZONE 5	0 - 200 CY	/ PER CY
		201 - 2,000 CY	/ PER CY
		OVER 2,000 CY	/ PER CY
DELIVERY DAYS AFTER RECEIPT OF ORDER:			/ DAYS

III.8	HYDRO SEEDING (Water & Fertilizer are separate bid items) - SEE SPEC	
--------------	---	--

	ZONE 1	0 - 500 SY	/ PER SY
		501 - 5,000 SY	/ PER SY
		5,001 - 12,000 SY	/ PER SY
		12,001 - 22,000 SY	/ PER SY

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION III - PAVEMENT BASE CONSTRUCTION

		OVER 22,000 SY	/ PER SY
	ZONE 2	0 - 500 SY	/ PER SY
		501 - 5,000 SY	/ PER SY
		5,001 - 12,000 SY	/ PER SY
		12,001 - 22,000 SY	/ PER SY
		OVER 22,000 SY	/ PER SY
	ZONE 3	0 - 500 SY	/ PER SY
		501 - 5,000 SY	/ PER SY
		5,001 - 12,000 SY	/ PER SY
		12,001 - 22,000 SY	/ PER SY
		OVER 22,000 SY	/ PER SY
	ZONE 4A	0 - 500 SY	/ PER SY
		501 - 5,000 SY	/ PER SY
		5,001 - 12,000 SY	/ PER SY
		12,001 - 22,000 SY	/ PER SY
		OVER 22,000 SY	/ PER SY
	ZONE 4B	0 - 500 SY	/ PER SY
		501 - 5,000 SY	/ PER SY
		5,001 - 12,000 SY	/ PER SY
		12,001 - 22,000 SY	/ PER SY
		OVER 22,000 SY	/ PER SY
	ZONE 5	0 - 500 SY	/ PER SY
		501 - 5,000 SY	/ PER SY
		5,001 - 12,000 SY	/ PER SY
		12,001 - 22,000 SY	/ PER SY
		OVER 22,000 SY	/ PER SY
		DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
III.9	SODDING - BAHIA (Water & Fertilizer are separate bid items) SEE SPEC		

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION III - PAVEMENT BASE CONSTRUCTION

	ZONE 1	0 - 50 SY	/ PER SY
		51 - 500 SY	/ PER SY
		OVER 500 SY	/ PER SY
	ZONE 2	0 - 50 SY	/ PER SY
		51 - 500 SY	/ PER SY
		OVER 500 SY	/ PER SY
	ZONE 3	0 - 50 SY	/ PER SY
		51 - 500 SY	/ PER SY
		OVER 500 SY	/ PER SY
	ZONE 4A	0 - 50 SY	/ PER SY
		51 - 500 SY	/ PER SY
		OVER 500 SY	/ PER SY
	ZONE 4B	0 - 50 SY	/ PER SY
		51 - 500 SY	/ PER SY
		OVER 500 SY	/ PER SY
	ZONE 5	0 - 50 SY	/ PER SY
		51 - 500 SY	/ PER SY
		OVER 500 SY	/ PER SY
DELIVERY DAYS AFTER RECEIPT OF ORDER:			/ DAYS
III.10	SODDING - ST. AUGUSTINE (Water and Fertilizer are separate bid items) SEE SPEC		
	ZONE 1	0 - 50 SY	/ PER SY
		51 - 500 SY	/ PER SY
		OVER 500 SY	/ PER SY
	ZONE 2	0 - 50 SY	/ PER SY
		51 - 500 SY	/ PER SY
		OVER 500 SY	/ PER SY
	ZONE 3	0 - 50 SY	/ PER SY
		51 - 500 SY	/ PER SY

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION III - PAVEMENT BASE CONSTRUCTION

		OVER 500 SY	/ PER SY
	ZONE 4A	0 - 50 SY	/ PER SY
		51 - 500 SY	/ PER SY
		OVER 500 SY	/ PER SY
	ZONE 4B	0 - 50 SY	/ PER SY
		51 - 500 SY	/ PER SY
		OVER 500 SY	/ PER SY
	ZONE 5	0 - 50 SY	/ PER SY
		51 - 500 SY	/ PER SY
		OVER 500 SY	/ PER SY
	DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
III.11	SODDING - BERMUDA (Water & Fertilizer are separate bid items) SEE SPEC		
	ZONE 1	0 - 50 SY	/ PER SY
		51 - 500 SY	/ PER SY
		OVER 500 SY	/ PER SY
	ZONE 2	0 - 50 SY	/ PER SY
		51 - 500 SY	/ PER SY
		OVER 500 SY	/ PER SY
	ZONE 3	0 - 50 SY	/ PER SY
		51 - 500 SY	/ PER SY
		OVER 500 SY	/ PER SY
	ZONE 4A	0 - 50 SY	/ PER SY
		51 - 500 SY	/ PER SY
		OVER 500 SY	/ PER SY
	ZONE 4B	0 - 50 SY	/ PER SY
		51 - 500 SY	/ PER SY
		OVER 500 SY	/ PER SY
		0 - 50 SY	/ PER SY

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION III - PAVEMENT BASE CONSTRUCTION

	ZONE 5	51 - 500 SY	/ PER SY
		OVER 500 SY	/ PER SY
	DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
III.12	WATER FOR SEEDING, SODDING & TREES - SEE SPEC		
	ZONE 1	0 - 50 GAL	/ PER GAL
		51 - 250 GAL	/ PER GAL
		251 - 500 GAL	/ PER GAL
		500 - 1000 GAL	/ PER GAL
	ZONE 2	0 - 50 GAL	/ PER GAL
		51 - 250 GAL	/ PER GAL
		251 - 500 GAL	/ PER GAL
		500 - 1000 GAL	/ PER GAL
	ZONE 3	0 - 50 GAL	/ PER GAL
		51 - 250 GAL	/ PER GAL
		251 - 500 GAL	/ PER GAL
		500 - 1000 GAL	/ PER GAL
	ZONE 4A	0 - 50 GAL	/ PER GAL
		51 - 250 GAL	/ PER GAL
		251 - 500 GAL	/ PER GAL
		500 - 1000 GAL	/ PER GAL
	ZONE 4B	0 - 50 GAL	/ PER GAL
		51 - 250 GAL	/ PER GAL
		251 - 500 GAL	/ PER GAL
		500 - 1000 GAL	/ PER GAL
		0 - 50 GAL	/ PER GAL

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION III - PAVEMENT BASE CONSTRUCTION

	ZONE 5	51 - 250 GAL	/ PER GAL
		251 - 500 GAL	/ PER GAL
		500 - 1000 GAL	/ PER GAL
III.13	PAVEMENT REMOVAL - Excavate & remove existing pavement surface, base and subgrade as applicable SEE SPEC.		
	4" DEPTH	0 - 100 SY	/ PER SY
		101 - 250 SY	/ PER SY
		251 - 500 SY	/ PER SY
		OVER 500 SY	/ PER SY
	6" DEPTH	0 - 100 SY	/ PER SY
		101 - 250 SY	/ PER SY
		251 - 500 SY	/ PER SY
		OVER 500 SY	/ PER SY
	8" DEPTH	0 - 100 SY	/ PER SY
		101 - 250 SY	/ PER SY
		251 - 500 SY	/ PER SY
		OVER 500 SY	/ PER SY
	DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
III.14	CEMENT TREATED AGGREGATE BASE - Manatee County Spec 403.1		
	LOCATION OF VENDOR'S PLANT:		
	PRICE F.O.B. VENDOR'S PLANT:		/ PER TON
	PRICE VENDOR DELIVERED TO:		
	ZONE 1		/ PER TON
	ZONE 2		/ PER TON
	ZONE 3		/ PER TON

Bidder Name: _____

Authorized Signature: _____

BID FORM		
ROAD BUILDING MATERIALS AND SERVICES		
SECTION III - PAVEMENT BASE CONSTRUCTION		
	ZONE 4A	/ PER TON
	ZONE 4B	/ PER TON
	ZONE 5	/ PER TON
	DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
III.15	BASE RECONSTRUCTION - The existing surface & base shall be scarified and/or milled so as the maximum size material will pass a 2" screen. The material will then be mixed to produce a new monolithic base material; then spread across the full width of the road to a uniform depth 1' wider than the proposed Asphaltic Concrete Surface. The new base shall be compacted to 98% modified ASHTO T180. Density shall be determined using test strips & Density Control Nuclear Method.	
	MOBILIZATION (LUMP SUM)	/ EACH
	1,000 - 5,000 SY	/ PER SY
	OVER 5,000 SY	/ PER SY
	ADDITIVES	/ TON
	DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
III.16	EQUIPMENT RENTAL - DUMP TRUCK	
	23 YARD DUMP TRAILER WITH ROAD TRACTOR (with Operator)	/PER HOUR
	23 YARD DUMP TRAILER WITH ROAD TRACTOR (with Operator)	/PER WEEK
	DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
III.17	EROSION CONTROL PER F.D.O.T. SECTION 104	
	BAILED HAY OR STRAW	/ PER EACH
	FLOATING TURBIDITY BARRIERS	/ PER LF
	SAND BAGGING	/ PER CY
	STAKED SILT FENCE	/ PER LF
	FILTER SOCK (INLET PROTECTION)	/ PER LF
	DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION III - PAVEMENT BASE CONSTRUCTION

III.18 TOP SOIL FOR F.D.O.T. 162

MUCK BLANKET

0 - 200 SY

/ PER SY

201 - 2,000 SY

/ PER SY

OVER 2,000 SY

/ PER SY

TOP SOIL

0 - 200 SY

/ PER SY

201 - 2,000 SY

/ PER SY

OVER 2,000 SY

/ PER SY

DELIVERY DAYS AFTER RECEIPT OF ORDER:

/ DAYS

**III.19 REWORKING AND SHOULDER SODDING ON EXISTING FACILITIES
SEE SPEC**

REWORK SHOULDERS

/ PER SY

DELIVERY DAYS AFTER RECEIPT OF ORDER:

/ DAYS

III.20 CLIPPING OF SHOULDER AND CLEANUP FOR RESURFACING -SEE SPEC

0 - 200 LF

/ PER LF

201 - 2,000 LF

/ PER LF

OVER 2,000 LF

/ PER LF

DELIVERY DAYS AFTER RECEIPT OF ORDER:

/ DAYS

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION III - PAVEMENT BASE CONSTRUCTION

III.21 CLIPPING SHOULDER AND REMOVAL OF MATERIAL TO ESTABLISH DRAINAGE FINISHED SURFACE TO BE SODDED OR HYDRO - SEE SPEC

	0 - 2,000 LF	/ PER LF
	2,001 - 5000 LF	/ PER LF
	OVER 5,001 LF	/ PER LF
	TRUCK MEASURE REMOVAL OF MATERIAL	/ PER CY
	DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS

III.22 COLD MIX IN PLACE INJECTION OF EXISTING UNPAVED ROADS BASE STABILIZATION - SEE SPEC

	LOCATION OF VENDOR'S PLANT:	
	EMULSIFIED ASPHALT	/ GAL
	ADDITIONAL AGGREGATE	/ TON
	RAP LESS THAN 1.25"	/ TON
	ADDITIVES	/ TON
	0 - 5,000 SY	/ PER SY
	5,000 - 15,000 SY	/ PER SY
	15,000 - 30,000 SY	/ PER SY
	30,000 - 100,000 SY	/ PER SY
	DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS

III.23 COLD RECYCLED BITUMINOUS BASE COURSE -SEE SPEC

	0 - 30,000 SY	
	Base Course	/ SQ YD
	Emulsified Asphalt	/ GALLON
	6" Temporary Traffic Stripe (Paint) if needed	/ LF
	Additional Aggregates	/ TON

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION III - PAVEMENT BASE CONSTRUCTION

	Additional (R.A.P)	/ TON
	Additives	/ TON
30,001 - 100,000 SY		
	Base Course	/ SQ YD
	Emulsified Asphalt	/ GALLON
	6" Temporary Traffic Stripe (Paint) if needed	/ LF
	Additional Aggregates	/TON
	Additional (R.A.P)	/TON
	Additives	/TON
OVER 100,001 SY		
	Base Course	/ SQ YD
	Emulsified Asphalt	/ GALLON
	6" Temporary Traffic Stripe (Paint) if needed	/ LF
	Additional Aggregates	/TON
	Additional (R.A.P)	/TON
	Additives	/TON
III.24	SURVEYING - To be used with other Road Building Bid items when required - SEE SPEC	
	HOURLY RATE	
	0 - 10 HOURS	/ PER HOUR
	11 - 21 HOURS	/ PER HOUR
	21 - 40 HOURS	/ PER HOUR

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION III - PAVEMENT BASE CONSTRUCTION

40 + HOURS

/ PER HOUR

DELIVERY DAYS AFTER RECEIPT OF ORDER:

/ DAYS

III.25 TREE REMOVAL & DISPOSAL (To include removal and disposal of root system) SEE SPEC

ALL ZONES: 2" - 4"

/ EACH

5" - 8"

/ EACH

9" - 12"

/ EACH

13" - 24"

/ EACH

25" - 36"

/ EACH

OVER 36"

/ EACH

DELIVERY DAYS AFTER RECEIPT OF ORDER:

/ DAYS

III.26 6' CONCRETE CURB STOPS - SEE SPEC

/ EACH

III.26a CONCRETE CURB STOP REMOVAL AND REINSTALL

/ EACH

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION IV - BASE AND SURFACE CONSTRUCTION/MATERIAL

IV.1 FURNISH AND INSTALL NON AGGREGATE FLOWABLE FILL GROUT - CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES REQUIRED FDOT SPEC 121

LOCATION OF VENDOR'S PLANT:

PRICE F.O.B. VENDOR'S PLANT:

/ PER TON

PRICE VENDOR DELIVER TO JOB SITE:

ZONE 1
0 - 500 TONS

/ PER TON

OVER 500 TONS

/ PER TON

ZONE 2
0 - 500 TONS

/ PER TON

OVER 500 TONS

/ PER TON

ZONE 3
0 - 500 TONS

/ PER TON

OVER 500 TONS

/ PER TON

ZONE 4A
0 - 500 TONS

/ PER TON

OVER 500 TONS

/ PER TON

ZONE 4B
0 - 500 TONS

/ PER TON

OVER 500 TONS

/ PER TON

ZONE 5
0 - 500 TONS

/ PER TON

OVER 500 TONS

/ PER TON

DELIVERY DAYS AFTER RECEIPT OF ORDER:

/ DAYS

IV.2 SAND ASPHALT HOT MIX - 1200# STABILITY - SEE SPEC

LOCATION OF VENDOR'S PLANT:

PRICE F.O.B. VENDOR'S PLANT:

/ PER TON

PRICE VENDOR DELIVER TO JOB SITE:

ZONE 1
0 - 500 TONS

/ PER TON

OVER 500 TONS

/ PER TON

ZONE 2
0 - 500 TONS

/ PER TON

OVER 500 TONS

/ PER TON

ZONE 3
0 - 500 TONS

/ PER TON

OVER 500 TONS

/ PER TON

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION IV - BASE AND SURFACE CONSTRUCTION/MATERIAL

ZONE 4A	0 - 500 TONS	/ PER TON
	OVER 500 TONS	/ PER TON
ZONE 4B	0 - 500 TONS	/ PER TON
	OVER 500 TONS	/ PER TON
ZONE 5	0 - 500 TONS	/ PER TON
	OVER 500 TONS	/ PER TON

DELIVERY DAYS AFTER RECEIPT OF ORDER:

/ DAYS

IV.3 ASPHALTIC BASE COURSE III - SEE SPEC

LOCATION OF VENDOR'S PLANT:

PRICE F.O.B. VENDOR'S PLANT:

/ PER TON

PRICE VENDOR DELIVER TO JOB SITE:

ZONE 1	0 - 500 TONS	/ PER TON
	OVER 500 TONS	/ PER TON
ZONE 2	0 - 500 TONS	/ PER TON
	OVER 500 TONS	/ PER TON
ZONE 3	0 - 500 TONS	/ PER TON
	OVER 500 TONS	/ PER TON
ZONE 4A	0 - 500 TONS	/ PER TON
	OVER 500 TONS	/ PER TON
ZONE 4B	0 - 500 TONS	/ PER TON
	OVER 500 TONS	/ PER TON
ZONE 5	0 - 500 TONS	/ PER TON
	OVER 500 TONS	/ PER TON

DELIVERY DAYS AFTER RECEIPT OF ORDER:

/ DAYS

IV.4 FRICTION COURSE TYPE - FC 12.5 FDOT 337

LOCATION OF VENDOR'S PLANT:

PRICE F.O.B. VENDOR'S PLANT:

/ PER TON

PRICE VENDOR DELIVER TO JOB SITE:

ZONE 1	0 - 500 TONS	/ PER TON
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Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION IV - BASE AND SURFACE CONSTRUCTION/MATERIAL

ZONE 1	OVER 500 TONS	/ PER TON
ZONE 2	0 - 500 TONS	/ PER TON
	OVER 500 TONS	/ PER TON
ZONE 3	0 - 500 TONS	/ PER TON
	OVER 500 TONS	/ PER TON
ZONE 4A	0 - 500 TONS	/ PER TON
	OVER 500 TONS	/ PER TON
ZONE 4B	0 - 500 TONS	/ PER TON
	OVER 500 TONS	/ PER TON
ZONE 5	0 - 500 TONS	/ PER TON
	OVER 500 TONS	/ PER TON
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
IV.5 FRICTION COURSE TYPE - FC 9.5 FDOT 337		
LOCATION OF VENDOR'S PLANT:		
PRICE F.O.B. VENDOR'S PLANT:		/ PER TON
PRICE VENDOR DELIVER TO JOB SITE:		
ZONE 1	0 - 500 TONS	/ PER TON
	OVER 500 TONS	/ PER TON
ZONE 2	0 - 500 TONS	/ PER TON
	OVER 500 TONS	/ PER TON
ZONE 3	0 - 500 TONS	/ PER TON
	OVER 500 TONS	/ PER TON
ZONE 4A	0 - 500 TONS	/ PER TON
	OVER 500 TONS	/ PER TON
ZONE 4B	0 - 500 TONS	/ PER TON
	OVER 500 TONS	/ PER TON
ZONE 5	0 - 500 TONS	/ PER TON
	OVER 500 TONS	/ PER TON

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION IV - BASE AND SURFACE CONSTRUCTION/MATERIAL

DELIVERY DAYS AFTER RECEIPT OF ORDER:

/ DAYS

IV.6 EAM COLD MIX

LOCATION OF VENDOR'S PLANT:

PRICE F.O.B. VENDOR'S PLANT:

/ PER TON

DELIVERY DAYS AFTER RECEIPT OF ORDER:

/ DAYS

IV.7 ASPHALTIC CONCRETE TYPE S-1 - SEE SPEC

LOCATION OF VENDOR'S PLANT:

PRICE F.O.B. VENDOR'S PLANT:

/ PER TON

PRICE VENDOR DELIVER TO JOB SITE:

ZONE 1

0 - 500 TONS

/ PER TON

OVER 500 TONS

/ PER TON

ZONE 2

0 - 500 TONS

/ PER TON

OVER 500 TONS

/ PER TON

ZONE 3

0 - 500 TONS

/ PER TON

OVER 500 TONS

/ PER TON

ZONE 4A

0 - 500 TONS

/ PER TON

OVER 500 TONS

/ PER TON

ZONE 4B

0 - 500 TONS

/ PER TON

OVER 500 TONS

/ PER TON

ZONE 5

0 - 500 TONS

/ PER TON

OVER 500 TONS

/ PER TON

DELIVERY DAYS AFTER RECEIPT OF ORDER:

/ DAYS

IV.8 ASPHALTIC CONCRETE TYPE S-111 - SEE SPEC

LOCATION OF VENDOR'S PLANT:

PRICE F.O.B. VENDOR'S PLANT:

/ PER TON

PRICE VENDOR DELIVER TO JOB SITE:

ZONE 1

0 - 500 TONS

/ PER TON

OVER 500 TONS

/ PER TON

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION IV - BASE AND SURFACE CONSTRUCTION/MATERIAL

ZONE 2	0 - 500 TONS	/ PER TON
	OVER 500 TONS	/ PER TON
ZONE 3	0 - 500 TONS	/ PER TON
	OVER 500 TONS	/ PER TON
ZONE 4A	0 - 500 TONS	/ PER TON
	OVER 500 TONS	/ PER TON
ZONE 4B	0 - 500 TONS	/ PER TON
	OVER 500 TONS	/ PER TON
ZONE 5	0 - 500 TONS	/ PER TON
	OVER 500 TONS	/ PER TON

DELIVERY DAYS AFTER RECEIPT OF ORDER:

/ DAYS

IV.9 SUPER PAVE MIX 9.5 FDOT 334

LOCATION OF VENDOR'S PLANT:

PRICE F.O.B. VENDOR'S PLANT:

/ PER TON

PRICE VENDOR DELIVER TO JOB SITE:

ZONE 1	0 - 500 TONS	/ PER TON
	OVER 500 TONS	/ PER TON
ZONE 2	0 - 500 TONS	/ PER TON
	OVER 500 TONS	/ PER TON
ZONE 3	0 - 500 TONS	/ PER TON
	OVER 500 TONS	/ PER TON
ZONE 4A	0 - 500 TONS	/ PER TON
	OVER 500 TONS	/ PER TON
ZONE 4B	0 - 500 TONS	/ PER TON
	OVER 500 TONS	/ PER TON
ZONE 5	0 - 500 TONS	/ PER TON
	OVER 500 TONS	/ PER TON

DELIVERY DAYS AFTER RECEIPT OF ORDER:

/ DAYS

IV.10 SUPER PAVE MIX 12.5 FDOT 334

LOCATION OF VENDOR'S PLANT:

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION IV - BASE AND SURFACE CONSTRUCTION/MATERIAL

PRICE F.O.B. VENDOR'S PLANT:		/ PER TON
PRICE VENDOR DELIVER TO JOB SITE:		
ZONE 1	0 - 500 TONS	/ PER TON
	OVER 500 TONS	/ PER TON
ZONE 2	0 - 500 TONS	/ PER TON
	OVER 500 TONS	/ PER TON
ZONE 3	0 - 500 TONS	/ PER TON
	OVER 500 TONS	/ PER TON
ZONE 4A	0 - 500 TONS	/ PER TON
	OVER 500 TONS	/ PER TON
ZONE 4B	0 - 500 TONS	/ PER TON
	OVER 500 TONS	/ PER TON
ZONE 5	0 - 500 TONS	/ PER TON
	OVER 500 TONS	/ PER TON
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
IV.11	SWEEP, TACK, SPREAD & COMPACT SUPER PAVE MIXES <#100 - SEE SPEC	
0 - 50 TONS		/ PER TON
50 - 200 TONS		/ PER TON
201 - 500 TONS		/ PER TON
OVER 500 TONS		/ PER TON
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
IV.12	SWEEP, TACK, SPREAD & COMPACT SUPER PAVE MIXES >#100 - SEE SPEC	
0 - 50 TONS		/ PER TON
50 - 200 TONS		/ PER TON
201 - 500 TONS		/ PER TON
OVER 500 TONS		/ PER TON
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
IV.13	SWEEP, TACK, SPREAD AND COMPACT 100# / SY OR MORE - SEE SPEC	

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION IV - BASE AND SURFACE CONSTRUCTION/MATERIAL	
20 - 60 TONS	/ PER TON
61 - 100 TONS	/ PER TON
101 - 500 TONS	/ PER TON
OVER 500 TONS	/ PER TON
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
IV.14 SWEEP, TACK, SPREAD AND COMPACT 50#/SY TO 99#/SY - SEE SPEC	
0 - 50 TONS	/ PER TON
50 - 200 TONS	/ PER TON
201 - 500 TONS	/ PER TON
OVER 500 TONS	/ PER TON
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
IV.15 SWEEP, TACK, SPREAD AND COMPACT ROAD WIDENING -SEE SPEC	
0 - 50 TONS	/ PER TON
50 - 200 TONS	/ PER TON
201 - 500 TONS	/ PER TON
OVER 500 TONS	/ PER TON
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
IV.16 SWEEP, TACK, SPREAD AND COMPACT BASE REPAIR- SEE SPEC	
0 - 50 TONS	/ PER TON
51 - 100 TONS	/ PER TON
101- 200 TONS	/ PER TON
201 - 500 TONS	/ PER TON
OVER 500 TONS	/ PER TON
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
IV.17 SWEEP, TACK, SPREAD AND COMPACT PARKING LOTS -SEE SPEC	
0 - 50 TONS	/ PER TON
50 - 200 TONS	/ PER TON
201 - 500 TONS	/ PER TON

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION IV - BASE AND SURFACE CONSTRUCTION/MATERIAL		
OVER 500 TONS		/ PER TON
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
IV.18 CUT, SQUARE, SWEEP, TACK, SPREAD AND COMPACT PATCHING - SEE SPEC		
1 - 5 TONS		/ PER TON
6 - 10 TONS		/ PER TON
11 - 15 TONS		/ PER TON
16 - 20 TONS		/ PER TON
21 - 25 TONS		/ PER TON
26 - 30 TONS		/ PER TON
OVER 30 TONS		/ PER TON
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
IV.19 REWORK EXISTING ASPHALTIC CONCRETE PAVEMENT - SEE SPEC		
ALL LABOR, EQUIPMENT AND MATERIAL TO INDIRECT HEAT EXISTING ASPHALT PAVEMENT, SCARIFYING AND REJUVENATING AGENTS, RESHAPE AND COMPACT EXISTING ASPHALTIC CONCRETE: - SEE SPEC		
0 - 1,000 SY		/ PER SY
1,001 - 5,000 SY		/ PER SY
OVER 5,000 SY		/ PER SY
PER TON PRICE FOR TYPE III ASPHALTIC CONCRETE ADDED:		/ PER TON
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
IV.20 BITUMINOUS DOUBLE SURFACE TREATMENT Specification: - SEE SPEC		
LOCATION OF VENDOR'S PLANT:		
PRICE VENDOR DELIVER TO JOB SITE:		
ZONE 1	0 - 7,000 SY	/ PER SY
	7,001 - 21,000 SY	/ PER SY
	21,001 - 42,000 SY	/ PER SY
	OVER 42,000 SY	/ PER SY

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION IV - BASE AND SURFACE CONSTRUCTION/MATERIAL

ZONE 2	0 - 7,000 SY	/ PER SY
	7,001 - 21,000 SY	/ PER SY
	21,001 - 42,000 SY	/ PER SY
	OVER 42,000 SY	/ PER SY
ZONE 3	0 - 7,000 SY	/ PER SY
	7,001 - 21,000 SY	/ PER SY
	21,001 - 42,000 SY	/ PER SY
	OVER 42,000 SY	/ PER SY
ZONE 4A	0 - 7,000 SY	/ PER SY
	7,001 - 21,000 SY	/ PER SY
	21,001 - 42,000 SY	/ PER SY
	OVER 42,000 SY	/ PER SY
ZONE 4B	0 - 7,000 SY	/ PER SY
	7,001 - 21,000 SY	/ PER SY
	21,001 - 42,000 SY	/ PER SY
	OVER 42,000 SY	/ PER SY
ZONE 5	0 - 7,000 SY	/ PER SY
	7,001 - 21,000 SY	/ PER SY
	21,001 - 42,000 SY	/ PER SY
	OVER 42,000 SY	/ PER SY
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
THIN LIFT ASPHALT MIX - Application of SP 4.75 for Surfacing and rut IV.21 filling only. All prices to include Materials, Labor, Equipment, Traffic Control and Mobilization - SEE SPEC		
LOCATION OF VENDOR'S PLANT:		

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION IV - BASE AND SURFACE CONSTRUCTION/MATERIAL	
PRICE VENDOR DELIVER TO JOB SITE:	
0 - 40,000 SY	/ PER SY
40,001 - 100,000 SY	/ PER SY
OVER 100,000 SY	/ PER SY
SCARIFY AND SWEEP THERMO PLASTIC AS REQUIRED	/ PER LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
IV.22 MICRO-SURFACING - Application for Surfacing only (Type A). All prices to include Materials, Labor, Equipment, Traffic Control and Mobilization - SEE SPEC	
LOCATION OF VENDOR'S PLANT:	
PRICE VENDOR DELIVER TO JOB SITE:	
0 - 40,000 SY	/ PER SY
40,001 - 100,000 SY	/ PER SY
OVER 100,000 SY	/ PER SY
SCARIFY AND SWEEP THERMO PLASTIC AS REQUIRED	/ PER LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
IV.23 MICRO-SURFACING - Application for Surfacing only (Type A). (No Crack Filling) All prices to include Materials, Labor, Equipment, Traffic Control and Mobilization - SEE SPEC	
LOCATION OF VENDOR'S PLANT:	
PRICE VENDOR DELIVER TO JOB SITE:	
0 - 40,000 SY	/ PER SY
40,001 - 100,000 SY	/ PER SY
OVER 100,000 SY	/ PER SY
SCARIFY AND SWEEP THERMO PLASTIC AS REQUIRED	/ PER LF

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION IV - BASE AND SURFACE CONSTRUCTION/MATERIAL		
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
IV.24 MICRO-SURFACING - Application for Leveling and Surfacing (See Specs). All prices to include Materials, Labor, Equipment, Traffic Control and Mobilization - SEE SPEC		
LOCATION OF VENDOR'S PLANT:		
PRICE VENDOR DELIVER TO JOB SITE:		
0 - 40,000 SY		
40,001 - 100,000 SY		/ PER SY
OVER 100,000 SY		/ PER SY
SCARIFY AND SWEEP THERMO PLASTIC AS REQUIRED		/ PER LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
IV.25 MICRO-SURFACING - Application for Leveling and Surfacing (See Specs). (No Crack Filling) All prices to include Materials, Labor, Equipment, Traffic Control and Mobilization - SEE SPEC		
LOCATION OF VENDOR'S PLANT:		
PRICE VENDOR DELIVER TO JOB SITE:		
0 - 40,000 SY		
40,001 - 100,000 SY		/ PER SY
OVER 100,000 SY		/ PER SY
SCARIFY AND SWEEP THERMO PLASTIC AS REQUIRED		/ PER LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
IV.26 CONSTRUCTION SEALING OF ASPHALTIC CONCRETE SURFACE COURSES WITH AN ASPHALT REJUVENATING AGENT - SEE SPEC		
LOCATION OF VENDOR'S PLANT:		

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION IV - BASE AND SURFACE CONSTRUCTION/MATERIAL	
PRICE VENDOR DELIVER TO JOB SITE:	
50,000 - 300,000 SY	/ PER SY
OVER 300,000 SY	/ PER SY
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
IV.27 RESTORATIVE SEALING OF ASPHALT PAVEMENT WITH ASPHALT REJUVENATIVE AGENT RESTRICTIVE SEAL - SEE SPEC	
LOCATION OF VENDOR'S PLANT:	
PRICE VENDOR DELIVER TO JOB SITE:	
50,000 - 300,000 SY	/ PER SY
OVER 300,000 SY	/ PER SY
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
IV.28 ASPHALT REJUVENATING AGENT - For Construction Seal - SEE SPEC	
PRICE VENDOR DELIVER TO MANATEE COUNTY YARD	/ PER GAL
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
IV.29 ASPHALT REJUVENATING EMULSION - For Construction Seal - SEE SPEC	
PRICE VENDOR DELIVER TO MANATEE COUNTY YARD	/ PER GAL
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
IV.30 PAVEMENT MILLING - SEE SPEC	
AVERAGE CUT 1" TO 2"	
0 - 1,000 SY	/ PER SY
1001 - 2,000 SY	/ PER SY
2,001 - 5,000 SY	/ PER SY
5,001 - 10,000 SY	/ PER SY

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION IV - BASE AND SURFACE CONSTRUCTION/MATERIAL	
OVER 10,000 SY	/ PER SY
AVERAGE CUT OVER 2"	
0 - 1,000 SY	/ PER SY
1001 - 2,000 SY	/ PER SY
2,001 - 5,000 SY	/ PER SY
5,001 - 10,000 SY	/ PER SY
OVER 10,000 SY	/ PER SY
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
IV.31 RECLAIMED ASPHALT - CREDIT - SEE SPEC	
0 - 500 TONS	/ PER TON
501 - 1,000 TONS	/ PER TON
OVER 1,000 TONS	/ PER TON
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
IV.32 RECLAIMED NON-ASPHALTIC BASE MATERIAL - CREDIT - SEE SPEC	
0 - 500 TONS	/ PER TON
501 - 1,000 TONS	/ PER TON
OVER 1,000 TONS	/ PER TON
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
IV.33 PAINTED TRAFFIC LINES & MARKINGS - Specification: FDOT Sections 710, 971-12, Index #17346	
6" SKIP TRAFFIC STRIPE (2500 LF Project Min)	/GROSS MILE
6" SOLID TRAFFIC STRIPE (2500 LF Project Min)	/NET MILE
6" SOLID TRAFFIC STRIPE	/LINEAR FOOT
8" SOLID TRAFFIC STRIPE (2500 LF Project Min)	/NET MILE

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION IV - BASE AND SURFACE CONSTRUCTION/MATERIAL

8" SOLID TRAFFIC STRIPE

/LINEAR FOOT

STOP BARS - 24" WIDTH

/LINEAR FOOT

CROSSWALK - 12" WIDTH

/LINEAR FOOT

18" SOLID WHITE TRAFFIC STRIPE

/LINEAR FOOT

DELIVERY DAYS AFTER RECEIPT OF ORDER:

/ DAYS

IV.34 PAINTED TRAFFIC PAVEMENT MARKERS - Specification: FDOT 710, 971-12, Index #17346

(A)

LEGEND:

(All White)

LEFT - 19 SQUARE FEET

/ EACH

RIGHT - 27 SQUARE FEET

/ EACH

STOP - 22 SQUARE FEET

/ EACH

ONLY - 22 SQUARE FEET

/ EACH

MERGE - 36 SQUARE FEET

/ EACH

SCHOOL - 33 SQUARE FEET

/ EACH

BUS - 21 SQUARE FEET

/ EACH

TURN - 25 SQUARE FEET

/ EACH

RXR - 28 SQUARE FEET

/ EACH

BIKE - 12 SQUARE FEET

/ EACH

(B)

ARROWS:

(All White)

STRAIGHT - 12 SQUARE FEET

/ EACH

LEFT - 16 SQUARE FEET

/ EACH

RIGHT - 16 SQUARE FEET

/ EACH

COMBINATION - 27 SQUARE FEET

/ EACH

(C)

SYMBOLS:

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION IV - BASE AND SURFACE CONSTRUCTION/MATERIAL

(All White)	BICYCLIST - 3.9 SQUARE FEET	/ EACH
	DIAMOND - 6.5 SQUARE FEET	/ EACH
	HANDICAPPED - 5.0 SQUARE FEET	/ EACH
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS

IV.35 THERMOPLASTIC TRAFFIC STRIPES AND MARKINGS - Specs: FDOT Section 711, Index #17346

6" SKIP TRAFFIC STRIPE - THERMOPLASTIC (2500 LF Project Min)		/ PER GROSS MILE
6" SKIP TRAFFIC STRIPE - THERMOPLASTIC		/PER LINEAR FOOT
6" SOLID STRIPE - THERMOPLASTIC		/PER LINEAR FOOT
8" SOLID STRIPE - THERMOPLASTIC		/PER LINEAR FOOT
18" SOLID TRAFFIC STRIPE		/PER LINEAR FOOT
12" CROSSWALK - THERMOPLASTIC		/PER LINEAR FOOT
24" SOLID STOP BAR - THERMOPLASTIC		/PER LINEAR FOOT
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS

IV.36 THERMOPLASTIC TRAFFIC PAVEMENT MARKINGS - Specs: FDOT Section 711, 971-12, Index #17346

(A)	LEGEND:	
(All White)	LEFT - 19 SQUARE FEET	/ EACH
	RIGHT - 27 SQUARE FEET	/ EACH
	STOP - 22 SQUARE FEET	/ EACH
	ONLY - 22 SQUARE FEET	/ EACH
	MERGE - 36 SQUARE FEET	/ EACH
	SCHOOL - 33 SQUARE FEET	/ EACH
	BUS - 21 SQUARE FEET	/ EACH

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION IV - BASE AND SURFACE CONSTRUCTION/MATERIAL		
	TURN - 25 SQUARE FEET	/ EACH
	RXR - 28 SQUARE FEET	/ EACH
	BIKE - 12 SQUARE FEET	/ EACH
(B)	ARROWS:	
(All White)	STRAIGHT - 12 SQUARE FEET	/ EACH
	LEFT - 16 SQUARE FEET	/ EACH
	RIGHT - 16 SQUARE FEET	/ EACH
	COMBINATION - 27 SQUARE FEET	/ EACH
(C)	SYMBOLS:	
(All White)	BICYCLIST - 3.9 SQUARE FEET	/ EACH
	DIAMOND - 6.5 SQUARE FEET	/ EACH
	HANDICAPPED - 5.0 SQUARE FEET	/ EACH
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
IV.37 REFLECTIVE PAVEMENT MARKERS TYPES 1 TO 5 (per FDOT Section 706-1)		
CLASS "A" MARKERS - FDOT SEC. 706-2.3.2: FURNISHED & INSTALLED		/ EACH
CLASS "B" MARKERS - FDOT SEC. 706-2.3.2 / 706-2.3.3(A): FURNISHED & INSTALLED		/ EACH
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
IV.38 REMOVAL OF EXISTING THERMOPLASTIC MARKING		
EQUIPMENT, MATERIAL AND LABOR NECESSARY TO REMOVE, PICK UP AND DISPOSE OF THERMOPLASTIC MARKING		
0 - 1000 LF		/ LF
1001 - 5000 LF		/ LF

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION IV - BASE AND SURFACE CONSTRUCTION/MATERIAL		
5001 - 10,000 LF		/ LF
OVER 10,001 LF		/ LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
IV.39 MANHOLE ADJUSTMENT ADJUSTMENT RINGS - SEE SPEC		
1 - 5 UNITS		/ PER UNIT
6 - 10 UNITS		/ PER UNIT
OVER 10 UNITS		/ PER UNIT
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
IV.40 FDOT MANHOLE ADJUSTMENT SEE SPEC		
1 - 5 UNITS		/ PER UNIT
6 - 10 UNITS		/ PER UNIT
OVER 10 UNITS		/ PER UNIT
MOBILIZATION		/ EA
MAINTENANCE OF TRAFFIC FDOT STANDARDS 1 LANE		/ PER DAY
MAINTENANCE OF TRAFFIC FDOT STANDARDS 2 LANE		/ PER DAY
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
IV.41 FDOT MANHOLE FURNISH AND INSTALL FRAME AND COVER MAX DEPTH 1' 6" SEE SPEC		
1 - 5 UNITS		/ PER UNIT
6 - 10 UNITS		/ PER UNIT
OVER 10 UNITS		/ PER UNIT
MOBILIZATION		/ EA
MAINTENANCE OF TRAFFIC FDOT STANDARDS 1 LANE		/ PER DAY

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION IV - BASE AND SURFACE CONSTRUCTION/MATERIAL		
MAINTENANCE OF TRAFFIC FDOT STANDARDS 2 LANE		/ PER DAY
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
IV.42 FDOT VALVE BOX ADJUSTMENT - SEE SPEC		
1 - 5 UNITS		/ PER UNIT
6 - 10 UNITS		/ PER UNIT
OVER 10 UNITS		/ PER UNIT
MOBILIZATION		/ EA
MAINTENANCE OF TRAFFIC FDOT STANDARDS 1 LANE		/ PER DAY
MAINTENANCE OF TRAFFIC FDOT STANDARDS 2 LANE		/ PER DAY
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
IV.43 WATER VALVE ADJUSTMENT - SEE SPEC		
1 - 5 UNITS		/ PER UNIT
6 - 10 UNITS		/ PER UNIT
OVER 10 UNITS		/ PER UNIT
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
IV.44 MOBILIZATION (Cost per Release Order) - Preparatory work and operations in mobilizing startup of project, including, but not limited to,		
ZONE 1		/ LUMP SUM
ZONE 2		/LUMP SUM
ZONE 3		/LUMP SUM
ZONE 4A		/LUMP SUM
ZONE 4B		/LUMP SUM
ZONE 5		/LUMP SUM
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
IV.45 INDUCTIVE LOOP DETECTORS - FDOT Section 660		
TYPE "A"		/ EACH

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION IV - BASE AND SURFACE CONSTRUCTION/MATERIAL	
TYPE "F" 6' x 20'	/ EACH
TYPE "F" 6' x 40'	/ EACH
LEAD RUNS	/LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
IV.46 MAINTENANCE OF TRAFFIC - SEE SPEC	
Crew Complete (includes truck, foreman, two flaggers)	/ DAY
Flag Personnel (includes two flaggers only)	/ DAY
Additional Flag Personnel (one flagger only)	/ HOUR
Temporary Signal Detection	/ DAY
Law Enforcement Personnel	/ HOUR
IV.47 FULL DEPTH PAVEMENT RECLAMATION - SEE SPEC	
0 - 30,000 SY	
Preparation, Pulverizing, Shaping, Compaction and Filling	/ SQ YD
Additives, (Cement)	/ TON
Imported Material	/ CY
Removal of Unsuitable Material	/ CY
30,001 - 100,000 SY	
Preparation, Pulverizing, Shaping, Compaction and Filling	/ SQ YD
Additives, (Cement)	/ TON
Imported Material	/ CY
Removal of Unsuitable Material	/ CY
OVER 100,001 SY	
Preparation, Pulverizing, Shaping, Compaction and Filling	/ SQ YD
Additives, (Cement)	/ TON
Imported Material	/ CY
Removal of Unsuitable Material	/ CY
IV.48 SAND SEAL COATING - Application prices to include Materials, Labor, Equipment, Traffic Control, Re-Painting and Mobilization -SEE SPEC	
LOCATION OF VENDOR'S PLANT:	

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION IV - BASE AND SURFACE CONSTRUCTION/MATERIAL	
PRICE VENDOR DELIVER TO JOB SITE:	
0 - 40,000 SY	/ PER SY
40,001 - 100,000 SY	/ PER SY
OVER 100,000 SY	/ PER SY
SCARIFY AND SWEEP THERMO PLASTIC AS REQUIRED	/ PER LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
IV.49 CRACK FILLING/SEALING FDOT DEV 305	
0-99 GALLONS	/ PER GAL
100-250 GALLONS	/ PER GAL
over 251 GALLONS	/ PER GAL
IV.50 FOG SEAL - Application prices to include Materials, Labor, Equipment, Traffic Control, and Mobilization - SEE SPEC	
TIGHT SURFACES 09. -.14 GAL/SY	/ GAL
OPEN SURFACES .18 - .22 GAL/SY	/ GAL
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION V - STORMWATER, WASTEWATER & WATER UTILITIES		
V.1 REMOVE STORM DRAIN - 12" TO 18" DIAMETER		
0 - 100 LF		/ PER LF
101 - 250 LF		/ PER LF
251 - 500 LF		/ PER LF
OVER 500 LF		/ PER LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
V.2 REMOVE STORM DRAIN - 24" TO 48" DIAMETER		
0 - 100 LF		/ PER LF
101 - 250 LF		/ PER LF
251 - 500 LF		/ PER LF
OVER 500 LF		/ PER LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
V.3 REMOVE STORM DRAIN - OVER 48" DIAMETER		
0 - 100 LF		/ PER LF
101 - 250 LF		/ PER LF
251 - 500 LF		/ PER LF
OVER 500 LF		/ PER LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
V.4 REMOVE MITERED END		/ EACH
V.5 REMOVE HEADWALL		/ EACH
V.6 FURNISH & INSTALL H.D.P.E. PIPE 10"		
WELLPOINTS (LUMP SUM)		/ PER DAY
		/ PER WEEK
TO 4' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION V - STORMWATER, WASTEWATER & WATER UTILITIES	
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	OVER 500 LF	/ PER LF
4' - 6' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
6' - 8' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
8' - 10' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF

DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
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V.7 FURNISH & INSTALL H.D.P.E. PIPE 12"	
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WELLPOINTS (LUMP SUM)	/ PER DAY
	/ PER WEEK

TO 4' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
4' - 6' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
6' - 8' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION V - STORMWATER, WASTEWATER & WATER UTILITIES		
	OVER 500 LF	/ PER LF
8' - 10' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
	DELIVERY DAYS AFTER RECEIPT OF ORDER:	
V.8 FURNISH & INSTALL H.D.P.E. PIPE 15"		
WELLPOINTS (LUMP SUM)		/ PER DAY
		/ PER WEEK
TO 4' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
4' - 6' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
6' - 8' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
8' - 10' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
V.9 FURNISH & INSTALL H.D.P.E. PIPE 18"		

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION V - STORMWATER, WASTEWATER & WATER UTILITIES		
WELLPOINTS (LUMP SUM)		/ PER DAY
		/ PER WEEK
TO 4' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
4' - 6' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
6' - 8' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
8' - 10' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
V.10 FURNISH & INSTALL H.D.P.E. PIPE 24"		
WELLPOINTS (LUMP SUM)		/ PER DAY
		/ PER WEEK
TO 4' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
4' - 6' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION V - STORMWATER, WASTEWATER & WATER UTILITIES	
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4' - 6' DEPTH	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
6' - 8' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
8' - 10' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS

V.11 FURNISH & INSTALL H.D.P.E. PIPE 30"	
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WELLPOINTS (LUMP SUM)		/ PER DAY
		/ PER WEEK
TO 4' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
4' - 6' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
6' - 8' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
8' - 10' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION V - STORMWATER, WASTEWATER & WATER UTILITIES		
0 - 10' DEPTH	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
V.12 FURNISH & INSTALL H.D.P.E. PIPE 36"		
WELLPOINTS (LUMP SUM)		/ PER DAY
		/ PER WEEK
TO 4' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
4' - 6' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
6' - 8' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
8' - 10' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
V.13 FURNISH & INSTALL H.D.P.E. PIPE 42"		
WELLPOINTS (LUMP SUM)		/ PER DAY
		/ PER WEEK
	0 - 100 LF	/ PER LF

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION V - STORMWATER, WASTEWATER & WATER UTILITIES		
TO 4' DEPTH	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
4' - 6' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
6' - 8' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
8' - 10' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
V.14 FURNISH & INSTALL H.D.P.E. PIPE 48"		
WELLPOINTS (LUMP SUM)		/ PER DAY
		/ PER WEEK
TO 4' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
4' - 6' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
	0 - 100 LF	/ PER LF

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION V - STORMWATER, WASTEWATER & WATER UTILITIES		
6' - 8' DEPTH	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
8' - 10' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
V.15 FURNISH & INSTALL H.D.P.E. PIPE 54"		
WELLPOINTS (LUMP SUM)		/ PER DAY
		/ PER WEEK
TO 4' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
4' - 6' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
6' - 8' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
8' - 10' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION V - STORMWATER, WASTEWATER & WATER UTILITIES		
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
V.16 FURNISH & INSTALL H.D.P.E. PIPE 60"		
WELLPOINTS (LUMP SUM)		/ PER DAY
		/ PER WEEK
TO 4' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
4' - 6' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
6' - 8' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
8' - 10' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
V.17 FURNISH & INSTALL CONCRETE STORM DRAIN - 15" DIAMETER		
WELLPOINTS (LUMP SUM)		/ PER DAY
		/ PER WEEK
TO 4' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION V - STORMWATER, WASTEWATER & WATER UTILITIES		
	OVER 500 LF	/ PER LF
4' - 6' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
6' - 8' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
8' - 10' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
V.18 FURNISH & INSTALL CONCRETE STORM DRAIN - 18" DIAMETER		
WELLPOINTS (LUMP SUM)		/ PER DAY
		/ PER WEEK
TO 4' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
4' - 6' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
6' - 8' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION V - STORMWATER, WASTEWATER & WATER UTILITIES		
	OVER 500 LF	/ PER LF
8' - 10' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
	DELIVERY DAYS AFTER RECEIPT OF ORDER:	
V.19 FURNISH & INSTALL CONCRETE STORM DRAIN - 24" DIAMETER		
WELLPOINTS (LUMP SUM)		/ PER DAY
		/ PER WEEK
TO 4' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
4' - 6' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
6' - 8' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
8' - 10' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
V.20 FURNISH & INSTALL CONCRETE STORM DRAIN - 30" DIAMETER		
WELLPOINTS (LUMP SUM)		/ PER DAY

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION V - STORMWATER, WASTEWATER & WATER UTILITIES		
		/ PER WEEK
TO 4' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
4' - 6' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
6' - 8' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
8' - 10' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
V.21 FURNISH & INSTALL CONCRETE STORM DRAIN - 36" DIAMETER EQUIVALENT		
WELLPOINTS (LUMP SUM)		/ PER DAY
		/ PER WEEK
TO 4' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
4' - 6' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION V - STORMWATER, WASTEWATER & WATER UTILITIES		
	OVER 500 LF	/ PER LF
6' - 8' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
8' - 10' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
V.22 FURNISH & INSTALL CONCRETE STORM DRAIN - 42" DIAMETER OR EQUIVALENT		
WELLPOINTS (LUMP SUM)		/ PER DAY
		/ PER WEEK
TO 4' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
4' - 6' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
6' - 8' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
8' - 10' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF

Bidder Name: _____

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BID FORM

ROAD BUILDING MATERIALS AND SERVICES

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SECTION V - STORMWATER, WASTEWATER & WATER UTILITIES	
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	OVER 500 LF	/ PER LF
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DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
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V.23 FURNISH & INSTALL CONCRETE STORM DRAIN - 48" DIAMETER OR EQUIVALENT

WELLPOINTS (LUMP SUM)	/ PER DAY
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	/ PER WEEK
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TO 4' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF

4' - 6' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF

6' - 8' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF

8' - 10' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF

DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
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V.24 FURNISH & INSTALL CONCRETE STORM DRAIN - 54" DIAMETER OR EQUIVALENT

WELLPOINTS (LUMP SUM)	/ PER DAY
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	/ PER WEEK
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TO 4' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF

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ROAD BUILDING MATERIALS AND SERVICES

SECTION V - STORMWATER, WASTEWATER & WATER UTILITIES	
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	OVER 500 LF	/ PER LF
4' - 6' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
6' - 8' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
8' - 10' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS

V.25 FURNISH & INSTALL CONCRETE STORM DRAIN - 60" DIAMETER OR EQUIVALENT

	WELLPOINTS (LUMP SUM)	/ PER DAY
		/ PER WEEK
6' - 8' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
8' - 10' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS

V.26 FURNISH & INSTALL CONCRETE STORM DRAIN - 66" DIAMETER OR EQUIVALENT

	WELLPOINTS (LUMP SUM)	/ PER DAY
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Bidder Name: _____

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BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION V - STORMWATER, WASTEWATER & WATER UTILITIES		
		/ PER WEEK
6' - 8' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
8' - 10' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
V.27 FURNISH & INSTALL CONCRETE STORM DRAIN - 72" DIAMETER OR EQUIVALENT		
WELLPOINTS (LUMP SUM)		/ PER DAY
		/ PER WEEK
6' - 8' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
8' - 10' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
V.28 FURNISH & INSTALL CONCRETE STORM DRAIN 15" MITERED END		/ PER EACH

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ROAD BUILDING MATERIALS AND SERVICES

SECTION V - STORMWATER, WASTEWATER & WATER UTILITIES	
V.29 FURNISH & INSTALL CONCRETE STORM DRAIN 18" MITERED END	/ PER EACH
V.30 FURNISH & INSTALL CONCRETE STORM DRAIN 24" MITERED END	/ PER EACH
V.31 FURNISH & INSTALL CONCRETE STORM DRAIN 30" MITERED END	/ PER EACH
GRATING FOR MITERED END SECTION	/ PER EACH
V.32 FURNISH & INSTALL CONCRETE STORM DRAIN 36" OR EQUIV MITERED END	/ PER EACH
GRATING FOR MITERED END SECTION	/ PER EACH
V.33 FURNISH & INSTALL CONCRETE STORM DRAIN 42" OR EQUIV MITERED END	/ PER EACH
GRATING FOR MITERED END SECTION	/ PER EACH
V.34 FURNISH & INSTALL CONCRETE STORM DRAIN 48" OR EQUIV MITERED END	/ PER EACH
GRATING FOR MITERED END SECTION	/ PER EACH
V.35 FURNISH & INSTALL CONCRETE STORM DRAIN 54" OR EQUIV MITERED END	/ PER EACH
GRATING FOR MITERED END SECTION	/ PER EACH
V.36 FURNISH & INSTALL CONCRETE STORM DRAIN 60" OR EQUIV MITERED END	/ PER EACH
GRATING FOR MITERED END SECTION	/ PER EACH
V.37 FURNISH & INSTALL CONCRETE STORM DRAIN 66" OR EQUIV MITERED END	/ PER EACH
GRATING FOR MITERED END SECTION	/ PER EACH
V.38 ALTERNATE MANHOLE ADJUSTMENT - Specification: Adjust manhole lid. Backfill with Type III Asphaltic Concrete. Heat, scarify and rework existing Asphaltic Concrete bordering cut and blend with new material. Composite mix to be shaped and compacted.	
1 - 5 UNITS	/ PER UNIT
6 - 10 UNITS	/ PER UNIT
OVER 10 UNITS	/ PER UNIT
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS

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ROAD BUILDING MATERIALS AND SERVICES

SECTION V - STORMWATER, WASTEWATER & WATER UTILITIES	
V.39 MANHOLE AND WATER VALVE ADJUSTMENT AS A PART OF BASE RECONSTRUCTION	
MANHOLE ADJUSTMENT	/ EACH
WATER VALVE ADJUSTMENT	/ EACH
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
V.40 CONSTRUCT CONCRETE BLOCK CATCH BASIN 4'0"x5'4" - Specification: Manatee County 202.1	
TO 4' HEIGHT	/ EACH
4.1' TO 6' HEIGHT	/ EACH
6'1' TO 8' HEIGHT	/ EACH
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
V.41 CONSTRUCT CONCRETE BLOCK CATCH BASIN 5'4"x5'4" - Specification: Manatee County 202.1	
TO 4' HEIGHT	/ EACH
4.1' TO 6' HEIGHT	/ EACH
6'1' TO 8' HEIGHT	/ EACH
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
V.42 CONSTRUCT CONCRETE BLOCK CATCH BASIN 6'4"x5'4" - Specification: Manatee County 202.1	
TO 4' HEIGHT	/ EACH
4.1' TO 6' HEIGHT	/ EACH
6'1' TO 8' HEIGHT	/ EACH
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
V.43 CONSTRUCT P-5 CURB INLET - Spec: FDOT Section 425	

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ROAD BUILDING MATERIALS AND SERVICES

SECTION V - STORMWATER, WASTEWATER & WATER UTILITIES	
CONSTRUCT P-5 CURB INLET	/ EACH
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
V.44 CONSTRUCT J-5 CURB INLET - Spec: FDOT Section 425	
CONSTRUCT P-5 CURB INLET	/ EACH
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
V.45 CONSTRUCT J-6 CURB INLET - Spec: FDOT Section 425	
CONSTRUCT J-6 CURB INLET	/ EACH
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
V.46 CONSTRUCT TYPE 5 CURB INLET LID	
CONSTRUCT TYPE 5 CURB INLET LID	/ EACH
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
V.47 CONSTRUCT TYPE 6 CURB INLET LID	
CONSTRUCT TYPE 6 CURB INLET LID	/ EACH
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
V.48 CONSTRUCT P-6 CURB INLET	
CONSTRUCT P-6 CURB INLET	/ EACH
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
V.49 FURNISH & INSTALL 6" UNDERDRAIN (PIPE, SOCK, AGGREGATE) - Specification: Manatee County 204	
0 - 100 LF	/ LF
100 - 500 LF	/ LF
500 - 1,000 LF	/ LF
OVER 1,000 LF	/ LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
V.50 TIE UNDERDRAIN INTO EXISTING BOX	/ EACH
V.51 FURNISH & INSTALL 6" UNDERDRAIN CLEAN-OUT WITH CONCRETE PAD	/ EACH

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ROAD BUILDING MATERIALS AND SERVICES

SECTION V - STORMWATER, WASTEWATER & WATER UTILITIES		
V.52 INSTALL CONCRETE COLLAR		
15" PIPE OR EQUIVALENT	0 - 4' DEPTH	/ PER EACH
	4' - 8' DEPTH	/ PER EACH
18" PIPE OR EQUIVALENT	0 - 4' DEPTH	/ PER EACH
	4' - 8' DEPTH	/ PER EACH
24" PIPE OR EQUIVALENT	0 - 4' DEPTH	/ PER EACH
	4' - 8' DEPTH	/ PER EACH
30" PIPE OR EQUIVALENT	0 - 4' DEPTH	/ PER EACH
	4' - 8' DEPTH	/ PER EACH
36" PIPE OR EQUIVALENT	0 - 4' DEPTH	/ PER EACH
	4' - 8' DEPTH	/ PER EACH
	8' - 10' DEPTH	/ PER EACH
42" PIPE OR EQUIVALENT	0 - 4' DEPTH	/ PER EACH
	4' - 8' DEPTH	/ PER EACH
	8' - 10' DEPTH	/ PER EACH
48" PIPE OR EQUIVALENT	0 - 4' DEPTH	/ PER EACH
	4' - 8' DEPTH	/ PER EACH
	8' - 10' DEPTH	/ PER EACH
54" PIPE OR EQUIVALENT	0 - 4' DEPTH	/ PER EACH
	4' - 8' DEPTH	/ PER EACH
	8' - 10' DEPTH	/ PER EACH
60" PIPE OR EQUIVALENT	0 - 4' DEPTH	/ PER EACH
	4' - 8' DEPTH	/ PER EACH
	8' - 10' DEPTH	/ PER EACH
66" PIPE OR EQUIVALENT	0 - 4' DEPTH	/ PER EACH
	4' - 8' DEPTH	/ PER EACH
	8' - 10' DEPTH	/ PER EACH
	0 - 4' DEPTH	/ PER EACH

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ROAD BUILDING MATERIALS AND SERVICES

SECTION V - STORMWATER, WASTEWATER & WATER UTILITIES		
72" PIPE OR EQUIVALENT	4' - 8' DEPTH	/ PER EACH
	8' - 10' DEPTH	/ PER EACH
84" PIPE OR EQUIVALENT	0 - 4' DEPTH	/ PER EACH
	4' - 8' DEPTH	/ PER EACH
	8' - 10' DEPTH	/ PER EACH
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
V.53 REMOVE CONCRETE COLLAR		
15" PIPE OR EQUIVALENT	0 - 4' DEPTH	/ PER EACH
	4' - 8' DEPTH	/ PER EACH
18" PIPE OR EQUIVALENT	0 - 4' DEPTH	/ PER EACH
	4' - 8' DEPTH	/ PER EACH
24" PIPE OR EQUIVALENT	0 - 4' DEPTH	/ PER EACH
	4' - 8' DEPTH	/ PER EACH
30" PIPE OR EQUIVALENT	0 - 4' DEPTH	/ PER EACH
	4' - 8' DEPTH	/ PER EACH
36" PIPE OR EQUIVALENT	0 - 4' DEPTH	/ PER EACH
	4' - 8' DEPTH	/ PER EACH
	8' - 10' DEPTH	/ PER EACH
42" PIPE OR EQUIVALENT	0 - 4' DEPTH	/ PER EACH
	4' - 8' DEPTH	/ PER EACH
	8' - 10' DEPTH	/ PER EACH
48" PIPE OR EQUIVALENT	0 - 4' DEPTH	/ PER EACH
	4' - 8' DEPTH	/ PER EACH

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ROAD BUILDING MATERIALS AND SERVICES

SECTION V - STORMWATER, WASTEWATER & WATER UTILITIES		
	8' - 10' DEPTH	/ PER EACH
54" PIPE OR EQUIVALENT	0 - 4' DEPTH	/ PER EACH
	4' - 8' DEPTH	/ PER EACH
	8' - 10' DEPTH	/ PER EACH
60" PIPE OR EQUIVALENT	0 - 4' DEPTH	/ PER EACH
	4' - 8' DEPTH	/ PER EACH
	8' - 10' DEPTH	/ PER EACH
66" PIPE OR EQUIVALENT	0 - 4' DEPTH	/ PER EACH
	4' - 8' DEPTH	/ PER EACH
	8' - 10' DEPTH	/ PER EACH
72" PIPE OR EQUIVALENT	0 - 4' DEPTH	/ PER EACH
	4' - 8' DEPTH	/ PER EACH
	8' - 10' DEPTH	/ PER EACH
84" PIPE OR EQUIVALENT	0 - 4' DEPTH	/ PER EACH
	4' - 8' DEPTH	/ PER EACH
	8' - 10' DEPTH	/ PER EACH
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
V.54 REMOVE BOX INLET		
UNDER 40" BOX		/ PER EACH
40" X 48" BOX		/ PER EACH
64" X 64" BOX		/ PER EACH
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
V.55 REMOVE CONCRETE DRAINAGE STRUCTURE		
REMOVAL OF DRAINAGE STRUCTURE		/ PER CY

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ROAD BUILDING MATERIALS AND SERVICES

SECTION V - STORMWATER, WASTEWATER & WATER UTILITIES		
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
V.56 INLET MODIFICATION (ONE SIDE)		
MODIFY 48" BOX	0 - 4' DEPTH	/ PER EACH
	4' - 8' DEPTH	/ PER EACH
	8' - 10' DEPTH	/ PER EACH
MODIFY 64" BOX	0 - 4' DEPTH	/ PER EACH
	4' - 8' DEPTH	/ PER EACH
	8' - 10' DEPTH	/ PER EACH
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
V.57 FURNISH AND INSTALL ELLIPTICAL PIPE 12" x 18"		
WELLPOINTS (LUMP SUM)		/ PER DAY
		/ PER WEEK
T0 4' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
4' - 6' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
6' - 8' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF

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ROAD BUILDING MATERIALS AND SERVICES

SECTION V - STORMWATER, WASTEWATER & WATER UTILITIES		
	OVER 500 LF	/ PER LF
8' - 10' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
V.58 FURNISH AND INSTALL ELLIPTICAL PIPE 14" X 23"		
WELLPOINTS (LUMP SUM)		/ PER DAY
		/ PER WEEK
TO 4' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
4' - 6' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
6' - 8' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
8' - 10' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF

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ROAD BUILDING MATERIALS AND SERVICES

SECTION V - STORMWATER, WASTEWATER & WATER UTILITIES		
0 - 10' DEPTH	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
V.59 FURNISH AND INSTALL ELLIPTICAL PIPE 19" x 30"		
WELLPOINTS (LUMP SUM)		/ PER DAY
		/ PER WEEK
TO 4' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
4' - 6' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
6' - 8' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
8' - 10' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS

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ROAD BUILDING MATERIALS AND SERVICES

SECTION V - STORMWATER, WASTEWATER & WATER UTILITIES		
V.60 FURNISH AND INSTALL ELLIPTICAL PIPE 24" x 38"		
WELLPOINTS (LUMP SUM)		/ PER DAY
		/ PER WEEK
T0 4' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
4' - 6' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
6' - 8' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
8' - 10' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
V.61 FURNISH AND INSTALL ELLIPTICAL PIPE 29" x 45"		
WELLPOINTS (LUMP SUM)		/ PER DAY
		/ PER WEEK
T0 4' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
4' - 6' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
6' - 8' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF

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ROAD BUILDING MATERIALS AND SERVICES

SECTION V - STORMWATER, WASTEWATER & WATER UTILITIES		
	OVER 500 LF	/ PER LF
8' - 10' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
V.62 FURNISH AND INSTALL ELLIPTICAL PIPE 34" x 53"		
WELLPOINTS (LUMP SUM)		/ PER DAY
		/ PER WEEK
TO 4' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
4' - 6' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
6' - 8' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
8' - 10' DEPTH	0 - 100 LF	/ PER LF
	101 - 250 LF	/ PER LF
	251 - 500 LF	/ PER LF
	OVER 500 LF	/ PER LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
V.63 END		/ PER EACH
V.64 END		/ PER EACH
V.65 END		/ PER EACH
V.66 END		/ PER EACH
V.67 END		/ PER EACH
V.68 END		/ PER EACH
GRATING FOR MITERED END SECTION		/ PER EACH
V.69 FURNISH & INSTALL RIPRAP - FDOT SPEC 530 (2000)		
	SAND CEMENT	/ PER CY
	RIP RAP RUBBLE	/ PER TON
	BEDDING STONE	/ PER TON

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ROAD BUILDING MATERIALS AND SERVICES

SECTION VI - CURB AND GUTTER, SIDEWALKS AND DRIVEWAYS	
VI.1 MIAMI CURB AND GUTTER - Spec: Manatee County 201.1	
0 - 500 LF	/ PER LF
501 - 2,000 LF	/ PER LF
OVER 2,000 LF	/ PER LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
VI.2 TYPE "F" BARRIER CURB AND GUTTER - Spec: Manatee County 201.2	
0 - 500 LF	/ PER LF
501 - 2,000 LF	/ PER LF
OVER 2,000 LF	/ PER LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
VI.3 MODIFIED TYPE "F" CURB 201.2	
0 - 500 LF	/ PER LF
501 - 2,000 LF	/ PER LF
OVER 2,000 LF	/ PER LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
VI.4 TYPE "AB" MEDIAN CURB AND GUTTER - Spec: Manatee County 201.3	
0 - 500 LF	/ PER LF
501 - 2,000 LF	/ PER LF
OVER 2,000 LF	/ PER LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS

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ROAD BUILDING MATERIALS AND SERVICES

SECTION VI - CURB AND GUTTER, SIDEWALKS AND DRIVEWAYS	
VI.5 FDOT HEADWALLS	
ITEMS INCLUDE REBAR	/ PER CY
VI.6 TYPE "D" HIGHBACK CURB - Spec. Manatee County 201.4	
0 - 500 LF	/ PER LF
501 - 2,000 LF	/ PER LF
OVER 2,000 LF	/ PER LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
VI.7 INVERTED CROWN GUTTER -Spec: Manatee County 201.5	
0 - 500 LF	/ PER LF
501 - 2,000 LF	/ PER LF
OVER 2,000 LF	/ PER LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
VI.8 TYPE "A" VALLEY CROSSING - Spec. Manatee County 201.6	
TYPE "A" VALLEY CROSSING	/ PER LF
MIAMI CURB & GUTTER ON RADIUS	/ PER LF
REMOVE NECESSARY PAVEMENT, BASE, CURB & GUTTER TO INSTALL NEW VALLEY CROSSING	/ PER LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
VI.9 TYPE "B-B & C-C" VALLEY CROSSING - Spec: Manatee County 201.6	
TYPE "B" VALLEY CROSSING	/ PER LF
MIAMI CURB & GUTTER ON RADIUS	/ PER LF

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ROAD BUILDING MATERIALS AND SERVICES

SECTION VI - CURB AND GUTTER, SIDEWALKS AND DRIVEWAYS	
REMOVE NECESSARY PAVEMENT, BASE, CURB & GUTTER TO INSTALL NEW VALLEY CROSSING	/ PER LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
VI.10 CONSTRUCT SIDEWALK / DRIVEWAY	
2,500 PSI RANDOM x 4"	/ PER SY
3,000 PSI RANDOM x 4"	/ PER SY
2,500 PSI RANDOM x 4" WITH 6 x 6 #10 MESH	/ PER SY
3,000 PSI RANDOM x 4" WITH 6 x 6 #10 MESH	/ PER SY
2,500 PSI RANDOM x 6"	/ PER SY
3,000 PSI RANDOM x 6"	/ PER SY
2,500 PSI RANDOM x 6" WITH 6 x 6 #10 MESH	/ PER SY
3,000 PSI RANDOM x 6" WITH 6 x 6 #10 MESH	/ PER SY
PREPARATION (GRADING, SHAPE, BASE PREPARATION TO INCLUDE 6" FILL AND/OR EXCAVATION	/ PER SY
ADDITIONAL FILL	/ PER CY
ADDITIONAL EXCAVATION	/ PER CY
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
VI.11 MISCELLANEOUS CONCRETE FORMED AND POURED	
3,000 PSI	/ PER CY
4,000 PSI	/ PER CY
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
VI.12 REBAR	

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION VI - CURB AND GUTTER, SIDEWALKS AND DRIVEWAYS	
ITEMS TO BE USED WITH MISCELLANEOUS	/ PER LB
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
VI.13 REMOVE CONCRETE SIDEWALK / DRIVEWAY (2500 PSI)	
4" THICKNESS:	
0 - 100 SF	/ PER SF
101 - 250 SF	/ PER SF
251 - 500 SF	/ PER SF
OVER 500 SF	/ PER SF
6" THICKNESS:	
0 - 100 SF	/ PER SF
101 - 250 SF	/ PER SF
251 - 500 SF	/ PER SF
OVER 500 SF	/ PER SF
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
VI.14 REMOVE CONCRETE CURB & GUTTER	
0 - 100 SF	/ PER SF
101 - 250 SF	/ PER SF
251 - 500 SF	/ PER SF
OVER 500 SF	/ PER SF
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
VI.15 CONSTRUCT ASPHALT SIDEWALK / DRIVEWAY - Price to include excavation, asphalt material, labor and equipment	
SAND ASPHALT - HOT MIX - 1200#	

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION VI - CURB AND GUTTER, SIDEWALKS AND DRIVEWAYS	
4' x 4"	/ PER LF
5' x 4"	/ PER LF
6' x 4"	/ PER LF
8' x 4"	/ PER LF
4' x 6"	/ PER LF
5' x 6"	/ PER LF
6' x 6"	/ PER LF
8' x 6"	/ PER LF
ASPHALTIC CONCRETE - TYPE III	
4' x 4"	/ PER LF
5' x 4"	/ PER LF
6' x 4"	/ PER LF
8' x 4"	/ PER LF
4' x 6"	/ PER LF
5' x 6"	/ PER LF
6' x 6"	/ PER LF
8' x 6"	/ PER LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
VI.16 PREPARATION FOR CURB & GUTTER (NEW NOT REPLACED)	
PREPARATION +/- 6"	/ PER LF
ADDITIONAL FILL	/ PER CY
ADDITIONAL EXCAVATION	/ PER CY
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
VI.17 CONCRETE PUMPING	
CONCRETE PUMPED	/ HOUR
CONCRETE PUMPED	/ DAY

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION VI - CURB AND GUTTER, SIDEWALKS AND DRIVEWAYS	
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
VI.18 ADA TRUNCATED DOME FURNISHED/INSTALLED	
Furnish and Install	/ SQ FT
DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
VI.19 STANDARD MAIL BOX RELOCATE	EACH
VI.20 IRRIGATION CAP	EACH

Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION VII - TRAFFIC CONTROL

VII.1 FURNISH AND INSTALL AND REMOVE TEMPORARY CONCRETE BARRIER - (JERSEY BARRIER) Spec: FDOT Section 521

PRECAST TEMP PROTECTION TRAFFIC CONTROL

/ PER FT

DELIVERY DAYS AFTER RECEIPT OF ORDER:

/ DAYS

VII.2 GUARDRAIL - Spec: FDOT 536-1 - Price Vendor Delivered & Installed per Job Site

0 - 250 LF

/ PER LF

OVER 251 LF

/ PER LF

DELIVERY DAYS AFTER RECEIPT OF ORDER:

/ DAYS

VII.3 SHOP - BENT PANELS - Specification: FDOT 536-2 - Price Vendor Delivered and Installed per Job Site

0 - 12.5 LF

/ PER LF

OVER 12.5 LF

/ PER LF

DELIVERY DAYS AFTER RECEIPT OF ORDER:

/ DAYS

VII.4 SPECIAL POST (MINIMUM 2 EACH) - Spec: FDOT Section 536-7 - Price Vendor Delivered and Installed per Job Site

0 - 4

/ PER EA

OVER 4

/ PER EA

DELIVERY DAYS AFTER RECEIPT OF ORDER:

/ DAYS

VII.5 TYPE IV ENDS (MIN. 2 EACH) Spec: FDOT 536-8 - Price Vendor Delivered and Installed per Job Site

0 - 4

/ PER EA

OVER 4

/ PER EA

DELIVERY DAYS AFTER RECEIPT OF ORDER:

/ DAYS

VII.6 GUARDRAIL POST REPLACEMENT Spec: FDOT 536-83 - Price Vendor Delivered and Installed per Job Site

0 - 4

/ PER EA

Bidder Name: _____

Authorized Signature: _____

BID FORM
ROAD BUILDING MATERIALS AND SERVICES

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SECTION VII - TRAFFIC CONTROL	
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OVER 4	/ PER EA
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DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
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VII.7 GUARDRAIL REMOVAL AND DEPOSAL INCLUDING POST	
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0 - 24	/ PER LF
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OVER 24	/ PER LF
---------	----------

DELIVERY DAYS AFTER RECEIPT OF ORDER:	/ DAYS
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Bidder Name: _____

Authorized Signature: _____

BID FORM

ROAD BUILDING MATERIALS AND SERVICES

SECTION VIII - FENCING		
<p>FENCING - Includes furnishing all labor, materials, equipment and such miscellaneous items as necessary for complete installation of chain link fence system; fencing to be installed according to manufacturer's specifications, unless otherwise specified. Spec FDOT 550 (2016).</p>		
VIII.1 CHAIN LINK FENCING TYPE A		
4' HEIGHT	0 - 100 LF	/ PER LF
	101 - 500 LF	/ PER LF
	OVER 501 LF	/ PER LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
VIII.2 CHAIN LINK FENCING TYPE B		
4' HEIGHT	0 - 100 LF	/ PER LF
	101 - 500 LF	/ PER LF
	OVER 501 LF	/ PER LF
6' HEIGHT	0 - 100 LF	/ PER LF
	101 - 500 LF	/ PER LF
	OVER 501 LF	/ PER LF
8' HEIGHT	0 - 100 LF	/ PER LF
	101 - 500 LF	/ PER LF
	OVER 501 LF	/ PER LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
VIII.3 FENCE REMOVAL AND DISPOSAL (WOOD AND CHAIN LINK)		
4' HEIGHT	0 - 100 LF	/ PER LF
	101 - 500 LF	/ PER LF
	OVER 501 LF	/ PER LF
6' HEIGHT	0 - 100 LF	/ PER LF
	101 - 500 LF	/ PER LF
	OVER 501 LF	/ PER LF
DELIVERY DAYS AFTER RECEIPT OF ORDER:		/ DAYS
VIII.4 GATES		
4' HEIGHT	4' WIDE	/ PER EACH
	8' WIDE	/ PER EACH

Bidder Name: _____

Authorized Signature: _____

BID FORM
ROAD BUILDING MATERIALS AND SERVICES

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SECTION VIII - FENCING

FENCING - Includes furnishing all labor, materials, equipment and such miscellaneous items as necessary for complete installation of chain link fence system; fencing to be installed according to manufacturer's specifications, unless otherwise specified. Spec FDOT 550 (2016).

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	16' WIDE	/ PER EACH
6' HEIGHT	4' WIDE	/ PER EACH
	8' WIDE	/ PER EACH
	16' WIDE	/ PER EACH
8' HEIGHT	4' WIDE	/ PER EACH
	8' WIDE	/ PER EACH
	16' WIDE	/ PER EACH

/ PER EACH

DELIVERY DAYS AFTER RECEIPT OF ORDER:

/ DAYS

Bidder Name: _____

Authorized Signature: _____

SECTION D EXHIBITS

**Exhibit 1, SCOPE OF WORK
IFB NUMBER 20-TA003287CD**

1.01 BACKGROUND INFORMATION

Manatee County has had a Road Building and Materials Agreement for over 25 years. This Agreement allows for the purchase of materials and services required in the maintenance of the County's infrastructure. This Agreement is used for Utility, Stormwater, Roads, Bridges, Earthwork and Traffic Signals repairs and installation. Annually this Agreement totals approximately ten million dollars in materials and services.

1.02 SCOPE

Successful Bidder (hereinafter in this Scope referred to as Contractor) shall furnish all equipment, labor, materials, supplies, licensing, transportation, and other components necessary to provide Road Building and Materials Services that will meet the requirements of the Agreement.

1.03 GENERAL REQUIREMENTS

Contractor shall provide the following requirements:

- A. Materials. The road building materials portion of this Invitation for Bid shall consist of, but is not limited to, the supply and/or supply and delivery of road building materials to various job sites within Manatee County.
- B. Services. The road building services portion of this Invitation of Bid shall consist of, but is not limited to, Road Building Services, at various job sites within Manatee County. Examples of specific services shall include but are not limited to excavation, grading, resurfacing, curbing, drainage, marking, signals, base work, etc. The road building services shall be for a job on a job site to be performed by Contractor in accordance with the scope of work provided by the County. The Contractor shall furnish any required shop drawings, working drawings, labor, materials, equipment, tools, services and incidentals necessary to complete all work required to complete specified road building services authorized by release order. The Contractor shall perform the work complete, in place and ready for continuous services and shall include any repairs, replacement, and/or restoration required as a result of damages caused prior to acceptance by the County.

1.04 SERVICE REQUIREMENTS

Contractor's services shall include but not be limited to:

All materials and services provided, delivered or installed pursuant to any Agreement issued in connection with this Invitation for Bid shall meet or exceed the following:

FDOT Standard Specifications for Road and Bridge Construction link is provided for you convenience. <http://www.dot.state.fl.us/specificationsoffice/>

Manatee County Transportations Standards, Utility Design Standards and Stormwater Design Standards link is provided for your convenience.

<http://mymanatee.org/home/government/departments/public-works/engineering/>

- A. Detailed Cost Package. The County will initiate a meeting with some or all Contractor(s) to review the scope of work and possibly conduct an on-site visit. The Contractor(s) shall then be required to prepare a detailed cost package using their unit prices bid. The detailed cost package shall include itemized costs based on Contractor's bid pricing, a detailed statement of work and shop drawings/sketches (if applicable) for the specific work required and a schedule for completion of the specific work. The Contractor(s) shall be expected to expeditiously prepare its detailed cost package and in no event shall the preparation time exceed 15 calendar days. The Contractor(s) shall submit its detailed cost package to the County, who will evaluate same and, if approved, will issue a written release order. The County reserves the right to not issue a release order for the specific work. The County has no obligation to issue a release order. The County reserves the right to use any Contractor which it deems to be in its best interest for any specific project. Selection of the Contractor for each project will be within the sole direction of the County.
- B. Quality of Work. If at any time the labor used or to be used appears to the County as insufficient or improper for the securing the quality of Work required or the required rate of progress, the County may order the Contractor to increase its efficiency or to improve the character of its work, and the Contractor shall confirm to such an order. Any such order shall not entitle Contractor to any additional compensation or increase in Contract Time. The failure of the County to demand any increase of such efficiency or any improvement shall not release the Contractor from its obligation to secure the quality of work or the rate of progress necessary to complete work satisfactorily. The County may require the Contractor to remove such personnel as the County deems incompetent, careless, insubordinate or otherwise objectional, or whose continued employment is deemed contrary to the County's interest. The Contractor shall provide good quality workmanship and shall promptly correct construction defects without additional compensation. Acceptance of the work by the County shall not relieve the Contractor of the responsibility for subsequent correction of any construction defects.
- C. Quality Control. The Contractor shall:
 - a. Develop and maintain a program to assure quality control of the services provided.
 - b. Be responsible for and supervise all subcontractors, providing instructions when their effort doesn't conform to the requirements of the Agreement and/or release order.
 - c. Continue to coordinate each subcontractor to ensure that corrections are made in a timely manner so as to not affect the mutually agreed schedule.
- D. Layout of Work. The Contractor:
 - a. Where required, shall set construction stakes and batter boards for establishing lines, positions of structures, slopes, and other controlling points necessary for the proper prosecution of the work. The stakes, as set will be checked and approved by the County before construction is commenced. These stakes and marks shall constitute the field control by and in accordance with which the Contractor shall govern and execute the work.

- b. Will be held responsible for the preservation of all stakes and marks; and if for any reason any of the stakes or marks or batter boards become destroyed or disturbed, they will immediately and accurately be replaced by the Contractor at no additional expense to the County.
- E. Overtime Work. Only work specified by the County as requiring overtime work hours will be subject to an overtime surcharge. Any work done by the Contractor during overtime hours, but not specified as required by County will be considered normal hours and normal hourly rate(s) shall be applied. Overtime work shall be defined as work performed on Sundays and national/county holidays and all work performed between the hours of 7:00pm and 7:00am. Bidders shall include a per day surcharge on the bid form that will include all equipment, materials, labor and MOT required to take all the necessary precautions for the protection of the work and the safety of the public.
- F. Warning Signs and Barricades. The Contractor shall provide adequate signs, barricades, flashing lights, flagmen and watchmen, and take all necessary precautions for the protection of the work and safety of the public. Traffic control warning signs and barricades shall be in strict accordance with the provisions of the FDOT Manual on Traffic Controls and Safety Practices for Street and Highway Construction, Maintenance and Utility Operations (latest revision). All barricades and obstructions shall be protected at night by flashing signal lights which shall be of substantial for night visibility. Suitable warning signs shall be so placed and illuminated at night to show in advance where construction, barricades or detours exist. All work items are to include the cost of signing and traffic maintenance, except as related to shell and base preparation over 100' or overnight.
- G. Protection of Work, Persons and Property. The Contractor shall:
 - a. Continuously maintain adequate protection of all work form damage and shall protect all property from injury or loss arising in connection with the contract. Successful bidder(s) shall make good any such damage, injury or loss, except such as may be directly due to error in contract documents.
 - b. Provide, protect, and maintain all passageways, guard fences, lights, and other facilities required by the public authority or local conditions.
 - c. Provide reasonable maintenance of traffic ways for the public and preservation of the continuation of the County's business taking into full consideration all local conditions.
 - d. Comply with Florida Department of Commerce Safety Regulation and any local safety regulations.
- H. Clean-up. The Contractor shall:
 - a. Keep the construction site free of rubbish and waste material and restore to their original condition those portions of the site not designated for alteration by the scope of work. Clean up and restoration shall be accomplished on the continuing basis throughout the contract period and in such a manner as to maintain a minimum of nuisance and interference to the general public and residents in the vicinity or the work.
 - b. Remove when no longer needed, all temporary structures markers and equipment used in its operations. It is the intent of this specification that the construction

areas and those other areas not designated for alteration by the scope of work be restored to their original condition or as nearly as possible.

- I. Testing. All inspections and testing required for this contract will be performed by and independent laboratory retained by the County. Contractor shall be responsible for all failed test.

1.05 TECHNICAL REQUIREMENTS

Contractor's equipment, products, and services shall meet the technical specifications outlined in Exhibit 3.

1.06 WARRANTY AND GUARANTEE PROVISIONS

All maintenance, repair and construction services furnished as defined herein shall be guaranteed and warranted by the Contractor for a minimum period of three (3) years, unless otherwise specified, from final acceptance by the County to be free from defects due either to faulty materials or equipment or faulty workmanship.

All materials, equipment, and workmanship furnished and/or furnished and installed by the Contractor is warranted and guaranteed by the Contractor to meet the required standards specified herein and to accomplish the purposes and functions of the project.

The County shall, following discovery of faulty materials or workmanship, promptly give written notice to the Contractor of faulty materials, equipment, or workmanship within the period of the guarantee and the successful bidder(s) shall promptly replace any part of the faulty equipment, material, or workmanship at its own cost. These warranty and guarantee provisions create no limitations on the County as to any claims or actions for breach of guaranty or breach of warranty that the County might have against parties other than the Contractor, and do not constitute exclusive remedies of the County against the Contractor.

1.07 LIMITATIONS PER PROJECT

No single construction project estimated to exceed \$299,999.99 shall be performed under this Agreement. A project exceeding \$299,999.99 shall be solicited under a separate formal, sealed process in order to comply with FS 255.0525.

1.08 ACCESSIBILITY

Contractor shall ensure all of its electronic information, documents, applications, reports, and deliverables required under the Agreement are in a format that meets the requirements of Section 504 of the Rehabilitation Act and best practices (W3C WCAG 2).

Where not fully compliant with these requirements and best practices, Contractor shall provide clear points of contact for each document and information technology to direct users in how to obtain alternate formats. Further, Contractor shall develop accommodation strategies for those non-compliant resources and implement strategies to resolve the discrepancies.

1.09 PRICE ESCALATION/DE-ESCALATION

For all road building material only related release orders, the Contractor agrees the cost (per ton) of Liquid Asphalt shall be adjusted according to the FDOT Fuel and Bituminous Price Index effective the day of paving. Contractor shall submit a copy of the index and formula used with its invoice. The pay items that will be affected by the index are: IV.2, IV.3, IV.4, IV.5, IV.6, IV.7, IV.8, IV.9, IV.10, IV.19, IV.21 and IV.41.

END OF EXHIBIT 1

Exhibit 2, MINIMUM QUALIFICATIONS

Bidders must submit the information and documentation requested that confirms Bidder meets the following minimum qualification requirement(s):

1. Must be registered with the State of Florida, Division of Corporations to do business in Florida.

No documentation is required. The County will verify registration.

2. **Materials Only:**

If bidding for materials supply only, Bidder must be in business operating a full-time aggregate materials supply business for a minimum of three (3) years since July 2017.

Provide documentation demonstrating that Bidder has been in business operating a full-time aggregate materials supply business service since July 2017.

3. **Materials and Services:**

If bidding for materials and services, Bidder must have possessed a General Contractor's or Underground Utility Contractor's license issued by the Florida DBPR for a period of at least three (3) consecutive years since July 30, 2017.

OR

Must be a Florida department of Transportation (FDOT) Pre-Qualified Contractor in the category of "Flexible Paving".

If bidding as a General Contractor or Underground Utility Contractor, provide documentation confirming Bidder has been licensed as a General Contractor or Underground Utility Contractor by the Florida DBPR for the period of July 30, 2017 through the date of submission of the Bid.

If bidding as an FDOT pre-Qualified Contractor in the category of "Flexible Paving", the County will verify that Bidder is listed in the FDOT database as an FDOT Pre-qualified Contractor in the category of "Flexible Paving".

4. If bidding for materials and services, the Bidder must have provided Bituminous Asphaltic materials placement services for at least three clients since July 30, 2017.

Provide the following information for the three qualifying clients.

- a) Name of client
- b) Location (City/State)
- c) Client contact name
- d) Contact phone
- e) Contact email
- f) Service dates (Start/End)
- g) Components

5. Bidder Is NOT listed on the Florida State Board of Administration, Scrutinized List of Prohibited Companies found at the SBAFLA website at <http://www.sbafla.com/fsb/FundsWeManage/FRSPensionPlan/PFIA/tabid/1478/ItemId/3354/Default.aspx>

[t.aspx](#)

No documentation is required. The County will verify

6. Bidder is not on the Florida Department of Management Services Suspended, Debarred, Convicted Vendor Lists.

No documentation is required. The County will verify

7. Bidder is not on the Federal Excluded Parties (Convicted Vendor) List

No documentation is required. The County will verify

8. Bidder is not on the FDOT Contractor Suspension List

No documentation is required. The County will verify

9. Bidder has not been convicted of a public entity crime per Section 287.133, Florida Statutes or environmental law in the past five years.

Bidder must complete Attachment C and submit with its Bid attesting that it has not been convicted of a public entity crime or environmental law in the past five years.

10. If Bidder is submitting as a joint venture must file the required documents with the Florida Department of Business and Professional Regulation as required by Florida Statute Section 489.119, prior to the Due Date and Time.

If Bidder is a joint venture, provide a copy of Bidder's approved filing with the Florida Department of Business and Professional Regulation. If Bidder is not a joint venture, provide a statement to that effect.

11. Bidder has no reported conflict of interests in relation to this IFB.

Disclose the name of any officer, director or agent who is also an employee of the County. Disclose the name of any County employee who owns, directly or indirectly, any interest in the Bidder's firm or any of its branches. If no conflicts of interests are present, Bidder must submit a statement to that affect.

END OF SECTION B

SECTION E – TECHNICAL SPECIFICATIONS

The technical specifications provide for the clarification of what standards and specifications are to be utilized in submittal of your bid.

Where referenced the governing standards and specifications are:

FDOT specifications can be found at: <http://www.dot.state.fl.us/specificationsoffice/>

Manatee County Specifications (Utility Design Standards, Transportation Design Standards and Storm Water Design Standards) can be found at: <http://www.mymanatee.org/home/government/departments/public-works/engineering-services/engineering-standards.html>

ASTM, AASHTO, AMRL and CMEC specifications can be found at: <http://www.astm.org/>

Florida Building Code can be found at: <http://www.floridabuilding.org/>

Florida Department of Environmental Regulation can be found: <http://www.dep.state.fl.us/>

Florida Department of Natural Resources can be found at: <http://myfwc.com/>

U.S. Environmental Protection Agency can be found at: <http://www.epa.gov/>

DESCRIPTION OF WORK IN SUPPORT OF REFERENCED FDOT BID ITEMS

All FDOT referenced sections and/or bid items shall follow the specified scope in the current edition unless otherwise specified.

DESCRIPTION OF WORK IN SUPPORT OF NON – REFERENCED FDOT BID ITEMS

All non-referenced FDOT sections and/or bid items shall follow the noted specification designator.

BASIS OF PAYMENT IN SUPPORT OF REFERENCED FDOT BID ITEMS

All FDOT referenced sections and/or bid items will be paid per the appropriate unit of measure noted in the current specifications and on corresponding bid form.

BASIS OF PAYMENT IN SUPPORT OF NON - REFERENCED FDOT BID ITEMS

All bid items silent in the specifications will be paid per the item description and unit of measure noted on the corresponding bid form.

Note: Distance from Successful Bidders Plant to Manatee County Yard shall be based on Manatee County Yard located at 4680 66th ST W @ Cortez Road, Bradenton, Florida. Manatee County Yards are operational from 7:00 AM to 3:00 PM Monday through Friday, except for County holidays.

SECTION E – TECHNICAL SPECIFICATIONS**ZONES**

Zones as designated as areas of the County to allow for prices various of the delivery of goods or the provision of services at different locations in a 750 + square mile county. When the bid sheet has a line item that mentions zones, it allows the bidder to use different pricing depending on where the work site is located to account for their costs.

SECTION I -- AGGREGATE**DESCRIPTION OF WORK**

The work specified in this section shall reference FDOT specifications and American Society for Testing and Materials (ASTM) requirements as listed on Bid Form with the exception of I.16.

(I.16) CRUSHED CONCRETE BASE

The work specified in the bid item includes Crushed Concrete Base to follow FDOT Standard Specifications 2007 (rev 8-07) except that the Limerock Bearing Ratio (LBR) shall be minimum 150. The layer coefficient of 0.18 with LBR minimum 150 is allowed to calculate the base thickness.

Only FDOT certified piles are acceptable to this solicitation. The producing process certified by FDOT without the actual pile certified is not considered solid enough for the acceptance of the material. The Successful Bidder shall provide the County deliver tickets with FDOT certified pile number, pile location, project name and manufactory contact information shown.

Additional tests and pile inspections will be required for the quality control and the Successful Bidder will be responsible for the cost of the initial ten tests and any re-tests when needed. The material will be rejected by the County if the initial test fails. The rejected material shall be completely removed from the project site.

- 1) Regarding structural number on Crushed Concrete Base, Manatee County to approve SN 0.18 if following criteria is met and maintained:
 - A) Limerock Bearing Ratio value of 150 or greater.
 - B) Gradation conforms to FDOT Specifications 2007 (rev 8-07).
 - C) Deleterious materials conform to FDOT Specifications 2007 (rev 8-07)
 - D) Delivery ticket indicates FDOT approved source, actual lot allocated to a particular project.
 - E) Piles or lots to be inspected by Manatee County representative prior to acceptance.

SECTION E – TECHNICAL SPECIFICATIONS

- 2) Regarding Limerock Bearing Ratio value:
 - A) No Limerock Bearing Ratio value less than 150, with no under tolerance.
- 3) Regarding source approval:
 - A) FDOT approved source, allocated lot sufficient to serve County needs, delivery tickets stating FDOT approved source, project name, and FDOT preapproved lot or pile number.
- 4) Regarding deleterious materials:
 - A) Deleterious material content in addition to the FDOT Specifications 2007 (rev 8-07) should state that no construction debris such as Styrofoam insulation, telephone wire, lumber, shingles, aluminum window or door frames etc., or household trash, ie: bottles, cans, paper goods etc. is acceptable.
- 5) Material source inspection:
 - A) Prior to acceptance of base product, a representative of Manatee County will visit the Producer's location and obtain a sample of the proposed base for the specified project. In addition to sampling, the pile will be visually inspected for deleterious materials, substantial segregation, or any other undesirable characteristics. The pile shall have a traceable identification by pile number or lot number and an accurate quality assessment.
- 6) Import and placement of base product:
 - A) During import of base product, a county inspector or duly designated representative of the county will be onsite monitoring incoming loads, making visual assessments of the product and checking load tickets for verification of materials.
 - B) After spreading out, prior to compacting, samples of the base product will be obtained by Manatee County approved testing lab, every 500 LF staggering right, left, center of the roadway for Limerock Bearing Ratio, gradation and deleterious material testing.
- 7) Rejection of materials:
 - A) Material not meeting above requirements will be subject to rejection and be removed from the project site. Any three (3) concurrent rejections will require immediate shut down of imported material and require review and remedies prior to restart.

SECTION E – TECHNICAL SPECIFICATIONS

8) Compaction of material:

A) In place material shall achieve 98% of AASHTO T-180 compaction.

(I.16) BASIS OF PAYMENT

All bid items specified shall be paid under the ton pay item for Crushed Concrete Base on the Bid Form.

SECTION II - LIQUID ASPHALT**DESCRIPTION OF WORK**

The work specified in this section shall reference FDOT Section 300 Prime and Tack Coats.

BASIS OF PAYMENT

All bid items specified shall be paid under the gallon pay item for Liquid Asphalt on the Bid Form.

SECTION III – PAVEMENT BASE CONSTRUCTION**DESCRIPTION OF WORK**

The work specified in this section shall reference FDOT specifications, Manatee County Specifications (Utility Design Standards, Transportation Design Standards and Storm Water Design Standards) and specified heavy equipment models as listed on the Bid Form. The following bid items III.4, III.5, III.7, III.8, III.9, III.10, III.11, III.12 reference see specification.

(III.4) EXCAVATION (DIRT REMOVAL)

The work specified in this section includes excavation involving the excavation and utilization or disposal of all materials necessary for the construction of the project.

This includes both roadway and subsoil excavation.

(III.4) BASIS OF PAYMENT

All bid items specified shall be paid under the cubic yard pay items for Excavation (Dirt Removal) and Special Excavation Removal of Deleterious Materials Loading and Hauling on the Bid Form.

SECTION E – TECHNICAL SPECIFICATIONS**(III.5) GRADE AND SHAPE FORESLOPE, BACKSLOPE, & PULLING OF DITCHES**

The work specified in this section includes all equipment and labor required to establish new ditches to grade, place, shape, compact both foreslope and backslope as required to insure proper drainage. This item does not include fill material or sod.

(III.5) BASIS OF PAYMENT

The bid item specified shall be paid under the square yard pay item for Grade and Shape Foreslope, Backslope, & Pulling of Ditches on the Bid Form.

(III.7) FILL DIRT PLACING (PLACE, SHAPE AND COMPACT FILL)

The work specified in this section consists of the placing of fill dirt to address transitions in elevations to natural ground.

(III.7) BASIS OF PAYMENT

All bid items specified shall be paid under the cubic yard pay item for Fill Dirt Placing on the Bid Form.

(III.8) DESCRIPTION OF WORK for HYDRO-SEEDING and HYDRO-MULCHING

The work specified in this section includes the furnishing of all labor, equipment and material required to grass by either regular or Hydro-Seeding and Hydro-Mulching shoulders, slopes and other designated areas. This includes all seed, fertilizer, mulch and water required for the slurry mix. Work shall include final preparation of the ground for seeding. Hydro Seeding for grassing on the right-of-way of Manatee County highways. Basic specification for this work is Florida Department of Transportation's Standard Specifications for Road and Bridge Construction - 2007.

WATER (Reference III.12)

The quantity of water ordered at the specific time of its being applied will be paid for separately per thousand gallons actually applied. This in accordance with Paragraph 570-6.6 of the FDOT specifications.

The following water schedule should be planned in case rain does not provide the necessary moisture. One and one-half to two gallons per square yard shall be applied twice weekly for three weeks or until such time as the roots are well established. An example of a wetting agent such as "Aquagro" shall be added. (<http://tirmsdev.com/Aquatrols-Corporation-of-America-Inc-AquaGro-2000G-p12080>)

FERTILIZER

Must adhere to Manatee County Fertilizer Ordinance 11-21. (Attachment "F"- end of document).

MULCH (part of III.8)

Cellulose fiber - 1000/1300 pounds per acre; soil binder 5 to 40 pounds acre may be added on steep slopes. Soil binder will be paid separately.

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GRASS SEED (part of III.8)

Permanent Grass Seed:

- 1. 40/100 pounds per acre - Pensacola Bahia
- 2. 10/20 pounds per acre - Bermuda

Starter Grass Seed:

- 1. May 1 through October 15 - Millet 40 pounds per acre
- 2. April, October 15 to November - Millet 20 pounds
- Rye 20 pounds
- 3. November 15 through March 31 - Rye 40 pounds per acre

(III.8) BASIS OF PAYMENT

All bid items specified shall be paid under the square yards pay item for hydro-seeding and hydro-mulching on the Bid Form.

(III.9) (BAHIA). (III.10) (ST. AUGUSTINE). (III.11) (BERMUDA) REFERENCE SODDING (FDOT 2007 edition) AND (III.12) WATER FOR SEEDING. SODDING & TREES

DESCRIPTION OF WORK.

The work specified in this section includes establishing a stand of grass within the specified areas, by furnishing and placing sod, and rolling, fertilizing, watering, and maintaining the sodded areas to ensure a healthy stand of grass.

Materials

Meet the following requirements:

Sod.....981-2 (FDOT 2007)

Construction Methods for (III.9, III.10, III.11 and III.12)

Preparation of Ground: Scarify or loosen the areas requiring sod to a depth of 6 inches. On areas where the soil is sufficiently loose, particularly on shoulders and fill slopes, the Engineer may authorize the elimination of the ground preparation. Limit preparation to those areas that can be sodded within 72 hours after preparation. Prior to sodding, thoroughly water areas and allow water to percolate into the soil. Allow surface moisture to dry before sodding to prevent a muddy soil condition.

Placing Sod: Place sod immediately after ground preparation. Do not use sod which has been cut for more than 72 hours. Stack all sod that is not planted within 24 hours after cutting and maintain proper moist condition. Do not sod when weather and soil conditions are unsuitable for proper results. Pre-wet the area prior to placing sod. Do not place sod on eroded or washed out sites. Place the sod on the prepared surface, with edges in close contact, and embed it firmly and smoothly by light tamping with appropriate tools.

SECTION E – TECHNICAL SPECIFICATIONS

Place the sod to the edge of all the paving and shrub areas and 1 inch below adjoining pavement with an even surface and edge. Place rolled sod parallel with the roadway and cut any exposed netting even with the sod edge. Roll using a lightweight turf roller. Provide a true and even surface without any displacement of the sod or deformation. Where sodding in drainage ditches, stagger the setting of the sod pieces to avoid a continuous seam along the line of flow. Ensure that the offsets of individual strips do not exceed 6 inches. Tamp the outer pieces of sod to produce a featheredge effect. Peg sod at locations where the sod may slide. Drive pegs through sod blocks into firm earth, at intervals approved by the Engineer. Remove any sod as directed by the County.

(III.12) Watering: Thoroughly water the sod immediately after placing. Do not water in excess of 1 inch per week for establishment.

Maintenance: Maintain the sodded areas in a satisfactory condition until final acceptance of the project. Include in such maintenance the filling, leveling, and repairing of any washed or eroded areas, as may be necessary. The County will pay for resodding necessary due to factors determined **collectively** to be beyond the control of the Successful Bidder. Mow the sodded areas to a height of 6 inches when competing vegetation height exceeds 20 inches in height. Monitor placed sod for growth of pest plants and noxious weeds. If pest plants and/or noxious weeds manifest themselves within 30 days of placement of the sod, treat affected areas by means acceptable to the County at no expense to the County.

Method of Measurement (III.9, III.10 and III.11)

The quantities for the referenced items, completed and accepted are:

- (1) The area, in square yards, of sodding.

(III.9, III.10, III.11 and III.12) BASIS OF PAYMENT

All bid items specified shall be paid under the square yard pay item except for (III.12) which will be paid under the gallon pay item on the Bid Form.

(III.13) PAVEMENT REMOVAL

The work specified in this section includes all equipment and labor required to excavate, remove and dispose of asphalt surface or base and sub-base.

(III.13) BASIS OF PAYMENT

All bid items specified under (Pavement Removal) shall be paid under square yards pay item noted on the Bid Form.

(III.19) REWORKING AND SHOULDER SODDING ON EXISTING FACILITIES

The work specified in this section includes all equipment, labor and material to repair re-establish or to insure proper drainage along existing shoulders, county rights of way or facilities and establish a strand of grass. Price is to include sod.

SECTION E – TECHNICAL SPECIFICATIONS**(III.19) BASIS OF PAYMENT**

All bid items specified under (Removal and Shouldering Sodding on Existing Facilities) shall be paid under the square yard pay item noted on the Bid Form.

(III.20) CLIPPING OF SHOULDER AND CLEANUP FOR RESURFACING

The work specified in this section includes all equipment and labor required to address shoulder directly parallel to paving projects and establish edge of pavement, removal of excess material and the pull back and cleanup of the clipped shoulder.

(III.20) BASIS OF PAYMENT

All bid items specified under (Clipping of Shoulder and Cleanup for Resurfacing) shall be paid under lineal foot for each shoulder clipped.

(III.21) CLIPPING SHOULDER AND REMOVAL OF MATERIAL TO ESTABLISH DRAINAGE FINISHED SURFACE TO BE SODDED OR HYDRO

The work specified in this section includes all equipment and labor required to remove and re-establish proper drainage along county roads. This includes the loading, hauling and disposal of material paid at truck measure per CY removal and per LF for each shoulder clipped. The finished grading will be uniform and ready for sodding or Hydro seeding. Price does not include sodding or Hydro seeding.

(III.21) BASIS OF PAYMENT

All bid items specified under (Clipping Shoulder and Removal of Material to Establish Drainage Finished Surface to be sodded or Hydro) shall be paid under lineal foot/cubic yard for pay item noted on the Bid Form.

(III.22) COLD MIX IN PLACE INJECTION OF EXISTING UNPAVED ROADS BASE STABILIZATION

The work specified in this section includes all equipment, labor and material required to stabilize an unpaved road base to a depth of 8". The testing of existing material, the design mix may require additional materials as part of the process under this task. These items are:

Additional aggregate materials paid for in Tons,

Emulsified Asphalt, paid for in Gallons,

Additives such as Portland cement or liquid asphalt, paid for in Tons.

and design mix for base stabilization will be included in the SY cost and finished base stabilization will meet FDOT Section 285 Optional Base Group standards.

(III.22) BASIS OF PAYMENT

All bid items specified under (Cold Mix in Place Injection of Existing Unpaved Roads Base Stabilization) shall be paid under respective pay item noted on the Bid Form.

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(III.23) COLD RECYCLED BITUMINOUS BASE COURSE

The work specified in this section includes the in-place construction of a Cold In-Place Recycled (CIR) Bituminous Pavement Layer and shall consist of pulverizing, crushing, and screening of the in- situ bituminous materials to the depth and width shown on the plans. An emulsified asphalt binder agent, water, and other additives, if required, will then be incorporated into the pulverized material and thoroughly mixed. This material will then be spread and compacted in accordance with the plans and specifications and as directed by the County. It is the intent of this Blanket Purchase Order to recycle 100% of the existing asphalt pavement. This will include, but is not limited to, all existing asphalt pavement adjacent to all concrete curbing, storm sewer inlets, manholes, sanitary sewer manholes, and all utility valve boxes. The existing asphalt pavement in the above-described locations must be included in the recycling process in order to construct a bituminous pavement layer uniform in thickness throughout 100% of the proposed area.

Materials

Asphalt Emulsion: The type of asphalt emulsion to be used shall be determined by the mixture design. Bituminous material shall conform to the applicable requirements of the 2010 *FDOT Standard Specifications for Road and Bridge Construction, Section 916*. A representative from the asphalt emulsion supplier will be at the job site at the beginning of the project to monitor the characteristics and performance of the asphalt emulsion. Throughout the job, the representative will be available to monitor the project and make adjustments to the asphalt emulsion formulation as required.

Cold Pulverized Material: The cold pulverized recycled asphalt pavement (hereinafter referred to as RAP) material shall meet the following gradation requirement prior to the addition of the asphalt emulsion.

1) STANDARD		2) METRIC	
Sieve Size	%Passing	Sieve Size	%Passing
1.25"	100	31.5 mm	100

Note: The compacted pavement layer shall be placed at a thickness of a minimum of two (2) times the nominal size of the crushed RAP or 2.5 inches, whichever is greater, and to a maximum of 5 inches.

Mixture Design

A preconstruction mix design(s) shall be submitted to the County by the CIR Successful Bidder using materials obtained directly from the project site prior to construction. Mix design formulations shall be conducted in accordance with the guidelines located in *Appendix 1- Mix Design Procedures for CIR*. Permission to obtain materials from roadway must first be obtained from the County. All core holes must be immediately patched with cold patch. The mix design testing shall be conducted by an AASHTO Materials Reference Laboratory (AMRL) accredited laboratory. Based on RAP consistency throughout project limits, more than one mix design may be required.

SECTION E – TECHNICAL SPECIFICATIONS

The mix design(s) shall be signed and sealed by a registered professional engineer and meet the Mix Design Performance Criteria of *Table 1* and be approved by the County prior to construction.

Table 1 – Mix Design Performance Criteria		
<i>100 mm specimens shall be prepared in a Superpave Gyrotory compactor. The mixture should meet the following criteria at the selected design asphalt emulsion content:</i>		
Property	Criteria	Purpose
Compaction effort, Superpave Gyrotory Compactor AASHTO T312	1.25° angle, 600 kPa stress, 30 gyrations	Density Indicator
Density, ASTM D2726 or equivalent	Report	Compaction Indicator
Gradation for Design Millings, ASTM C117	Report	
*Marshall stability, ASTM D6926, D6927, 40°C	1,250 lb min.	Stability Indicator
**Resistance of Compacted Bituminous Mixture to Moisture Induced Damage AASHTO T283 - Retained stability based on cured stability	70 % min.	Ability to withstand moisture damage
Indirect Tensile Test, AASHTO T322, Modified in <i>Appendix 2</i>	See Note in <i>Appendix 2</i>	Cracking (Thermal)
Raveling Test of Cold-Mixed Bituminous Emulsion Samples ASTM D7196, Modified in <i>Appendix 3</i> , 10°C and 50% humidity	2% max.	Raveling Resistance
<i>* Cured stability tested on compacted specimens after 60°C (140°F) curing to constant weight.</i>		
<i>**Vacuum saturation of 55 to 75 percent, water bath 25°C 23 hours, last hour at 40°C water bath</i>		

Other Additives: If necessary, additives may be used to meet the requirements in Table 1. In the case that an additive is used, the type and allowable usage percentage must be described in the submitted design recommendation.

Addition of Imported Crushed Reclaimed Asphalt Pavement (RAP) Material: If available, imported RAP material may be added at the discretion of the County if the RAP material meets the requirements in *Table 2*. The crushed RAP shall be free from vegetation and all other deleterious materials, including silt and clay balls. It shall meet the requirements for Deleterious Materials given in *Table 2*. The crushed RAP shall not exceed the maximum size requirement in Section 334-2.3 and when blended with the design millings, shall produce a product which meets the specifications given in *Table 1*.

SECTION TECHNICAL SPECIFICATIONS

Table 2 - Imported Crushed RAP Criteria		
Property	Method	Limit
Deleterious Materials: Clay Lumps and Friable Particles in Aggregate, %	ASTM C 142 or AASHTO T112	0.2% maximum
Maximum size and Distribution	ASTM C 136 or AASHTO T 27	Section 334-2.3

Additional Aggregate: Based on the results of mix design testing or other requirements, the CIR Successful Bidder shall determine if additional aggregate (“add-rock”) is required to comply with mix design performance criteria specified in *Table 1*. Any additional aggregate shall meet the criteria specified in *Table 3*, and it shall be graded to produce a pavement layer which meets the mix design performance criteria specified in *Table 1*.

Table 3 - Additional Aggregate Criteria		
Property	Method	Limit
Los Angeles abrasion value, % loss	AASHTO T96	40% maximum
Sand Equivalent, %	ASTM D2419	60% minimum
Maximum size and Distribution	ASTM C 136 or AASHTO T 27	Section 334-2.2
Water absorption %	AASHTO T 85	5%_ maximum

Equipment: Maintain all equipment in a satisfactory operating condition and in accordance with the 2010 FDOT Standard Specifications for Road and Bridge Construction, Section 100. The Cold In-Place Recycling shall be conducted with the equipment specified herein.

Milling Machine: A self-propelled cold milling machine that is capable of pulverizing the existing bituminous material in a single pass to the depth shown on the plans and to a minimum width of not less than 10 feet (3.05 m). The machine shall have automatic depth controls to maintain the cutting depth to within $\pm \frac{1}{4}$ in (6 mm) of that shown on the plans, and shall have a positive means for controlling cross slope elevations. The use of a heating device to soften the pavement will not be permitted.

Material Sizing Unit: A material sizing unit having screening and crushing capabilities to reduce the pulverized bituminous material to the size required by Section 334-2.3 prior to mixing with asphalt emulsion. The screening and crushing unit shall have a closed circuit system capable of continuously returning oversized material to the crusher. All of the RAP (100%) shall be processed to the maximum size requirements as specified.

Mixing Unit: A mixing unit equipped with a belt scale for the continuous weighing of the pulverized and sized bituminous material and a coupled/interlocked computer controlled liquid metering device.

The mixing unit shall be an on-board completely self-contained pugmill. The liquid metering device shall be capable of automatically adjusting the flow of asphalt emulsion to compensate for any variation in the weight of pulverized material coming into the mixer. The metering device shall deliver the amount of asphalt emulsion to within ± 0.2 percent of the required design amount by weight of pulverized bituminous material (for example, if the design requires 3.0 percent, the metering device shall maintain the emulsion amount between 2.8 percent and 3.2 percent). The asphalt emulsion pump should be of sufficient capacity to allow emulsion contents up to 3.5% by weight of pulverized bituminous material. Also, automatic digital readings will be displayed for both the flow rate and total amount of pulverized bituminous material and asphalt emulsion in appropriate units of weight and time.

Pick-Up Machine: A pick-up machine may be used for transferring the recycled material from the windrow to the receiving hopper of the bituminous paver. The pick-up machine shall be capable of removing the entire windrow down to the remaining underlying material.

Bituminous Paver: A self-propelled conventional bituminous paver having electronic grade and cross slope control for the screed shall be utilized. The equipment shall be of sufficient size and power to spread and lay the mixture in one smooth continuous pass to the specified section and according to the plans.

Additive Metering Devices: Any additives such as water, lime slurry, etc. added by the equipment in FDOT sections 3.1-3.6 at the mill head or mixing unit shall be controlled through liquid metering devices capable of automatically adjusting for the variation in the weight of the pulverized material going into the mixing unit.

The metering devices shall be capable of delivering the amount of additive to within ± 0.2 percent of the required design amount by weight of the pulverized bituminous material. A capability of adding up to 5% water by weight of the pulverized bituminous material, if necessary based on environmental and material requirements, is required. It will not be required to meter the water added at the milling machine to control dust in the screens, belts, or crusher/material sizing unit.

Rollers: All rollers shall be self-propelled. The number, weight and types of rollers shall be as necessary to obtain the required compaction. Employing at least one pneumatic-tired roller shall have a minimum gross operating weight of not less than 50,000 lbs. (22,600 kg) is recommended. Pneumatic rollers must have properly working scrapers and water spraying systems. In addition, employing at least one double drum vibratory steel-wheeled roller shall have a gross operating weight of not less than 20,000 lbs. (9,000 kg) and a width of 78 inches (1980 mm) is recommended. Double drum vibratory rollers must have properly working scrapers and water spraying systems.

Power Broom - A self-propelled power broom for removal of loose particles and other materials from the Recycled Pavement Layer surface shall be utilized. The broom shall have positive control on the downward pressure applied to the surface.

SECTION E – TECHNICAL SPECIFICATIONS

Construction Methods

Removal of Vegetation: Grass and other vegetation shall be removed from the edge of the existing pavement to prevent contamination of the pulverized bituminous material during the milling operation.

Milling: The existing pavement shall be milled to the required depth and width as indicated on the plans. Recycling shall be in a manner that does not disturb the underlying material in the existing roadway. The milling operation shall be conducted so that the amount of fines occurring along the vertical faces of the cut will not prevent bonding of the cold recycled materials. Use a small milling machine, if necessary, to mill longitudinally to the required depth as indicated on the plans along all curbs and gutters, utilities, inlets, around all manholes and any other structures not accessible or practical to be milled by the milling/mixing machine utilities.

The millings produced by the small mill will be the same as the large mill and of equal gradation to produce a uniform recycled pavement layer. Inlets/Catch Basins must be covered during the milling and recycling operation to prevent milled material from entering the catch basin area where it could contaminate and/or block the storm water system.

Processing: The pulverized bituminous material shall be processed by screening and crushing to the required gradation specified in FDOT Section 334-2.2. When a paving fabric is encountered during the CIR operation, the Successful Bidder shall make the necessary adjustments in equipment or operations so that at least ninety percent (90%) of the shredded fabric in the recycled material is no more than 5 in² (3200 mm²). Additionally, no fabric piece shall have any dimension exceeding a length of 4 inches (100 mm). These changes may include, but not be limited to, adjusting the milling rate and adding or removing screens in order to obtain a specification recycled material.

The Successful Bidder shall be required to waste material containing over-sized pieces of paving fabric as directed by the County. When the Successful Bidder is aware that paving fabric exists, such as indicated on the plans, the Successful Bidder will not receive additional payment. However, if the Successful Bidder is not made aware of the paving fabric, then the Successful Bidder shall receive additional payment for any necessary adjustments in equipment and operations.

Mixing: The recycled material shall be produced through a mixing unit capable of processing the pulverized material, asphalt emulsion and any additives to a homogeneous mixture. The asphalt emulsion shall be incorporated into the pulverized bituminous material at the initial rate determined by the mix design(s) and approved by the County.

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Spreading: The material shall be spread using a self-propelled paver meeting the requirements of either paver in FDOT Sections 334-3.5 or 334-3.6. Heating of the paver screed will not be permitted. A pick-up machine may be used to transfer the windrowed material into the paver hopper if using a conventional paver as listed in FDOT Section 3.5. The pickup machine must be within 150 feet (45 m) of the mixing unit described in FDOT Section 334-4.4. The recycled material shall be spread in one continuous pass, without segregation and to the lines and grades established by the County.

Compaction: Compaction of the recycled mix shall be completed to thickness requirements of FDOT Section 334-2.2. During initial construction, rolling patterns and sequences shall be established through the construction of a control strip, approximately 400 feet in length and produced with the CIR equipment within the pavement section, to determine procedures that result in optimum compaction. Passes with various combinations of rollers and relative increases in density with roller passes shall be evaluated. The number of passes that results in no further increase in wet density and achieves the degree of compaction specified in FDOT *Section 334-5.8* shall be selected as the rolling pattern and will establish a target wet density. Degree of compaction and wet density shall be measured using a nuclear moisture-density gauge in accordance with ASTM D2950, backscatter measurement mode.

Commence rolling once the emulsion has started to break. In all cases, the longitudinal joint must first be rolled followed by the rolling pattern established by the test strip. The selected rolling pattern shall be followed unless changes in the recycled mix or placement conditions occur and the established rolling pattern is causing damage to the mat or the required degree of compaction is unachievable.

These circumstances require the establishment of new rolling patterns and sequences through the construction of a new control strip. Rolling should start no more than 30 minutes behind the paver. Finish rolling should be completed no more than one hour after milling is completed. The following is the recommended rolling procedure:

Employ rollers meeting the requirements of FDOT Section 334-3.7. The longitudinal joint shall first be rolled followed by the rolling pattern established by the test strip. The initial pass for the rolling pattern established by the test strip should begin on the low side and progress to the high side by overlapping of longitudinal passes parallel to the pavement centerline. Rollers shall be operated at speeds appropriate for the type of roller and necessary to obtain the required degree of compaction and prevent defects in the mat. Rolling shall be continued until no displacement is occurring or until the pneumatic roller(s) is (are) walking out of the mixture. Final rolling to eliminate pneumatic tire marks and to achieve density shall be done by double drum steel roller(s), either operating in a static or vibratory mode. Vibratory mode should only be operated at a speed, frequency and amplitude shown not to damage the pavement.

When possible, rolling shall not be started or stopped on uncompacted material but with rolling patterns established so that they begin or end on previously compacted material or the existing pavement.

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Return of Traffic: After the completion of compaction of the recycled pavement layer, no traffic, including that of the Successful Bidder, shall be permitted on the completed recycled material for at least two (2) hours. After two hours rolling traffic may be permitted on the recycled material. This time may be adjusted by the County to allow establishment of sufficient cure so traffic will not initiate raveling. After opening to traffic, the surface of the recycled pavement layer shall be maintained in a condition suitable for the safe movement of traffic. All loose particles that may develop on the pavement surface shall be removed by the CIR Successful Bidder by power brooming.

Protection and Damage: Protect the recycled pavement layer in accordance with the *2007 FDOT Standard Specifications for Road and Bridge Construction, Section 330-13*. Any damage to the completed Cold in Place Recycled bituminous material shall be repaired by the Successful Bidder prior to the placement of the hot mix asphalt concrete surface course, or other applicable surface treatment, and as directed by the County. Damage unrelated to Successful Bidder construction procedures or quality of work, such as due to poor base conditions, shall be paid for under the pay item, "Recycled Material Patching."

Finished Recycled Pavement Layer Smoothness: The completed cold recycled pavement layer surface shall not vary more than $\frac{1}{4}$ in (6 mm) from the lower edge of a 10-foot (3-meter) straight edge placed on the surface parallel and transversely to the centerline at locations selected by the County. Irregularities exceeding the specified limit shall be corrected at the expense of the Successful Bidder by grinding/cold milling or leveling with cold or hot mix asphalt. The corrected areas shall be retested to determine compliance with smoothness.

Curing: Prior to placing the hot mix asphalt concrete surface course, or other applicable surface treatment, the recycled pavement layer shall be allowed to cure until the moisture of the material is reduced to 2.0 percent or less, or until approval of the

County. Under dry conditions, the Cold In-Place Recycled pavement layer should meet the moisture requirements within 48 hours.

Quality Control

Successful Bidder Responsibility: The Successful Bidder shall be responsible for providing field and laboratory quality control testing of materials during construction. The County may conduct sampling and testing whenever or as often as desired for verification purposes. The Successful Bidder shall acquire an adequate amount of material for each sample to be tested in the laboratory so that an ample amount of material is left over in case of the need for resolution testing. Resolution testing will be required and provided at the expense of the Successful Bidder if similar laboratory samples tested by the Successful Bidder and the County do not coincide within reasonable values as determined by the County. The resolution laboratory will be selected by the County and the testing results provided by this lab will be used for materials acceptance purposes.

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All materials testing laboratories shall be accredited by the AASHTO Materials Reference Laboratory (AMRL) or Construction Materials Engineering Council (CMEC). The Successful Bidder shall submit all documentation of field inspection and laboratory testing results required herein to the County prior to payment and upon request. Copies of all delivery tickets and notes regarding any materials brought to the project site shall be given to the County upon delivery to the project site. These tickets shall be signed by an approved representative of the Successful Bidder at the time of delivery.

Crushed RAP Material Sizing: A sample shall be obtained from the receiving hopper of the paver each ½ mile (0.8 km) before the addition of emulsion and screened using a 1.25 in. (31.5mm) sieve (or smaller sieve if required) to determine maximum particle size requirement compliance. Additionally, two gradations shall be performed at approximately the middle and end of each day's production and in accordance with AASHTO T27 or ASTM C136 on the moist millings using the following sieves: 1.25 inch, 1.0 inch, ¾ inch, ½ inch, 3/8 inch, No.4, No.8, No.16, and No.30. The resulting gradations shall be compared to the mix design gradations to determine any necessary changes to emulsion content. Gradation results shall be shared with the County by the end of the following day. Sampling procedures shall be in accordance with ASTM D979 or AASHTO T168.

Asphalt Emulsion: The asphalt emulsion shall be received on the job site within the temperature ranges specified by the emulsion supplier. The emulsion supplier shall provide testing results for each shipment indicating the emulsion is in compliance with the criteria specified in *Table 4*. The County may require the Successful Bidder to obtain emulsion samples from each shipping trailer prior to unloading into the Successful Bidder's storage units for quality control testing if desired. The testing shall meet the following requirements:

Table 4 – Emulsion Criteria		
Property	Method	Limit
*Residue from distillation, %	ASTM D244	64.0 to 66.0 %
*Oil distillate by distillation, %	ASTM D244	0.5% maximum
Sieve Test, %	ASTM D244	0.1% maximum
**Residue Penetration, 25°C, dmm	ASTM D5	-25 to +25%
<i>*Modified ASTM D244 procedure – distillation temperature of 177°C with 20 minute hold.</i>		
<i>*To be determined during CIR design phase prior to emulsion formulation and manufacture for project. Penetration value range will be determined and submitted to the County for approval prior to project start</i>		

Asphalt Emulsion Content and Yield: Total emulsion quantity and yield shall be monitored and recorded daily and for each segment in which the target emulsion percentage is adjusted. This information shall be gathered from the calibrated emulsion metering device. Emulsion content adjustments shall be made appropriately when multiple and specific mix designs for different road segments of varying composition exist.

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Water Content and Yield: Total water quantity and yield shall be monitored and recorded daily and for each segment in which the target water percentage is adjusted. This information shall be gathered from the water metering device. Water content adjustments shall be made appropriately when multiple and specific mix designs for different road segments of varying composition exist. Water content adjustments shall also be made based on mixture consistency, coating, and dispersion of the recycled materials.

Mixture Testing: At the discretion of the County and if the recycled pavement layer quality and workmanship seem suspect, the Successful Bidder may be required to sample, in accordance with ASTM D3665 and D979, the recycled mixture for determining compliance with design criteria specified in *Table 1*. If samples of the recycled asphalt pavement mixture are taken after the addition of additives and emulsion, the specimens must be compacted within 15 minutes of sampling and tested as required in *Table 1*. If the recycled mixture is sampled prior to the addition of additives and emulsion, the sample must immediately be transferred to air-tight plastic container to prohibit loss of moisture. Samples must be mixed in the laboratory with the field additives and emulsion within 24 hours and tested as required in *Table 1*.

Depth of Pulverization (Milling): The depth shall be checked and recorded daily and every 1/8 mile (0.2 km) on both outside vertical faces of the cut. Measure depth by placing a rigid measuring device perpendicular to the bottom of the milled surface and near the vertical faces of the cut.

Compacted Density: Degree of compaction of the recycled pavement layer shall be monitored for compliance with target wet density established during the initial control strip construction. Wet density shall be determined every 1/4 mile (0.4 km) using a nuclear moisture-density gauge in accordance with ASTM D2950, backscatter measurement mode. Ensure that all nuclear gauges are operated by licensed individuals and have been calibrated within the last 12 months. The acceptable degree of compaction shall be 96 to 98 percent of target wet density. Care shall be taken not to over-roll the mat based on visual observations of check cracking or shoving. A new control strip and target density shall be established if the consistency of the material being recycled changes. The County shall be notified prior to the construction of a new control strip.

Cross-Slope and Smoothness: The recycled pavement layer cross slope shall be checked regularly during spreading. A cross-slope of 2 %, unless otherwise specified in the construction plans, shall be maintained through the length of the project. When the difference between the measured cross slope and designed cross slope exceeds +/- 0.2% for travel lanes and +/- 0.5% for shoulders, operations shall be stopped until corrective actions are taken to bring the cross slope into an acceptable range. The recycled pavement layer shall be checked for smoothness regularly behind the paver and after rolling. The smoothness shall not vary more than 1/4 in (6 mm) from the lower edge of a 10-foot (3-meter) straight edge placed on the surface parallel and transversely to the centerline after rolling is completed.

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Correct all deficiencies in excess of ¼ in (6 mm) and retest to verify smoothness adequacy. It is recommended that the edge of the mat be rolled first and progress to the center or high side to prevent excessive edge sloughing.

Table 5 – Quality Control Testing and Inspection Criteria		
Property	Method	Limit
RAP Maximum Particle Size	ASTM C 136 or AASHTO T27	Section 334-2.2
RAP Particle Size Distribution	ASTM C 136 or AASHTO T27	Determined by Mix Design(s)
Emulsion and Water Yield	Calibrated Metering Device	Determined by Mix Design(s)
*Mixture Testing	Table 1	Table 1
**Depth of Milling	Section 334-5.7	Determined by Mix Design(s)
Compacted Density	ASTM D2950	96 to 98% of target density
Cross-Slope	FM 5-509	2% unless otherwise indicated
Smoothness	FM 5-509	Maximum 0.25 in (6 mm) deviation from planeness
<i>*Mixture Testing frequency shall be at the County's discretion</i>		
<i>**Depth of Milling may need to be adjusted for localized unexpected pavement conditions</i>		

Weather Limitations: Cold In-Place recycling operations shall be completed when the atmospheric temperature measured in the shade and away from artificial heat is at least 50° F (10°C). Also, the weather shall not be foggy or rainy. The weather forecast shall not call for freezing temperature within 48 hours after placement of any portion of the project.

Measurement

(III.23) COLD RECYCLED BITUMINOUS BASE COURSE

The Cold In-Place Recycling (CIR) work will be measured by the square yard of the completed sections for the depth specified. The asphalt emulsion will be measured by the ton or gallon. Additional aggregate, additional reclaimed asphalt pavement (RAP) materials and other additives will be measured by the ton (or metric ton). Water used in this operation will not be paid for directly but shall be considered incidental to this bid item.

(III.24) SURVEYING

The work specified in this section includes all equipment, labor and material required for a Florida Licensed Surveyor to establish grade lines, boundaries, rights of way, geometric layout, plan, and profile drawings, staking, etc. on construction projects. This cost does not include record drawings. No research or office work will be paid unless approved in writing prior by the project manager. It is the intent of this to be used for field work.

SECTION E – TECHNICAL SPECIFICATIONS

(III.25) TREE REMOVAL & DISPOSAL

The work specified in this section includes all equipment and labor required to remove, load and dispose of the entire tree from the ground up based on the width of the tree at a height of 6' off the ground. Stump grinding is not included in this price.

(III.26) 6' CONCRETE CURB STOPS

The work specified in this section includes furnishing and installation of concrete curb stops. Curb stop must meet the most current Florida Building codes.

SECTION IV - BASE & SURFACE CONSTRUCTION

(IV.2) SAND-ASPHALT HOT MIX – SAND-ASPHALT HOT MIX – 1200#

STABILITY

The work specified in this section includes constructing a sand-asphalt hot mix base course, leveling course, or surface course.

Meet the requirements for plant and equipment as specified in FDOT Section 320. Meet the general construction requirements for all asphalt concrete pavements and bases as specified in FDOT Section 330. Meet the sand-asphalt base course construction requirements as specified in FDOT Section 280.

The County will accept work on a LOT by LOT basis in accordance with the applicable requirements of FDOT Section 331. The County will determine the size of the LOT as specified in 331-6 for the bituminous mixture accepted at the plant and as specified in 331-7 for material accepted on the roadway.

Materials

Bituminous Material: Use Superpave PG Asphalt Binder or Recycling Agent meeting the requirements of 916-1 or 916-2.

Aggregate

General: Use aggregate material composed of one or more of the following:

- a. Local sand.
- b. A blend of local sands.
- c. A local sand with some additive, such as mineral filler, commercial sand, crushed shell, rock screenings, or other approved material. Meet the commercial material requirements specified in Division III.

- d. Manufactured aggregate.

Restrict the maximum size of the aggregate material using scalping screens having an opening of 5/8 inch [16.0 mm] square. Ensure that the material is

SECTION E – TECHNICAL SPECIFICATIONS

graded from course to fine, and that it all passes a 1/2 inch [12.5 mm] sieve. Do not use aggregate or mineral filler containing more than 1% of phosphate.

Sand: Use sharp and nonplastic local sand, containing not more than 7% by weight of clay, composed of hard, durable grains free of loam, roots, and other deleterious substances, and suitable for use in a bituminous mix, as determined by laboratory tests. If the local sand deposit consists of stratified layers of varying characteristics and gradation, employ such means as necessary to secure a uniform material. Should the loss of fines during drying operations be such that the stability of the mixture is reduced below the minimum specified, add mineral filler or other approved material in such quantities as necessary to compensate for the loss in stability. Ensure that any clay present is the type which will not produce clay balls in the mixture.

Mineral Filler: If needed, meet the requirements of FDOT Section 917.

Testing: The County will sample all materials shipped to the asphalt plant at their destination.

Composition of Mixture

General: Use a bituminous mixture composed of a combination of fine aggregate, mineral filler if required, and bituminous material. Size, uniformly grade, and combine the aggregate fractions in the proportions specified in Table 331-1 so that the resulting mixture meets the physical properties and the requirements of the verified mix design.

The Successful Bidder may use RAP meeting the requirements of FDOT 331-2.2.4 as a substitution for a portion of the combination of aggregates. If using RAP, the Successful Bidder may use a recycling agent in accordance with the requirements of FDOT 331-2.2.5. The Successful Bidder may use recycled crushed glass meeting the requirements of 331-2.2.6 as a substitution for a portion of the combination of aggregates.

Mix Design

General: Meet the mix design requirements of FDOT 331-4.3. In addition to these requirements, include, in the mix design, test data showing that the material as produced will meet the requirements of Table 331-2.

Grading Requirements: Meet the requirements of FDOT 332-2.2 for aggregate combination including mineral filler.

Stability: Combine the constituents of the mixture in such proportions as to produce a mixture having Marshall Properties within the limits shown in Table 331-2.

Successful Bidder's Quality Control: Provide the necessary quality control of the bituminous mixture and construction in accordance with the applicable provisions of FDOT 331-4.4 and 331-5.2.

SECTION E – TECHNICAL SPECIFICATIONS

Furnish materials that meet the verified mix design. For extraction gradation analysis, meet the provisions of FDOT 331-4.4.2 and Table 331-3. For plant calibration, meet the provisions of FDOT 331-4.4.3 and Table 331-3.

Acceptance of Mixture

Acceptance at the Plant: The County will accept the bituminous mixture at the plant with respect to gradation and asphalt content in accordance with the applicable requirements of FDOT 331-6.

Acceptance on the Roadway: The County will accept the bituminous mixture on the roadway with respect to compacted density and surface tolerance in accordance with the provisions of FDOT 331-7.

Additional Tests: The County will apply the provisions of FDOT 331-6.4 to Sand- Asphalt Hot Mix.

Method of Measurement

The quantity to be paid for will be the weight of the mixture, in tons, completed and accepted. The weight will be determined as provided in FDOT 320-2 (including the provisions for the automatic recordation system).

The bid price for the asphalt mix will include the cost of the liquid asphalt or the asphalt recycling agent.

(IV.2) BASIS OF PAYMENT

All bid items specified shall be paid under the ton pay item noted on the Bid Form.

(IV.3) ASPHALTIC BASE COURSE

The work specified in this section includes the construction of asphalt base courses, and to meet the specific requirements for base widening construction.

The County will accept work on a LOT to LOT basis in accordance with the applicable requirements of FDOT Section 331. The County will determine the size of the LOT as specified in FDOT 331-6 for the bituminous mixture accepted at the plant and as specified in FDOT 331-7 for the material accepted on the roadway.

Use mixes designated as Asphalt Base Course Type 1 (ABC-1), Asphalt Base Course Type 2 (ABC-2) and Asphalt Base Course Type 3 (ABC-3).

Materials

Bituminous Material: Use Superpave PG Asphalt Binder or Recycling Agent meeting the requirements of 916-1.

Course Aggregates: Meet the requirements of FDOT Section 901.

SECTION E – TECHNICAL SPECIFICATIONS

Fine Aggregates: Meet the requirements of FDOT 335-2.2.

General Composition of the Mixes

General: Meet the requirements of FDOT 332-3.1.

Grading Requirements: The mix design, as established by the Successful Bidder and approved by the County, shall be within the design ranges as specified in FDOT Table 331-1, for ABC-1, ABC-2, and ABC-3.

Stability: Meet the requirements of FDOT 332-3.3.2.

Job Mix Formula

Meet the requirements of FDOT 332-3.3.1.

Successful Bidder's Quality Control

Meet the requirements of FDOT 332-3.4.

Acceptance of Mixture

Acceptance at the Plant: The County will accept the bituminous mixture at the plant with respect to gradation and asphalt content in accordance with the requirements of 331-6.

Acceptance on the Roadway: The County will accept the bituminous mixture on the roadway with respect to compacted density in accordance with the applicable provisions of 331-7. Use the permissible variations from longitudinal and transverse grades as specified in 200-7.

Additional Tests: Meet the requirements of FDOT 331-6.4 for ABC-1, ABC-2, and ABC-3.

Plant, Methods, and Equipment

Meet the plant, methods, and equipment requirements for asphalt base course construction as specified in FDOT Section 320, with the following modifications:

(a) Paving Equipment: The County will not require mechanical spreading and finishing equipment for the construction of base widening strips less than 6 feet [1.8 m] in width.

(b) Compacting Equipment: For compaction in areas too restricted to accommodate the standard rollers, the Successful Bidder may use vibratory rollers supplemented with trucks, motor graders, or other compaction equipment approved by the County.

Construction Requirements

General: Meet the construction requirements for asphalt base course construction as specified in FDOT Section 330, with the following modifications and specific requirements.

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Limitations for Spreading: The Successful Bidder may place the base mix on the subgrade when the air temperature is at least 40°F [4°C] and rising, provided the subgrade upon which the base mix is to be placed is not frozen or noticeably affected by frost. The Successful Bidder may place the base mix where he removed all such frozen or frost-affected material during excavation for the subgrade.

Preparation of Subgrade: Before placing the initial layer of base material, prepare and compact the subgrade as specified in 160-8. Do not apply this requirement to base widening strips that are not to be stabilized and where the underlying native material has not been disturbed.

Tacking Between Layers: Place a tack coat between each successive layer of base material. As an exception, the County may authorize the elimination of the tack coat between successive layers when the Successful Bidder has laid them on the same day and the initial layer has not become contaminated by sand, dust, etc. Place a tack coat on all asphalt base courses before placing the structural course.

Placing the Mixture

Spreading and Finishing: Place the base course material with a mechanical spreading and finishing machine meeting the requirements as specified in 320-5. Prior to the placing of the surface course, the County may require motor grader leveling to bring the base into conformance with the plan grades and cross-section. The Successful Bidder may spread the first course of multiple course bases with a motor grader where the subgrade will not support the use of a mechanical spreader.

Automatic Screed Control: For all machine-laid courses, use a paver that is equipped with automatic screed control of the ski or traveling string line type. Use the automatic joint matcher on the top course of the base after the first pass with the paving machine.

Thickness of Layers: Ensure that the maximum compacted thickness of any layer of asphalt base course is 3 inches [75 mm].

Compacting the Mixture: Apply the requirements for compaction as specified in 330- 10 to the compaction of asphalt base courses with these two exceptions:

1. For widening strips 3 feet [1 m] or less in width, the County will not perform density testing for acceptance. The Successful Bidder may apply the compactive efforts using a trench roller, motor grader tires, or any other heavy equipment that will effectively exert a compactive effort. Specify what equipment will be used and what compactive effort (coverage) will be furnished. Obtain the County's approval before starting the operation.

2. For the initial layer of an asphalt base course placed on a soil subgrade, the County will not perform any density determinations. Propose a rolling train and pattern for the approval of the County. The County will perform density determinations on all subsequent layers, and apply the provisions of FDOT 331-7.

SECTION E – TECHNICAL SPECIFICATIONS**Thickness Requirements**

Meet the requirements of FDOT 285-6.

Calculations for Average Thickness of Base

Meet the requirements of FDOT 285-7.

Method of Measurement

The quantity to be paid for will be the weight of the mixture, in tons, completed and accepted. The weight will be determined as provided in FDOT 320-2 (including the provisions for the automatic recordation system). The bid price for the asphalt mix will include the cost of the liquid asphalt or the asphalt recycling agent.

(IV.3) BASIS OF PAYMENT

All bid items shall be paid under the ton pay item noted on the Bid Form.

(IV.6) EAM COLD MIX

The work specified in this section consists of bituminous patching mixes that are designed in various seasonal grades to be used when the ambient outside temperature reaches a specified range.

A few examples of the bituminous cold patch material are Unique Paving Materials (www.uniquepavingmaterials.com) and EZ Street (www.ezstreetasphalt.com).

(IV. 6) BASIS OF PAYMENT

All bid items specified shall be paid under the ton pay item noted on the Bid Form.

SECTION IV
TYPE S ASPHALT CONCRETE. QUALITY
ASSURANCE AND ACCEPTANCE PROCEDURES**(IV.7) ASPHALTIC CONCRETE TYPE S-I AND (IV.8) ASPHALTIC CONCRETE**

The work specified in this section includes the construction of a Type S Asphalt Concrete course (using the Quality Assurance acceptance system) using the type of mixture specified in the specification, or when offered as alternates, as selected. If offered as alternates, meet the layer thickness criteria specified in 331-1.2. Type S mixes are identified as Type S-I, Type S-II, or Type S-III. The composition and physical test properties for all mixes including Type S Asphalt Concrete are shown in Tables 331-1 and 331-2. This Section establishes Acceptance Procedures for materials and work performed under FDOT Sections 280, 290, 331, 332, 333, 335, and 337.

Where Type S Asphalt Concrete is specified in the specification, if approved by the County, the equivalent fine Type SP Asphalt Concrete mixture (Traffic Level C) meeting the requirements of FDOT Section 334 may be selected as an alternate at no additional cost to the County. The equivalent mixes are as follows:

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Type S-I Type SP-12.5
 Type S-II Type SP-19.0
 Type S-III Type SP-9.5

Meet the requirements for plant and equipment specified in FDOT Section 320. Meet the general construction requirements specified in FDOT Section 330.

Table 331-1 Bituminous Concrete Mixtures (Gradation Design Range)								
Type	Total Aggregate Passing Sieves ¹							
	3/4 inch [19.0 mm]	1/2 inch [12.5 mm]	3/8 inch [9.5 mm]	No. 4 [4.75 mm]	No. 10 [2.0 mm]	No. 40 [425 µm]	No. 80 [180 µm]	No. 200 [75 µm]
S-I ⁵	100	88-98	75-93	47-75	31-53	19-35	7-21	2-6
S-II ²	83-98	71-87	62-78	47-63	33-49	19-35	9-18	2-6
S-III ⁵		100	88-98	60-90	40-70	20-45	10-30	2-6
Type II		100	90-100	80-100	55-90			2-12
Type III		100	80-100	65-100	40-75	20-45	10-30	2-10
SAHM		100						0-12
ABC-1		100						0-12
ABC-2		100			55-90			0-12
ABC-3 ³	70-100			30-70	20-60	10-40		2-10
FC-2 ⁴		100	85-100	10-40	4-12			2-5
FC-3 ⁵		100	88-98	60-90	40-70	20-45	10-30	2-6

¹ In inches [mm] or sieves [µm].
² 100% passing 1 1/4 inch [31.5 mm] sieve and 94 to 100% passing 1 inch [25.0 mm] sieve.
³ 100% passing 1 1/2 inch [37.5 mm] sieve.
⁴ The County may increase the design range for the No. 10 [2.00 mm] sieve for lightweight aggregates.
⁵ The County may retain up to 1% on the maximum sieve size.

Table 331-2 Non SI Units Marshall Design Properties For Bituminous Concrete Mixes						
Mix Type	Minimum Marshall Stability (lbs.)	Flow** (0.01 in.)	Minimum VMA (%)	Air Voids (%)	Minimum Effective Asphalt Content (%)	VFA Voids Filled with Asphalt (%)
S-I	1,500*	8-13	14.5	4-5	***	65-75
S-II	1,500*	8-13	13.5	4-5	***	65-75
S-III	1,500*	8-13	15.5	4-6	***	65-75
Type II	500-750	7-15	18	5-16	6.0	-
Type III	750-1,000	7-15	15	5-12	5.5	-
SAHM	300-500	7-15	15	5-16	6.0	-

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ABC-1	500	7-15	15	5-16	6.0	-
ABC-2	750	7-15	15	5-14	5.5	-
ABC-3	1,000	8-13	14	4-7	***	65-78
FC-2	-	-	-	-	-	-
FC-3	1,500	8-13	15.5	4-6	***	65-75

*The minimum Marshall Stability for Type S mixes used on limited access facilities (Interstate, Turnpike, and Expressways) shall be 1,800 lbs.

**The maximum Flow value during production shall not exceed one point more than shown in the Table.

***The ratio of the percentage by weight of total aggregate passing the No. 200 sieve to the effective asphalt content expressed as a percentage by weight of total mix shall be in the range of 0.6 to 1.2.

**Table 331-2 SI Units
Marshall Design Properties For Bituminous Concrete Mixes**

Mix Type	Minimum Marshall Stability (kN)	Flow** (mm)	Minimum VMA (%)	Air Voids (%)	Minimum Effective Asphalt Content (%)	VFA Voids Filled with Asphalt (%)
S-I	6.7*	2.0-3.3	14.5	4-5	***	65-75
S-II	6.7*	2.0-3.3	13.5	4-5	***	65-75
S-III	6.7*	2.0-3.3	15.5	4-6	***	65-75
Type II	2.2-3.3	1.8-3.8	18	5-16	6.0	-
Type III	3.3-4.4	1.8-3.8	15	5-12	5.5	-
SAHM	1.3-2.2	1.8-3.8	15	5-16	6.0	-
ABC-1	2.2	1.8-3.8	15	5-16	6.0	-
ABC-2	3.3	1.8-3.8	15	5-14	5.5	-
ABC-3	4.4	2.0-3.3	14	4-7	***	65-78
FC-2	-	-	-	-	-	-
FC-3	6.7	2.0-3.3	15.5	4-6	***	65-75

*The minimum Marshall Stability for Type S mixes used on limited access facilities (Interstate, Turnpike, and Expressways) shall be 8.0 kN.

**The maximum Flow value during production shall not exceed 0.25 mm more than shown in the Table.

***The ratio of the percentage by weight of total aggregate passing the 75µm sieve to the effective asphalt content expressed as a percentage by weight of total mix shall be in the range of 0.6 to 1.2.

The County will accept the work on a LOT to LOT basis in accordance with the applicable requirements of FDOT Sections 5, 6, and 9. The size of the LOT will be as specified in 331-6 for the bituminous mixture produced at the plant and as stipulated in 331-7 for the material placed on the roadway.

SECTION E – TECHNICAL SPECIFICATIONS

Layer Thicknesses:

Structural Layers: The allowable layer thicknesses for Type S Asphalt Concrete mixtures used in structural and overbuild applications is as follows:

Type S-III	3/4 – 1 ¼ inches [20 – 30 mm]
Type S-I	1 ¼ – 2 1/2 inches [30 – 60 mm]
Type S-II	2 – 2 ¾ inches [50 – 70 mm]

In addition to the minimum and maximum thickness requirements, the following restrictions are placed on Type S mixtures when used as a structural course:

Type S-III – Limited to the final (top) structural layer, one layer only.

Type S-I – May not be used in the first layer of courses over 3 1/2 inches [90 mm] thick, nor in the first layer of courses over 2 ¾ inches [70 mm] thick on limited access facilities.

Type S-II – May not be used in the final (top) structural layer.

Additional Requirements: The following requirements also apply to Type S Asphalt Concrete mixtures:

1. A minimum 1 1/2 inch [40 mm] initial lift is required over an Asphalt Rubber Membrane Interlayer (ARMI).
2. When construction includes the paving of adjacent shoulders (#5 feet [#1.5 m] wide), the layer thickness for the upper pavement layer and shoulder shall be the same and paved in a single pass, unless shown differently in the plans.
3. All overbuild layers shall be Type S asphalt concrete. Use the minimum and maximum layer thicknesses as specified in 331-1.2.1 unless shown differently in the plans. On variable thickness overbuild layers, the minimum allowable thickness may be reduced by 1/2 inch [13 mm], and the maximum allowable thickness may be increased 1/2 inch [13 mm], unless shown differently in the plans. Other variations from these thicknesses must be approved by the County.

Materials

General Requirements: Meet the material requirements specified in Division III. Specific references are as follows:

Superpave PG Asphalt Binder or Recycling Agent	916-1, 916-2
Mineral Filler	917-1, 917-2
Coarse Aggregate, Stone, Slag or Crushed Gravel	Section 901
Fine Aggregate	Section 902

Asphalt concrete mixes containing crushed gravel as coarse aggregate component must show no potential for stripping during laboratory testing for mix design verification. Crushed Reclaimed Portland Cement Concrete Pavement may be used as a coarse aggregate or screenings component subject to meeting all applicable specifications.

SECTION E – TECHNICAL SPECIFICATIONS**Specific Requirements**

Condition of Aggregate: Use clean aggregate containing no deleterious substances. Do not use coarse or fine aggregate which contains more than 0.5% of phosphate.

Fine Aggregate and Mineral Filler: In laboratory tests, and for the purpose of proportioning the paving mixture, consider all material passing the No. 10 [2.00 mm] sieve and retained on the No. 200 [75 µm] sieve as fine aggregate, and the material passing the No. 200 [75 µm] sieve as mineral filler.

Screenings: Do not use any screenings in the combination of aggregates containing more than 15% of material passing the No. 200 [75 µm] sieve. When two screenings are blended to produce the screening component of the aggregate, one of such screenings may contain up to 18% of material passing the No. 200 [75 µm] sieve, as long as the combination of the two does not contain over 15% material passing the No. 200 [75 µm] sieve. Screenings may be washed to meet these requirements.

Use of Reclaimed Asphalt Pavement (RAP): Subject to certain requirements, Reclaimed Asphalt Pavement (RAP) may be used as a component material of the asphalt mixture. Where the material is recovered from a FDOT project, the Composition of Existing pavement may be available on the County's website. The URL for obtaining this information, if available, is:

<http://www11.myflorida.com/statematerialsoffice/Bituminous/CentralBitLab/AsphaltCompositions/Compositions.htm/>

RAP may be used as a component material of the bituminous mixture subject to the following:

1. Assume responsibility for the design of asphalt mixes which incorporate RAP as a component part.
2. Do not allow RAP to exceed 60% by weight of total aggregates for Asphalt Base Courses nor more than 50% by weight of total aggregates for Structural and Leveling Courses. Do not use RAP in Friction Courses.
3. Mount a grizzly or grid with openings of a sufficient size to prevent clogging of the cold feed over the RAP cold bin.
4. Use a grizzly or grid over the RAP cold bin, in-line roller crusher, screen, or other suitable means to prevent oversized RAP material from showing up in the completed recycled mixture.
5. If oversized RAP material appears in the completed recycled mix, cease plant operations and take appropriate corrective action.
6. Ensure that the RAP material as stockpiled is reasonably uniform in characteristics and contains no aggregate particles which are soft or conglomerates of fines.

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7. Ensure that the RAP has a minimum average asphalt content of 4% by weight of total mix. The County reserves the right to sample the stockpile in order that this requirement is met.

8. When material milled from the project is used as a component of the asphalt mixture and a Composition of Existing Pavement is known, use the following procedures for obtaining representative samples for the mix design:

9. Cut ten 6-inch [150 mm] cores in area(s) approved by the County. Fill the core holes immediately prior to opening to traffic.

10. Representative samples may also be obtained by milling the existing pavement to the full depth shown on the plans for pavement removal for a length of approximately 200 feet [60 m]. Immediately replace the pavement removed with the specified mix in the Specification.

11. Submit a request in writing to the County for any variance from the above outlined methods of obtaining samples for mix designs.

12. When the RAP to be used as a component in a mix design is stockpiled from a previous DOT project and the Composition of Existing Pavement is known, design the mix and submit to the County for verification.

13. When the composition of stockpiled RAP to be used as a component in a mix design is not known, design the mix as follows:

14. Submit a bag of RAP, composed of samples from several locations in the stockpile(s), to the County at least four weeks prior to the planned start of mix design. The County will run viscosities on the reclaimed asphalt pavement and furnish the information to the Successful Bidder.

15. Run a minimum of six extraction gradation analyses of the RAP. Take the samples at random locations around the stockpile(s).

16. Request the County to make a visual inspection of the stockpile(s) of RAP. Based on visual inspection, the County will determine the suitability of the stockpiled materials.

17. When the proposed mix design is submitted to the County for verification, submit the data from the extraction gradation analyses required above.

Binder for Mixes with RAP: Use a PG 67-22 where RAP is less than 20% by weight of total aggregate; use a PG 64-22 where RAP is 20% or greater but less than 30% by weight of total aggregate; use appropriate recycle agent where RAP is 30% or greater.

SECTION E – TECHNICAL SPECIFICATIONS

The County reserves the right to change binder type and grade at design based on the characteristics of the RAP binder, and reserves the right to request reasonable changes during the production based on the requirements of 331-4.4.4.

Use of Recycled Crushed Glass: Recycled crushed glass may be used as a component of the bituminous mixture subject to the following:

1. Consider the recycled crushed glass a local material and meet all requirements specified in 902-6.
2. The percentage of recycled crushed glass in any bituminous mixture does not exceed 15% of the total aggregate weight.
3. The asphalt binder used with mixtures containing recycled crushed glass contains 0.5% anti-stripping agent from an approved source. The addition of the specified amount of anti-stripping agent must be certified by the supplier.
4. Test bituminous mixtures containing recycled crushed glass in accordance with AASHTO T 283 as part of the mix design approval. The minimum tensile strength ratio must not be less than 80%. An increase in the amount of anti-stripping agent may be necessary in order to meet this requirement.
5. Recycled crushed glass must not be used in friction course mixtures nor in structural course mixtures which are to be used as the final wearing course.

Permissible Variation for the Coarse Aggregate

Size and uniformly grade or combine the aggregate or aggregates shipped to the job in such proportions that the resulting mixture meets the grading requirements of the mix design.

General Composition of Mixture

General: Use a bituminous mixture composed of a combination of aggregate (coarse, fine or mixtures thereof), mineral filler, if required, and bituminous material. Ensure that not more than 20% by weight of the total aggregate used is silica sand or local materials as defined in FDOT Section 902. Consider the silica sand and local materials contained in any RAP material, if used in the mix, in this limitation. Size, grade and combine the several aggregate fractions in such proportions that the resulting mixture meets the grading and physical properties of the verified mix design.

RAP meeting the requirements of FDOT 331-2.2.4 may be approved as a substitution for a portion of the combination of aggregates, subject to all applicable specification requirements being met.

Grading Requirements: In all cases, use a mix design within the design ranges specified in Table 331-1.

SECTION E – TECHNICAL SPECIFICATIONS**Mix Design**

General: Prior to the production of any asphalt paving mixture, submit a mix design and representative samples of all component materials to the County at least two weeks before the scheduled start of production. The County will verify the mix design before use. Send a copy of the proposed mix design to the County at the same time. (Open-graded mixes will be designed by the County.) Furnish the following information:

1. The specific project on which the mixture will be used.
2. The source and description of the materials to be used.
3. The gradation and approximate proportions of the raw materials as intended to be combined in the paving mixture. The gradation of the component materials shall be representative of the material at the time of use.
4. A single percentage of the combined mineral aggregate passing each specified sieve. Degradation of the aggregate due to processing (particularly No. 200 [75 µm]) should be accounted for and identified for the applicable sieves.
5. A single percentage of asphalt by weight of total mix intended to be incorporated in the completed mixture, shown to the nearest 0.1%. For structural mixes (S-I, S-II and S-III) establish the optimum asphalt content at a level corresponding to a minimum of 4.5% air voids. For FC-3 mixes, establish optimum asphalt content at a level corresponding to a minimum of 5.0% air voids.
6. A single temperature at which the mixture is intended to be discharged from the plant.
7. The laboratory density of the asphalt mixture for all mixes except Open-Graded Friction Courses.
8. Evidence that the completed mixture will meet all specified physical requirements.
9. The name of the individual responsible for the Quality Control of the mixture during production.

Revision of Mix Design: Submit all requests for revisions to approved mix designs, along with supporting documentation, in writing to the County. In order to expedite the revision process, a verbal revision request or discussion of the possibility of a revision request may be made, but must be followed up with a written request. The verified mix design will remain in effect until a change is authorized by the County. In no case will the effective date of the revision be established earlier than the date of the first communication with the County regarding the revision.

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Provide a new mix design for any change in source of aggregate.

Resistance to Plastic Flow: Include with the submitted mix design test data showing that the material as produced will meet the requirements specified in Table 331-2 when tested in accordance with FM 1-T 245. Further, determine the bulk specific gravity of the laboratory compacted bituminous mixture in accordance with FM 1-T 166.

Determine the percent of unfilled voids and the percent of aggregate voids filled with asphalt using the maximum specific gravity of the bituminous mixture and on the asphalt content of each group of specimens prepared from the same sample. Determine maximum specific gravity of the bituminous mixture by FM 1-T 209.

Revocation of Mix Design: The County will consider any marked variations from original test data for a mix design or any evidence of inadequate field performance of a mix design as sufficient evidence that the properties of the mix design have changed, and the County will no longer allow the use of the mix design.

Successful Bidder's Quality Control

Personnel: In accordance with the requirements of 331-5.2 provide the necessary quality control personnel. Ensure that the Quality Control Technician is certified by the County and possesses a valid certificate of qualification. When it becomes evident to the County that the Quality Control Technician cannot perform as required by the position, the County will revoke the certification and require replacement with a certified technician.

Extraction Gradation Analysis: Sample the bituminous mixture at the plant in accordance with FM 1-T 168. Determine the percent bitumen content of the mixture in accordance with FM 5-563, and determine the percent passing the standard sieves in accordance with FM 1-T 030. In the event the calibration factor for the mix exceeds 0.50%, conduct the extraction and gradation analysis in accordance with FM 5-544 and FM 5-545, respectively. Show all test results to the nearest 0.01. Carry all calculations to the nearest 0.001 and rounded to the nearest 0.01, in accordance with the County's rules of rounding.

Run a minimum of one extraction gradation analysis of the mixture for each day's or part of a day's production and immediately following any change in the production process. Take the quality control sample of mixture for the extraction gradation analysis each day as soon as the plant operations have stabilized. Obtain the results in a timely manner (no later than the end of the day) so that adjustments can be made if necessary.

On initial use of a Type S or FC-3 mix design at a particular plant, as a minimum, run an additional extraction gradation analysis if more than 500 tons [450 metric tons] of mixture are produced on the first day of production.

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Extraction gradation analysis will not be required on the days when mix production is less than 100 tons [90 metric tons]. However, when mix production is less than 100 tons [90 metric tons] per day on successive days, run the test when the accumulative tonnage on such days exceeds 100 tons [90 metric tons].

Use the target gradation and asphalt content as shown on the mix design. Any changes in target will require a change in the mix design in accordance with 331-4.3.2.

If the percentage of bitumen deviates from the optimum asphalt content by more than 0.55% or the percentage passing any sieve falls outside the limits shown in Table 331- 3, make the necessary correction. If the results for two consecutive tests deviate from the optimum asphalt content by more than 0.55% or exceeds the limits as shown in Table 331-3 for any sieve, stop the plant operations until the problem has been corrected. In addition, if the results of two consecutive tests show an amount greater than 99.0% passing the 1/2 inch [12.5 mm] sieve for Type S-I, an amount greater than 99.0% passing the 3/4 inch [19.0 mm] sieve for Type S-II, or an amount greater than 99.0% passing the 3/8 inch [9.5 mm] sieve for Types S-III or FC-3, stop the plant operation until the problem has been corrected.

Maintain control charts showing the results of the extraction gradation analysis (bitumen content and sieve analysis).

Sieve Size	Percent Passing
1 inch [25.0 mm]	7
3/4 inch [19.0 mm]	7
1/2 inch [12.5 mm]	7
3/8 inch [9.5 mm]	7
No. 4 [4.75 mm]	7
No. 10 [2.00 mm]	5.5
No. 40* [*425 µm]	4.5
No. 80* [*180 µm]	3
No. 200 [75 µm]	2
*Does not apply to SAHM, ABC-1 or Type II.	

Plant Calibration: At or before the start of mix production, perform a wash gradation on a set of hot bin samples for batch or continuous mix plants or belt cut for drum mix plants to verify calibration of the plant. When approved by the County, extraction gradation analysis of the mix may be used to verify calibration of the plant. This extraction gradation analysis may also be used to fulfill the quality control requirements for the first day's production.

Viscosity of Asphalt in Mixes Containing RAP: When RAP is a component material, the viscosity of the asphalt material in the bituminous mixture, determined by the County

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in accordance with ASTM D 2171, shall be $6,000 \pm 2,000$ poises [600 ± 200 Pa·s]. This determination will be made on samples obtained by the County on a random basis at a frequency of approximately one per 2,000 tons [1,800 metric tons] of mix.

If the viscosity determined by the County is out of the specified range, adjust the binder formulation or blend of RAP in the mix to bring the viscosity within tolerance.

Acceptance Procedures

The County will approve all materials for acceptance through the County's Acceptance Procedures specified herein. The County is responsible for determining the acceptability of the construction and materials incorporated therein. The Successful Bidder is responsible for the quality of construction and materials incorporated therein. Accomplish all quality control sampling and testing on a random basis in accordance with the approved Quality Control Plan. The County will perform all necessary sampling and testing for acceptance purposes on a random basis as specified herein, in addition to monitoring and observing the Successful Bidder's quality control test procedures and results. Maintain effective quality control until final project acceptance.

A LOT is defined as an isolated quantity of a specified material produced from a single source or operation, or it is a measured amount of specified construction produced by the same process. In order to change the process, thereby necessitating the termination of the current LOT and starting a new LOT, submit a written request, with justification, to the County for approval. Obtain the County's approval prior to making the process change.

Perform all quality control sampling and testing of materials in strict conformance with the Florida Method of Sampling and Testing as found in the Field Sampling and Testing Manual. The County will perform all acceptance sampling and testing of materials in strict conformance with the Florida Method of Sampling and Testing as found in the Field Sampling and Testing Manual. This manual, developed and distributed by the FDOT Materials Office, contains the detailed sampling and testing procedures from AASHTO and ASTM as modified by the County.

Acceptance Plans

Payment Based on Acceptance Results: The County will adjust the payment for each LOT of material, product, item of construction or completed construction on the basis of acceptance test results in accordance with the requirements specified hereinafter in the applicable Sections.

Resampling of LOTs: The County requires that LOTs of materials, products, items of construction or completed construction meet the requirements of these Specifications at the time of submission. The County will not take check samples for acceptance purposes.

Referee System: The County has established a referee system to verify the validity of the acceptance test results on LOTs at the asphalt plant. The County will evaluate the acceptance test results with data from split samples run by the District and Central

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Labs. The County will make a final determination and disposition of the acceptance test results. Acceptance results will be considered non-representative if the test results from the Field and Referee samples differ by more than 0.44% for asphalt content when obtained by the use of FM 5-563 or 0.56% for FM 5-544. Acceptance results for gradation will be considered non-representative if the test results from the Field and Referee samples differ by more than the precision values given in Figure 2 of FM 1-T 030 when using FM 5-563 or Figure 2 of FM 5-545 when using FM 5-544. When the referee analysis indicates that one or more test results are not representative, the County will discard the non-representative test value(s) and base payment calculations for the LOT (including the subplot with the non-representative test values) on the remaining subplot(s) test data as defined in 331-6.

Quality Control by the Successful Bidder: Provide and maintain a quality control system that provides reasonable assurance that all materials, products and completed construction submitted for acceptance meet County requirements. Develop and maintain a quality control system in conformance with the following requirements:

SUCCESSFUL BIDDER QUALITY CONTROL SYSTEM**I. SCOPE:**

These Specifications establish minimum requirements and activities for a Successful Bidder quality control system. These requirements pertain to the inspections and tests necessary to substantiate material and product conformance to specification requirements and to all inspections and tests required by the County.

II. FUNCTIONS AND RESPONSIBILITIES:

1. The County will verify the Successful Bidder's design mixes, inspect plants and monitor control of the operations to ensure conformance with these Specifications. The County will design all open-graded friction mixes (FC-2 and FC-5).

At no time will the County issue instructions to the Successful Bidder as to the setting of dials, gauges, scales and meters. However, the County may question and warn the Successful Bidder against the continuance of any operations or sequence of operations that obviously do not result in satisfactory compliance with the requirements of these Specifications.

2. The Successful Bidder. Submit in writing the proposed Quality Control Plan for each asphalt plant for the County's approval. Maintain the approved Quality Control Plan in effect for the plant to which it is assigned until the County rejects it in writing. Include in the plan the sampling, testing, inspection and the anticipated frequencies of each to maintain process control. A recommended series of sampling, testing and inspecting activities are shown in Table 331-4.

SECTION E – TECHNICAL SPECIFICATIONS**Table 331-4****RECOMMENDATIONS FOR A SUCCESSFUL BIDDER
QUALITY CONTROL PLAN****A. All Types of Plants**

1. Stockpiles
 - a. Place materials in the correct stockpile.
 - b. Use good stockpiling techniques.
 - c. Inspect stockpiles for separation, contamination, segregation, etc.
2. Incoming Aggregate
 - a. Obtain gradations and bulk specific gravity (BSG) values from the aggregate supplier.
 - b. Determine gradation of all component materials.
 - c. Compare gradations and BSG to mix design.
3. Cold Bins
 - a. Calibrate the cold gate/feeder belt settings.
 - b. Observe operation of cold feed for uniformity.
4. Dryer
 - a. Observe pyrometer for aggregate temperature control.
 - b. Observe efficiency of the burner.
5. Hot Bins
 - a. Determine gradation of aggregates in each bin.
 - b. Determine theoretical combined grading.
6. Bituminous Mixture
 - a. Determine asphalt content.
 - b. Determine mix gradation.
 - c. Check mix temperature.
 - d. Verify modifier addition.

B. Batch Plants

1. For batch weights, determine percent used and weight to be pulled from each bin to ensure compliance with the mix design.
2. Check mixing time.
3. Check operations of weigh bucket and scales.

C. Continuous Mix Plant

1. Determine gate calibration chart for each bin.
2. Determine gate settings for each bin to ensure compliance with the mix design.
3. Determine gallons [cubic meters] per revolution or gallons [cubic meters] per minute to ensure compliance with the mix design.

D. Drum Mixer Plant

1. Calibrate the cold feed and prepare a calibration chart for each cold gate.
2. Develop information for the synchronization of the aggregate feed, reclaimed asphalt pavement (RAP) feed and the bituminous material feed.

SECTION E – TECHNICAL SPECIFICATIONS**3. Calibrate the weigh bridge on the changing conveyor.**

The activities shown in Table 331-4 are the normal activities necessary to control the production of bituminous concrete at an acceptable quality level. The County recognizes, however, that depending on the type of process or materials, some of the activities listed may not be necessary and, in other cases, additional activities may be required. The frequency of these activities will also vary with the process and the materials. When the process varies from the defined process average and variability targets, increase the frequency of these activities until the proper conditions are restored. Take one sample and test for every 1,000 tons [900 metric tons] of incoming aggregate (including RAP) as it is stockpiled. Test RAP material for extracted gradation and asphalt content.

Plot and keep up-to-date control charts for all quality control sampling and testing. Provide control charts for the following:

- a. gradation of incoming aggregates
- b. gradation and asphalt content of RAP
- c. combined gradations of hot bins
- d. extracted asphalt content
- e. mix gradation
- f. gradation of cold feed (drum mixers)

Post all current control charts in the asphalt lab where they can be seen.

Formulate all design mixes with the exception of open-graded friction mixes (FC-2 and FC-5). Submit design mixes to the County for verification prior to their use. Provide process control of all materials during handling, blending, mixing and placing operations.

III. QUALITY CONTROL SYSTEM:

1. General Requirements. Furnish and maintain a quality control system that provides reasonable assurance that all materials and products submitted to the County for acceptance meet the specification requirements. Perform, or have performed, the inspection and tests required to substantiate product conformance to specification requirements, and also perform, or have performed, all inspections and tests otherwise required by the County. Keep a quality control technician, who has been certified by the County as a Qualified Asphalt Plant Technician (Plant Level II), available at the asphalt plant at all times when producing asphalt mix for the County. Place a person in responsible charge of the paving operations who is qualified by the County as a Qualified Asphalt Paving Technician (Paving Level II). Document the quality control procedures, inspection and tests, and make that information available for review by the County throughout the life of the Blanket Purchase Order.

2. Documentation. Maintain adequate records of all inspections and tests. Record the nature and number of tests made, the number and type of deficiencies found, the quantities approved and rejected, and the nature of corrective action taken, as appropriate. The County may review and approve all documentation procedures prior to the start of the work. The County will take ownership of all charts and records

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documenting the Successful Bidder's quality control tests and inspections upon completion of the work.

3. Charts and Forms. Record all conforming and nonconforming inspections and test results on approved forms and charts, and keep them up to date and complete and make them available at all times to the County during the performance of the work. Prepare charts of test properties for the various materials and mixtures on forms that are in accordance with the applicable requirements of the County.

The County will furnish a copy of each applicable chart and form. Provide a supply of the charts and forms from the copy furnished. Obtain the County's approval of non- standard forms and charts prior to using them.

4. Corrective Actions. Take prompt action to correct any errors, equipment malfunctions, process changes or other problems that result or could result in the submission of materials, products or completed construction that do not meet the requirements of these Specifications. When it becomes evident to the County that the Successful Bidder is not controlling his process and is making no effort to take corrective actions, the County will require the Successful Bidder to cease plant operations until such time as the Successful Bidder can demonstrate that he can and is willing to control the process.

5. Laboratories with Measuring and Testing Equipment. Furnish a fully equipped asphalt laboratory (permanent or portable) at the production site, and meeting the following requirements:

a. Area - Provide an effective working area for the laboratory that is a minimum of 180 ft² [17 m²]. This area does not include the space for desks, chairs and file cabinets.

b. Lighting - Provide lighting in the lab adequate to illuminate all areas of work.

c. Temperature Control - Equip the lab with heating and air conditioning units that provide a satisfactory working environment.

d. Ventilation - Equip the lab with fume hoods and exhaust fans that will remove all hazardous fumes from within the laboratory in accordance with OSHA requirements.

e. Equipment and Supplies - Furnish the lab with the necessary sampling and testing equipment, and supplies, for performing Successful Bidder quality control and County acceptance sampling and testing. A detailed list of equipment and supplies required for each test is included in the Field Sampling and Testing Manual.

f. When running plants at a high production rate, furnish additional testing equipment as necessary to allow the completion of the Successful Bidder's quality control tests and the County's Acceptance tests within the specified time frame.

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6. Sampling and Testing. Use the sampling and testing methods and procedures that the County provides to determine quality conformance of the materials and products. The County will use these same methods and procedures for its acceptance tests. Include the sampling for other material characteristics on a random basis and the plotting of the test results on control charts in the Quality Control Plan.

7. Alternative Procedures. The Successful Bidder may use alternative sampling methods, procedures and inspection equipment when such procedures and equipment provide, as a minimum, the quality assurance required by the Specification Documents. Prior to applying such alternative procedures, describe them in a written proposal and demonstrate for the County's approval that their effectiveness is equal to or better than the Specification requirements. In case of dispute as to whether certain proposed procedures provide equal assurance, use the procedures stipulated by the Specification Documents.

8. Nonconforming Materials. Establish and maintain an effective and positive system for controlling nonconforming materials, including procedures for identification, isolation and disposition.

Reclaim or rework nonconforming materials in accordance with procedures acceptable to the County. Discuss the details of this system at the preconstruction conference, and make these details a part of the record of the conference.

9. County Inspection at Subcontractor or Supplier Facilities. The County reserves the right to inspect materials not manufactured within the Successful Bidder's facility. The County's inspection does not constitute acceptance and does not, in any way, replace the Successful Bidder's inspection or otherwise relieve the Successful Bidder of his responsibility to furnish an acceptable material or product. When the County inspects the subcontractor's or supplier's product, such inspection does not replace the Successful Bidder's responsibility to inspect such subcontractor's or supplier's product.

10. Inspect subcontracted or purchased materials when received, as necessary, to ensure conformance to Specification requirements. Report to the County any nonconformance found on County source-inspected material, and require the supplier to take necessary corrective action.

Defective Materials

Acceptance or Rejection: Following the application of the appropriate acceptance plan, the County will make the final decision as to the acceptance, rejection or acceptance at an adjusted payment of the LOTS.

Disposition of LOTS: For nonconforming LOTS of materials, products, items of construction or complete construction that are not adaptable to correction by reworking, either remove and replace the nonconforming work, or accept no payment or an adjusted payment as stated in these Specifications, or, if not stated, as directed by the County.

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General Basis of Adjusted Payment for Deficiencies: When the County determines that a deficiency exists, the County will apply the applicable payment factor as shown in these Specifications to the entire LOT. When the County determines that multiple deficiencies exist, the County will apply an adjustment to the LOT of material that is identified by each deficiency. The County will apply the adjustment for each deficiency separately as it occurs. The County will not allow an adjustment to be affected by any other adjustment occurring for the same LOT. As an exception to the foregoing requirements, when there are two or more deficiencies in the gradation acceptance tests (% pass No. 4 [4.75 mm] sieve, % pass No. 10 [2.0 mm] sieve, % pass No. 40 [425 µm sieve], % pass No. 200 [75 µm] sieve) the County will only apply the greater adjustment. The County will express all reductions in payment in terms of equivalent pay items at no pay. When the item is measured by the ton [metric ton], the County will convert the LOT in the field, which is measured in feet [meters], to equivalent tons [metric tons] and by using the average calculated spread for that LOT. When the pay item is measured by the square yard [square meter], the County will convert the LOT at the production point, which is measured in tons [metric tons], to equivalent square yards [square meters] at the design thickness and by using the laboratory density as a conversion factor.

Acceptance of the Mixture at the Plant

General: The County will accept the bituminous mixture at the plant, with respect to gradation and asphalt content, on a LOT to LOT basis. The material will be tested for acceptance in accordance with the provisions of 331-5 and the following requirements. However, the County will reject any load or loads of mixture which are unacceptable for reason of being excessively segregated, aggregates improperly coated, or of excessively high or low temperature for use in the work.

For initial use of a Type S or FC-3 mix design with a Florida limestone source north of the 28th parallel at a particular plant, limit the first day's production to a maximum of 300 tons [275 metric tons]. Resume production upon notification of acceptable Marshall Properties as determined in accordance with 331-6.4.

A standard size LOT at the asphalt plant will consist of 4,000 tons [3,600 metric tons] with four equal sublots of 1,000 tons [900 metric tons] each. As an exception, the first LOT for the initial use of a Type S or FC-3 mix design with a particular plant will consist of four sublots, the first subplot of 500 tons [450 metric tons] or the first day's production (300 tons [275 metric tons] maximum for mix design with a Florida limestone source north of the 28th parallel), the second subplot of 500 tons [450 metric tons], and the remaining two sublots of 1,000 tons [900 metric tons] each.

A partial LOT may occur due to the following:

- (1) the completion of a given mix type on a project.
- (2) An approved LOT termination by the County due to a change in process, extended delay in production, or change in mix design.

If the partial LOT contains one or two sublots with their appropriate test results, then the previous full-size LOT will be redefined to include this partial LOT and the evaluation of

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the LOT will be based on either five or six subplot determinations. If the partial LOT contains three sublots with their appropriate test results, this partial LOT will be redefined to be a whole LOT and the evaluation of it will be based on three subplot determinations.

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When the total quantity of any mix is less than 3,000 tons [2,700 metric tons], the partial LOT will be evaluated for the appropriate number of sublots from n=1 to n=3. When the total quantity of any mix type is less than 500 tons [450 metric tons], the Department will accept the mix on the basis of visual inspection. The Department may run extraction and gradation analysis for information purposes; however, the provisions for partial payment will not apply.

On multiple blanket purchase orders (projects), the LOT(s) at the asphalt plant will carry over from project to project.

Acceptance Procedures: Control all operations in the handling, preparation, and mixing of the asphalt mix so that the percent bitumen and the percents passing the No. 4, No. 10, No. 40 and No. 200 [4.75 mm, 2.00 mm, 425 μ m and 75 μ m] sieves will meet the approved job mix formula within the tolerance shown in Table 331-6.

Table 331-6 Tolerances for Acceptance Tests	
Characteristic	Tolerance*
Asphalt Content (Extraction)	$\pm 0.55\%$
Asphalt Content (Printout)	$\pm 0.15\%$
Passing No. 4 [4.75 mm] sieve	$\pm 7.00\%$
Passing No. 10 [2.00 mm] sieve	$\pm 5.50\%$
Passing No. 40 [425 μ m] sieve**	$\pm 4.50\%$
Passing No. 200 [75 μ m] sieve	$\pm 2.00\%$
*Tolerances for sample size of n=1. See Table 331-7 for other sample sizes n=2 through n=6.	
**Applies only to Types S-I, S-II, S-III, and FC-3.	

Acceptance of the mixture will be on the basis of test results on consecutive random samples from each LOT. One random sample will be taken from each subplot. The bituminous mixture will be sampled and tested at the plant as specified in 331-4.4.2.

Calculations for the acceptance test results for bitumen content and gradation (percentages passing No. 4, No. 10, No. 40 and No. 200 [4.75 mm, 2.00 mm, 425 μ m and 75 μ m] sieves) will be shown to the nearest 0.01. Calculations for arithmetic averages will be carried to the nearest 0.001 and rounded to the nearest 0.01 in accordance with the County's rules of rounding.

Payment will be made on the basis of Table 331-7, "Acceptance Schedule of Payment". The process will be considered out of control when the deviation of any individual test result from the mix design falls in the 80% pay factor for the "one test" column of Table 331-7. When this happens, the LOT will be automatically terminated and production stopped. The approval of the County will be required prior to resuming production of the mix. Acceptance of the LOT will then be determined in accordance with Table 331-7.

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All acceptance tests will be completed on the same day the sample was taken, when possible, and on no occasion will they be completed later than the following work day.

Table 331-7						
Acceptance Schedule of Payment (Asphalt Plant Mix Characteristics)						
Average of Accumulated Deviations of the Acceptance Tests from the Mix Design.						
Pay Factor	1-Test	2-Tests	3-Tests	4-Tests	5-Tests	6-Tests
Asphalt Cement Content (Extraction - FM 5-544 or 5-563)						
1.00	0.00-0.55	0.00-0.43	0.00-0.38	0.00-0.35	0.00-0.33	0.00-0.31
0.95	0.56-0.65	0.44-0.50	0.39-0.44	0.36-0.40	0.34-0.37	0.32-0.36
0.90	0.66-0.75	0.51-0.57	0.45-0.50	0.41-0.45	0.38-0.42	0.36-0.39
0.80*	over 0.75	over 0.57	over 0.50	over 0.45	over 0.42	over 0.39
Asphalt Cement Content (Printout)						
1.00	0.00-0.15	0.00-0.15	0.00-0.15	0.00-0.15	0.00-0.15	0.00-0.15
0.95	0.16-0.25	0.16-0.25	0.16-0.25	0.16-0.25	0.16-0.25	0.16-0.25
0.90	0.26-0.35	0.26-0.35	0.26-0.35	0.26-0.35	0.26-0.35	0.26-0.35
0.80*	over 0.35	over 0.35	over 0.35	over 0.35	over 0.35	over 0.35
No. 4 [4.75 mm] sieve**						
1.00	0.00-7.00	0.00-5.24	0.00-4.46	0.00-4.00	0.00-3.68	0.00-3.45
0.98	7.01-8.00	5.25-5.95	4.47-5.04	4.01-4.50	3.69-4.13	3.46-3.86
0.95	8.01-9.00	5.96-6.66	5.05-5.62	4.51-5.00	4.14-4.58	3.87-4.27
0.90	9.01-10.00	6.67-7.36	5.63-6.20	5.01-5.50	4.59-5.02	4.28-4.67
0.80*	over 10.00	over 7.36	over 6.20	over 5.50	over 5.02	over 4.67
No. 10 [2.00 mm] sieve**						
1.00	0.00-5.50	0.00-4.33	0.00-3.81	0.00-3.50	0.00-3.29	0.00-3.13
0.98	5.51-6.50	4.34-5.04	3.82-4.39	3.51-4.00	3.30-3.74	3.14-3.54
0.95	6.51-7.50	5.05-5.74	4.40-4.96	4.01-4.50	3.75-4.18	3.55-3.95
0.90	7.51-8.50	5.75-6.45	4.97-5.54	4.51-5.00	4.19-4.63	3.96-4.36
0.80*	over 8.50	over 6.45	over 5.54	over 5.00	over 4.63	over 4.36
No. 40 [425 µm] sieve**						
1.00	0.00-4.50	0.00-3.91	0.00-3.65	0.00-3.50	0.00-3.39	0.00-3.32
0.98	4.51-5.50	3.92-4.62	3.66-4.23	3.51-4.00	3.40-3.84	3.33-3.72
0.95	5.51-6.50	4.63-5.33	4.24-4.81	4.01-4.50	3.85-4.29	3.73-4.13
0.90	6.51-7.50	5.34-6.04	4.82-5.39	4.51-5.00	4.30-4.74	4.14-4.54
0.80*	over 7.50	over 6.04	over 5.39	over 5.00	over 4.74	over 4.54
No. 200 [75µm] sieve**						
1.00	0.00-2.00	0.00-1.71	0.00-1.58	0.00-1.50	0.00-1.45	0.00-1.41
0.95	2.01-2.40	1.72-1.99	1.59-1.81	1.51-1.70	1.46-1.63	1.42-1.57
0.90	2.41-2.80	2.00-2.27	1.82-2.04	1.71-1.90	1.64-1.80	1.58-1.73
0.80*	over 2.80	over 2.27	over 2.04	over 1.90	over 1.80	over 1.73
*If approved by the County based determination that the material is acceptable to remain in place, the Successful Bidder may accept the indicated partial pay. Otherwise,						

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remove and replace the material at no cost to the County at any item.

**When there are two or more reduced payments for these items in one LOT of material, only the greatest reduction in payment will be applied. CAUTION: This rule applies only to these four gradation test results.

NOTES:

(1) The No. 40 [425 µm] sieve applies to Type S-I, S-II, S-III and FC-3.

(2) Deviations are absolute values with no plus or minus signs.

Automatic Batch Plant with Printout: Acceptance determinations for asphalt content for mixtures produced by automatic batch plants with printout will be based on the calculated bitumen content using the printout of the weights of asphalt actually used. Acceptance determinations for gradations (No. 4, No. 10, No. 40 and No. 200 [4.75 mm, 2.00 mm, 425 µm and 75 µm] sieves) will be based on the actual test results from extraction gradation analyses. Payment will be made based on the provisions of Table 331-7.

Additional Tests: The County reserves the right to run any test at any time for informational purposes and for determining the effectiveness of the Successful Bidder's quality control.

Determination of Marshall and Volumetric Properties: The County will determine the Marshall and Volumetric Properties of the mix at a minimum frequency of one set per LOT, to determine whether or not the produced mix is meeting the specification requirements. The County will sample and prepare test specimens and test them in accordance with FM 5-511 for Marshall Stability and flow, FM 1-T 209 for maximum specific gravity, and FM 1-T 166 for density. Volumetric properties will be determined for Type S and FC-3 mixes only.

Failing Marshall Properties: When the average value of the specimens fails to meet specification requirements for stability or flow, the County may stop the plant operations until all specification requirements can be met or until another verified mix design has been approved. Make revisions to a mix design in accordance with 331-4.3.2. If the Lab Density of the mix during production differs from the value shown on the verified mix design by more than 2 lbs/ft³ [32 kg/m³] for two consecutive tests, the County will revise the target value.

Failing Volumetric Properties (Type S and FC-3 mixes only): When the County determines the air void content to be less than 3.0%, or greater than 6.5%, make appropriate adjustments to the mix. When the air void content is determined to be less than 2.5% or greater than 7.0% on any one test, or less than 3.0% on two consecutive tests, cease operations until the problem has been resolved.

Resuming Production: In the event that plant operations are stopped due to a failure to meet specification requirements, obtain the County's approval before resuming production of the mix. Limit production to a maximum of 300 tons [270 metric tons]. At this time, the Marshall and volumetric properties of the mix will be verified. After the

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Marshall and volumetric properties are verified, full scale production of the mix may be resumed.

Disposition of In-Place Material: Any material in-place that is represented by the failing test results (low stability, high flow, or less than 2.5% air voids) will be evaluated by the County to determine if removal and replacement is necessary. Remove and replace any in-place material, if required, at no cost to the County.

Acceptance of the Mixture at the Roadway:

Density Control Nuclear Method: Determine the in-place density of each course of asphalt mix construction using the Nuclear Density Backscatter Method as specified by FM 1-T 238 (Method B). For a completed course, obtain an average in-place LOT density of at least 98% of the valid control strip density.

Do not perform density testing on patching courses, leveling and intermediate courses less than 1 inch [25 mm] thick (or a specified spread rate less than 100 lb/yd²

[55kg/m²]), overbuild courses where the minimum thickness is less than 1 inch [25 mm], projects less than 1,000 feet [300 m], sections with variable width, or open-graded friction courses. Compact these courses, with the exception of open-graded friction courses in accordance with 330-10.1.2.

Control Strips: In order to determine the density of compacted asphalt mixtures for the purpose of acceptance, first establish a control strip. Construct one or more control strips for the purpose of determining the control strip density. Construct a control strip at the beginning of asphalt construction and one thereafter for each successive course. Construct a new control strip for any change in the composition of the mix design, underlying pavement structure, compaction equipment, or procedures. The County may require an additional control strip when the County deems it necessary to establish a new control strip density or confirm the validity of the control strip density being used at that time. The Successful Bidder may also request a confirmation of the control strip density. Construct the control strip as a part of a normal day's run.

Construct a control strip 300 feet [100 m] in length and of an adequately uniform width to maintain a consistent compactive effort throughout the section. When constructing the control strip, start it between 300 and 1,000 feet [100 and 300 m] from the beginning of the paving operation. Construct a control strip of a thickness that is the same as that specified for the course of which it is a part. Construct the control strip using the same mix, the same paving and rolling equipment, and the same procedures as those used in laying the asphalt course of which the control strip is to become a part. Leave every control strip in place to become a portion of the completed roadway.

In order to determine the acceptability of the control strip, make ten nuclear density determinations at random locations within the control strip after completing the compaction of the control strip. Do not make any determinations within 12 inches [300 mm] of any unsupported edge. Use the average of these ten determinations for the Control Strip Density. For purposes of determining the percent of laboratory density, as

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required in Table 331-8, the County will develop a correction factor at four nuclear density locations from 6 inch [150 mm] diameter cores or by direct transmission nuclear determination where applicable. Cut the cores prior to opening the roadway to traffic. The County will calculate the percent of lab density to the nearest 0.01% and round it to the nearest 0.1%. Should the percent of lab density in a control strip exceed 99.0%, notify the County immediately.

In the event that a control strip does not meet the minimum density requirements specified in Table 331-8, take appropriate corrective actions and construct a new control strip. If three consecutive control strips fail to meet specification requirements, the County will limit production and placement of the mix to 800 to 1,000 feet [250 to 300 m], regardless of the thickness and width the Successful Bidder is placing, until the Successful Bidder obtains a passing control strip.

Once the Successful Bidder has obtained a passing control strip after a failing control strip (for the same mix, layer, and project), the County will use the passing control strip to accept all previously laid mix. In the event the Successful Bidder does not obtain a passing control strip, and this particular mix, layer, etc., is completed on the project, the County will evaluate density in accordance with FM 5-543.

Table 331-8			
Roadway Requirements for Bituminous Concrete Mixes			
Mix Type	Density	Minimum Control Strip Density* (% of Lab Density)	Surface Tolerance
S-I, S-II, S-III, Type II, Type III, SAHM	per 331-7	96	per 330-12
ABC-1, ABC-2, ABC-3	per 280-8.6	96	per 200-7
FC-2	No density required	N/A	per 330-12
FC-3	per 331-7	96	per 330-12
* The minimum control strip density requirement for shoulders is 95% of lab density.			

LOTS: For the purpose of acceptance and partial payment, the County will divide each day's production into LOTS. The County will close out all LOTS at the end of the day. The standard size of a LOT is 5,000 feet [1,500 m] of any pass made by the paving train regardless of the width of the pass or the thickness of the course. A subplot will be 1,000 feet [300 m] or less. The County will consider pavers traveling in echelon as two separate passes. When at the end of a production day, the completion of a given course, layer, or mix, or at the completion of the project, and a LOT size is determined to be less than 5,000 feet [1,500 m], it will be considered a partial LOT. Handle partial LOTS as follows:

If the length of the partial LOT is 2,000 feet [600 m] or less, and a previous full-size LOT from the same day, mix, layer, and project is available, then the previous full-size LOT

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will be redefined to include this partial LOT and the number of tests required for the combined LOT will be as shown in Table 331-9.

If the partial LOT is 2,000 feet [600 m] or less, and a previous full-size LOT from the same day, mix, layer, and project is not available, the County will evaluate the partial LOT separately and perform the number of tests required for the partial LOT as shown in Table 331-9.

If the partial LOT is greater than 2,000 feet [600 m] long, the County will evaluate the partial LOT separately and perform the number of tests required for the partial LOT as shown in Table 331-9.

Table 331-9	
Testing Requirements for Partial LOTs	
LOT Size	Number of Tests
Less than 3,000 feet [900 m]	3
3,001 to 4,000 feet [901 to 1,200 m]	4
4,001 to 5,000 feet [1,201 to 1,500 m]	5
5,001 to 6,000 feet [1,501 to 1,800 m]	6
6,001 to 7,000 feet [1,801 to 2,100 m]	7
Greater than 7,000 feet [2,100 m]	2 LOTs

For each LOT and partial LOT, the County will make density determinations at a frequency shown in Table 331-9 at random locations within the LOT, but will not take them within 12 inches [300 mm] of any unsupported edge. The County will determine the random locations by the use of statistically derived stratified random number tables. For the Successful Bidder to receive full payment for density, the average density of a LOT shall be a minimum of 98.0% of the control strip density. Once the County determines the average density of a LOT, do not provide additional compaction to raise the average. Notify the County should the average density for two consecutive LOTs be greater than 102% of control strip density.

Acceptance: The County will accept the completed pavement with respect to density on a LOT basis. The County will make partial payment for those LOTs that have an average density less than 98.0% of the Control Strip Density based on Table 331-10:

Table 331-10	
Payment Schedule For Density	
Percent of Control Strip Density*	Percent of Payment
98.0 and above	100
97.0 to less than 98.0	95
96.0 to less than 97.0	90
Less than 96.0**	75

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* In calculating the percent of control strip density, do not round off the final percentage.
** If approved by the County, based on a determination that the material is acceptable to remain in place, the Successful Bidder may accept the indicated partial pay; otherwise, remove and replace the material at no expense to the County. The Successful Bidder may remove and replace the material at no expense to the County at any time.

Density Requirements for Small Projects and Other Non-mainline Roadway Areas:

For projects less than 1,000 feet [300 m] in length and bridge projects with approaches less than 1,000 feet [300 m] each side, do not apply the requirements for control strips and nuclear density determination. Use the standard rolling procedures as specified in 330-10.1.2. Do not apply the provisions for partial payment to these small projects.

In other non-mainline roadway areas where it is not practical to establish a control strip, such as parking areas, toll plazas, turn lanes, and acceleration/deceleration lanes, the Successful Bidder may use the standard rolling procedure to determine density requirements if so authorized in writing by the County

Surface Tolerance: The bituminous mixture will be accepted on the roadway with respect to surface tolerance in accordance with FDOT 330-12.

Method of Measurement

The quantity to be paid for will be the weight of the mixture, in tons, completed and accepted.

The weight will be determined as provided in 320-2 (including the provisions for the automatic recordation system).

The bid price for the asphalt mix will include the cost of the liquid asphalt or the asphalt recycling agent.

(IV.7 and IV.8) BASIS OF PAYMENT

All bid items specified shall be paid under the respective pay item noted on the Bid Form.

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- A. (IV.11) SWEEP, TACK, SPREAD AND COMPACT SP MIXES <100#
(IV.12) SWEEP, TACK, SPREAD AND COMPACT SP MIXES >#100
(IV.13) SWEEP, TACK, SPREAD AND COMPACT 100# /SY OR MORE
(IV.14) SWEEP, TACK, SPREAD AND COMPACT 50# /SY TO 99#/SY
(IV.15) SWEEP, TACK, SPREAD AND COMPACT ROAD WIDENING
(IV.16) SWEEP, TACK, SPREAD AND COMPACT RE-BASING
(IV.17) SWEEP, TACK, SPREAD AND COMPACT PARKING LOTS
(IV.18) CUT, SQUARE, SWEEP, TACK, SPREAD AND COMPACT PATCHING**

The work specified in these sections include all equipment, labor and materials necessary to sweep, tack, spread, and compact for asphaltic-concrete are established for leveling courses, thin overlays, road widening and parking lots. Straight line paving will be paid 50#/sy to 99#/sy per course and for 100#/sy per course and greater. (See general notes)

- B. (IV.18) SWEEP, TACK SPREAD AND COMPACT PATCHING**

The work specified in this section includes all equipment, labor and materials necessary to cut, square, sweep, tack, spread and compact for asphalt concrete per ton. Separated pay items for patching will be for cut, square, sweep, tack, spread and compact for asphalt-concrete per ton. (See general notes)

General Notes for A & B

Unit price determination will be based upon total quantities per each Blanket Release Order.

Example: Two 50#/sy leveling courses, each course 300 tons
 2 x 300 tons = 600 tons; pay at over 500 tons unit price.

Successive leveling or surface courses comprised of or to be placed on top of SAHM, Type II, or Type III mixes shall not be placed until the previous mat has cooled sufficiently to eliminate distortion and/or displacement of that mat.

Quantities for multiple courses will be combined for unit price determination for material, labor, and equipment.

Intersecting streets shall be pulled to the radius points at a minimum, unless specified by the Pavement Manager or his representative.

Herbicide to be applied to vegetation growing within the asphalt pavement areas a minimum of 24 hours prior to resurfacing at no cost to the County.

Driveways along streets to be resurfaced shall be done on an as-required basis to provide a smooth transition to the travel surface.

Asphaltic-concrete material delivered to job site and sweep, tack, spread, and compact bid items will be combined to determine low aggregate job total for award on a Release Order basis. Where appropriate and where necessary, manhole and water valve adjustment bid items will be combined with the above items to determine low aggregate job total.

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All home owners and businesses affected by the project shall be notified a minimum of two days in advance of the beginning of the project. The notification shall be a door hanger with the Successful Bidders name and contact information including phone numbers.

(IV.11, IV.12, IV.13 IV.14, IV15, IV16 IV.17 AND IV.18) BASIS OF PAYMENT

All bid items specified shall be paid under the respective pay items noted on the Bid Form.

(IV.19) REWORK EXISTING ASPHALTIC CONCRETE PAVEMENT

Furnish all labor and equipment and material to heat, scarify, rejuvenate, reshape, add material and compact existing asphalt.

(IV.19) BASIS OF PAYMENT

All bid items specified shall be paid under the respective pay items noted on the Bid Form.

(IV.20) BITUMINOUS DOUBLE SURFACE TREATMENT

The work specified in this section consists of furnishing and applying a single or double application of bituminous surface treatment on a paved roadway or on a prepared road base, compacted to the lines, grades, and thickness established by the County and in substantial conformance with the limits established by the County.

Description: Chip Seal is a pavement surface treatment option that combines a layer of polymer modified liquid asphalt emulsion placed on a prepared base with a layer of aggregate spread and compacted while the asphalt is still liquid.

Materials

Aggregates: Crushed granite conforming to FDOT section 901, table 1 for #89, #78 or #67 gradation for coarse aggregates except as modified herein. The aggregate shall be washed granite obtained from a source approved by the county. Sampling and testing of aggregate shall be the responsibility of the Successful Bidder.

Copies of test results from the aggregate supplier shall be furnished to the county prior to the start of the surface treatment.

Liquid bituminous material for surface treatment: CRS-2h liquid bituminous material conforming to FDOT specification section 916-4.1 except as modified herein. The bituminous material shall be polymer modified. The Successful Bidder shall certify the liquid bituminous material meets the aforementioned FDOT.

The Cationic mixing grade shall be homogenous and of high quality. The material shall be prepared from straight-run Venezuelan Asphalt of high ductility and shall contain a rubber hydrocarbon additive derived from latex in addition to carefully controlled amounts of selected diluents to promote work ability and minimize stripping. Additives that enhance pavement performance are subject to approval by Manatee County.

Cationic Asphalt Emulsion

Material Designation		
Test on Emulsion:	Minimum	Maximum
Viscosity, Saybolt Furol, 77 degrees F (25 C), s	---	---
Viscosity, Saybolt, 122 degrees F (50 C),	150	400

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s		
Storage Stability Test, 24-h, %*		1
Distillation (prior to addition of diluent)		
% residue by volume of emulsion	65	---
% oil distillate by volume of emulsion	---	0.5
Tests on Residue from Distillation:	---	---
Penetration, 77 °F, 100 g., 5 sec.	70	110
Solubility in Trichloroethylene, %	97.5	---
Ductility, 77 °F, 5 cm./min., cm.	100	---

Material Samples

The County will require the Successful Bidder to sample and test each load of emulsion prior to delivery. The Successful Bidder will also provide a sample of the emulsion, on site, prior to commencing work. The County will require the Successful Bidder to provide sample containers and a local Independent testing laboratory for the analyzing of emulsion. The Successful Bidder will be responsible for the cost of the testing. The County reserves the right to test any shipment of emulsion that is believed to be of substandard. All samples shall be shipped and stored in clean air tight sealed wide mouth jars or bottles made of plastic.

Equipment

Distributor: The liquid bituminous material shall be applied with a truck mounted, pressure distributor that has been calibrated within the previous twelve (12) months, for transverse and longitudinal application rate. The distributor shall be equipped, maintained and operated so that the bituminous material can be applied at controlled temperatures and rates from .035 to 1.5 gallons per square yard.

The distributor shall be capable of applying bituminous material of variable widths up to sixteen (16) feet. The distributor shall uniformly apply the bituminous material to the specified rate with a maximum allowed variation of 0.015 gallons per square yard. Distributor equipment shall include tachometer, accurate volume measuring device, a calibrated tank and a thermometer for measuring the temperature of the tank's contents. Distributors shall be equipped with a heating device, asphalt pump and full circulating spray bars adjustable laterally and vertically. Distributors and transport trailers shall be equipped with a sampling valve. Distributor trucks shall be of the pressure type with insulated tanks. The use of gravity distributors will not be permitted. The valves shall be operated by levers so that one or all valves may be quickly opened or closed in one operation. The valves which control the flow from nozzles shall act positively so as to provide a uniform unbroken spread of bituminous material on the surface. The distributor shall be equipped with devices and charts to provide for accurate and rapid determination and control of the amount of bituminous material being applied and with a bitumeter of the auxiliary wheel type registering speed in feet per minute, and trip and total distance in feet.

Aggregate Spreader: The aggregate spreader shall be a self-propelled unit capable of

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uniformly spreading the aggregate at the required rate on a minimum width of six (6") inches wider than the width of the lane to be treated.

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The spreader shall be calibrated within the previous twelve (12) months for transverse and longitudinal application. The spreader shall be equipped with a computer- controlled aggregate/chip spreader in order to ensure the appropriate aggregate coverage at varying speeds, unless approved otherwise by County.

Pneumatic Tire Rollers: The Successful Bidder shall use eight (8) to twelve (12) ton self-propelled pneumatic tire rollers with oscillating wheels and low pressure, smooth tires. Maintain the inflation of the tires such that in no two tires the air pressure varies more than 5 psi. The rollers will be equipped with an operating water system and coco pads. A sufficient number of rollers and a sufficient number of passes shall be used to ensure cover aggregate is properly rolled.

Self-Propelled Rotary Power Broom: The self-propelled rotary broom shall be designed, equipped, maintained and operated so the pavement surface can be swept clean. The broom shall have an adjustment to control the downward pressure.

Additional Equipment: Additional equipment will be needed to complete the operations required by this technical provision. All equipment necessary for the successful completion of projects governed by this technical provision shall be included in the unit costs associated herein. Availability of quality assurance devices (such as a 15' straight edge) shall be the responsibility of the Successful Bidder.

Experience

Bidders must submit a minimum of five Chip Seal project references on the Attachment "A" Contractor's Questionnaire that have been completed within the past three years. Successful Bidders may be required to submit detailed information regarding the staff that they propose for this project. Successful Bidder shall be capable of meeting all the requirements of this specification at the time of the bid.

Construction:

Layout: The Successful Bidder will be responsible for the string lining and lay out of the roadway prior to paving.

Weather and Seasonal limitations: The surface treatment shall not be applied to a wet surface or when rain is occurring or the threat of rain is present immediately before placement. The surface treatment shall not be applied when the temperature is less than 50 degrees Fahrenheit in the shade. When applying emulsions, the temperature of the surface shall be a minimum of 55°F, and no more than 140°F.

Preparation of Surface: The chip seal material shall be placed on a firm unyielding prepared roadway. The Successful Bidder shall be responsible for clipping back shoulders and removing overburden or any other vegetation or debris to ensure that the road is free of organic and deleterious material. The Successful Bidder will be responsible for blowing or sweeping the road immediately ahead of the chip seal operation to make sure the road is free of loose aggregate and other debris.

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Application of Bituminous Material: Liquid bituminous material shall be applied by means of a pressure type distributor in a uniform, continuous spread over the section to be treated. The distributor shall be moving forward at the proper speed when the liquid is discharged onto the pavement to provide an even and consistent application at the rate prescribed. If any areas are deficient the operation shall be stopped and corrected immediately. The liquid shall not be applied more than two hundred (200') feet in advance of the aggregate spreader when the ambient air temperature is above 75 degrees or one hundred (100') feet if the air temperature is below 75 degrees.

- **Single Chip Seal:** Application of the liquid bituminous material shall be applied at a rate of .38 -.45 gallons per square yard depending on the composition of the existing road bed, surface texture and the size of the aggregate in use.
- **Double Chip Seal:** The second application of liquid bituminous material shall be applied at a rate of .38 - .42 gallons per square yard depending upon the size of the first layer of aggregate that the liquid is sprayed upon and the size of the aggregate being placed over the first application of surface treatment.

Application of Cover Aggregate

Immediately following the spray application of the liquid bituminous material, cover aggregate shall be spread over the liquid material at a rate of 18 – 30 lbs square yard depending upon the type of road base and/or the size of the existing aggregate that is being resurfaced.

Rolling: Immediately following the first application of the cover material, roll the entire surface with a pneumatic roller, followed immediately with the steel drum roller. Cover the entire surface one time with the steel drum roller. Then, roll the cover material again with the pneumatic roller. Continue rolling as long as necessary to ensure thorough keying of the cover aggregate into the liquid bituminous material. Eliminate the steel drum when rolling the second application of cover aggregate.

Apply the second application of liquid and cover material the same day as the first application, as far as it is practicable and consistent with the setting of the liquid bituminous material.

Sweeping: After rolling of the first application of cover aggregate, lightly broom the loose aggregate in a manner not to dislodge the aggregate embedded in the liquid. Sweep loose material from road bed. Following second application again broom loose aggregate from the road bed prior to the application of the fog seal. If temperatures exceed 85 degrees, it may be necessary to wait 24 hours before sweeping the first application of chip seal.

Fog Seal: Upon direction from the County, fog seal is to be applied as a separate pay item. When surface treatment has set, a fog seal is to be applied at a rate of .1 to .15 gallons per square yard to the entire surface treatment. The liquid for fog seal shall be a cationic mixing type emulsion diluted forty (40%) percent with water.

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Fog seal shall then be lightly sanded at a rate of plus or minus two (2) pounds per square yard by means of a mechanical spreader. (See Specs)

General Performance

Provide completed pavement which performs to the satisfaction of the County without bleeding, rutting, shoving, raveling, stripping, or showing other types of pavement distress or unsatisfactory performance.

Traffic Control

The Successful Bidder shall furnish all necessary traffic control, barricades, signs and flagmen, to ensure the safety of the traveling public and to all working personnel. Traffic shall not travel on fresh mix until rolling and blotting has been completed. The Successful Bidder shall submit an M.O.T plan indicating all facets of traffic control for the project area. The MOT plan must be approved in writing by the County prior to commencing any work. All traffic control shall be in accordance with the FDOT Roadway Design Standards, most current edition and TP-102. M.O.T. and associated devices shall be checked daily and periodically throughout the project for compliance; and where adjustments or corrections are needed, prompt revisions shall be made.

(IV.20) BASIS OF PAYMENT

All bid items specified shall be paid under the square yard pay item noted on the Bid Form.

(IV.21) THIN LIFT ASPHALT MIX

The work specified in this section consists of the application procedures for rut filling and or overlaying of existing surfaces for the full pavement width with a hot mix plant product of granite screenings and PG 76-22.

Mix Design: The Successful Bidder shall provide the County with a design mix for approval prior to beginning production. Use Table 1.1 for Gradation Design Range.

Table 1.1

Sieve Size	Gradation Design Range
3/8"	100
No. 4	85-100
No. 8	60-80
No. 16	35-55
No. 30	22-38
No. 50	10-25
No. 100	5-15
No. 200	4-10

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Design Requirements	
Asphalt Binder Content %	6.0-8.0
Air Voids %	4.0-8.0

Materials

Asphalt Binder Material: The bituminous material shall be PG 76-22.

Aggregate Material: The aggregate used shall be granite screenings from an approved source, obtained from the crushing of material meeting the requirements of FDOT Section 902.

Tack Coat: A tack coat, as specified in Section 300 of the FDOT Standard Specifications for Road and Bridge Construction, latest version, will be required on existing pavements that are to be overlaid with an asphalt mix.

Construction Methods

Application of SP 4.75: The SP 4.75 mix shall be placed with a conventional paver and compacted with a steel wheel roller in accordance with Section 330 of the FDOT Standard Specifications for Road and Bridge Construction, latest version, and as directed by the County. Should there be a need for herbicide application prior to placement of asphalt; the Successful Bidder shall apply the herbicide following manufacturer's recommendations.

Layer Thickness

The allowable layer thickness for SP 4.75 shall be $\frac{1}{2}$ " – $\frac{3}{4}$ " as specified by the County.

Weather Limitations: Application must be made when the ambient temperatures are above 65 degrees F, only when other weather conditions are determined favorable by the County. Night application will not be allowed.

Acceptance at the Plant

The asphalt mixture will be accepted at the plant, with respect to gradation, air voids and asphalt binder content, on a Lot to Lot basis. However, any load or loads of mixture which, in the opinion of the County, are unacceptable for reasons of excessive segregation, aggregates improperly coated, or of excessively high or low temperature will be rejected for use in the work.

Gradation, air voids and asphalt content of the mix will be determined by the County during production at the minimum frequency of once per 1,000 ton LOT produced. The producer shall also verify the gradation, air voids and asphalt content at a frequency of once per 200 Ton Sublot or a minimum of once per day.

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The Successful Bidder shall maintain split samples of each day's production for verification testing by the County. Each split sample shall be properly boxed and labeled with the Lot#, Sublot#, date and mix design number. These split samples shall be stored for a period of 30 days, and shall be provided to the County upon request in order to determine the disposition of a whole or partial lot. Should any verification test result fall outside of the tolerance listed in Table 1.1, the County will determine the removal and replacement of failing material at no cost to the County. Production shall be suspended until the County is satisfied that proper corrective action has been taken.

(IV.21) BASIS OF PAYMENT

All bid items specified shall be paid under the respective pay item noted on the Bid Form.

(IV.22, IV.23, IV.24 AND IV.25) MICRO SURFACING

The work specified in this section includes construct a micro surfacing pavement with the type of mixture specified in the release order. Micro surfacing is a mixture of polymer-modified emulsified asphalt, mineral aggregate, mineral filler, water, and other additives, properly proportioned, mixed and spread on a paved surface.

The mix shall be capable of being spread in variable thickness cross-sections (wedges, ruts, scratch courses and surfaces) which, after curing and initial traffic consolidation, resists compaction throughout the entire design tolerance range of asphalt binder content and variable thickness to be encountered. The end product shall maintain a skid-resistant surface in variable thick sections throughout the service life of the micro surfacing.

The mix shall be a quick-traffic system that will be able to accept straight rolling traffic one hour after application.

Materials**Emulsified Asphalt**

General Requirements: Provide a quick-traffic, polymer-modified emulsified asphalt conforming to the requirements specified in AASHTO M 208 for CSS-1h as listed in Table 335-1. The cement mixing test shall be waived for this product.

The polymer material shall be co-milled into the asphalt or added to the emulsifier solution prior to the emulsification process. The amount of polymer modifier shall not be less than 3.0% polymer solids based on the asphalt content (by weight) and will be certified by the emulsified asphalt supplier.

The County may waive the five-day settlement test, provided job-stored emulsified asphalt is used within 36 hours from the time of the shipment or the stored material has had additional emulsified asphalt blended into it prior to use.

Quality Tests: The emulsified asphalt, and emulsified asphalt residue, shall meet the requirements of AASHTO M 208 for CSS-1h, with the additions noted in Table 335-1.

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Table 335-1 Quality Tests for Emulsified Asphalt		
AASHTO Test No.	Emulsified Asphalt Property	Specification Requirements
AASHTO T 59	Residue after Distillation ⁽¹⁾	62% Minimum
AASHTO T 59	Cement Mixing	NONE
Quality Tests for Emulsified Asphalt Residue		
AASHTO T 53	Softening Point	135°F (57°C) Minimum
(1) Maintain the test temperature at 350°F (177°C) for 20 minutes.		

Sampling, Certification, and Verification: For the first load of emulsified asphalt produced for the project, the supplier shall submit a sample to the owning agency's designated laboratory for testing before use. When applicable, a pretest number will then be assigned by the designated laboratory, which shall be furnished with all emulsified asphalt delivered to the project.

At any time during application, the County may sample and test all subsequent loads of emulsified asphalt delivered to the project to verify and determine compliance with specification requirements. Where these tests identify material outside specification requirements, the County may require the supplier to cease shipment of that pre-tested product. Further shipment of that pre-tested product to the owning agency's projects will remain suspended until the cause of the problem is evaluated and corrected by the supplier to the satisfaction of the County. Proper sampling and handling techniques are required, and the testing shall be completed within seven days of the sample being taken. Refer to AASHTO T 40 for emulsified asphalt sampling procedures.

Aggregate

General: Use an aggregate consisting of 100% crushed stone. The aggregate shall be a crushed stone such as granite, slag, limestone, chat, or other high-quality aggregate, or a combination thereof. To assure the material is 100% crushed, the parent aggregate will be larger than the largest stone in the gradation used. Use aggregate source(s) from the list of aggregates available on the Florida Department of Transportation's website and also meeting the requirements of this specification. The URL for obtaining the list of aggregates is:

<http://ftp.dot.state.fl.us/fdot/smo/website/sources/frictioncourse.pdf>.

Aggregate Quality Tests: In addition to the requirements of FDOT Standard Specification Sections 901 and 902, meet the minimum aggregate requirements of Table 335-2.

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Table 335-2 Quality Tests for Aggregate		
AASHTO Test No.	Aggregate Property	Specification Requirements
AASHTO T 176	Sand Equivalent	65 Minimum
AASHTO T 104	Soundness	15% Maximum using Na ₂ SO ₄ or 25% Maximum using MgSO ₄
AASHTO T 96	Abrasion Resistance ⁽¹⁾	30% Maximum
(1) The abrasion test will be performed on the parent aggregate.		

Gradation Requirements: When tested in accordance with AASHTO T 27 and AASHTO T 11, the target (mix design) aggregate gradation, including the mineral filler, shall be within the gradation range for a Type II or Type III mixture shown in Table 335- 3.

Table 335-3 Aggregate Gradation Requirements			
Sieve Size	Type II Mix Design Range Percent Passing	Type III Mix Design Range Percent Passing	Stockpile Tolerance from Mix Design Percent Passing
3/8 inch	100	100	N/A
No. 4	90 – 100	70 – 90	± 5%
No. 8	65 – 90	45 – 70	± 5%
No. 16	45 – 70	28 – 50	± 5%
No. 30	30 – 50	19 – 34	± 5%
No. 50	18 – 30	12 – 25	± 4%
No. 100	10 – 21	7 – 18	± 3%
No. 200	5 – 15	5 – 15	± 2%

The aggregate will be accepted from the stockpile located at the project. The stockpile will be accepted based on five quality control gradation tests conducted in accordance with AASHTO T 2 and one sand equivalency test conducted in accordance with AASHTO T 176. If the average of the five gradation tests is within the stockpile tolerances shown in Table 335-3 for all of the sieve sizes, and the one sand equivalent test meets the requirement shown in Table 335-2, then the stockpile is accepted. If the average of the five gradation tests is not within the stockpile tolerances shown in Table 335-3 for any sieve size, remove the stockpiled material and replace it with new aggregate or blend other aggregate sources with the stockpiled material. Aggregates used in blending must meet the quality tests shown in Table 335-2 before blending and must be blended in a manner to produce a consistent gradation and sand equivalent value. If the sand equivalent quality control test does not meet the criteria shown in Table 335-2, remove the stockpiled material and replace it with new aggregate.

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If new aggregate is obtained or blending of aggregates is performed resulting in an aggregate that is not represented by the mix design, submit a new mix design to the County for approval prior to production of the mix.

The County may obtain stockpile samples at any time. If the average of five gradation tests conducted in accordance with AASHTO T 2 is not within the gradation tolerances shown in Table 335-3 for any sieve size, or if the sand equivalent value does not meet the requirements of Table 335-2, cease production until the problem is corrected to the satisfaction of the County.

All stockpiled aggregates shall be screened at the stockpile area prior to delivery to the paving machine to remove oversize material and non-desirable particles. The screened aggregate will be placed directly into the nurse truck or into the micro surfacing mixing machine, depending on whether continuous or truck mounted machines are used. Screened aggregate may not be placed on the ground prior to mixture laydown.

Mineral Filler: Utilize non air-entrained Portland cement or hydrated lime that is free from lumps. The county will accept the mineral filler by visual inspection. The type and amount of mineral filler shall be determined by a laboratory mix design and will be considered as part of the aggregate gradation. An increase or decrease of less than one percent mineral filler may be permitted during production if it is found to result in better consistency or set times. Any changes to the percentage of mineral filler must meet the requirements of Table 335-5.

Water: Utilize water that is potable and free of harmful soluble salts, reactive chemicals, or any other contaminants.

Additives: Additives may be added to the mixture or any of the component materials to provide control of quick-trafficking properties. The additives to be used should be indicated on the mix design and be compatible with the other components of the mix.

Mix Design

Before work begins, the Successful Bidder shall submit a mix design to the County. The mix design must have been developed within the last year using the specific materials to be used on the project. Mix designs shall be developed by laboratories with experience in designing micro surfacing mixtures. When requested by the County, the mix design shall be verified by an independent laboratory not affiliated with the emulsion supplier or the Successful Bidder. Verification shall include confirmation of the mix design results for wet cohesion and 1 hour wet track abrasion loss. Projects requiring rut filling, or multilayer application, shall also require lateral displacement confirmation.

Submit the proposed mix design with supporting test data indicating compliance with all mix design criteria. Allow the County a maximum of one week to either conditionally verify or reject the mix design.

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Meet the requirements provided in Table 335-4. After the mix design has been approved, no substitutions to the mix design will be permitted, unless approved by the County. The County will consider inadequate field performance of a mix as sufficient evidence that the properties of the mix related to the mix design have changed.

The release order project will be stopped until it is demonstrated that those properties, or issues, have been sufficiently addressed.

Table 335-4 Mix Design Testing Requirements		
ISSA Test No.	Property	Specification Requirements
ISSA TB-139 ⁽¹⁾	Wet Cohesion: @ 30 Minutes Minimum (Set) @ 60 Minutes Minimum (Traffic)	12 kg-cm Minimum 20 kg-cm or Near Spin Minimum
ISSA TB-109	Excess Asphalt by Loaded Wheel Tester (LWT) Sand Adhesion	50 g/ft ² Maximum
ISSA TB-114	Wet Stripping	90% Minimum
ISSA TB-100	Wet-track Abrasion Loss: One-hour Soak Six-day Soak	50 g/ft ² Maximum 75 g/ft ² Maximum
ISSA TB-147	Lateral Displacement Specific Gravity after 1,000 Cycles of 125 lb.	5% Maximum 2.10 Maximum
ISSA TB-113 ⁽¹⁾	Mix Time @ 77°F (25°C)	Controllable to 120 Seconds Minimum
(1) The Cohesion test and Mixing Time test should be checked and reported for the highest temperatures expected during construction.		

The mix design must clearly show the proportions of aggregate, emulsified asphalt, mineral filler, water, and additive usage based on the dry weight of the aggregate. Meet the mix design component material requirements provided in Table 335-5.

Table 335-5 Mix Design Component Material Requirements	
Component Materials	Specification Requirements
Residual Asphalt	5.5 to 10.5% (by dry weight of aggregate)
Mineral Filler	0.5 to 3.0% (by dry weight of aggregate)
Polymer-based Modifier	Minimum of 3.0% (solids based on asphalt weight content)
Additives	As needed
Water	As required to produce proper mix consistency

The materials (aggregates, emulsion, mineral filler, and additives) must be from the same source, grade and type used to develop the approved mix design. Any substitutions or alternate supplies must be preapproved by the County.

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Changes in the aggregate source or emulsion source requires re-validating the mix design and the performance properties. Blending, co-mingling and otherwise combining materials from two or more sources, grades or types not noted in the approved Mix Design is strictly prohibited. Aggregate stockpiles and emulsion material should be located at or near the job site in sufficient quantity for the job or designated parts of the job.

Equipment

General: Maintain all equipment, tools, and machines used in the performance of this work in satisfactory working condition at all times to ensure a high-quality product.

Mixing Equipment: Use a machine specifically designed and manufactured to place micro surfacing. Truck mounted and self-loading continuous machines are acceptable. Mix the material with an automatic-sequenced, self-propelled micro surfacing mixing machine. It shall be a continuous-flow mixing unit able to accurately deliver and proportion the mix components through a revolving multi-blade, double-shafted mixer and to discharge the mixed product on a continuous-flow basis. The machine shall have sufficient storage capacity for all mix components to maintain an adequate supply to the proportioning controls.

Self-loading continuous machines shall be capable of loading materials while continuing to lay micro surfacing, thereby minimizing construction joints. Self-loading continuous machines shall be equipped to allow the operator to have full control of the forward and reverse speeds during applications of the micro surfacing material and 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 original equipment-manufacturer design.

Proportioning Device: Provide and properly mark individual volume or weight controls for proportioning each material to be added to the mix (i.e., aggregate, mineral filler, emulsified asphalt, additives, and water).

Spreading Equipment: Agitate and spread the mixture uniformly in the spreader box by means of twin-shafted paddles or spiral augers fixed in the spreader box. Provide a front seal to ensure 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 to hydraulically adjust the box width automatically while traveling behind the mixing unit, and be able to side shift the box to compensate for variations in the pavement geometry.

Secondary Strike-off: Provide a secondary strike-off to improve surface texture. The secondary strike-off shall have the same adjustments as the spreader box.

Rut-filling Equipment: When required by the plans, micro surfacing material may be used to fill ruts, utility cuts, depressions in the existing surface, etc.

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When rutting or deformation is less than 1/2 inch, a full width scratch course may be applied with the spreader box using a metal or stiff rubber strike-off. Ruts of 1/2 inch or greater in depth shall be filled independently with a rut-filling box, either five or six feet in width. Ruts that are in excess of 1-1/2 inch in depth may require multiple applications with the rut-filling box to restore the cross-section.

When a rut box is used, emulsified asphalt content may be reduced by 0.5% of the mix design target. Any reduction of emulsified asphalt content must be within the tolerance of the job mix formulation listed in the mix design. Material placed with the rut-filling box shall have a 1/4 inch crown to allow for traffic consolidation. Before placing subsequent lifts, allow all rut-filling material to cure under traffic for at least 24 hours.

Auxiliary Equipment: Provide suitable surface preparation equipment, traffic control equipment, hand tools, and any other support and safety equipment necessary to perform the work.

Calibration

Calibrate each mixing unit to be used in the performance of the work in the presence of the County prior to the start of construction. Previous calibration documentation covering the exact materials to be used may be acceptable, provided that no more than 60 days have lapsed. Document the individual calibration of each material at various settings, which can be related to the machine metering devices. Do not utilize any mixing unit on the project until the calibration has been completed and approved by the County. 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 accepted.

Weather Limitations

Do not apply micro surfacing if either the pavement or air temperature is below 50°F and falling. Micro surfacing may be applied when both pavement and air temperatures are 45°F and rising. Do not apply micro surfacing when there is the possibility that the finished product will freeze within 24 hours. Do not apply micro surfacing in the rain or when there is standing water on the pavement. The mixture shall not be applied when weather conditions prevent opening to traffic within a reasonable amount of time, as determined by the County.

Surface Preparation

General: Remove any thermoplastic striping materials and retro-reflective pavement markers in the areas to be micro surfaced. Provide temporary striping as necessary to comply with task requirements. Immediately prior to applying the micro surfacing, clear the surface of all loose material, silt spots, vegetation, and other material that will negatively affect the quality of the micro surfacing, utilizing any standard cleaning method. If water is used for cleaning, allow any unsealed cracks to dry thoroughly before applying micro surfacing. Protect manholes, valve boxes, drop inlets and other service entrances from the micro surfacing mixture by a suitable method. The County will approve the surface preparation prior to micro surfacing. No loose aggregate, either spilled from the lay-down machine or existing on the road, will be permitted.

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Cracks: If the plans call for crack filling prior to construction of the micro surfacing treatment, pre-treat any cracks in the surface of the pavement with a crack filler meeting the material requirements of FDOT Developmental Specification Section 305 prior to the application of the micro surfacing. Fill any cracks with a width greater than 1/4 inch. Do not overfill the cracks. Crack filling material must cure for a minimum of 30 days prior to application of the micro surfacing.

Rumble Strips: Where shoulders are not to be micro surfaced, prevent material from being applied to or entering any rumble strip depressions. If necessary, remove any material that enters the depressions. When rumble strips are to be micro surfaced, place a scratch course to fill the depressions prior to placing the final surface course.

Tack Coat: Place a tack coat on all concrete or brick pavement prior to constructing a micro surfacing course. In general, the County will not require a tack coat on asphalt pavements except in areas that are extremely dry or raveled, as determined by the County. If required, the tack coat should be type SS, type CSS, or the micro surfacing emulsified asphalt. It may consist of one part emulsified asphalt to 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 square yard.

Test Strip

Construct a test strip for the County to evaluate. The test strip should be performed in similar conditions as those expected during actual application. The test strip shall be 1,000 feet in length at a location not associated with the project within reasonable proximity to the project staging area. The intention of the test strip is to assure adequate workmanship, aesthetics and that the cure time of the mixture is achievable when applied with the personnel, equipment and materials intended for use during execution of the project. Acceptable cure time is defined by the ability of the test strip to accept rolling traffic within one hour after placement. Full production may begin once the test strip has been accepted by the County.

If the County deems the test strip to be unacceptable, the Successful Bidder shall make any necessary changes. Once the County is satisfied that the cause of the problem has been remedied, the Successful Bidder may resubmit a new test strip for evaluation.

Application

General: Pre-wet the surface by fogging ahead of the spreader box with water. Adjust the rate of application of the fog spray to suit temperatures, surface texture, humidity, and dryness of the pavement.

The micro surfacing shall be of the desired consistency upon leaving the mixer. Carry a sufficient amount of material in all parts of the spreader box at all times so that complete coverage is obtained. Avoid overloading of the spreader box. Do not allow lumping, balling, or unmixed aggregate in the micro surfacing mixture. Do not leave streaks, such as those caused by oversized aggregate, in the finished surface.

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If excess streaking develops, stop production until the situation has been corrected. Excessive streaking is defined as more than four drag marks greater than 1/2 inch wide and 4 inches long, or 1 inch wide and 3 inches long, in any 30 square yard area. Do not permit transverse ripples or longitudinal streaks of 1/4 inch in depth or greater, when measured by placing a 10 foot straight edge over the surface.

Rate of Application: The average single application rate, as measured by the Successful Bidder, shall be in accordance with Table 335-6, unless otherwise specified

in the plans. Full width application rates must be maintained within plus or minus 2 pounds per square yard of the specified rate. Application rates are based upon the weight of dry aggregate in the mixture. The maximum thickness of any single layer of micro surfacing at the edge of the pavement shall be 1/4 inch.

Table 335-6 Rate of Application			
AGGREGATE TYPE	LOCATION	SUGGESTED APPLICATION RATE ⁽¹⁾	
Type II	Collectors, Local Roads, and Airport Runways	Single Application: 15-21 lbs./yd ²	Double Application (two lifts): Bottom: 14-18 lbs./yd ² Top: 16-20 lbs./yd ² Total: 30-34 lbs./yd ²
	Scratch or Leveling Course	As Required --- 14 lb./yd ² (minimum)	
Type III	Interstate, Arterial Routes, and Wheel Ruts	Single Application: 18-26 lbs./yd ²	Double Application (two lifts): Bottom: 16-22 lbs./yd ² Top: 18-22 lbs./yd ² Total: 34-44 lbs./yd ²
	Scratch or Leveling Course	As Required --- 16 lb./yd ² (minimum)	
(1) Suggested application rates are based upon the weight of dry aggregate in the mixture.			

Joints: Prevent excessive buildup, uncovered areas, or unsightly appearance on longitudinal and transverse joints. Provide suitable-width spreading equipment to produce a minimum number of longitudinal joints throughout the project. Place longitudinal joints on lane lines, where possible. Use half passes and odd-width passes only when absolutely necessary. Do not apply a half pass as the last pass of any area. Do not overlap longitudinal lane line joints by more than three inches. Do not construct joints having more than a 1/4 inch difference in elevation when measured by placing a 10 foot straight edge over the joint and measuring the elevation drop-off. Construct longitudinal joints so that water is not held at the joint. Construct transverse joints at the beginning and end project limits so that the elevation difference the micro surfacing and the adjacent pavement does not exceed 1/4 inch.

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Mix Stability: Produce a micro surfacing mixture that possesses 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. The mixture shall be free of excess water or emulsified asphalt and free of segregation of the emulsified asphalt and aggregate fines from the coarser aggregate. Do not spray water directly into the spreader box while applying micro surfacing material under any circumstances.

Handwork: Utilize hand squeegees to provide complete and uniform coverage of micro surfaced areas that cannot be reached with the mixing machine. Lightly dampen the area to be hand worked prior to mix placement, if necessary.

Care shall be exercised to leave no unsightly appearance from handwork. When performing handwork, provide the same type of finish as that applied by the spreader box.

Lines: Construct straight lines along curbs and shoulders. Do not permit runoff on these areas. Keep lines at intersections straight to provide a good appearance. If necessary, utilize a suitable material to mask off the end of streets to provide straight lines. Edge lines shall not vary by more than 2 inches horizontally.

Cleanup: Remove micro surfacing mixture from all areas such as manholes, gutters, drainage structures, rumble strips, and as otherwise specified by the County. On a daily basis, remove any debris resulting from the performance of the work.

Post Sweeping: If required by the County, broom the surface of any loose material within 48 hours after the completion of the micro surfacing. If directed by the County, perform this operation again approximately seven to ten days after completion of the micro surfacing as needed. Additionally, clean the surface, as necessary, prior to application of the final pavement markings.

Quality Control and Assurance.

General: Produce a mixture that will meet the mix design and the quality control (QC) tolerances specified in Table 335-7. Notify the County immediately if QC test results exceed the tolerances specified in Table 335-7, and stop mix production. Identify the cause of the deviation, and determine the corrective action necessary to bring the mixture into compliance. Obtain the County's approval before resuming work.

The County reserves the right to verify, at agency cost, QC test accuracy by an independent laboratory not heretofore associated with the project. If the County identifies a condition that causes an unsatisfactory micro surfacing treatment, immediately stop production work and correct the defect at no additional cost.

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Table 335-7							
Micro Surfacing Quality Control Tolerances							
Aggregate Gradation Tolerances (±)							
Sieve Size	No. 4	No. 8	No. 16	No. 30	No. 50	No. 100	No. 200
Tolerance	5.0%	5.0%	5.0%	5.0%	4.0%	3.0%	2.0%
General Quality Control Tolerances (±)							
Parameter				Tolerance			
Asphalt Cement Content Single Test				0.5% from mix design			
Asphalt Cement Content Daily Average				0.2% from mix design			
Application Rate (as determined by 1,000 ft yield checks)				2 lb./yd ²			
Sand Equivalent Test (ASTM D2419)				7% from mix design			

Successful Bidder's Quality Control Plan: Provide and follow a QC plan that will maintain QC for production and construction processes. Provide the County with a copy of the QC plan for review and approval before the pre-construction meeting. Include, at a minimum, the following items:

- The source materials used on the project.
- Sampling and testing methods used to determine compliance with material specifications.
- The equipment to be used on the project.
- Calibration method used to determine compliance with the mix design.
- Pavement cleaning and preparation procedure.
- Plan for protecting micro surfacing mixture from damage by traffic.
- Procedure for monitoring initial acceptance requirements.
- An action plan demonstrating adjustments of the micro surfacing operation for adverse environmental conditions.

Minimum Sampling and Testing Frequency

Fine Aggregate Gradation: Sample fine aggregate from the project stockpile and test for gradation and sand equivalency. Perform one test per 500 tons of fine aggregate.

At the discretion of the County an alternative would allow certification of an entire stockpile. The stockpile will be accepted based on five quality control gradation tests conducted in accordance with AASHTO T 2 and five sand equivalency tests conducted in accordance with AASHTO T 176. If the average of the five gradation tests is within the stockpile tolerances shown in Table 335-3 for all of the sieve sizes and the five sand equivalent tests meets the requirement shown in Table 335-2, then the stockpile is accepted.

Asphalt Content: Calculate the percent asphalt content of the mixture at least three times per day. The County on-site representative shall randomly determine the timing for the readings used to calculate asphalt content.

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Application Rate: Calculate the yield of the course placed at least three times per day. The County on-site representative shall randomly determine the timing for the readings used to calculate application rate.

Documentation: Complete a daily report that includes the following information:

- Job number
- Route/Street Name(s)
- County's On-Site Representative
- Date
- Air temperature – Min/Max (during application)
- Unit weight of emulsion (pounds per gallon)
- Beginning and ending application locations
- Counter readings (beginning, ending, and total difference)
- Total area (square yards)
- Aggregate weight
- Gallons of emulsion
- Application rate (pounds per square yard)
- Successful Bidder's authorized signature
- QC aggregate properties (if required)
- Asphalt emulsion bill of lading(s)

Acceptance

Allow the County access to in-progress work for quality assurance review and testing. Upon completion of work, schedule an inspection with the County. The County will note deficiencies. Any deficiencies identified during this process will be addressed by the Successful Bidder at no additional cost.

(IV.22, IV.23, IV.24 AND IV.25) BASIS OF PAYMENT

The micro surfacing (referencing FDOT No. 335-1) shall be paid for at the unit price per square yard, completed and accepted. Such price and payment shall be full compensation for performing all work included in this section, and shall include the cost of all materials, including the cost of the emulsified asphalt and aggregate. Crack sealing, if required, shall be paid for under the appropriate pay item.

(IV.26) CONSTRUCTION SEALING OF ASPHALTIC CONCRETE SURFACES COURSES WITH AN ASPHALT REJUVENATING AGENT

(IV.27) RESTORATIVE SEALING OF ASPHALT PAVEMENT WITH ASPHALT REJUVENATIVE AGENT RESTRICTIVE SEAL

(IV.28) ASPHALT REJUVENATING AGENT

(IV.29) ASPHALT REJUVENATING EMULSION

The work specified in the section shall consist of furnishing all labor, equipment, and material, in performing all operations necessary for the rejuvenation and in-depth sealing of asphaltic-concrete surface course by spray application of a cationic rejuvenating agent composed of petroleum oils and resins emulsified with water, complete, in accordance with the specifications, the applicable drawings and subject to the terms and conditions of the blanket purchase order.

SECTION E – TECHNICAL SPECIFICATIONS**MATERIAL**

The asphalt rejuvenating agent shall be composed of a petroleum resin oil base uniformly emulsified with water. Each bidder must submit with his bid a certified statement from asphalt rejuvenator manufacturer showing that the asphalt rejuvenating emulsion conforms to the following physical and chemical requirements.

SPECIFICATIONS**Test Method Requirements**

Tests	ASTM	AASHTO	Min.	Max.	
Test on Emulsion:					
Viscosity @ 25°C, SFS	I	D244	T-59	15	40
Residue, % W (1)		D244 (Mod.)	T-59(Mod.)	60	65
Miscibility Test (2)		D244 (Mod.)	T-59(Mod.)	No	
Coagulation					
Sieve Test, % W (3)		D244 (Mod.)	T-59(Mod.)		0.1
Particle Charge Test		D244	T-59		
Positive					
Percent Light Transmittance (4)	GB	GB	30		
 Test on Residue from Distillation:					
	ASTM	AASHTO	Min.	Max.	
Flash Point, COC, °C	D-92	T-48	196	-	
Viscosity @ 60°C, cSt	D-445	-	100	200	
Asphaltenes, %w	D-2006-70	-	-	1.00	
Maltene Dist. Ratio	D-2006-70	-	0.3	0.6	
PC + A ₁ (5)					
S + A ₂ (5)					
PC/S Ratio	D-2006-70	-	0.5	-	
Saturated Hydrocarbons, S (5)	D-2006-70		21	28	

- A. ASTM D-244 Modified Evaporation Test for percent of residue is made by heating 50 gram sample to 149°C (300°F) until foaming ceases, then cool immediately and calculate results.
- B. Test procedure identical with ASTM D-244 except that 0.2 Normal Calcium Chloride solution shall be used in place of distilled water.
- C. Test procedure identical with ASTM D-244 except that distilled water shall be used in place of two percent sodium oleate solution.
- D. Test procedure is attached.

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E. Chemical composition by ASTM Method D-592006-70:

PC = Polar Compounds

A₁ = First Acidaffins

A₂ = Second Acidiaffins

S = Saturated Hydrocarbons

The rejuvenating agent shall have a record of at least five years of satisfactory service as an asphalt rejuvenating agent and in-depth sealer; such satisfactory service being based on the capability of the material to significantly decrease the viscosity and increase penetration value of the asphalt binder in the pavement surface to depth of at least three eighths inch (3/8") and to seal the pavement in-depth to the intrusion of air and water.

The bidder should submit with his bid the manufacturer's certification that the material proposed for use is in compliance with the specification requirements; and previous use documentation and test data conclusively demonstrating that the rejuvenating agent has been used successfully for a period of five years by government agencies as to the required change in asphalt binder viscosity and penetration number. Testing data shall be submitted indicating such product performance. The product RECLAMITE, or approved equal, is acceptable for these requirements.

PRODUCT STANDARDS AND ALTERNATES

The name or (brand) named in this specification, whether or not the words "**or approved equal**" are used, shall be known as standard. The price bid shall be based on the standard specified herein. Should a bidder wish to submit a bid for an Alternate to the standard specified; bidder shall indicate "Alternate Bid" on the Bid Form and submit the following:

1. List the proposed Alternate on the Bid Form with the product name and price.
2. Furnish complete specifications and descriptive literature for the Alternate as well as a one-gallon sample of the material proposed for use. Such descriptive detailed information shall be complete and at least equal in detail to the specification requirements for the standard item for which the alternate is offered.

The Alternate will be given consideration by the County. The Successful Bidder may furnish only those Alternate items included in his bid and approved by the County prior to award of blanket purchase order.

PROCEDURE FOR DETERMINING PERCENT LIGHT TRANSMITTANCE OF EMULSIONS

A. APPARATUS

1. Container may be glass, plastic or metal having a capacity of 6,000 ml.

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2. Graduated cylinder, 1,000 ml, or greater.
3. Light transmittance measuring apparatus, such as Bausch and Lomb or Lumitron spectrophotometer.
4. Graduated pipette having 1 ml capacity to 0.01 ml accuracy.
5. Suction bulb for use with pipette.
6. Test tubes compatible with spectrophotometer, 3/4 " x 6", Bausch and Lomb, Catalog #33-17-81, (B&L).

B. CALIBRATION OF SPECTROPHOTOMETER

1. Calibrate spectrophotometer as follows:
 - (a) Set wavelength at 580 mμ,
 - (b) Allow spectrophotometer to warm-up thirty minutes,
 - (c) Zero percent light transmittance (%LT) scale,
 - (d) Rinse test tube three times with tap water and fill to top of circle marking on B&L test tube or approximately 2/3 full,
 - (e) Place tube in spectrophotometer and set %LT scale at 100, and (f) Repeat steps (c) and (e) two times or until no further adjustments are necessary.
2. Calibrate the emulsion samples test tube as follows:
 - (a) Rinse out test tube with tap water three times and fill to top of circle mark,
 - (b) Calibrate spectrophotometer,
 - (c) Test tube may be used for the emulsion samples. If the %LT is not 100, repeat steps (a) through (c) with other test tubes until one is found with a reading of 100% LT.

C. PROCEDURE

1. Shake, stir or otherwise thoroughly mix emulsion to be tested. Place sample of emulsion in beaker and allow to stand one minute.
2. Place 2,000 ml tap water in container.
3. Suck 1.00 ml emulsion into pipette using suction bulb. Wipe off outside pipette.
4. Using suction bulb, blow emulsion into container.
5. Rinse pipette by sucking in diluted emulsion solution and blowing out. Continue until pipette is clean.
6. Clean pipette with soap or solvent and water. Rinse with acetone.
7. Stir diluted emulsion thoroughly.
8. Rinse out tube to be used with the diluted emulsion three times and fill to top of circle.
9. Calibrate spectrophotometer.

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10. Place diluted emulsion sample tube in spectrophotometer, cover and read %LT to nearest integer.
11. Repeat steps 9 and 10 until three identical consecutive readings are achieved.

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12. The elapsed time between addition of emulsion to dilution of water and final %LT reading should not exceed 5 minutes.

If no Alternate is indicated on the Bid Form, the Successful Bidder shall furnish the standard (brand) specified. Should the Alternate offered be found unacceptable by the County based on the data submitted with the bid and/or no bid is entered on the Bid Form for the standard, then said bid will be considered non-responsive.

APPLICATION TEMPERATURE

The temperature of the emulsion at the time of application shall be as recommended by the manufacturer.

HANDLING OF ASPHALT REJUVENATING AGENT

Contents in tank cars or storage tanks shall be circulated at least ten minutes before withdrawing any material for application. When loading the distributor, the asphalt rejuvenating agent concentrate shall be loaded first and then the required amount of water shall be added. The water shall be introduced into the distributor with enough force to cause agitation and thorough mixing of the two materials.

To prevent foaming, the discharge end of the water hose or pipe which shall be used as a spreader shall be kept below the surface of the material in the distributor. It will be cleaned of all of its asphalt materials and washed out to the extent that no discoloration of the emulsion may be perceptible. Cleanliness of the spreading equipment shall be subject to the approval and satisfaction of the County.

The distributor for spreading the emulsion shall be self-propelled, and shall have pneumatic tires. The distributor shall be designed and equipped to distribute the emulsion uniformly on variable widths of surface at readily determined and controlled rates from 0.05 to 0.5 gallons per square yard of surface, and with an allowable variation from any specified rate not to exceed 5 percent.

Distributor equipment shall include full circulation spray bars, pump, tachometer, volume measuring device and a hand hose attachment suitable for application of the emulsion manually to cover areas or patches inaccessible to the distributor. The distributor shall be equipped to circulate and agitate the emulsion within the tank.

A check of distributor rate and uniformity of distribution shall be made when directed by the County.

WEATHER LIMITATIONS

The emulsion shall be applied only when the existing surface to be treated is thoroughly dry and when the weather is clear and is not threatening to rain. The emulsion shall not be applied when the atmospheric temperature is below 40 degrees F.

APPLICATING EQUIPMENT:

The distributor for spreading the emulsion shall be self-propelled, and shall have pneumatic tires.

SECTION E – TECHNICAL SPECIFICATIONS

The distributor shall be designed and equipped to distribute the asphalt rejuvenating agent uniformly on variable widths of surface at readily determined and controlled rates from 0.05 to 0.5 gallons per square yard of surface, and with an allowable variation from any specified rate not to exceed 5 percent of the specified rate. The rate of application shall be computer controlled such that the selected rate of application remains constant at any variation in speed of the vehicle.

Distributor equipment shall include full circulation spray bars, volume measuring device and a hand hose attachment suitable for application of the emulsion manually to cover areas inaccessible to the distributor. The distributor shall be equipped to circulate and agitate the emulsion within the tank.

A check of distributor equipment as well as application rate accuracy and uniformity of distribution shall be made when directed by the County.

The truck used for applying sand shall be equipped with a spreader that allows the sand to be uniformly distributed onto the pavement. The spreader shall be able to apply 1/2 pound to 3 pounds of sand per square yard in a single pass. The spreader shall be adjustable so as not to broadcast the sand onto driveways or tree lawns.

The sand to be used shall be free flowing, without any leaves, dirt, stones, etc. Any wet sand shall be rejected from the job site.

Any equipment that is not maintained in full working order, or is proven inadequate to obtain the results prescribed, shall be repaired or replaced at the direction of the County.

APPLICATION

The asphalt-rejuvenating agent shall be applied by a distributor truck at the temperature recommended by the manufacturer and at the pressure required for the proper distribution. The emulsion shall be so applied that uniform distribution is obtained at all points of the areas to be treated. Areas inadvertently missed shall receive additional treatment as may be required by hand sprayer application.

Application of asphalt rejuvenating agent shall be on one-half width of the pavement at a time. When the second half of the surface is treated, the distributor nozzle nearest the center of the road shall overlap the previous application by at least one-half the width of the nozzle spray. In any event the centerline construction joint of the pavement shall be treated in both application passes of the distributor truck.

Before spreading, the asphalt rejuvenating agent shall be blended with water at the rate of two (2) parts rejuvenating agent to one (1) part water, by volume or as specified by the manufacturer for conditions. The combined mixture of asphalt rejuvenating agent and water shall be spread at the rate of 0.05 to 0.10 gallons per square yard, or as approved by the County following field testing.

Where more than one application is to be made, succeeding applications shall be made

SECTION E – TECHNICAL SPECIFICATIONS

as soon as penetration of the preceding application has been completed and the County grants approval for additional applications.

Grades or super elevations of surfaces that may cause excessive runoff, in the opinion of the County, shall have the required amounts applied in two or more applications as directed.

After the rejuvenating emulsion has penetrated, a light coating of sand shall be applied to the surface in sufficient amount to protect the traveling public as required by the County. The sand shall be swept and removed from the streets and properly disposed of at the Successful Bidder's expense within 24 hours of application.

The Successful Bidder shall furnish a quality inspection report showing the source, manufacturer, and the date shipped, for each load of asphalt rejuvenating agent. When directed by the County, the Successful Bidder shall take representative samples of material for testing.

The rejuvenating agent shall be applied by an experienced applicator of such material. The applicator shall have a minimum of three years' experience in applying the product proposed for use. He should submit with his bid a list of the last five projects on which he applied said rejuvenator. He is to indicate the project date, number of square yards treated in each and the name and telephone number of the contact for each project.

STREET SWEEPING

The Successful Bidder shall be responsible for sweeping and cleaning of the streets prior to, and after treatment.

Prior to treatment, the street will be cleaned of all standing water, dirt, leaves, foreign materials, etc. This work shall be accomplished by hand-brooming, power blowing or other approved methods. If, in the opinion of the County, the hand cleaning of the pavement surface is not sufficient than a self-propelled street sweeper shall be used to insure complete surface cleaning.

All sand used during the treatment must be removed no later than 24 hours after treatment of the street. This shall be accomplished by a combination of hand and mechanical sweeping. All turnouts, cul-de-sacs, etc. must be cleaned of any material to the satisfaction of the County. Street sweeping will be included in the price bid per square yard for asphalt rejuvenating agent.

If, after sand is swept and in the opinion of the County a condition exists on the roadway, the Successful Bidder must apply additional sand and sweep same no later than 24 hours following reapplication. No additional compensation will be allowed for reapplication and removal of sand.

TRAFFIC

The Successful Bidder shall schedule his operations and carry out the work in a manner to cause the least disturbance and/or interference with the normal flow of traffic over the areas to be treated.

SECTION E – TECHNICAL SPECIFICATIONS

Treated portions of the pavement surfaces shall be kept closed and free from traffic until penetration, in the opinion of the County, has become complete and the area is suitable for traffic.

When, in the opinion of the County, traffic must be maintained at all times on a particular street, then the Successful Bidder shall apply asphalt rejuvenating agent to one lane at a time. Traffic shall be maintained in the untreated lane until the traffic may be switched to the completed lane.

The Successful Bidder shall be responsible for all traffic control and signing required to permit safe travel. The Successful Bidder shall notify the police and fire departments as to the streets that are to be treated each day.

If, in the opinion of the County, proper signing is not being used, the Successful Bidder shall stop all operations until safe signing and barricading is achieved.

METHOD OF MEASUREMENT

Construction sealing with rejuvenating agent will be measured by the square yard.

(IV.26, IV.27, IV.28 and IV.29) BASIS OF PAYMENT

The accepted quantities for construction sealing with asphalt rejuvenating agent, measured as provided for above, shall be paid for under the respective pay item noted on the Bid Form which shall be full compensation for furnishing all materials, equipment, labor, and incidentals to complete the work as specified.

REGULATORY COMPLIANCE

The County shall furnish applicable compliance with Florida Department of Environmental Regulation, Florida Department of Natural Resources, and U.S. Environmental Protection Agency rules and regulations. Links provided at front of technical specifications.

(IV.30) PAVEMENT MILLING

Furnish all necessary labor, equipment, and materials to cold-mill existing asphaltic-concrete surfaces to depths specified.

This item may be used to remove underlying base material after asphaltic-concrete is removed.

If two or more passes are required to remove the designated material, the unit price based on total area (number of passes times surface area) will be applied to each pass.

Example / 3,000 sy surface area: First Pass - Remove 1 ¼" asphaltic-concrete; second pass- Remove 3" shell base. 2 passes times 3,000 sy = 6,000 sy. Pay Items: First Pass- 3,000 sy x unit price 1" - 2" average cut (5,001 - 10,000 sy); Second Pass - 3,000 sy x unit price over 2" average cut (5,001 - 10,000 sy)

The County at its option can retain all materials produced from the milling process. Successful Bidder shall haul such materials to County property per cost for equipment rental (Bid Form Section III) the Successful Bidder will be responsible for the

removal/disposal of all unwanted materials and shall keep all drainage structures free of debris from the milling process.

Desired finish crown to be 5/16".

SECTION E – TECHNICAL SPECIFICATIONS

The Successful Bidder shall furnish all necessary signs, flag persons, etc. that are in keeping with good practice and/or as required by the County for traffic control.

The Successful Bidder shall be responsible to surface any milled surface within 48 hours of the milling process. **The Successful Bidder is responsible for any exposed base once the road is milled.**

- A. Asphalt millings and or clean concrete debris from county projects.
Calculated by weight per volume. 1" per/sy milling = 80# and 1 CY of concrete = 1800#.

(IV.31) RECLAIMED ASPHALT – CREDIT

(IV.32) RECLAIMED NON-ASPHALTIC BASE MATERIAL

When removed materials are of value and the Successful Bidder takes possession of them, the Successful Bidder will credit back to the County this amount per ton of materials according to the following conversion.

(IV.39) MANHOLE ADJUSTMENT (ADJUSTMENT

RINGS) (IV.43) WATER VALVE ADJUSTMENT

(V.39) INSTALL CONCRETE COLLAR

The work specified in the section shall consist of the adjustment to manholes (MH) and water valves (WV) to be done after resurfacing has been completed. All such utility boxes to be located by Successful Bidder prior to paving. The asphalt crew shall remove all asphalt/concrete material to expose the lids per adjustment. After paving, the boxes are to be raised to meet the proper finished grade of the road. Metal rings approved by the county or concrete collar will be acceptable at the discretion of Manatee County. The traffic control is related to where the manhole actually is in the roadway and not the size of the roadway. Some structures that are right on the land lines or centerline will affect 2 lanes of traffic directly and appropriate traffic control method must be chosen but is clearly more effort than for an item affecting just one lane.

A concrete collar of 12" minimum width and 12" minimum thick Portland cement will be poured around water valves to the finished surface grades. Manholes:

1. Use 3/8" rock in concrete collars
2. Concrete collars should be 30" x 30" minimum overall
3. Use brick, concrete or iron rings to raise to grade
4. Grout inside of manhole and/or chimneys
5. Remove concrete, brick, grout or any other debris that has fallen into manhole during adjustment.

A combination of quantities (manholes and water valves) can be used to determine unit price for the total number of units. Example: 3 manholes + 4 water valves = 7 units to be paid under 6 - 10 units.

SECTION E – TECHNICAL SPECIFICATIONS

Where appropriate and when necessary, manhole and water valve adjustments will be combined with asphaltic-concrete and sweep, tack, spread, and compact bid items to determine low aggregate job total.

(IV.39 & V.39) MANHOLE and WATER VALVE ADJUSTMENT as a PART of BASE RECONSTRUCTION

The work specified in this section shall consist of the adjustment of each manhole frame, including ring & cover adjusted to proposed finished grade, precast concrete riser rings as required, all protective coatings, sealing of lift holes, rainwater protector, all materials and surface restoration, and all protective coatings and seals as applicable.

Measurement shall be for each manhole frame & cover adjusted, complete, watertight, and accepted. All components shown or called for by the Manatee County Utility Standard Detail US-2 shall be included in the unit price bid for Manhole, Adjust, and Utilities. Saw cutting, excavation, backfill, surface restoration except asphalt milling & overlay, including up to 12 inches thickness of SP12.5 asphalt, preparation of subgrade to

LBR 40 and compaction to 98% maximum density, all concrete, and any and all other items necessary for a completed assembly in accordance with the Blanket Purchase Order shall be included. Payment shall represent full compensation for all labor, materials, equipment and incidental items necessary to complete each manhole frame & cover adjustment, ready for approval and acceptance by the County.

(IV.39) BASIS OF PAYMENT

All bid items specified shall be paid under per each and per day and pay item noted on the Bid Form.

(IV.41) MANHOLE FRAME AND COVER, FURNISH AND INSTALL

The work specified in this section shall be made for each manhole frame & cover removed and replaced with new manhole frame and cover, adjusted to proposed finished grade, including new frame and cover, precast concrete adjustment rings, mortar, all materials and surface restoration except asphalt mill & overlay, all protective coatings and seals as applicable, sealing of lift holes, and rainwater protector. Successful Bidder shall include road restoration cost to F&I up to 12 inches thickness of SP 12.5 asphalt in 2 inch lifts around each manhole and preparation of subgrade as required by FDOT, minimum LBR 40, compacted to 98% maximum density.

Measurement and Payment shall be for each manhole frame & cover installed complete and accepted. The unit price shall be full payment for all saw cutting, excavation, bedding, backfill, dewatering, compaction, concrete, subgrade preparation, road base, asphalt pavement repair and replacement, disposal of all waste, and any and all other items necessary for a completed system in accordance with the Blanket Purchase Order Documents. All components shown or called for by the Manatee County Utility Standard Detail US-2 shall be included in the unit price bid for Manhole Frame & Cover F&I. Payment shall represent full compensation for all labor, materials, equipment and incidental items necessary to complete each manhole frame & cover, ready for approval

SECTION E – TECHNICAL SPECIFICATIONS

and acceptance by the County.

(IV.41) BASIS OF PAYMENT

All bid items specified shall be paid under the unit and per day pay items noted on the bid form.

(IV.40) FDOT MANHOLE ADJUSTMENT

The work specified in this section consists of the replacement of sanitary manhole rings and covers and/or adjustment of them to finished grade. The work also includes adjustment of valve boxes to finished grade, pavement and sidewalk removal and replacement, surface restoration, and associated Maintenance of Traffic. All work in FDOT right-of-way shall comply with FDOT standards and requirements, Utility Work Schedules, including coordination with FDOT Successful Bidders, and may include night work. Refer to the applicable FDOT contract documents for additional information. The dates and timing of the work in FDOT right of way shall be determined by FDOT and their Successful Bidders.

The Successful Bidder shall perform the work complete, in place and ready for continuous service and shall include any repairs, replacements, and/or restoration required as a result of damages caused prior to acceptance by the County.

The Successful Bidder shall furnish and install all materials, equipment and labor which is reasonably and properly inferable and necessary for the proper completion of the work, whether specifically indicated in the Blanket Purchase Order or not.

(IV.39) MANHOLE ADJUSTMENT (ADJUSTMENT RINGS)**(IV.43) WATER VALVE ADJUSTMENT****(V.53) INSTALL CONCRETE COLLAR****ESTIMATED RELEASE ORDER QUANTITIES**

The quantities shown on the awarded release order are approximate and are given only as a basis of calculation upon which the award of the release order are to be made. The County does not assume any responsibility for the final quantities, nor shall the Successful Bidder claim misunderstanding because of such estimate of quantities. Final payment will be made only for satisfactorily completed quantity of each item.

WORK OUTSIDE AUTHORIZED LIMITS

No payment will be made for work constructed outside the authorized limits of work.

MEASUREMENT STANDARDS

Unless otherwise specified for the particular items involved, all measurements of distance shall be taken horizontally or vertically.

AREA MEASUREMENTS

In the measurement of items to be paid for on the basis of area of finished work, the lengths and/or widths to be used in the calculations shall be the final dimensions measured along the surface of the completed work within the neat lines shown or designated.

SECTION E – TECHNICAL SPECIFICATIONS**(IV.40) BASIS OF PAYMENT**

All bid items specified shall be paid under the per unit pay item noted on the Bid Form.

(IV.42) FDOT VALVE BOX ADJUSTMENT

The work specified in this section shall be for the adjustment of each valve box to proposed finished grade, as shown on the provided drawings or as directed by the County. Payment shall be made for each valve box adjusted, and shall represent full compensation for all labor, material and equipment, excavation, including rock, bedding, backfill, compaction, concrete, road base, asphalt pavement repair and replacement, disposal of all waste, and any and all other items necessary to complete this Bid Item.

MOBILIZATION FOR UTILITY WORK ON FDOT ROW

Preparatory work and operations in mobilizing startup and breakdown of a project, including, but not limited to, operations necessary for the movement of personnel, equipment, supplies and incidentals to the project site.

MAINTENANCE OF TRAFFIC TO FDOT STDS. AND COORDINATION

Payment for all work included in this Bid Item will be made at the applicable per day price bid for MOT to FDOT Standards & Coordination. This pay item includes furnishing and installing all traffic control for the Work as required by FDOT and Manatee County. Payment shall represent full compensation for all labor, materials, necessary equipment, and incidentals necessary to complete the work.

(IV.42) BASIS OF PAYMENT

All bid items specified shall be paid under the per unit pay item noted on the Bid Form.

(IV.44) MOBILIZATION

The work specified in this section covers the global Successful Bidders costs (materials, labor, equipment and all incidentals) of moving into and setting up a job site. It is intended to cover costs such as but not limited to, moving of equipment and materials and other incidentals to the job site and establishment of a storage/staging area per release order for each County delivery zone.

(IV.44) BASIS OF PAYMENT

Mobilization will be paid for each release order issued for each County delivery zone. Work areas within a 1/4 mile radius (which may not be directly connected) shall be billed at one mobilization cost.

(IV.46) MAINTENANCE OF TRAFFIC

The work specified in this section covers the below pay items for Maintenance of Traffic and shall conform to the current edition of the FDOT Roadway and Traffic Design Standards and the current edition of the Federal Highway Administration's (F.H.W.A.'s) Manual on Uniform Traffic Control Devices (M.U.T.C.D.) for Streets and Highways, (MUTCD). Items will be paid based on the scope of each item used by day or hour.

SECTION E – TECHNICAL SPECIFICATIONS

The items are:

Crew Complete – This includes personnel and equipment to have at least self-transportation, supervision and two flaggers.

Flag Personnel – This includes personnel and equipment to have two flaggers on the job site.

Additional Flag Personnel – This includes personnel and equipment when a single additional flagger is required.

Temporary Signal Detection – This includes the labor and equipment to provide manual input to a traffic signal for vehicle detection when the project has removed the loops and the intersection must continue to operate with detection functional.

Coordination with the maintaining traffic signal authority is also included.

Law Enforcement Personnel – This includes all cost and effort needed to provide a hired, uniformed law enforcement officer with cruiser to be on site for security or traffic control.

(IV.46) BASIS OF PAYMENT

All bid items specified shall be paid under the day / per hour pay item noted on the Bid Form.

(IV.47) FULL DEPTH PAVEMENT RECLAMATION

The work specified in this section shall consist of the preparation of a stabilized base course composed of a mixture of the existing bituminous concrete pavement and existing base course material. The manufacture of the stabilized base course shall be done by in-place pulverizing and blending of the existing pavement and base materials, and the introduction of additives if called for by the County. The process which results in a stabilized base course, shall be accomplished in accordance with these specifications and conform to the lines and grades or as established by the County.

The remaining base material and/or sub grade may be modified to properly accommodate the stabilized base material. Any modification of this nature, if required, such as but not limited to the excavation and replacement of unsuitable materials and shaping and fine grading the sub grade, will be accomplished under separate payment items. Any movement of the stabilized base material for these modifications is also to be accomplished under a separate payment item.

Existing asphalt pavement shall be pulverized by a method that does not damage the material below the depth as directed by the County shown on the appropriate roadway section.

SECTION E – TECHNICAL SPECIFICATIONS

MATERIALS

RAP: RAP materials must meet all requirements specified in the Florida Department of Transportation Standard Specifications for Road and Bridge Construction (SSR&BC) 283-2, except that 98% of all material is required to pass through a 50 mm (2 inch) sieve.

PORTLAND CEMENT: Portland cement shall be type I or II and conform to the latest standard requirements of ASTM C 150 and AASHTO M85, for the type specified.

WATER: The water for the base course shall be clean and free from sewage, oil, acid, strong alkalies, or vegetable matter and it shall be in sufficient supply for mixing and curing. Water of questionable quality shall be tested in accordance with the requirements of AASHTO T 26.

SOIL: The soil base to be reclaimed shall be evaluated by a professional geotechnical engineering laboratory to determine suitability in the stabilization process. The soil shall be free of roots, sod, weeds, and shall not contain gravel or stone retained on a 1-inch (25 mm) sieve, or more than 45% retained on a No. 4 (4.75 mm) sieve, as determined by ASTM C 136.

LABORATORY SOIL TESTS and MIX DESIGN

Prior to base course construction, a minimum of one (1) core sample must be taken for every 5,000 square yards of the roadway. Representative samples of the RAP material, underlying base material and virgin materials, where applicable, shall be supplied to a nationally accredited laboratory for preliminary testing to determine the optimum moisture content, type of bituminous material and proportions needed to successfully complete this project. Laboratory tests of material to be reclaimed and virgin materials for use as base shall be performed to determine compliance with 3-day and 7-day minimum compressive strength requirements of the mixture and the quantity of cement required in the mix. Test specimens containing various amounts of cement are to be compacted in accordance with ASTM D558, and the optimum moisture for each amount of cement is to be determined. Actual application quantities for the Portland cement will be derived from the mix design. The minimum compressive strength requirements of the mixture shall be determined by the County. The mix design and laboratory testing shall be performed by a geotechnical engineering laboratory and all reports sealed by a professional engineer as approved by the County.

CONSTRUCTION METHODS

EQUIPMENT

Equipment shall be used which will provide the full depth reclamation follows:

- a All reclaiming equipment to be used shall have the capability of introducing and metering additives uniformly and accurately. The Successful Bidder shall ensure that positive displacement pumps accurately meter the planned amount of water and cement material and the reclaiming machine mixes it thoroughly with the RAP

SECTION E – TECHNICAL SPECIFICATIONS

and soil materials. The pump shall be mechanically or electronically interlocked with the ground speed of the machine. The cement metering system and water metering system shall be capable of continuously monitoring (GPM) flow, and totaling the quantity of water and cement applied into the mixing chamber. Additives shall be uniformly distributed and mixed with the pulverized material, any existing underlying material as specified.

- b. Apply the cement by use of a mobile cement mixer trailer capable of mixing predetermined ratios of cement and water, or by means of cyclone, screw-type or pressure-manifold type distributors. The mixing operation may be accomplished by using either the same machine used for the pulverizing operation or a separate machine designed for in-place continuous mixing approved by the engineer.
- c. The use of a spreader bar attached to the cement tanker is unacceptable.
- d. Maintain all equipment in a satisfactory operational condition.

WEATHER LIMITATIONS

The soil-cement base shall not be mixed or placed while the atmospheric temperature is below 35 F (2 C) or when conditions indicate that the temperature may fall below 35 F (2 C) within 24 hours, or when the weather is foggy or rainy, or when the soil or sub grade is frozen.

CONSTRUCTION METHOD

The existing pavement and base material shall be pulverized and blended so the entire mass of material shall be uniformly graded and the cement and water shall be uniformly dispersed throughout the processed material.

The pulverized material shall conform to the following gradation:

<u>SIEVE SIZE</u>	<u>PERCENT PASSING</u>
2"	98 - 100
1-1/2"	95

Material gradation may vary due to local aggregates and conditions.

The reclaimed material, cement and water shall be combined in place to meet the requirements specified in such proportions that the reclaimed mixture is of acceptable composition and stability. Field adjustments shall be made as necessary to the recommended mix design under the guidance of a knowledgeable and competent technician to obtain a satisfactory reclaimed mixture of consistent composition and stability throughout the Project.

After the material has been processed, it shall be compacted to the lines, grades, and depth as shown on the plans and cross section. Water may be applied to ensure optimum moisture content at the time of mixing and compaction.

SECTION E – TECHNICAL SPECIFICATIONS**COMPACTING RECLAIMED BASE**

The requirements for compaction shall include:

1. Commence rolling at the low side of the course, except leave 75 mm (3 in.), to 150 mm (6 in.) from any unsupported edge or edges unrolled initially to prevent distortion. Density readings shall be taken by Successful Bidder's licensed nuclear gauge operator and witnessed by the County. A control strip of not less than 500 feet shall be constructed to develop proper rolling/compaction patterns and methods to obtain desired density.
2. Roll with a self-propelled pneumatic-tired roller (20-25 ton) and/or a double-drum vibratory roller (10 ton or larger).
3. The number, weight and type of rollers furnished shall be sufficient to obtain the required compaction of the reclaimed material. The field density of the compacted mixture shall be at least 95 percent of the maximum density of laboratory specimens prepared from samples of the cement-treated base material taken from the material in place. The specimens shall be compacted in accordance with ASTM D 558. The in-place field density shall be determined in accordance with ASTM D 2922.
4. Rollers shall move at a uniform speed that shall not exceed 8 km/hour (5 miles/hour). For static rollers, the drive drum normally shall be in the forward position or nearest to the paver. Vibratory rollers shall be operated at the speed, frequency and amplitude required to obtain the required density and prevent defects in the mat.
5. Whenever there is a change in the reclaimed material or compaction method, equipment or unacceptable results occur, a new control strip shall be constructed, tested and analyzed.
6. Any pavement shoving or other unacceptable displacement shall be corrected. The cause of the displacement shall be determined and corrective action taken immediately and before continuing rolling. Care shall be exercised in rolling the edges of the reclaimed mixture so the line and grade of the edge are maintained.

CONSTRUCTION JOINTS

At the end of each day's run, a transverse construction joint shall be formed by a header or by cutting back into the compacted material to form a true vertical face free of loose material. The protection provided for construction joints shall permit the placing, spreading, and compacting of base material without injury to the work previously laid. Where it is necessary to operate or turn any equipment on the completed base course, sufficient protection and cover shall be provided to prevent damage to the finished surface. A supply of mats or wooden planks shall be maintained and used as approved and directed by the County.

SECTION E – TECHNICAL SPECIFICATIONS

FINISHING

Finishing operations shall be completed and the base course shall conform to the required lines, grades, and cross section. If necessary, the surface shall be lightly scarified to eliminate any imprints made by the compacting or shaping equipment. The surface shall then be recompact to the required density.

PROTECTION AND CURING

After the base course has been finished as specified herein, it shall be protected against drying for a period of 5 to 7 days by the application of bituminous material or other acceptable methods. The curing method shall begin as soon as possible, but no later than 24 hours after the completion of finishing operations.

The finished base course shall be kept moist continuously until the curing material is placed.

The bituminous material specified shall be uniformly applied to the surface of the completed base course at the rate of approximately 0.1 to 0.2 gallon per square yard (0.92 liter/square meter) with approved heating and distributing equipment. The exact rate and temperature of application to provide complete coverage without excessive runoff shall be as specified.

At the time the bituminous material is applied, the surface shall be dense, free of all loose and extraneous material, and shall contain sufficient moisture to prevent penetration of the bituminous material. Water shall be applied in sufficient quantity to fill the surface voids immediately before the bituminous curing material is applied.

The curing material shall be maintained and applied as needed by the Successful Bidder during the 7-day protection period so that all of the soil-cement will be covered effectively during this period.

Finished portions of soil-cement that are used by equipment in constructing an adjoining section shall be protected to prevent equipment from marring or damaging the completed work.

When the air temperature may be expected to reach the freezing point, sufficient protection from freezing shall be given the soil-cement for 7 days after its construction and until it has hardened.

THICKNESS

The average thickness of the base constructed during one day shall be within 1/2 inch (12 mm) of the thickness shown on the plans, except that the thickness of any one point may be within 3/4 inch (19 mm) of that shown on the plans. Where the average thickness shown by the measurements made in one day's construction is not within the tolerance given, the County shall evaluate the area and determine if, in his/her opinion, it shall be reconstructed at the Successful Bidder's expense or the deficiency deducted from the total material in place.

SECTION E – TECHNICAL SPECIFICATIONS

PREPARATION

The area to be paved with hot mix asphalt shall be graded and shaped to conform to the grades and typical cross section shown on the plans. Any soft or yielding areas in the sub grade shall be removed and replaced with acceptable soil and compacted as specified.

3) SAMPLING AND TESTING METHODS

FIELD SAMPLING AND TESTING

Presented in Table A are the materials sampling and testing procedures for Full Depth Reclamation. The sampling and testing methods referred to are either those of the American Society for Testing and Materials (ASTM) or the American Association of State Highway and Transportation Officials (AASHTO).

TESTING SURFACE

The finished surface of the reclaimed base course shall be checked with a template cut to the required cross slope and with a 15 ft. (4.572 m) straightedge laid parallel to the centerline of the roadway. All irregularities greater than 0.5 in. (13 mm) shall be corrected.

TEST FOR DEPTH OF FINISHED BASE COURSE

The depth of Reclaimed Bituminous Base Course shall be determined by measuring uncompacted reclaimed material immediately behind the screed in conjunction with measuring the milling depth prior to placement of reclaimed material. One depth measurement for each 1000 square yards of completed base course shall be made. Any section deficient by 0.5 in (12 mm) or more from the specified depth shall be removed and satisfactorily replaced by the Successful Bidder at no additional cost.

WEATHER LIMITATIONS

The recycled base course may be placed on the sub grade when the air temperature is at least 4C (40F) and rising, provided the sub grade upon which it is to be placed is not frozen or noticeably affected by frost.

TABLE A

Control Testing for Full Depth Reclamation Field Sampling & Testing

Type of Testing	Purpose of Testing	Frequency	Sample Location & Size

SECTION E – TECHNICAL SPECIFICATIONS

RAP and Soil-Cement Base Gradation, 50 mm & 37.5mm	Specification Compliance with Maximum RAP Size	Each 3,000 Square Yards or Minimum of Once Per Day ¹	From hopper, minimum weight of 9.1 kg(20 lb) ²
Moisture-Density Relations of Soil Cement Mixtures	Establish Target for Density Specification Compliance	Each 1,000 Square Yards or Minimum of Once per Day	Sample at point of each Nuclear Density Measurement, min. weight of 15 kg (33 lbs) ³
Compressive Strength of Soil-Cement Cylinders ⁴	Check on 3-Day Design Compressive Strength	Each 3,000 Square yards or Once Per Day ¹	From hopper, minimum weight of 15 kg (33 lbs)
Portland Cement, Type I or II	Check on Specification Compliance with ASTM C150	Mill Certification Provided with each load	
In-Place Field Density ³	To Determine Specification Compliance for Density	Each 1,000 Square yards ¹	Random locations after spreading and Compaction operations ⁶
Moisture Added to RAP and soil-cement ⁵	Adjustment of Water Content for Proper Mixing and Compacting/Correction of Nuclear Gauge Wet Density	Each 1,000 Square yards ¹	Reclaimed Lift Depth Sample at Point of each Nuclear Density Measurement minimum weight of 1.4kg (3lbs)
Quality of water to be used in concrete	Check on Specification Compliance with AASHTO T26	Verify source of water and potable	

Table A Notes

1. Additional sampling and testing may be required if major changes in RAP characteristics are observed, such as a much coarser or finer gradation or a noticeable difference in asphalt content, or when considerable variability is occurring in the field test results.
2. It is recommended that RAP sampling generally should be in accordance with ASTM D 979 or AASHTO T 168 procedures for Sampling Bituminous Paving Mixtures.
3. Target densities for reclaimed mix compaction are established by the laboratory compaction of specimens in accordance with ASTM D558. Due to the variability in

SECTION E – TECHNICAL SPECIFICATIONS

thickness of some hot mix asphalt pavements to be reclaimed, an equal proportion of RAP throughout the reclaimed base course cannot be attained. Therefore, it is necessary to obtain sample for laboratory compaction at the point of each field density test location. The compacted field density is normally measured with a nuclear density/moisture gauge since it is generally not possible to obtain cores during construction. The procedure generally followed is in accordance with ASTM D 2922- Density of Soil and Soil Aggregates by Nuclear Methods-Direct Transmission Method.

4. The density obtained will be a “wet density” as conversion to a true “dry density” by the gauge is not possible with these types of mixes. A more accurate dry density may be obtained by sampling the reclaimed mix at the nuclear gauge test location, determining the moisture content by drying and correcting the gauge wet density using the sample moisture content.

5. Compressive Strength shall be determined in accordance with ASTM D1633.

6. The moisture content can be determined with ASTM D 1461 or AASHTO T 110 for Moisture or Volatile Distillates in Bituminous Paving Mixtures. Also, the moisture content appears can be determined adequately by weighing and drying to a constant weight using a forced draft oven as for ASTM D 2216 or AASHTO T 265 or by microwave oven drying as for ASTM D 4643.

7. For each length or lot size quantity specified, materials sampling can be completed on a random basis using the procedures of ASTM D 3365 for Random Sampling of Construction Materials.

DOCUMENTATION

DELIVERY TICKETS

All delivery tickets and notes regarding any materials brought to the project site to complete this Release Order must be given to the County upon delivery to the project site.

METER READING

Before the start and at the end of each day’s work, the County must be permitted access to the mixing equipment in order to read the meter to verify the quantity of cement applied during the day’s work.

PREVIOUS PROJECT EXPERIENCE

The Successful Bidder must provide references on the Attachment “A” Contractor’s Questionnaire of five previous successfully completed projects in the State of Florida with the bid.

PAYMENT

ITEM NO.	PAY ITEM	PAY UNIT
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SECTION E – TECHNICAL SPECIFICATIONS

1	Preparation, pulverizing, shaping, compaction and finishing		SY
2	Additives, (cement)		TN
3	Imported Material		CY
4	Removal of Unsuitable Material		CY

SECTION E – TECHNICAL SPECIFICATIONS

(IV.47) BASIS OF PAYMENT

All bid items specified shall be paid under the respective pay item noted on the Bid Form.

(IV.48) SAND SEAL COATING

The work specified in this section shall provide a sand seal coat composed of bituminous material applied in one application and covered with sand cover material applied in a single application. Construct this work on cement-treated subgrade.

Proportioning

Use the approximate proportions for the sand seal coat as follows:

Bituminous Material0.15 - 0.25 gal/yd² [0.7 to 1.1 L/m²]

Cover Material 0.10 - 0.20 ft³/yd² [0.003 to 0.007 m³/m²]

The County will designate the actual spread for each material.

Materials

Bituminous Material: Meet the following requirements:

Asphalt Cement, Viscosity Grade AC-5916-1

Emulsified Asphalt, Grade RS-2916-4

During the months of November through April, use emulsified asphalt. During the remaining months of the year, use asphalt cement or emulsified asphalt, unless asphalt cement is specified

Cover Material: Use clean and nonplastic sand composed of hard durable grains and free from loam, roots, clay balls, and other deleterious substances. The Successful Bidder may use local sand if it meets the above requirements. Obtain the County's approval of the sand.

Weather Limitations

Do not apply bituminous material when the air temperature in the shade and away from artificial heat is less than 60°F [15°C] at the location where the application is to be made, or when weather conditions or the surface conditions are otherwise unfavorable.

Construction Methods

Application of Bituminous Material: Meet the requirements as specified for bituminous surface treatments in 310-9.

Application of Cover Material: Apply sand uniformly at the rate designated by the County. If the County considers it necessary for the proper distribution of the spread, lightly drag the sand with a drag broom. Roll the entire area of the sand with at least ten passes of a traffic roller. Prior to the placing of concrete pavement over the sand seal coat, remove any excess sand from the surface of the cement-treated subgrade.

SECTION E – TECHNICAL SPECIFICATIONS**(IV.48) BASIS OF PAYMENT**

All bid items specified shall be paid under the square yard pay item noted on the Bid Form.

MATERIALS

The asphalt rejuvenating agent shall be composed of a petroleum resin oil base uniformly emulsified with water. The material shall have a record of satisfactory service as an asphalt rejuvenating agent. Satisfactory service being based on the capability of the material to increase the ductility, penetration and durability of the asphalt binder in the recycled asphalt. Each shipment delivered to the project shall be accompanied by a letter of compliance from the manufacturer that certifies the material conforms to the following physical properties:

<u>Properties</u>	<u>Limits</u>	<u>ASTM Test Method</u>
Viscosity @25°C, SFS	20-145	D-244
Sieve Test, % by weight	0.1 max.	D-244 (1)
Particle Charge Test	Positive	D-244
Cement Mixing Test, % by weight	1.80 max.	D-244
Pumping Stability	(2)	
5 day Settlement Test, % by weight	4.77 max.	D-244
Residue, % by weight	53 min.	D-244 (3)
Viscosity @ 60°C CST (4)	990-4100	D-2170
Maltene Distribution Ration (4) (5)	0.7-1.1	D-2006-70
PC/S Ratio (4) (6)	0.5 min.	D-2006-70
Asphaltenes, % by weight (4)	10.8 max.	D-2006-70

1. Distilled water shall be used in place of the sodium oleate solution.
2. Pumping stability is determined by charging 450 ml of emulsion into a one liter beaker and circulating the emulsion through a gear pump (Roper 29.B22621) having a 0.25 inch inlet and outlet. The emulsion passes if there is no significant oil separation after circulating for 10 minutes.
3. Heat the sample to 300 +/- 5F, until foaming ceases. Then cool the sample immediately and calculate the results.
4. Test is performed on the residue from the emulsion.
5. The ratio is (PC + A1) (S + A2) where:
PC = polar compounds
A1 = first acidaffins
A2 = second acidaffins
S = saturated hydrocarbons
6. PC = polar compounds and S = saturated hydrocarbons

SECTION E – TECHNICAL SPECIFICATIONS**EQUIPMENT**

The equipment used for cleaning the pavement shall be capable of cleaning the pavement in accordance with this specification. The equipment used for heating, scarifying, and remixing shall be a self-contained, self-propelled unit designed for this purpose. The heating unit shall be of the radiant heat type, with sufficient capacity to heat the pavement material as necessary for efficient scarifying, remixing, and recompaction. Direct flame heating will not be permitted. The heating unit shall have shut-off controls clearly identified and easily operable both from the operator's station and from the ground. The shut-off control system shall be capable of reducing the heating element temperature from operating to near ambient in approximately 30 seconds. The machine shall have an adjustable, heated screed capable of placing the mixture to the required cross-section, profile and alignment in an acceptable, finished condition ready for compacting. Adequate provisions shall be made for the safety of persons in the vicinity of the equipment, and for preventing damage to adjacent property and facilities, public or private. The scarifying unit shall be capable of loosening and remixing the heated pavement material to the specified depth in a uniform pattern and in condition for immediate recompaction.

The equipment used for applying the asphalt rejuvenating agent shall be attached to the heater scarifier machine so it is capable of applying the rejuvenating agent in front of the scarifier tooling. The asphalt shall then be scarified and mixed with the rejuvenating agent by means of rotating augers prior to the compaction process. The equipment shall apply the asphalt rejuvenating agent at the specified rate with uniform pressure over the required width of application. The rate of application shall be hydrostatically controlled and metered to maintain the specified application rate for changes in the operating speed of the heater scarifier. A meter shall be incorporated into the distribution system for recording the quantity of asphalt rejuvenating agent applied to the scarified pavement.

COMPACTING MIXTURE**A. PROVISIONS APPLICABLE TO ALL TYPES:****1. Equipment and Sequence:**

For each paving or leveling train in operation, the Successful Bidder shall furnish a separate set of rollers with their operators. The following equipment, sequence and coverage are suggested for use based on past successful performance; however, when density is required, the Successful Bidder may select his own equipment, sequence and coverage of rolling to meet the minimum density requirement specified. Regardless of the rolling procedure used, the final rolling must be complete before the internal pavement temperature has dropped below 175° F.

- (a) Seal rolling, using tandem steel rollers (vibratory or static) weighing 5 to 12 tons, following as close behind the spreader as is possible without pick-up, undue displacement or blistering of the material

SECTION E – TECHNICAL SPECIFICATIONS

Vibratory rollers shall be used in the static mode for layers of one inch or less in thickness.

- (b) Rolling with self-propelled pneumatic-tired rollers, following as close behind the seal rolling as the mix will permit. The roller shall cover every portion of the surface with at least five passes.
- (c) Final rolling with the 8 to 12 ton tandem steel roller, to be done after the seal rolling and pneumatic-tired rolling have been completed, but before the internal pavement temperature has dropped below 175 degrees F.

Once the Successful Bidder has selected the equipment and established the rolling procedures and these have been used for the control strip density determination, then the Successful Bidder must continue to use the same equipment and rolling procedures for all asphalt mix represented by the control strip. Changes in equipment or procedures will require a new control strip density determination. The County must be notified prior to changing the rolling process.

When density is not required, as for all patching courses, leveling and intermediate courses less than one inch thick, overbuild courses of variable thicknesses (when the minimum thickness is less than one inch) and open-graded friction courses, the compaction will be applied in accordance with the standard specifications. The specified rolling procedures must be followed when density determinations will not be made.

When density is not required on those courses indicated in the foregoing paragraph; but the Successful Bidder wants to use other rollers, patterns or sequences than those specified, Successful Bidder may request approval from the County. Approval may be granted for leveling and intermediate courses 1/2 inch and thicker and overbuild courses when these courses are placed with a paving machine.

Density requirements will be in accordance with the provisions of the first paragraph of 1.04.C (Density Control-Nuclear method), Table A and Table B. Approval for a change on patching course, variable thickness leveling courses placed with motor graders and open-graded friction courses will not be granted.

- 2. **Compaction at Crossovers, Intersections, Etc.:**
When a separate paving machine is being used to pave the crossovers, the compaction of the crossovers may be done by one 8- to 10-ton tandem steel roller. If crossovers, intersections and acceleration and deceleration lanes are placed with the main run of paving, a traffic roller shall also be used in the compaction of these areas.
- 3. **Rolling Procedures:**
The initial rolling shall be longitudinal. Where the lane being placed is adjacent to a previously placed lane, the center joint shall be pinched or rolled, prior to the rolling of the rest of the lane.

SECTION E – TECHNICAL SPECIFICATIONS

Rolling shall proceed across the mat, overlapping the adjacent pass by at least six inches. The motion of the roller shall be slow enough to avoid displacement of the mixture, and any displacement shall be corrected at once by the use of rakes, and the addition of fresh mixture if required. Final rolling shall be continued until all roller marks are eliminated.

4. **Speed of Rolling:**
Rolling with the self-propelled, pneumatic-tired rollers shall proceed at a speed of 6 to 10 miles per hour. The area covered by each roller shall not be more than 4,000 square yards per hour; except that for Type S Asphaltic Concrete, this maximum rate of coverage shall be 3,000 square yards per hour.
5. **Number of Pneumatic-Tired Rollers Required:**
A sufficient number of self-propelled pneumatic-tired rollers shall be used to assure that the rolling of the surface for the required number of passes will not delay any other phase of the laying operation nor result in excessive cooling of the mixture before the rolling is complete. In the event that the rolling falls behind, the laying operation shall be discontinued until the rolling operations are sufficiently caught up.
6. **Compaction of Areas Inaccessible to Rollers:**
Areas which are inaccessible to a roller (such as areas adjacent to curbs, headers, gutters, bridges, manholes, etc.) shall be compacted by the use of hand tamps or other satisfactory means.
7. **Rolling Patching and Leveling Courses:**
Self-propelled pneumatic-tired rollers shall be used for the rolling of all patching and leveling courses. Where the initial leveling course is placed over broken concrete pavement, the pneumatic-tired roller shall weigh at least 15 tons.

For Type S-III Asphaltic Concrete leveling courses, the use of a steel-wheeled roller, to supplement the traffic rollers, will be required. On other leveling courses, the use of a steel-wheeled roller will be required on all passes after the first.

8. **Correcting Defects:**
The rollers shall not be allowed to deposit gasoline, oil or grease onto the pavement, and any areas damaged by such deposits shall be removed and replaced as directed by the County. While rolling is in progress, the surface shall be tested continuously and all discrepancies corrected to comply with the surface requirements. All drippings, fat or lean areas and defective construction of any description shall be removed and replaced. Depressions which develop before the completion of the rolling shall be remedied by loosening the mixture and adding new mixture to bring the depressions to true surface.

SECTION E – TECHNICAL SPECIFICATIONS

Should any depression remain after the final compaction has been obtained, the full depth of the mixture shall be removed and replaced with sufficient new mixture to form a true and even surface. All high spots, high joints and honeycomb shall be corrected as directed by the County. Any mixture remaining unbonded after rolling shall be removed and replaced. Any mixture which becomes loose or broken, mixed or coated with dirt or in any way defective, prior to laying the wearing course shall be removed and replaced with fresh mixture which shall be immediately compacted to conform with the surrounding area.

9. Use of Traffic Roller on First Overbuild Course:
A self-propelled pneumatic-tired roller shall be used on the first overbuild course. Coverage shall be a minimum of five passes.
10. Use of Traffic Roller on first Structural Layer:
A self-propelled pneumatic-tired roller shall be used on the first structural layer placed on a milled surface. Coverage shall be a minimum of three passes.

B. PROVISIONS APPLICABLE TO SHOULDER PAVEMENT:

Shoulder pavements wider than three feet shall be compacted by the use of equipment of the type required for other asphaltic concrete pavements. Density determinations will be required on shoulder pavements wider than three feet when the thickness is one-inch or greater. These density determinations (including the control strip) will be separate from the pavement lane even when the pavement lane and shoulder are placed in the same pass. Density determinations will not be required on asphaltic concrete or sand-asphalt hot mix shoulders three feet or less in width. The compactive effort shall be done by the use of tandem steel rollers not exceeding 12 tons in weight. In restricted areas other equipment that will effectively exert a compactive effort may be approved by the County. The Successful Bidder shall state what equipment and compactive effort (coverage) is proposed to be used.

This must be approved by the County before the Successful Bidder starts the operation. Where sand-asphalt hot mix shoulders are constructed within the limits of curb and gutter, compaction shall be done by light weight rolling equipment, approved by the County which will not displace the previously constructed curb and gutter.

C. DENSITY CONTROL:

1. Density Control Nuclear Method:
The in-place density of each course of asphalt mix construction, with the exceptions of patching courses, leveling and intermediate courses less than one-inch thick or a specified spread rate less than 100 pounds per square yard, over build courses where the minimum thickness is less than one-inch, and open-graded friction courses, shall be determined by the use of the Nuclear Density Backscatter Method as specified by FM 1-T238

SECTION E – TECHNICAL SPECIFICATIONS

(Method B). The required density of a completed course shall be at least 98 percent of the average density of the control strip.

2. Control Strips:

One or more control strips shall be constructed for the purpose of determining the control strip density. A control strip shall be constructed at the beginning of asphalt construction and one thereafter for each successive course. Any change in the composition of the mix will require the construction of a new control strip. The County may require an additional control strip when necessary to establish a new control strip density or conform the validity of the control strip density being used at that time. The Successful Bidder may request a confirmation of the control strip density also. The control strip must be constructed as a part of a normal day's run. The Successful Bidder will not be permitted to construct the control strip separately.

The length of the control strip shall be 300 feet, regardless of the width of the course being laid. When the control strip is to be constructed for the first day of asphalt construction or at the beginning of a new course, it shall be started between 500 and 1,000 feet from the beginning of the paving operation. The thickness of the control strip shall be the same as that specified for the course of which it is a part. The control strip will be constructed using the same mix, the same procedures as those used in laying the asphalt course of which the control strip is to become a part. Every control strip will remain in place and become a portion of the completed roadway.

When the compaction of the control strip has been completed, ten density determinations will be made at random locations within the control strip. No determinations will be made within one foot of any unsupported edge. The average of these ten determinations will be the Control Strip Density. For purposes of determining the percent of laboratory density, as required in Table A, a correction factor will be developed from cores or by direct transmission nuclear determination where applicable.

TABLE A

Roadway Requirements for Bituminous Concrete Mixes

Mix Type	Density*	Minimum Control Strip Density (%)	Surface* Tolerance
S-I	X	96 Lab. Dens.	X
S-II	X	96 Lab. Dens.	X
S-III	X	96 Lab. Dens.	X
Type II	X	96 Lab. Dens.	X
Type III	X	96 Lab. Dens.	X
SAHM	X	96 Lab. Dens.	X
ABC-1	X	96 Lab. Dens.	**

SECTION E – TECHNICAL SPECIFICATIONS

Mix Type	Density*	Minimum Control Strip Density (%)	Surface* Tolerance
ABC-2	X	96 Lab. Dens.	**
ABC-3	X	96 Lab. Dens.	**
FC-1	X	96 Lab. Dens.	X
FC-2	No Density Required	96 Lab. Dens.	X
FC-4	X	96 Lab. Dens.	X

*X - Denotes test is required

** - Shall meet the straightedge requirements of 200-7

3. LOTS

For the purpose of acceptance and partial payment, each day's production will be divided into LOTS. The standard size of a LOT shall consist of 5,000 lineal feet of any pass made by the paving train regardless of the width of the pass or the thickness of the course. Pavers traveling in echelon will be considered as two separate passes. When at the end of a day's production or the completion of a given course or at the completion of the project, a partial LOT will be redefined to include this partial LOT and the evaluation of the LOT will be based on either six or seven subplot determinations. If the partial LOT contains three or four sublots with their appropriate test results, this partial LOT will be redefined to be a whole LOT and the evaluation of it will be based on the three or four subplot determinations.

For the standard size LOT (5,000 lineal feet), five density determinations - one for each subplot - will be made at random locations within the LOT, but not to be taken within one foot of any unsupported edge. The statically derived random number tables are furnished by the County. These will also be used for partial LOTS, for the Successful Bidder to receive full payment for density, the average density of a LOT will be a minimum of 98.0 percent of the control strip density. Once the average density of a LOT has been determined, the Successful Bidder will not be permitted to provide additional compaction to raise the average.

4. Acceptance:

The completed pavement will be accepted with respect to density on a LOT basis. Partial payment will be made for those LOTS that have an average density less than 98.0 percent of the Control Strip Density based on the following schedule:

TABLE B - Payment Schedule for Density

Percent of Control Strip Density*	Percent of Payment
98.0 and above	100%
97.0 to less than 98.0	95%
96.0 to less than 97.0	90%
**Less than 96.0	75%

*In calculating the percent of control strip density, **do not round off** the final percentage.

SECTION E – TECHNICAL SPECIFICATIONS

**If approved by the County based on an engineering determination that the material is acceptable to remain in place, the Successful Bidder may accept the indicated partial pay, otherwise the County will require removal and replacement at no cost. The Successful Bidder has the option to remove and replace at no cost to the County at any time.

JOINTS**TRANSVERSE JOINTS**

Placing of the mixture shall be as continuous as possible and the roller shall not pass over the unprotected end of the freshly laid mixture except when the laying operation is to be discontinued long enough to permit the mixture to become chilled. When the laying operation is interrupted, a transverse joint shall be constructed by cutting back on the previous run to expose the full depth of the mat.

LONGITUDINAL JOINTS:

For all layers of pavement except the leveling course, placing of each layer shall be accomplished to cause longitudinal construction joints to be offset 6 to 12 inches laterally between successive layers. The County may waive this requirement where offsetting is not feasible due to the sequence of construction.

(IV.55) FOG SEAL

The work specified in this section consists of furnishing and applying fog seal on existing roads at application rates described here-in. Fog seals are a method of adding asphalt to an existing pavement surface to improve sealing or waterproofing, prevent further stone loss by holding aggregate in place, or simply improve the surface appearance. Generally, fog seal is a light spray application of diluted asphalt emulsion used primarily to seal an existing asphalt surface to reduce raveling and enrich dry and weathered surfaces. However, inappropriate use can result in slick pavements and tracking of excess material.

Materials

The emulsion types recommended for fog seals may be cationic (i.e., a positive surface charge on the asphalt particles), or anionic (i.e., a negative surface charge on the asphalt particles). The primary types used are CSS-1h and SS-1h. In some circumstances, CQS-1h (and LMCQS-1h) will give a faster set.

Liquid emulsified bituminous material for dilution: CSS-1h liquid bituminous material conforming to the requirements of AASHTO M 208 or SS-1h conforming to the requirements of AASHTO M 140 (except as modified herein) shall be utilized. The Successful Bidder shall certify the liquid bituminous material meets the aforementioned specifications

The asphalt emulsion may contain up to 43% water prior to dilution. Original emulsion water and dilution water shall be limited to and not exceed for any reason 50% by volume. Therefore, residual asphalt shall equal 50% (+1%, -0%).

SECTION E – TECHNICAL SPECIFICATIONS

Dilution Water and Emulsion Water: Water introduced into the asphalt must be potable and free from detectable solids or incompatible soluble salts (hard water).

Material Samples: The County will require the Successful Bidder to sample and test each load of emulsion prior to delivery. The Successful Bidder will also provide a sample of the emulsion, on site, prior to commencing work.

The County will require the Successful Bidder to provide sample containers and a local Independent testing laboratory for the analyzing of emulsion. The Successful Bidder will be responsible for the cost of the testing. The County reserves the right to test any shipment of emulsion that is believed to be of substandard. All samples shall be shipped and stored in clean air tight sealed wide mouth jars or bottles made of plastic.

Equipment

Distributor: The liquid bituminous material shall be applied with a truck mounted, pressure distributor that has been calibrated within the previous twelve (12) months, for transverse and longitudinal application rate. The distributor shall be equipped, maintained and operated so that the bituminous material can be applied at controlled temperatures and rates from .03 to .22 gallons per square yard with nozzles adjusted to allow minimum overlap of 3x. The distributor shall be capable of applying bituminous material of variable widths up to sixteen (16) feet. The distributor shall uniformly apply the bituminous material to the specified rate with a maximum allowed variation of 0.015 gallons per square yard. Distributor equipment shall include tachometer, accurate volume measuring device, a calibrated tank and a thermometer for measuring the temperature of the tank's contents. Distributors shall be equipped with an asphalt pump and full circulating spray bars adjustable laterally and vertically. Distributors and transport trailers shall be equipped with a sampling valve. Distributor trucks shall be of the pressure type with insulated tanks. The use of gravity distributors will not be permitted. The valves shall be operated by levers so that one or all valves may be quickly opened or closed in one operation. The valves which control the flow from nozzles shall act positively so as to provide a uniform unbroken spread of bituminous material on the surface.

The distributor shall be equipped with devices and charts to provide for accurate and rapid determination and control of the amount of bituminous material being applied and with a bitometer of the auxiliary wheel type registering speed in feet per minute, and trip and total distance in feet.

Additional equipment

Additional equipment will be needed to complete the operations required by this technical provision. All equipment necessary for the successful completion of projects governed by this technical provision shall be included in the unit costs associated herein. Availability of quality assurance devices shall be the responsibility of the Successful Bidder.

Experience

Bidders must submit a minimum of five Fog Seal project references that have been

SECTION E – TECHNICAL SPECIFICATIONS

completed within the past three years on Attachment “A”, Contractor’s Questionnaire. Bidders may be required to submit detailed information regarding the staff that they propose for this project. Successful Bidder shall be capable of meeting all the requirements of this specification at the time of the bid. Staff shall have the option to inspect the Successful Bidder’s equipment and if found deficient, it shall be the basis for dismissal of Successful Bidder’s bid.

Construction

Layout:

The Successful Bidder will be responsible for the lay out of the roadway and project planning and sequencing to meet traffic control requirements prior to paving.

Weather and Seasonal limitations: The fog seal shall not be applied to a wet surface or when rain is occurring or the threat of rain is present immediately before placement. The surface treatment shall not be applied when the temperature is less than 50 degrees Fahrenheit in the shade. When applying emulsions, the temperature of the surface shall be a minimum of 59°F, and no more than 140°F.

If unexpected rain occurs prior to the emulsion breaking, the area shall be re-fogged at no cost to the county. Further, the Successful Bidder’s traffic control and project monitoring shall continue until the surface is either free of emulsion or the emulsion applied has broken or the resultant surface is not slippery or dangerous to vehicular travel.

Preparation of Surface

The Successful Bidder will be responsible for blowing or sweeping the road immediately ahead of the fog seal operation to make sure the road is free of loose aggregate and other debris. The surface shall be clean and dry prior to the application.

Application of bituminous material:

The emulsion shall be diluted no more than 24 hours before its intended use to avoid settlement of the diluted emulsion. Water shall be introduced into the emulsion. Introducing emulsion into water is not permitted.

The emulsion shall be circulated using a centrifugal or other suitable pump to ensure uniformity as needed.

Properly calibrated distributor trucks with 4 to 5 mm (1/8” to 3/16”) opening spray nozzles shall be used to apply the emulsion. The emulsion may be heated to 122°F maximum, or may be applied at ambient temperatures conforming to the requirements of this technical provision. The emulsion shall be sprayed at a rate as directed in the field by the County. Application will be determined dependent upon the surface conditions.

Tight Surface (low absorbance and relatively smooth) - .09-.14 gal/sy

Open Surface (relatively porous and absorbent with open voids) - .18-.22 gal/sy

SECTION E – TECHNICAL SPECIFICATIONS

Exceptions: When fog seal is required as a subsequent treatment to chip seal, OGCM, or other method described in this blanket purchase order, materials, equipment and application shall be as described in this technical provision and as amended in the technical provision appropriate to the work the fog seal is subsequent to. If discrepancies occur, the County shall determine the appropriate specification.

Traffic Control

The Successful Bidder shall furnish all necessary traffic control, barricades, signs and flagmen, to ensure the safety of the traveling public and to all working personnel. Traffic shall not travel on fresh fog seal until material is sufficiently broke such that tire pickup does not occur. The Successful Bidder shall submit an M.O.T plan indicating all facets of traffic control for the project area. The MOT plan must be approved in writing by the County prior to commencing any work. All traffic control shall be in accordance with the FDOT Roadway Design Standards, most current edition and TP-102. M.O.T. and associated devices shall be checked daily and periodically throughout the project for compliance; and where adjustments or corrections are needed, prompt revisions shall be made.

Method of Measurement

If a pay item is listed on the Bid Form for work required in this Technical Specification, the quantity to be paid shall be as specified in the Bid Form including all items of work described herein. Any item necessary for Fog Seal, and not specifically listed in another item in the Bid Form, shall be included in this item.

(IV.50) BASIS OF PAYMENT

The quantities to be paid for under the Technical Specification shall be included in the per square yard price for Fog Seal. There will be a bid item for “Tight Surfaces” (.09-.14 gal/sy) and a separate bid item for “Open Surfaces” (.18-.22 gal/sy) as listed in the Bid Form. The unit price includes all items listed in the blanket purchase order, including all Technical Specifications pertaining to Fog Seal, including all items of work described herein. No additional payment will be provided for any item necessary for the completion of this blanket purchase order as detailed in the specifications.

SECTION V – STORMWATER, WASTEWATER and UTILITIES

The work specified in this section shall reference FDOT specifications Section 425-430; and Manatee County Specifications chapters 202.0 to 202.5, requirements as listed on Bid Form with the exception of V.39, V.54, V.55 and V.56.

(V.39) ALTERNATIVE MANHOLE ADJUSTMENT

The work specified in this section covers the adjustment of a structure by the backfill of the adjustment hole with S-III Asphalt Concrete. It also requires heating, scarification and reworking of the existing asphalt surrounding the adjustment, blend with new material as needed and compact.

SECTION E – TECHNICAL SPECIFICATIONS**(V.39) BASIS OF PAYMENT**

All bid items specified shall be paid under the per unit pay item noted on the Bid Form.

(V.53) REMOVE CONCRETE COLLAR**(V.54) REMOVE BOX INLET****(V.55) REMOVE CONCRETE DRAINAGE STRUCTURE**

The work specified in the section shall include all equipment, labor and incidentals to expose remove and dispose of a concrete collar, box inlet and concrete drainage structure.

(V.53, V.54, V.55) BASIS OF PAYMENT

All bid items specified shall be paid under the each and day pay item noted on the Bid Form.

SECTION VI – CURB AND GUTTER, SIDEWALKS AND DRIVEWAYS**DESCRIPTION OF WORK**

The work specified in this section shall reference FDOT Specifications 520 & 522; and Manatee County Specifications chapters 200 & 300 requirements as listed on Bid Form with the exception of VI.3, VI.11, VI.12, VI.13, VI.14, VI.15, VI.16, VI.17, VI.18 and VI.19.

(VI.3) MODIFIED TYPE “F” CURB

The items under this section are the same as “F” curb, see Manatee County specifications for “F” curb 201.2, except that the width of the curb may vary, by being less, to meet the necessary field conditions.

(VI.3) BASIS OF PAYMENT

All bid items specified shall be paid under the linear feet pay item noted on the Bid Form.

(VI.11) MISCELLANEOUS CONCRETE FORMED AND POURED

The work specified under this section shall include all equipment, material (including rebar) and labor necessary to frame and pour concrete of any shape or dimension at the direction of the County and type of concrete.

(VI.11) BASIS OF PAYMENT

All bid items specified under this section shall be paid under the cubic yards and pounds of rebar (reinforced steel) used under the pay item noted on the Bid Form.

(VI.13) REMOVE CONCRETE SIDEWALK/DRIVEWAY (2500PSI)

The work specified in the section shall include all equipment, labor and incidentals to expose remove and dispose of a concrete sidewalk/driveway.

(VI.13) BASIS OF PAYMENT

All bid items specified shall be paid under the square yards pay item noted on the Bid Form.

SECTION E – TECHNICAL SPECIFICATIONS**(VI.14) REMOVE CONCRETE CURB & GUTTER**

The work specified in this section shall include all equipment, labor and incidentals to expose remove and dispose of a concrete curb and gutter.

(VI.14) BASIS OF PAYMENT

All bid items specified shall be paid under the each and day pay Item noted on the Bid Form.

(VI.15) CONSTRUCT ASPHALT SIDEWALK / DRIVEWAY

The work specified in this section includes all equipment, materials and labor necessary to constructed asphalt paths of the dimension and material noted. The task includes the excavation of the path area such that the path matches the existing grade of the surrounding area and the compaction of the excavation bottom.

(VI.15) BASIS OF PAYMENT

All bid items specified under this section shall be paid under the lineal foot and cubic yards under the pay item noted on the Bid Form.

(VI.16) PREPARATION FOR CURB AND GUTTER (NEW INSTALL)

The work specified under this section includes all equipment, materials and labor necessary to prepare a job site location for the installation of curb. The area will be cleared of all organic materials and excavated to the required elevation and compacted. When additional fill is required it will be installed to bring the base area to correct elevation and compacted in place.

(VI.16) BASIS OF PAYMENT

All bid items specified shall be paid under the following pay item noted on the Bid Form.

Preparation - lineal feet

Additional fill – cubic yard

Additional excavation – cubic yard

(VI.17) CONCRETE PUMPING

The work specified under this section includes all equipment, materials and labor associated with the use of a concrete pump on the job site to pump concrete to the actual pour location. This item will be paid by either the hour or day.

(VI.17) BASIS OF PAYMENT

All bid items specified shall be paid by either the hour or day noted on the Bid Form.

(VI.18) ADA TRUNCATED DOME FURNISH AND INSTALL

The work specified in this section includes all equipment, materials and labor to install truncated domes at sidewalk locations directed by the County. The domes must meet the requirements of Manatee County specification 302.3 and FDOT Design Standards, Index 304. This item will be paid for in square feet.

SECTION E – TECHNICAL SPECIFICATIONS**(VI.18) BASIS OF PAYMENT**

All bid items specified shall be paid under the square foot pay item noted on the Bid Form.

(VI.19) STANDARD MAIL BOX RELOCATE

The work specified in this section includes all equipment, material and labor to keep an address with a proper functioning mail box during the duration of the project. This may require the installation of a standard US Postal Service mail box and wooden post, the relocation of existing mailbox and/or the reinstallation of the original mailbox once the project is complete.

(VI.19) BASIS OF PAYMENT

All bid items specified shall be paid under the each (unique address / mailbox for the duration of the release order (project) pay item noted on the Bid Form.

(VI.20) IRRIGATION CAP

The work specified in this section includes all equipment, labor and materials necessary to cap various irrigation lines that may be encountered within a job site. The caps must match the existing irrigation material and be a permanent glue type. This item is paid for by each cap installed.

(VI.20) BASIS OF PAYMENT

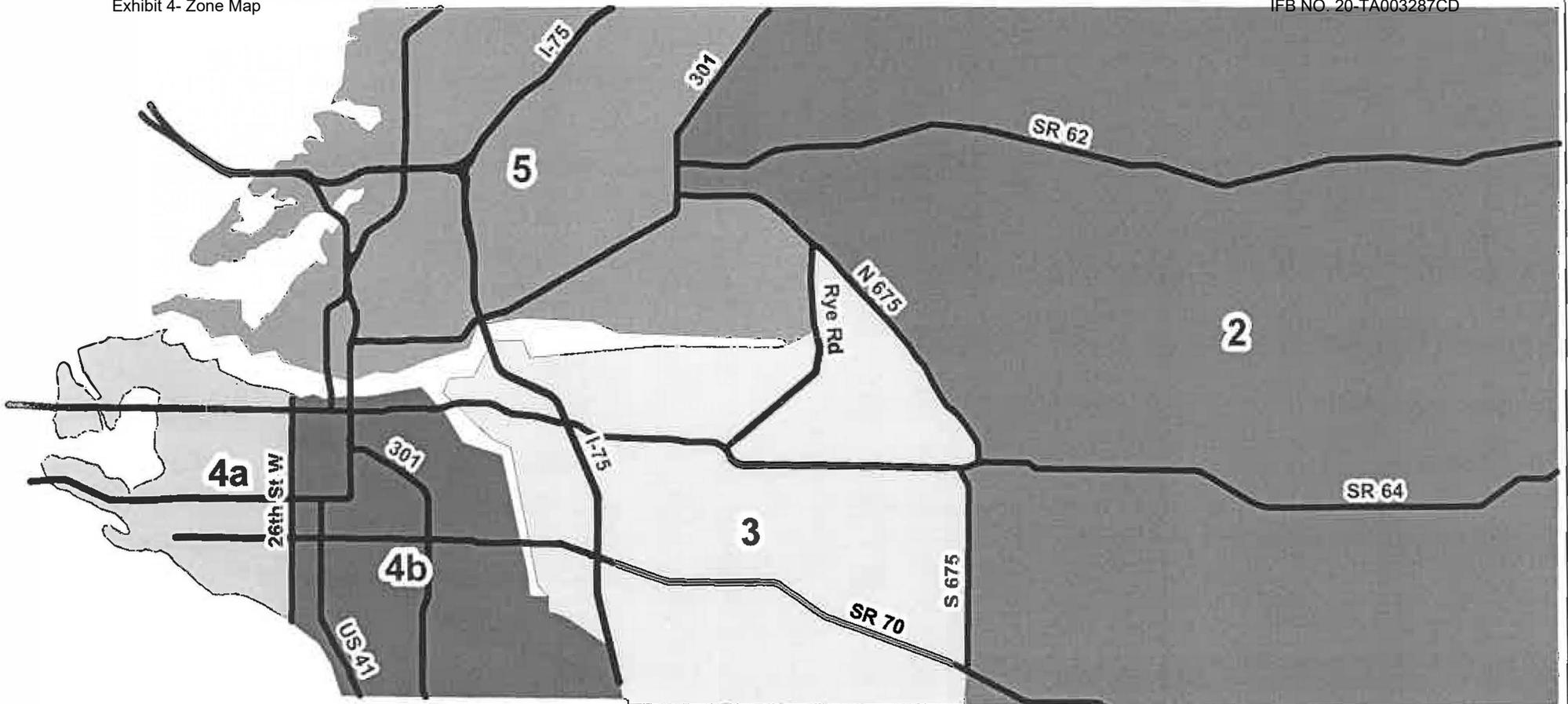
All bid items specified shall be paid under the each (cap installed) pay item noted on the Bid Form.

SECTION VII – TRAFFIC CONTROL

The work specified and basis of payment in this section shall reference the respective FDOT specifications edition 2015.

SECTION VIII – PAVEMENT BASE CONSTRUCTION

The work specified and basis of payment in this section shall reference the respective FDOT specifications edition 2015.



Vendor Delivery Zones

This map was developed by the Manatee County Government. It is provided for general reference and is not warranted in any way. Errors from non-coincidence of features from different sources may exist. The Manatee County BOCC shall be held harmless for inappropriate or unintended uses of the information.





AGREEMENT No. [number]

[TITLE]

between

**MANATEE COUNTY
(COUNTY)**

and

**[CONTRACTOR NAME]
(CONTRACTOR)**

SAMPLE

AGREEMENT FOR [TITLE]

THIS AGREEMENT is made and entered into as of this ____ day of _____, 20____, by and between **MANATEE COUNTY**, a political subdivision of the State of Florida, (“**COUNTY**”), with offices located at 1112 Manatee Avenue West, Bradenton, Florida 34205, and [**COMPANY NAME**], a [<enter the state of incorporation/organization and identify if it is a corporation/company/limited liability corporation, etc.], (“**CONTRACTOR**”) with offices located at [address], and duly authorized to conduct business in the State of Florida. COUNTY and CONTRACTOR are collectively referred to as the “Parties” and individually as “Party.”

WHEREAS, CONTRACTOR engages in the business of [title]; and

WHEREAS, COUNTY has determined that it is necessary, expedient and in the best interest of COUNTY to retain CONTRACTOR to render the non-professional services described in this Agreement; and

WHEREAS, [this Agreement is a result of CONTRACTOR'S submission of a proposal/bid in response to Request for Proposal/Invitation for Bid No. number and COUNTY thereafter conducted a competitive selection process OR this Agreement is a sole source/single source contract] in accordance with the Manatee County Procurement Code.

NOW, THEREFORE, the COUNTY and CONTRACTOR, in consideration of the mutual covenants, promises, and representations contained herein, the sufficiency of which is hereby acknowledged, the Parties hereto agree as follows:

ARTICLE 1. SCOPE OF SERVICES

CONTRACTOR shall provide non-professional services as described in **Exhibit A**, Scope of Services (“Services”). “Task” as used in this Agreement, refers to particular categories/groupings of Services specified in **Exhibit A**.

ARTICLE 2. EXHIBITS INCORPORATED

This Agreement consists of a primary contract and [number] exhibits, which are as follows:

- Exhibit A** Scope of Services
- Exhibit B** Fee Rate Schedule
- Exhibit C** Affidavit of No Conflict
- Exhibit D** Insurance and Bond Requirements

These Exhibits are attached hereto and are incorporated into this Agreement. In the event of a conflict between the terms and conditions provided in the Articles of this Agreement and any Exhibit, the provisions contained within these Articles shall prevail unless the Exhibit specifically states that it shall prevail.

ARTICLE 3. AGREEMENT TERM

- A. This Agreement shall commence on the date of execution by COUNTY (“Effective Date”). This Agreement shall remain in force through [date] unless terminated by COUNTY pursuant to Article 8, but not to exceed [number years in the initial term].
- B. COUNTY reserves the right to extend the initial term of [number years] for an additional [number], [number]-year periods not to exceed a total of [number] years.

ARTICLE 4. COMPENSATION

- A. CONTRACTOR shall be compensated for the Services and all expenditures incurred in providing the Services.
- B. The fee rates specified in **Exhibit B** shall be the total compensation for the Services and shall contain all applicable costs, to include salaries, office operation, transportation, equipment, overhead, general and administrative, incidental expenses, fringe benefits and operating margin.

ARTICLE 5. INVOICES AND TIME OF PAYMENT

- A. Subject to the provisions of this Agreement, COUNTY shall pay CONTRACTOR for the Services at a rate of compensation according to the deliverable payment schedule stated in **Exhibit B**.
- B. COUNTY shall approve all invoices prior to payment.
- C. COUNTY shall have forty-five (45) days from the receipt of an invoice seeking payment of fees and costs to either pay the invoice, or notify CONTRACTOR that the deliverable, or any part thereof, is unacceptable.
- D. COUNTY shall have the right to retain from any payment due CONTRACTOR under this Agreement, an amount sufficient to satisfy any amount of liquidated damages due and owing to COUNTY by CONTRACTOR on any other Agreement between CONTRACTOR and COUNTY.
- E. All costs of providing the Services shall be the responsibility of CONTRACTOR.
- F. Any dispute between COUNTY and CONTRACTOR with regard to the Services or CONTRACTOR’S invoice shall be resolved pursuant to the dispute resolution procedures established by Manatee County Procurement Code and Article 12 of this Agreement.

ARTICLE 6. RESPONSIBILITIES OF CONTRACTOR

- A. CONTRACTOR shall appoint an Agent with respect to the Services to be performed by CONTRACTOR pursuant to this Agreement. CONTRACTOR'S Agent shall have the authority to make representations on behalf of CONTRACTOR, receive information, and interpret and define the needs of CONTRACTOR and make decisions pertinent to the Services. CONTRACTOR'S Agent shall have the right to designate other employees of CONTRACTOR to serve in his or her absence. CONTRACTOR reserves the right to designate a different agent, provided that COUNTY is given advance written notice thereof.
- B. CONTRACTOR shall perform the Services in accordance with the terms and conditions of this Agreement.
- C. CONTRACTOR shall ensure that all employees assigned to render the Services are duly qualified, registered, licensed or certified to provide the Services required.
- D. CONTRACTOR shall be responsible for collecting all existing data required for the successful completion of each Task.
- E. CONTRACTOR shall not engage in any obligations, undertakings, contracts or professional obligations that create a conflict of interest, or even an appearance of a conflict of interest, with respect to the Services. CONTRACTOR attests to this via an Affidavit of No Conflict, **Exhibit C**.
- F. CONTRACTOR shall be entitled to rely upon information provided from COUNTY. Information may include, but is not limited to, additional services, consultations, investigations, and reports necessary for the execution of CONTRACTOR'S work under this Agreement. CONTRACTOR shall be fully responsible for verifying, to the extent practicable, documents and information provided by COUNTY and identifying any obvious deficiencies concerning the documents and information provided. CONTRACTOR shall notify COUNTY of any errors or deficiencies noted in such information provided and assist, to the extent practicable, COUNTY in the identification and resolution of same. CONTRACTOR agrees to incorporate the provisions of this paragraph in any subcontract into which it might enter with reference to the work performed under this Agreement.
- G. CONTRACTOR shall be responsible for the professional quality and technical accuracy of the Services and any other services furnished by CONTRACTOR under this Agreement. CONTRACTOR shall, without additional compensation, correct or revise any errors or deficiencies in the Services.
- H. CONTRACTOR shall maintain an adequate and competent staff of professionally qualified persons during the term of this Agreement for the purpose of rendering the required Services hereunder. CONTRACTOR shall not sublet, assign or transfer any Services without prior written consent of COUNTY.

- I. COUNTY may require in writing that CONTRACTOR remove from the Services any of CONTRACTOR'S personnel that COUNTY determines to be incompetent, careless or otherwise objectionable. No claims for an increase in compensation or agreement term based on COUNTY'S use of this provision will be valid.
- J. CONTRACTOR understands and agrees that this is a firm fixed price contract and that there shall be no allowances or reimbursement for any cost whatsoever except as otherwise explicitly provided in this Agreement. CONTRACTOR agrees to fulfill its obligations under this Agreement, regardless of cost, for the sole and sufficient compensation stated in Exhibit B with no expectation of additional compensation. COUNTY will not be obligated to pay CONTRACTOR any amount in excess of the firm fixed price specified in Exhibit B.

ARTICLE 7. RESPONSIBILITIES OF COUNTY

- A. COUNTY shall, through its County Administrator, appoint an individual to serve as County Representative. The County Representative shall have the authority to transmit instructions, receive information, interpret and define the policy of COUNTY and make decisions pertinent to the Services. COUNTY reserves the right to designate a different County Representative, provided that CONTRACTOR is given advance written notice thereof.
- B. COUNTY shall make available, at no cost to CONTRACTOR, information relative to the project that is useful in the performance of the Services.
- C. COUNTY shall provide prompt notice to CONTRACTOR whenever COUNTY observes or otherwise becomes aware of any defect in the performance of the Services.
- D. COUNTY shall give careful and reasonable consideration to the findings and recommendations of CONTRACTOR and shall respond and issue notices to proceed in a timely manner.
- E. COUNTY personnel shall be available on a time-permitting basis, where required and necessary to assist CONTRACTOR. The availability and necessity of said personnel to assist CONTRACTOR shall be at the discretion of COUNTY.
- F. COUNTY shall perform the responsibilities enumerated in this Article at no cost to CONTRACTOR.

ARTICLE 8. COUNTY'S PROJECT MANAGER

The Project Manager shall be appointed to represent COUNTY in all technical matters pertaining to and arising from the Services and performance of this Agreement. The Project Manager shall have the following responsibilities:

- A. The examination of all reports, sketches, drawings, estimates, proposals, and any other documents provided by CONTRACTOR.

- B. Providing CONTRACTOR written decisions of COUNTY'S approval or disapproval of these documents within a reasonable time.
- C. Transmission of instructions, receipt of information, and interpretation of COUNTY policies and decisions with respect to matters pertinent to the performance of the Services.
- D. Provide CONTRACTOR with prompt written notice whenever COUNTY observes, or otherwise becomes aware of, any defects or changes necessary in the Services.

ARTICLE 9. COUNTY OWNERSHIP OF WORK PRODUCT

The Parties agree that COUNTY shall have exclusive ownership of all reports, documents, designs, ideas, materials, reports, concepts, plans, creative works, and other work product developed for or provided to COUNTY in connection with this Agreement, and all patent rights, copyrights, trade secret rights and other intellectual property rights relating thereto (collectively "the Intellectual Property"). CONTRACTOR hereby assigns and transfers all rights in the Intellectual Property to COUNTY. CONTRACTOR further agrees to execute and deliver such assignments and other documents as COUNTY may later require to perfect, maintain and enforce COUNTY'S rights as sole owner of the Intellectual property, including all rights under patent and copyright law.

ARTICLE 10. TERMINATION OF AGREEMENT

A. TERMINATION FOR CAUSE:

1. COUNTY shall have the right, by written notice to CONTRACTOR, to terminate this Agreement, in whole or in part, for failure to substantially comply with the terms and conditions of this Agreement, to include:
 - a. Failure to provide Services that comply with the specifications herein or that fail to meet COUNTY'S performance standards;
 - b. Failure to perform the Services within the time specified in this Agreement; or
 - c. Work that is at a rate that disrupts the overall performance of this Agreement.
2. Prior to termination for default, COUNTY shall provide adequate written notice to CONTRACTOR, affording CONTRACTOR the opportunity to cure the deficiencies or to submit a specific plan to resolve the deficiencies within ten (10) days (or the period specified in the notice) after receipt of the notice. Failure to adequately cure the deficiency shall result in termination action.
3. Such termination may also result in suspension or debarment of CONTRACTOR in accordance with Manatee County's Procurement Ordinance, Chapter 2-26. CONTRACTOR shall be liable for any damage to COUNTY resulting from CONTRACTOR'S default of the Agreement.
4. In the event of termination of this Agreement, CONTRACTOR shall be liable for

any damage to COUNTY resulting from CONTRACTOR'S default of this Agreement. This liability includes any increased costs incurred by COUNTY in completing performance under this Agreement.

5. In the event of termination by COUNTY for any cause, CONTRACTOR shall not have any right or claim against COUNTY for lost profits or compensation for lost opportunities. After a receipt of COUNTY'S Notice of Termination and except as otherwise directed by COUNTY, CONTRACTOR shall:
 - a. Stop the Services on the date and to the extent specified;
 - b. Terminate and settle all orders and subcontracts relating to the performance of the terminated Services;
 - c. Transfer all work in process, completed work, and other materials related to the terminated Services as directed by COUNTY; and
 - d. Continue and complete all parts of the Services that have not been terminated.

B. TERMINATION WITHOUT CAUSE:

COUNTY may terminate this Agreement, in whole or in part, without cause. COUNTY shall provide CONTRACTOR a written "Notice of Intent to Terminate" thirty (30) days prior to the date of termination. If this Agreement is terminated by the COUNTY without cause, CONTRACTOR shall be entitled to payment for all Services performed to the satisfaction of the COUNTY and all expenses incurred under this Agreement prior to termination, less any costs, expenses or damages due to the failure of the CONTRACTOR to properly perform pursuant to this Agreement. CONTRACTOR shall not be entitled to any other compensation, including anticipated profits on unperformed Services.

ARTICLE 11. TRANSITION SERVICES UPON TERMINATION

Upon termination or expiration of this Agreement, CONTRACTOR shall cooperate with COUNTY to assist with the orderly transfer of the Services provided by CONTRACTOR to COUNTY. Prior to termination or expiration of this Agreement, COUNTY may require CONTRACTOR to perform and, if so required, CONTRACTOR shall perform, certain transition services necessary to shift the Services to another provider or to COUNTY itself as described below (the "Transition Services"). The Transition Services may include but shall not be limited to:

- A. Working with COUNTY to jointly develop a mutually agreed upon Transition Services plan to facilitate the termination of the Services;
- B. Executing the Transition Services plan activities;
- C. Answering questions regarding the Services on an as-needed basis; and
- D. Providing such other reasonable Services needed to effectuate an orderly transition to a new service provider or to COUNTY.

ARTICLE 12. DISPUTE RESOLUTION

- A. Disputes shall be resolved in accordance with the Manatee County Purchasing Code (Chapter 2-26 of the Manatee County Code of Ordinances). Any dispute resolution constituting a material change in this Agreement shall not be final until an amendment to this Agreement has been approved and executed by the County Procurement Official.
- B. CONTRACTOR agrees it must exhaust all dispute resolution procedures set forth in Manatee County's Procurement Code prior to instituting any action in state or federal court or before any administrative agency or tribunal.

ARTICLE 13. COMPLIANCE WITH LAWS

All Services rendered or performed by CONTRACTOR pursuant to the provisions of this Agreement shall be in compliance with all applicable local, state and federal laws and ordinances. CONTRACTOR shall have and keep current at all times during the term of this Agreement all licenses and permits as required by law.

ARTICLE 14. NON-DISCRIMINATION

CONTRACTOR shall not discriminate against any employee or applicant for employment because of race, color, sex, creed, national origin, disability or age, and will take affirmative action to ensure that all employees and applicants are afforded equal employment opportunities. Such action will be taken with reference to, but shall not be limited to, recruitment, employment, job assignment, promotion, upgrading, demotion, transfer, layoff or termination, rates of training or retraining (including apprenticeship and on-the-job training).

ARTICLE 15. MAINTENANCE OF RECORDS; AUDITS; LICENSES

- A. CONTRACTOR shall maintain records, accounts, property records, and personnel records in accordance with generally accepted accounting principles, as deemed necessary by COUNTY to assure proper accounting of funds and compliance with the provisions of this Agreement.
- B. CONTRACTOR shall provide COUNTY all information, reports, records and documents required by this Agreement or by COUNTY ordinances, rules or procedures, or as needed by COUNTY to monitor and evaluate CONTRACTOR'S performance. Such materials shall also be made available to COUNTY upon request for auditing purposes. Inspection or copying will occur during normal business hours, and as often as COUNTY may deem necessary. COUNTY shall have the right to obtain and inspect any audit pertaining to the performance of this Agreement or CONTRACTOR made by any local, state or federal agency. To the extent such materials are in the possession of a third party, CONTRACTOR must obtain them from that third party, or certify in writing to COUNTY why it was unable to do so. CONTRACTOR shall retain all records and supporting documents related to this Agreement in accordance with all applicable laws, rules and regulations, and, at a

minimum, retain all records and supporting documents related to this Agreement, except duplicate copies or drafts, for at least three (3) years after the termination date.

- C. CONTRACTOR shall obtain any licenses required to provide the Services and maintain full compliance with any licensure requirements. Copies of reports provided to or by any licensing or regulatory agency shall be forwarded to COUNTY within ten (10) days of receipt by CONTRACTOR. CONTRACTOR shall immediately notify COUNTY if the required licenses of any of its principles or agents working on this Agreement are terminated, suspended, revoked or are otherwise invalid and/or are no longer in good standing.

ARTICLE 16. PUBLIC RECORDS

Pursuant to Florida Statutes §119.0701, to the extent CONTRACTOR is performing services on behalf of COUNTY, CONTRACTOR shall:

- A. Keep and maintain public records that would ordinarily be required by COUNTY to perform the service.
- B. Upon request from COUNTY'S custodian of public records, provide COUNTY with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes, or as otherwise provided by law.
- C. Ensure that public records that are exempt or confidential from public records disclosure requirements are not disclosed except as authorized by law for the duration of this Agreement and following completion of this Agreement if CONTRACTOR does not transfer the records to COUNTY.
- D. Upon completion of this Agreement, transfer, at no cost, to COUNTY all public records in possession of CONTRACTOR or keep and maintain public records required by COUNTY to perform the service. If CONTRACTOR transfers all public records to COUNTY upon completion of this Agreement, CONTRACTOR shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If CONTRACTOR keeps and maintains public records upon completion of this Agreement, CONTRACTOR shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to COUNTY, upon request from COUNTY'S custodian of public records, in a format that is compatible with the information technology systems of COUNTY.

IF CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO COUNTY'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS AGREEMENT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT:

Phone: 941.742.5845

Email: Debbie.Scaccianoce@mymanatee.org

**Mail or hand delivery:
Attn: Records Manager
1112 Manatee Avenue West
Bradenton, FL 34205**

ARTICLE 17. INDEMNIFICATION

- A. Each Party shall defend, indemnify, save and hold harmless the other, its officers, employees and agents, from any and all third-party claims, liabilities, loss, or cause of action for property damage or bodily injury, including death, arising out of any negligent actions or omissions of the indemnifying Party, its agents, officers, employees or agents in the performance of this Agreement, including without limitation, defects in design, or errors or omissions that result in material cost increases to the indemnified Party. Such indemnification shall include, but not be limited to, the payment of all valid claims, losses, and judgments of any nature whatsoever in connection therewith and the payment of all related fees and costs, including attorneys' fees, incurred by the indemnified Party in connection with the indemnifying Party's activities arising out of the performance of this Agreement. This indemnification obligation shall not be construed to negate, abridge or reduce any other rights or remedies which otherwise may be available to an indemnified Party or person described in this paragraph or deemed to affect the rights, privileges and immunities of COUNTY as set forth in Section 768.28, Florida Statutes.
- B. CONTRACTOR will indemnify, defend, save and hold harmless the COUNTY, its officers, and employees from third-party claims, liabilities, loss, or cause of action that the Services constitutes an infringement of any third-party intellectual property right(s), unless such claim is based on COUNTY'S wrongful or illegitimate use of the Services. The foregoing states the entire liability of CONTRACTOR and the sole and exclusive remedy for COUNTY with respect to any third-party claim of infringement or misappropriation of intellectual property rights. Such indemnification shall include, but not be limited to, the payment of all valid claims, losses, and judgments of any nature whatsoever in connection therewith and the payment of all related fees and costs, including attorneys' fees.

ARTICLE 18. NO WAIVER OF SOVEREIGN IMMUNITY

Nothing herein shall be interpreted as a waiver by COUNTY of its rights, including the limitations of the waiver of immunity as set forth in Section 768.28, Florida Statutes, or any other applicable statutes or immunities. COUNTY expressly reserves these rights to the full extent allowed by law.

ARTICLE 19. INSURANCE

- A. CONTRACTOR shall, at its own cost and expense, acquire and maintain (and cause any subcontractors, representatives, or agents to acquire and maintain) insurance

policies that comply with the Insurance Requirements, attached as **Exhibit D**, during the term of this Agreement, to include any renewal terms.

- B. Certificates of Insurance and copies of policies evidencing the insurance coverage specified in **Exhibit D** shall be filed with the Procurement Official before the Effective Date of this Agreement. The required certificates shall identify the type of policy, policy number, date of expiration, amount of coverage, companies affording coverage, shall refer specifically to the title of this Agreement, and shall name Manatee County as an additional insured. No changes shall be made to the insurance coverage without prior written approval by COUNTY'S Risk Management Division.
- C. Insurance shall remain in force for at least three (3) years after completion of the Services in the amounts and types of coverage as required by **Exhibit D**, including coverage for all Services completed under this Agreement.
- D. If the initial insurance expires prior to the termination of this Agreement, renewal Certificates of Insurance and required copies of policies shall be furnished by CONTRACTOR and delivered to the Procurement Official thirty (30) days prior to the date of their expiration.

ARTICLE 20. SOLICITATION OF AGREEMENT

CONTRACTOR warrants that it has not employed or retained any company or person other than a bona fide employee working solely for CONTRACTOR to solicit or secure this Agreement, and that it has not paid or agreed to pay any company or person other than an employee working solely for CONTRACTOR, any fee, commission, percentage, brokerage fee, gift, contingent fee, or any other consideration contingent upon or resulting from the award or making of this Agreement. For breach or violation of this warranty, COUNTY shall have the right to award this Agreement without liability, or at its discretion, to deduct from this Agreement price or consideration or otherwise recover the full amount of such fee, commission, percentage, brokerage fee, gifts, or contingent fee.

ARTICLE 21. ASSIGNMENT AND SUBCONTRACTING

CONTRACTOR shall not assign or transfer any right or duty under this Agreement to any other Party without the prior written consent of COUNTY. In the event CONTRACTOR asserts it is necessary to utilize the services of third parties to perform any of the Services, CONTRACTOR shall first obtain prior written approval of COUNTY.

Approval to utilize any third party shall not relieve CONTRACTOR from any direct liability or responsibility to COUNTY pursuant to the provisions of this Agreement, or obligate COUNTY to make any payments other than payments due to CONTRACTOR as outlined in this Agreement. All terms and conditions of this Agreement shall extend to and be binding on any approved purchaser, assignee, or other successor in interest.

Assignment, pledging, sale, transfer or encumbering of any interest or rights under this Agreement, to anyone other than the CONTRACTOR, without the prior written consent of the COUNTY, shall be grounds for immediate termination of this Agreement.

[name]
[Address]
[City/State/Zip]
Phone: ([area code] [number])
Email: [email]

ARTICLE 27. RELATIONSHIP OF PARTIES

The relationship of CONTRACTOR to COUNTY shall be that of an independent contractor. Nothing herein contained shall be construed as vesting or delegating to CONTRACTOR or any of the officers, employees, personnel, agents, or sub-contractors of CONTRACTOR any rights, interest or status as an employee of COUNTY. COUNTY shall not be liable to any person, firm or corporation that is employed by Agreements or provides goods or services to CONTRACTOR in connection with this Agreement or for debts or claims accruing to such parties. CONTRACTOR shall promptly pay, discharge or take such action as may be necessary and reasonable to settle such debts or claims.

ARTICLE 28. NO CONFLICT

By accepting award of this Agreement, CONTRACTOR, which shall include its directors, officers and employees, represents that it presently has no interest in and shall acquire no interest in any business or activity which would conflict in any manner with the performance of duties or Services required hereunder.

ARTICLE 29. ETHICAL CONSIDERATIONS

CONTRACTOR recognizes that in rendering the Services, CONTRACTOR is working for the residents of Manatee County, Florida, subject to public observation, scrutiny and inquiry; and based upon said recognition CONTRACTOR shall, in all of its relationships with COUNTY pursuant to this Agreement, conduct itself in accordance with all of the recognized applicable ethical standards set by any related national societies, and the reasonable traditions to perform the Services. CONTRACTOR shall be truthful in its communications with COUNTY personnel regarding matters pertaining to this Agreement and the Services rendered to COUNTY.

ARTICLE 30. PUBLIC ENTITY CRIMES

CONTRACTOR has been made aware of the Florida Public Entity Crimes Act, Florida Statutes § 287.133, specifically section 2(a), and COUNTY'S requirement that CONTRACTOR comply with it in all respects prior to and during the term of this Agreement.

ARTICLE 31. TAXES

COUNTY is exempt from Federal Excise and State Sales Taxes (F.E.T. Exemption Certificate No. 59-78-0089K; FL Sales Tax Exemption Certificate No. 51-02-027548-53C). Therefore, CONTRACTOR is prohibited from charging or imposing any sales or service taxes. Nothing herein shall affect CONTRACTOR'S normal tax liability.

CONTRACTOR shall be responsible for payment of federal, state, and local taxes which

may be imposed upon CONTRACTOR under applicable law to the extent that CONTRACTOR is responsible for the payment of same under applicable law.

ARTICLE 32. FORCE MAJEURE

Neither Party shall be considered in default in performance of its obligations hereunder to the extent that performance of such obligations or any of them is delayed or prevented by Force Majeure.

Force Majeure shall include, but not be limited to, hostility, revolution, civil commotion, strike, epidemic, accident, fire, flood, wind, earthquake, hurricane, explosion, lack of or failure of transportation facilities, any law, proclamation, regulation, ordinance or other act of government, or any act of God or any cause whether of the same or different nature, existing or future; provided that the cause, whether or not enumerated in this Article, is beyond the control and without the fault or negligence of the Party seeking relief under this Article.

ARTICLE 33. GOVERNING LAW, JURISDICTION AND VENUE

This Agreement shall be governed by the laws of the State of Florida. Any action filed regarding this Agreement will be filed only in Manatee County, Florida, or if in Federal Court, the Middle District of Florida, Tampa Division.

ARTICLE 34. ATTORNEY FEES

In the event of any litigation arising under the terms of this Agreement, each Party shall be responsible for their own attorney's fees, including appellate fees, regardless of the outcome of the litigation.

ARTICLE 35. PATENT AND COPYRIGHT RESPONSIBILITY

Any material or design specified by CONTRACTOR or supplied by CONTRACTOR pursuant to this Agreement shall not knowingly infringe any patent or copyright, and CONTRACTOR shall be solely responsible for securing any necessary licenses required for patented or copyrighted material utilized by CONTRACTOR in the performance of the Services.

ARTICLE 36. AMENDMENTS

This Agreement and Exhibits referenced herein constitute the entire Agreement between the Parties with respect to subject matter and mutually agree that no verbal agreements, representations, warranties or other understandings affecting the same exist. No amendment hereof shall be effective until and unless reduced to writing and executed by the Parties. The Parties shall execute any additional documents as may be necessary to implement and carry out the intent of this Agreement.

ARTICLE 37. SEVERABILITY

It is understood and agreed by the Parties hereto that if any part, term, or provision of this Agreement is held to be illegal or in conflict with any law, the validity of the remaining portions or provisions shall not be affected, and the rights and obligations of the Parties

shall be construed and enforced as if this Agreement did not contain the particular part, term or provision held to be invalid.

ARTICLE 38. LEGAL REFERENCES

All references to statutory sections or chapters shall be construed to include subsequent amendments to such provisions, and to refer to the successor provision of any such provision. References to “applicable law” and “general law” shall be construed to include provisions of local, state and federal law, whether established by legislative action, administrative rule or regulation, or judicial decision.

ARTICLE 39. HEADINGS, CONSTRUCTION

The Parties agree that they have each participated in the drafting of this Agreement and that the rules with respect to construing ambiguities against the drafter of a contract shall not apply in any action or litigation regarding this Agreement. All articles and descriptive headings of paragraphs of this Agreement are inserted for convenience only and shall not affect the construction or interpretation hereof.

ARTICLE 40. TIME

For purposes of computing any period of number of days hereunder for notices or performance of ten (10) days or less, Saturdays, Sundays and holidays shall be excluded, unless otherwise stated.

ARTICLE 41. AUTHORITY TO EXECUTE

Each of the Parties hereto covenants to the other Party that it has lawful authority to enter into this Agreement.

[Remainder of page intentionally left blank]

SAMPLE

IN WITNESS WHEREOF, the Parties hereto have caused this Agreement to be duly executed effective as of the date set forth above.

CONTRACTOR NAME

BY: _____

Printed Name: _____

Title: _____

Date: _____

**MANATEE COUNTY, a political subdivision
of the State of Florida**

INSERT PROCUREMENT OFFICIAL
Procurement Official

Date: _____

SAMPLE

IN WITNESS WHEREOF, the Parties have caused this Agreement to be duly executed effective as of the date set forth above.

COMPANY

BY: _____

Printed Name: _____

Title: _____

Date: _____

MANATEE COUNTY, FLORIDA
By: Its Board of County Commissioners

BY: _____
Chairperson

Date: _____

ATTEST: ANGELINA COLOINZO
CLERK OF THE CIRCUIT COURT AND COMPTROLLER

BY: _____
Deputy Clerk

SAMPLE

EXHIBIT A, SCOPE OF SERVICES

SAMPLE

EXHIBIT B, FEE RATE SCHEDULE**1. FEES**

Fees for the goods and services detailed in this Agreement shall be as indicated in this Exhibit B.

2. ESCALATION/DE-ESCALATION

<Contractor/Supplier> fees for <type of good/service> shall remain firm for a minimum of <years/months> after execution of the Agreement. Any escalation or de-escalation in pricing thereafter will be based on the <identify the index source, index name, and the index number> change in most recent 12-month period. No more than <price increase> is allowed in a <month> month period.

[Remainder of page intentionally left blank]

SAMPLE

EXHIBIT C, AFFIDAVIT OF NO CONFLICT

STATE OF _____
COUNTY OF _____

BEFORE ME, the undersigned authority, this day personally appeared [INSERT NAME]
_____, as [INSERT TITLE]
_____ of [INSERT CONTRACTOR NAME]
_____, (hereinafter "CONTRACTOR") with full authority to
bind CONTRACTOR, who being first duly sworn, deposes and says that CONTRACTOR:

(a) Is not currently engaged and will not become engaged in any obligations, undertakings or contracts that will require CONTRACTOR to maintain an adversarial role against the County or that will impair or influence the advice, recommendations or quality of work provided to the County; and

(b) Has provided full disclosure of all potentially conflicting contractual relationships and full disclosure of contractual relationships deemed to raise a question of conflict(s); and

(c) Has provided full disclosure of prior work history and qualifications that may be deemed to raise a possible question of conflict(s).

Affiant makes this Affidavit for the purpose of inducing Manatee County, a political subdivision of the State of Florida, to enter into this Agreement No. _____ for _____

DATED this _____ day of _____, 20_____.

CONTRACTOR Signature _____

The foregoing instrument was sworn to and acknowledged before me this _____ day of _____, 20____, by [NAME] _____, as [TITLE] _____ of [CONTRACTOR] _____.

He / She is personally known to me or has produced _____ [TYPE OF IDENTIFICATION] as identification.

Notary Signature _____
Commission No. _____

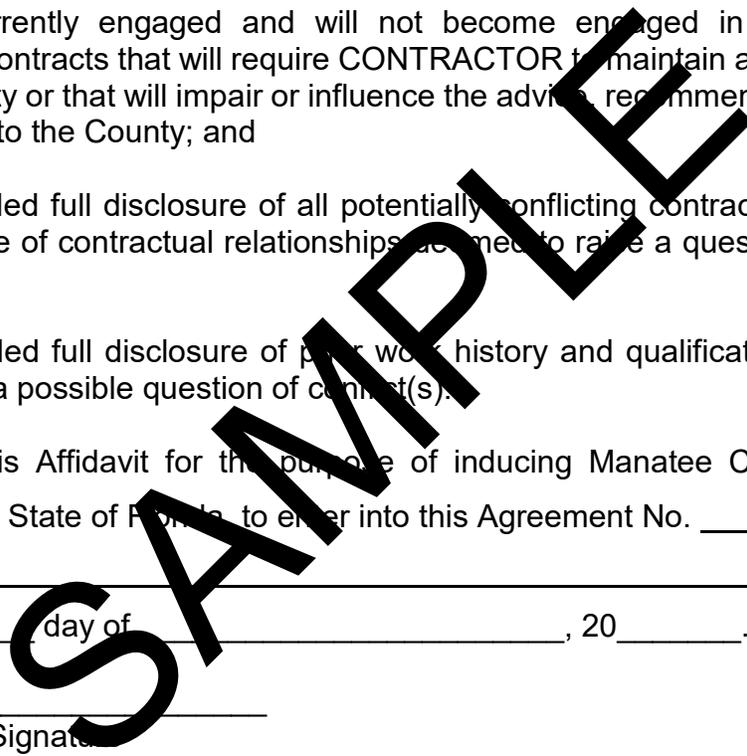


EXHIBIT D, INSURANCE AND BOND REQUIREMENTS

The CONTRACTOR will not commence work under the resulting Agreement until all insurance coverages indicated by an "X" herein have been obtained. The CONTRACTOR shall obtain and submit to the Procurement Division within ten (10) calendar days from the date of notice of intent to award, at its expense, the following minimum amounts of insurance (inclusive of any amounts provided by an umbrella or excess policy): Work under this Agreement cannot commence until all insurance coverages indicated herein have been obtained on a standard ACORD form (inclusive of any amounts provided by an umbrella or excess policy):

Automobile Liability Insurance Required Limits

Coverage must be afforded under a per occurrence policy form including coverage for all owned, hired and non-owned vehicles for bodily injury and property damage of not less than:

- \$1,000,000 Combined Single Limit; OR
- \$ 500,000 Bodily Injury and \$500,000 Property Damage
- \$10,000 Personal Injury Protection (No Fault)
- \$500,000 Hired, Non-Owned Liability
- \$10,000 Medical Payments

This policy shall contain severability of interests' provisions.

Commercial General Liability Insurance Required Limits (per Occurrence form only; claims-made form is not acceptable)

Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name 'Manatee County, a political subdivision of the State of Florida' as an Additional Insured, and include limits not less than:

- \$1,000,000 Single Limit Per Occurrence
- \$2,000,000 Aggregate
- \$1,000,000 Products/Completed Operations Aggregate
- \$1,000,000 Personal and Advertising Injury Liability
- \$50,000 Fire Damage Liability
- \$10,000 Medical Expense, and
- \$1,000,000, Third Party Property Damage
- \$ Project Specific Aggregate (Required on projects valued at over \$10,000,000)

This policy shall contain severability of interests' provisions.

Employer's Liability Insurance

Coverage limits of not less than:

- \$100,000 Each Accident
- \$500,000 Disease Each Employee
- \$500,000 Disease Policy Limit

Worker's Compensation Insurance

- US Longshoremen & Harbor Workers Act**
 Jones Act Coverage

Coverage limits of not less than:

- Statutory workers' compensation coverage shall apply for all employees in compliance with the laws and statutes of the State of Florida and the federal government.
- If any operations are to be undertaken on or about navigable waters, coverage must be included for the US Longshoremen & Harbor Workers Act and Jones Act.

Should 'leased employees' be retained for any part of the project or service, the employee leasing agency shall provide evidence of Workers' Compensation coverage and Employer's Liability coverage for all personnel on the worksite and in compliance with the above Workers' Compensation requirements. NOTE: Workers' Compensation coverage is a firm requirement. Elective exemptions are considered on a case-by-case basis and are approved in a very limited number of instances.

Aircraft Liability Insurance Required Limits

Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name 'Manatee County a political subdivision of the State of Florida' as an Additional Insured, and include limits not less than:

- \$ Each Occurrence Property and Bodily Injury with no less than \$100,000 per passenger each occurrence on a 'smooth' limit.
- \$ General Aggregate.

Un-Manned Aircraft Liability Insurance (Drone)

Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name 'Manatee County a political subdivision of the State of Florida' as an Additional Insured, and include limits not less than:

- \$ Each Occurrence Property and Bodily Injury; Coverage shall specifically include operation of Unmanned Aircraft Systems (UAS), including liability and property damage.
- \$ General Aggregate

Installation Floater Insurance

When the contract or agreement **does not** include construction of, or additions to, above ground building or structures, but does involve the installation of machinery or equipment, Installation Floater Insurance shall be afforded under a per occurrence policy form, policy shall be endorsed and name "Manatee County, a political subdivision of the State of Florida" as an Additional Insured, and include limits not less than:

- 100% of the completed value of such addition(s), building(s), or structure(s)

Professional Liability and/or Errors and Omissions (E&O) Liability Insurances
Coverage shall be afforded under either an occurrence policy form or a claims-made policy form. If the coverage form is on a claims-made basis, then coverage must be maintained for a minimum of three years from termination of date of the contract. Limits must not be less than:

- \$ 1,000,000 Bodily Injury and Property Damage Each Occurrence
- \$ 2,000,000 General Aggregate

Builder's Risk Insurance

When the contract or agreement includes the construction of roadways and/or the addition of a permanent structure or building, including the installation of machinery and/or equipment, Builder's Risk Insurance shall be afforded under a per occurrence policy form, policy shall be endorsed and name "Manatee County, a political subdivision of the State of Florida" as an Additional Insured, and include limits not less than:

- An amount equal to 100% of the completed value of the project, or the value of the equipment to be installed
- The policy shall not carry a self-insured retention/deductible greater than \$10,000

Coverage shall be for all risks and includes, but not be limited to, storage and transport of materials, equipment, supplies of any kind whatsoever to be used on or incidental to the project, theft coverage, and Waiver of Occupancy Clause Endorsement, where applicable.

Cyber Liability Insurance

Coverage shall comply with Florida Statute 501.171, shall be afforded under a per occurrence policy form, policy shall be endorsed and name 'Manatee County, a political subdivision of the State of Florida' as an Additional Insured, and include limits not less than:

- \$ Security Breach Liability
- \$ Security Breach Expense Each Occurrence
- \$ Security Breach Expense Aggregate
- \$ Replacement or Restoration of Electronic Data
- \$ Extortion Threats
- \$ Business Income and Extra Expense
- \$ Public Relations Expense

NOTE: Policy must not carry a self-insured retention/deductible greater than \$25,000.

Hazardous Materials Insurance (As Noted Below)

Hazardous materials include all materials and substances that are currently designated or defined as hazardous by the law or rules of regulation by the State of Florida or federal

government.

All coverage shall be afforded under either an occurrence policy form or a claims-made policy form, and the policy shall be endorsed and name 'Manatee County, a political subdivision of the State of Florida' as an Additional Insured. If the coverage form is on a claims-made basis, then coverage must be maintained for a minimum of three years from termination of date of the contract. Limits must not be less than:

Pollution Liability

Amount equal to the value of the contract, subject to a \$1,000,000 minimum, for Bodily Injury and Property Damage to include sudden and gradual release, each claim and aggregate.

Asbestos Liability (If handling within scope of Contract)

Amount equal to the value of the contract, subject to a \$1,000,000 minimum, for Bodily Injury and Property Damage to include sudden and gradual release, each claim and aggregate.

Disposal

When applicable, CONTRACTOR shall designate the disposal site and furnish a Certificate of Insurance from the disposal facility for Environmental Impairment Liability Insurance covering liability.

- Amount equal to the value of the contract, subject to a \$1,000,000 minimum, for Liability for Sudden and Accidental Occurrences, each claim and an aggregate.
- Amount equal to the value of the contract, subject to a \$1,000,000 minimum, for Liability for Non-Sudden and Accidental Occurrences, each claim and an aggregate.

Hazardous Waste Transportation Insurance

CONTRACTOR shall designate the hauler and have the hauler furnish a Certificate of Insurance for Automobile Liability Insurance with Endorsement MCS-90 for liability arising out of the transportation of hazardous materials. EPA identification number shall be provided.

All coverage shall be afforded under either an occurrence policy form or a claims-made policy form and the policy shall be endorsed and name "Manatee County, a political subdivision of the State of Florida" as an Additional Insured. If the coverage form is on a claims-made basis, then coverage must be maintained for a minimum of three years from termination of date of the contract. Limits must not be less than:

- Amount equal to the value of the contract, subject to a \$1,000,000 minimum, per accident.

Liquor Liability Insurance

Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name "Manatee County, a political subdivision of the State of Florida" as an Additional

Insured, and include limits not less than:

- \$1,000,000 Each Occurrence and Aggregate

Garage Keeper's Liability Insurance

Coverage shall be required if the maintenance, servicing, cleaning or repairing of any County motor vehicles is inherent or implied within the provision of the contract.

Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name "Manatee County, a political subdivision of the State of Florida" as an Additional Insured, and include limits not less than:

- Property and asset coverage in the full replacement value of the lot or garage.

Bailee's Customer Liability Insurance

Coverage shall be required for damage and/or destruction when County property is temporarily under the care or custody of a person or organization, including property that is on, or in transit to and from the person or organization's premises. Perils covered should include fire, lightning, theft, burglary, robbery, explosion, collision, flood, earthquake and damage or destruction during transportation by a carrier.

Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name "Manatee County, a political subdivision of the State of Florida" as an Additional Insured, and include limits not less than:

- Property and asset coverage to the full replacement value of the County asset(s) in the CONTRACTOR'S care, custody and control.

Hull and Watercraft Liability Insurance

Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name "Manatee County, a political subdivision of the State of Florida" as an Additional Insured, and include limits not less than:

- \$ Each Occurrence
- \$ General Aggregate
- \$ Fire Damage Liability
- \$10,000 Medical Expense, and
- \$ Third Party Property Damage
- \$ Project Specific Aggregate (Required on projects valued at over \$10,000,000)

Other [Specify]

REQUIRED BONDS

Bid Bond

A Bid Bond in the amount of \$ _____ or _____% of the total offer. Bid bond shall be submitted with the sealed response and shall include project name, location, and / or address and project number. In lieu of the bond, the bidder may file an alternative form of security in the amount of \$ _____ or _____% of the total offer. in the form of a money order, a certified check, a cashier's check, or an irrevocable letter of credit issued to Manatee County. NOTE: A construction project over \$200,000 requires a Bid Bond in the amount of 5% of the total bid offer.

Payment and Performance Bond

A Payment and Performance Bond shall be submitted by Successful Bidder for 100% of the award amount and shall be presented to Manatee County within ten (10) calendar days of issuance of the notice of intent to award. NOTE: A construction project over \$200,000 requires a Payment and Performance Bond.

I. INSURANCE REQUIREMENTS

THE POLICIES ARE TO CONTAIN, OR BE ENDORSED TO CONTAIN, THE FOLLOWING PROVISIONS:

Commercial General Liability and Automobile Liability Coverages

- a. **“Manatee County, a Political Subdivision of the State of Florida,” is to be named as an Additional Insured in respect to:** Liability arising out of activities performed by or on behalf of the CONTRACTOR, his agents, representatives, and employees products and completed operations of the CONTRACTOR; or automobiles owned, leased, hired or borrowed by the CONTRACTOR. The coverage shall contain no special limitation(s) on the scope of protection afforded to the COUNTY, its officials, employees or volunteers.

In addition to furnishing a Certificate of Insurance, the CONTRACTOR shall provide the endorsement that evidences Manatee COUNTY being listed as an Additional Insured. This can be done in one of two ways: (1) an endorsement can be issued that specifically lists “Manatee County, a Political Subdivision of the State of Florida,” as Additional Insured; or, (2) an endorsement can be issued that states that all Certificate Holders are Additional Insured with respect to the policy.

- b. The CONTRACTOR'S insurance coverage shall be primary insurance with respect to the COUNTY, its officials, employees and volunteers. Any insurance or self-insurance maintained by the COUNTY, its officials, employees or volunteers shall be excess of CONTRACTOR's insurance and shall be non-contributory.
- c. The insurance policies must be on an occurrence form.

Workers' Compensation and Employers' Liability Coverages

The insurer shall agree to waive all rights of subrogation against the COUNTY, its officials, employees and volunteers for losses arising from work performed by the CONTRACTOR for the COUNTY.

II. General Insurance Provisions Applicable To All Policies:

- a. Prior to the execution of contract, or issuance of a Purchase Order, and then annually upon the anniversary date(s) of the insurance policy's renewal date(s) for as long as this contract remains in effect, CONTRACTOR shall furnish the COUNTY with a Certificate(s) of Insurance (using an industry accepted certificate form, signed by the Issuer, with applicable endorsements, and containing the solicitation or contract number, and title or description) evidencing the coverage set forth above and naming "Manatee County, a Political Subdivision of the State of Florida" as an Additional Insured on the applicable coverage(s) set forth above.
- b. If the policy contains an aggregate limit, confirmation is needed in writing (letter, email, etc.) that the aggregate limit has not been eroded to procurement representative when supplying Certificate of Insurance.

In addition, when requested in writing from the COUNTY, CONTRACTOR will provide the COUNTY with a certified copy of all applicable policies. The address where such certificates and certified policies shall be sent or delivered is as follows:

**Manatee County, a Political Subdivision of the State of Florida
Attn: Risk Management Division
1112 Manatee Avenue West, Suite 969
Bradenton, FL 34205**

- c. The project's solicitation number and title shall be listed on each certificate.
- d. CONTRACTOR shall provide thirty (30) days written notice to the Risk Manager of any cancellation, non-renewal, termination, material change, or reduction in coverage of any insurance policies to procurement representative including solicitation number and title with all notices.
- e. CONTRACTOR agrees that should at any time CONTRACTOR fail to meet or maintain the required insurance coverage(s) as set forth herein, the COUNTY may terminate this contract.

- f. The CONTRACTOR waives all subrogation rights against COUNTY, a Political Subdivision of the State of Florida, for all losses or damages which occur during the contract and for any events occurring during the contract period, whether the suit is brought during the contract period or not.
- g. The CONTRACTOR has sole responsibility for all insurance premiums and policy deductibles.
- h. It is the CONTRACTOR'S responsibility to ensure that his agents, representatives and subcontractors comply with the insurance requirements set forth herein. CONTRACTOR shall include his agents, representatives, and subcontractors working on the project or at the worksite as insured under its policies, or CONTRACTOR shall furnish separate certificates and endorsements for each agent, representative, and subcontractor working on the project or at the worksite. All coverages for agents, representatives, and subcontractors shall be subject to all of the requirements set forth to the procurement representative.
- i. All required insurance policies must be written with a carrier having a minimum A.M. Best rating of A- FSC VII or better. In addition, the COUNTY has the right to review the CONTRACTOR's deductible or self-insured retention and to require that it be reduced or eliminated.
- j. CONTRACTOR understands and agrees that the stipulated limits of coverage listed herein in this insurance section shall not be construed as a limitation of any potential liability to the COUNTY, or to others, and the COUNTY'S failure to request evidence of this insurance coverage shall not be construed as a waiver of CONTRACTOR'S obligation to provide and maintain the insurance coverage specified.
- k. CONTRACTOR understands and agrees that the COUNTY does not waive its immunity and nothing herein shall be interpreted as a waiver of the COUNTY'S rights, including the limitation of waiver of immunity, as set forth in Florida Statutes 768.28, or any other statutes, and the COUNTY expressly reserves these rights to the full extent allowed by law.
- l. No award shall be made until the Procurement Division has received the Certificate of Insurance in accordance with this section.

III. BONDING REQUIREMENTS

Bid Bond/Certified Check. By submitting a proposal, the CONTRACTOR agrees should its proposal be accepted, **to execute the form of Agreement and present the same to COUNTY for approval within ten (10) calendar days after notice of intent to award.**

The CONTRACTOR further agrees that failure to execute and deliver said form of Agreement **within ten (10) calendar days** will result in damages to COUNTY and as guarantee of payment of same a bid bond/certified check shall be enclosed within the submitted sealed proposal in the amount of five (5%) percent of the total amount of the proposal. The CONTRACTOR further agrees that in case the CONTRACTOR fails to enter into an Agreement, as prescribed by COUNTY, the bid bond/certified check accompanying the proposal shall be forfeited to COUNTY as agreed liquidated damages. If COUNTY enters into an agreement with a CONTRACTOR, or if COUNTY rejects any and/or all proposals, accompanying bond will be promptly returned.

Payment and Performance Bonds. Prior to commencing work, the CONTRACTOR shall obtain, for the benefit of and directed to COUNTY, a Payment and Performance Bond satisfying the requirements of Section 255.05, Florida Statutes, covering the faithful performance by the CONTRACTOR of its obligation under the Contract Documents, including but not limited to the construction of the project on the project site and the payment and obligations arising thereunder, including all payments to Subcontractors, laborers, and materialmen. The surety selected by the CONTRACTOR to provide the Payment and Performance Bond shall be approved by COUNTY prior to issuance of such Bond, which approval shall not be unreasonably withheld or delayed provided that surety is rated A- or better by Best's Key Guide, latest edition.

Failure to provide the required bonds in the prescribed form may result in CONTRACTOR being deemed nonresponsive. Bonds must be in the form prescribed in Section 255.05, Florida Statutes, and must not contain notice, demand or other terms and conditions, including **informal** pre-claim meetings, not provided for in Section 255.05, Florida Statutes.

Bonds shall be in an amount equal to 100% of the contract price issued by a duly authorized and nationally recognized surety company, authorized to do business in the State of Florida, satisfactory to COUNTY. Surety shall be rated as "A-" or better by Best's Key Guide, latest edition. The attorney-in-fact who signs the bonds must file with the bonds, a certificate and effective dated copy of power-of-attorney. Payment and Performance Bonds shall be issued to "Manatee County, a political subdivision of the State of Florida", **within ten (10) calendar days after issuance of notice of intent to award.**

In addition, pursuant to Section 255.05(1)(b), Florida Statutes, prior to commencing work, the CONTRACTOR shall be responsible and bear all costs associated to record the Payment and Performance Bond with the Manatee County Clerk of the Circuit Court. A certified copy of said recording shall be furnished to the Procurement Division upon filing. Pursuant to Section 255.05(1)(b), Florida Statutes, COUNTY will make no payment to the CONTRACTOR until the CONTRACTOR has complied with this paragraph.

Furnishing Payment and Performance Bonds shall be requisite to execution of an Agreement with COUNTY. Said Payment and Performance Bonds will remain in force for the duration of this Agreement with the premiums paid by the CONTRACTOR. Failure of

the CONTRACTOR to execute such Agreement and to supply the required bonds shall be just cause for cancellation of the award. COUNTY may then contract with the next lowest, responsive and responsible CONTRACTOR or re-advertise this RFP.

Failure of COUNTY at any time to require performance by the CONTRACTOR of any provisions set out in the resulting Agreement will in no way affect the right of COUNTY, thereafter, to enforce those provisions.

[Remainder of page intentionally left blank]

SAMPLE

CONTRACTOR'S INSURANCE STATEMENT

THE UNDERSIGNED has read and understands the aforementioned insurance and bond requirements of this Agreement and shall provide the insurance and bonds required by this section within ten (10) days from the date of notice of intent to award.

Date: _____

Contractor's Name: _____

Authorized Signature: _____

Printed Name/Title: _____

Insurance Agency: _____

Agent Name: _____

Agent Phone: _____

Surety Agency: _____

Surety Name: _____

Surety Phone: _____

SAMPLE

Please return this completed and signed statement with your agreement.