

**State of Florida
Department of Transportation**



REQUEST FOR PROPOSAL
TMS Installation and Maintenance Services

DOT-RFP-19-9075-GH

RESPONES DUE:

Wednesday, April 17, 2019 @ 3:00PM EST

CONTACT FOR QUESTIONS:

Greg Hill, Procurement Agent
greg.hill@dot.state.fl.us
605 Suwannee Street, Mail Station 20
Tallahassee, Florida 32399-0450

INTRODUCTION SECTION

1) INVITATION

The State of Florida Department of Transportation, hereinafter referred to as the "Department", requests written proposals from qualified Proposers to provide 1) motorized Traffic Monitoring Site (TMS) Installation and Maintenance Services, and 2) non-motorized TMS installation. It is anticipated that the term of the contract will begin upon contract execution and be effective for three (3) years.

The Department intends to award this contract to the responsive and responsible Proposer whose proposal is determined to be the most advantageous to the Department. After the award, said Proposer will be referred to as the "Vendor". For the purpose of this document, the term "Proposer" means the prime Vendor acting on its own behalf and those individuals, partnerships, firms, or corporations comprising the Proposer team. The term "proposal" means the complete response of the Proposer to the Request for Proposals (RFP), including properly completed forms and supporting documentation.

2) TIMELINE

Provided below is a list of critical dates and actions. These dates are subject to change. Notices of changes (Addenda) will be posted on the Florida Vendor Bid System at www.myflorida.com (click on "BUSINESS", click on "Doing Business with the State", under "Everything for Vendors and Customers", click on "Vendor Bid System (VBS)", click on "Search Advertisements") under this RFP number. It is the responsibility of all potential proposers to monitor this site for any changing information prior to submitting your proposal.

ACTION / LOCATION	DATE	LOCAL TIME
DEADLINE FOR TECHNICAL QUESTIONS	3-18-2019	5:00 PM
PROPOSALS DUE, ON OR BEFORE (Technical and Price Proposal) FDOT Burns Bldg. Attn: Greg Hill 605 Suwannee Street, Mail Station 20 Tallahassee, Florida 32399-0450 Phone: 850.414.4482	4-17-2019	3:00 PM
PUBLIC OPENING (Technical Proposal) FDOT Burns Bldg. 605 Suwannee Street Tallahassee, Florida 32399-0450	4-17-2019	3:00 PM
PUBLIC OPENING / MEETING (Price Proposal/Tabulation/Intended Award) FDOT 605 Suwannee Street Tallahassee, Florida 32399-0450	5-1-2019	3:00 PM
POSTING OF INTENDED AWARD	5-1-2019	5:00 PM

3) AGENDA FOR PUBLIC MEETINGS

Agenda – Public Opening (Technical Proposals)

Agenda for Public Opening of Technical Proposals for DOT-RFP-19-9075-GH:

Starting Time: see “Timeline” in RFP solicitation

- Opening remarks of approx. 2 minutes by Department Procurement Office personnel.
- Public input period – To allow a maximum of 15 minutes total for public input related to the RFP solicitation.
- At conclusion of public input or 15 minutes, whichever occurs first, the Technical Proposals received timely will be opened, with proposer’s name read aloud and tabulated. Price proposals will be kept secured and unopened until the Price Proposal Opening.
- Adjourn meeting.

Agenda – Price Proposal Opening & Intended Award Meeting

Agenda for Price Proposal Opening and Intended Award meeting for DOT-RFP-19-9075-GH:

Starting Time: see “Timeline” in RFP solicitation

- Opening remarks of approx. 2 minutes by Department Procurement Office personnel.
- Public input period – To allow a maximum of 15 minutes total for public input related to the RFP solicitation.
- At conclusion of public input or 15 minutes, whichever occurs first, the Technical evaluation scores will be summarized.
- Announce the firms that did not achieve the minimum technical score.
- Announce the firms that achieved the minimum technical score and their price(s) as price proposals are opened.
- Calculate price scores and add to technical scores to arrive at total scores.
- Announce Proposer with highest Total Score as Intended Award.
- Announce time and date the decision will be posted on the Vendor Bid System (VBS).
- Adjourn.

4) SPECIAL ACCOMMODATIONS

Any person with a qualified disability requiring special accommodations at a pre-proposal conference, public meeting, oral presentation and/or opening shall contact the contact person at the phone number, e-mail address or fax number provided on the title page at least five (5) working days prior to the event. If you are hearing or speech impaired, please contact this office by using the Florida Relay Services which can be reached at 1 (800) 955-8771 (TDD).

SPECIAL CONDITIONS

1) MyFloridaMarketPlace

PROPOSERS MUST BE REGISTERED IN THE STATE OF FLORIDA’S MYFLORIDAMARKETPLACE SYSTEM BY THE TIME AND DATE OF THE TECHNICAL PROPOSAL OPENING OR THEY MAY BE CONSIDERED NON-RESPONSIVE (see Special Condition 21). All prospective proposers that are not registered should go to <https://vendor.myfloridamarketplace.com/> to complete on-line registration, or call 1-866-352-3776 for assisted registration.

All payment(s) to the vendor resulting from this competitive solicitation **WILL** be subject to the MFMP Transaction Fee in accordance with the referenced Form PUR 1000 General Contract Condition #14.

The Transaction Fees imposed shall be based upon the date of issuance of the payment.

2) Florida Department of Financial Services (DFS) W-9 REQUIREMENT

The Florida Department of Financial Services (DFS) requires all vendors that do business with the state to submit an electronic Substitute Form W-9. Vendors must submit their W-9 forms electronically at <https://flvendor.myfloridacfo.com> to receive payments from the state. Contact the DFS Customer Service Desk at (850) 413-5519 or FLW9@myfloridacfo.com with any questions.

3) QUESTIONS & ANSWERS

In accordance with section 287.057(23), Florida Statutes, respondents to this solicitation or persons acting on their behalf may not contact, between the release of the solicitation and the end of the 72-hour period following the agency posting the notice of intended award, excluding Saturdays, Sundays, and state holidays, any employee or officer of the executive or legislative branch concerning any aspect of this solicitation, except in writing to the procurement officer or as provided in the solicitation documents. Violation of this provision may be grounds for rejecting a response.

Any technical questions arising from this Request for Proposal must be forwarded, in writing, to the procurement agent identified below. Questions must be received no later than the time and date reflected on the Timeline. The Department's written response to written inquiries submitted timely by proposers will be posted on the Florida Vendor Bid System at www.myflorida.com (click on "BUSINESS", click on "Doing Business with the State", under "Everything for Vendors and Customers", click on "Vendor Bid System (VBS)", click on "Search Advertisements"), under this RFP number. It is the responsibility of all potential proposers to monitor this site for any changing information prior to submitting their proposal.

WRITTEN TECHNICAL QUESTIONS should be submitted to:

FDOT Procurement Office

Attn: Greg Hill

605 Suwannee, Street, Mail Station 20, Tallahassee, Florida 32399-0450

Or Greg.Hill@dot.state.fl.us

Questions regarding administrative aspects of the proposal process should be directed to the Procurement Agent in writing at the address above.

4) ORAL INSTRUCTIONS / CHANGES TO THE REQUEST FOR PROPOSAL (ADDENDA)

No negotiations, decisions, or actions will be initiated or executed by a proposer as a result of any oral discussions with a State employee. Only those communications which are in writing from the Department will be considered as a duly authorized expression on behalf of the Department.

Notices of changes (Addenda) will be posted on the Florida Vendor Bid System at www.myflorida.com (click on "BUSINESS", click on "Doing Business with the State", under "Everything for Vendors and Customers", click on "Vendor Bid System (VBS)", click on "Search Advertisements") under this RFP number. It is the responsibility of all potential proposers to monitor this site for any changing information prior to submitting your proposal. All Addenda will be acknowledged by signature and subsequent submission of Addenda with proposal when so stated in the Addenda.

5) DIVERSITY ACHIEVEMENT

DISADVANTAGED BUSINESS ENTERPRISE (DBE) UTILIZATION

The Department, in accordance with *Title VI of the Civil Rights Act of 1964, 42 USC 2000d- 2000d-4, Title 49, Code of Federal Regulations, U.S. Department of Transportation, Subtitle A, Office of the Secretary, Part 21*, Nondiscrimination in federally-assisted programs of the Department of Transportation issued pursuant to such Act, hereby notifies all bidders that the Department will affirmatively ensure

that in any contract/agreement entered into pursuant to this advertisement, minority and disadvantaged business enterprises will be afforded the full opportunity to submit bids in response to this invitation and will not be discriminated on the basis of race, color, national origin, or sex in consideration for an award.

The Department encourages DBE firms to compete for Department contractual services projects, and also encourages non-DBE and other minority contractors to use DBE firms as sub-contractors. The Department, its contractors, suppliers, and consultants shall take all necessary and reasonable steps to ensure that disadvantaged businesses have an opportunity to compete for and perform contract work for the Department in a nondiscriminatory environment. The Department shall require its contractors, suppliers, and consultants to not discriminate on the basis of race, color, national origin, religion, gender, age, or disability in the award and performance of its contracts.

Federal law requires states to maintain a database of all firms that are participating or attempting to participate in DOT-assisted contracts. To assist the Department in this endeavor, proposers are requested to submit the **Bidder's Opportunity List** with their Price Proposal Sheet. The list should include yourself as well as any prospective sub-contractor that you contacted or who has contacted you regarding the project.

Proposers are requested to indicate their intention regarding DBE participation on the **Anticipated DBE Participation Statement** and to submit that Statement with their Price Proposal Sheet. After award of the contract resulting from this RFP, the awarded Vendor will need to complete the "Anticipated DBE Participation Statement" online through the Equal Opportunity Compliance (EOC) system within 3 business days after award of the contract. The link to access the EOC system is: <https://www3.dot.state.fl.us/EqualOpportunityCompliance>. This will assist the Department in tracking and reporting planned or estimated DBE utilization.

During the contract period, the Vendor will be required to report actual payments to DBE and MBE subcontractors through the web-based EOC system. All DBE payments must be reported whether or not you initially planned to utilize the company. In order for our race neutral DBE Program to be successful, your cooperation is imperative. If you have any questions, please contact EOOHelp@dot.state.fl.us.

Additional information about the EOC system can be found on the Equal Opportunity Office (EOO) website at <http://www.dot.state.fl.us/equalopportunityoffice/eoc.shtm>. A help manual on how to use the system will be available within the EOC application. If you have any questions or technical issues, please contact the EOO help desk at EOOHelp@dot.state.fl.us.

To request certification or to locate DBEs, call the Department of Transportation's Equal Opportunity Office at (850) 414-4747, or access an application or listing of DBEs on the Internet at www.dot.state.fl.us/equalopportunityoffice/.

6) **SCOPE OF SERVICES**

Details of the services, information and items to be furnished by the Vendor are described in Exhibit "A", Scope of Services, attached hereto and made a part hereof.

7) **INTENDED AWARD**

The Department intends to award a contract to the responsive and responsible vendor with the highest cumulative total points for the evaluation criteria specified herein (See Section 30, Proposal Evaluation). The Intended Award decision will be announced after final evaluation and totaling of scores at the Price Proposal opening specified in the Timeline (See Introduction Section 2 Timeline).

If the Department is confronted with identical pricing or scoring from multiple vendors, the Department shall determine the order of award using the following criteria, in the order of preference listed below (from highest priority to lowest priority):

1. Section 295.187(4), Florida Statutes; Veteran Business Enterprise
2. Section 287.087, Florida Statute; Drug Free Work Place

3. Section 287.057(11); Minority Business Enterprise

In the event that the application of the above referenced preferences does not resolve the identical replies, the Department shall determine the award by means of random drawing.

8) **PRE-PROPOSAL CONFERENCE**: A PRE-PROPOSAL CONFERENCE WILL NOT BE HELD.

9) **QUALIFICATIONS**

9.1 General

The Department will determine whether the Proposer is qualified to perform the services being contracted based upon their proposal demonstrating satisfactory experience and capability in the work area. The Proposer shall identify necessary experienced personnel and facilities to support the activities associated with this proposal. **Please see Exhibit "A", Scope of Services, pgs. 31 & 32 for additional qualification requirements.**

9.2 Qualifications of Key Personnel

Those individuals who will be directly involved in the project should have demonstrated experience in the areas delineated in the scope of work. Individuals whose qualifications are presented will be committed to the project for its duration unless otherwise excepted by the Department's Project Manager. Where State of Florida registration or certification is deemed appropriate, a copy of the registration or certificate should be included in the proposal package.

9.3 Authorized To Do Business in the State of Florida

In accordance with sections 607.1501, 605.0211(2)(b), and 620.9102, Florida Statutes, out-of-state corporations, out-of-state limited liability companies, and out-of-state limited partnerships must be authorized to do business in the State of Florida. Such authorization should be obtained by the proposal due date and time, but in any case, must be obtained prior to the award of the contract. For authorization, contact:

Florida Department of State
Tallahassee, Florida 32399
(850) 245-6051

9.4 Licensed to Conduct Business in the State of Florida

If the business being provided requires that individuals be licensed by the Department of Business and Professional Regulation, such licenses should be obtained by the proposal due date and time, but in any case, must be obtained prior to posting of the intended award of the contract. For licensing, contact:

Florida Department of Business and Professional Regulation
Tallahassee, Florida 32399-0797
(850) 487-1395

10) **WARRANTY/SUBSTITUTIONS**

When performance of the services requires the supply of commodities, a warranty is required on all items

provided against defective materials, workmanship, and failure to perform in accordance with required industry performance criteria, for a period of not less than ninety (90) days from the date of acceptance by the purchaser. Any deviation from this criteria must be documented in the proposal response or the above statement shall prevail. Delivery of substitute commodities requires prior written approval from the ordering location.

Replacement of all materials found defective within the warranty period shall be made without cost to the purchaser, including transportation if applicable. All fees associated with restocking cancelled orders shall be the responsibility of the vendor.

All items provided during the performance of the contract found to be poorly manufactured will not be accepted, but returned to the vendor, at their expense, for replacement. Replacement of all items found defective shall be made without cost to the Department, including transportation, if applicable. As it may be impossible for each facility to inspect all items upon arrival, a reasonable opportunity must be given to these facilities for inspection of the items, and returning those that are defective.

11) **LIABILITY INSURANCE**

The Vendor shall not commence any work until they have obtained the following types of insurance, and certificates of such insurance have been received by the Department. Nor shall the Vendor allow any subcontractor to commence work on this project until all similar insurance required of the subcontractor has been so obtained. The Vendor shall submit the required Certificates of Insurance to the **Florida Department of Transportation, Procurement Office, (Greg Hill, 605 Suwannee Street, MS 20, Tallahassee, FL 32399-0450)** within ten (10) days after the ending date of the period for posting the intended award decision.

The Vendor must carry and keep in force during the period of this contract a general liability insurance policy or policies with a company authorized to do business in the state of Florida, affording public liability insurance with combined bodily injury limits of at least \$200,000 minimum per person and \$300,000 minimum each occurrence, and property damage insurance of at least \$ 200,000 minimum each occurrence, for the services to be rendered in accordance with this contract.

With respect to any general liability insurance policy required pursuant to this Agreement, all such policies shall be issued by companies licensed to do business in the State of Florida. The Vendor shall provide to the Department certificates showing the required coverage to be in effect with endorsements showing the Department to be an additional insured prior to commencing any work under this Contract. The certificates and policies shall provide that in the event of any material change in or cancellation of the policies reflecting the required coverage, thirty days advance notice shall be given to the Department or as provided in accordance with Florida law.

The Department shall be exempt from, and in no way liable for, any sums of money which may represent a deductible in any insurance policy. The payment of such deductible shall be the sole responsibility of the Vendor or subcontractor providing such insurance. Policies that include Self Insured Retention (SIR) will not be accepted.

12) **PERFORMANCE BOND**

A Performance Bond is not required for this project.

13) **METHOD OF COMPENSATION**

For the satisfactory performance of these services, as specified in the Scope of Services, the Vendor shall be paid as described in the attached Exhibit "B", Method of Compensation.

14) CONTRACT DOCUMENT

STANDARD WRITTEN AGREEMENT

The Department's "Standard Written Agreement" is attached hereto and made a part hereof. The terms and conditions contained therein will become an integral part of the contract resulting from this solicitation. In submitting a proposal, the proposer agrees to be legally bound by these terms and conditions.

15) REVIEW OF PROPOSER'S FACILITIES & QUALIFICATIONS

After the proposal due date and prior to contract execution, the Department reserves the right to perform or have performed an on-site review of the Proposer's facilities and qualifications. This review will serve to verify data and representations submitted by the Proposer and may be used to determine whether the Proposer has an adequate, qualified, and experienced staff, and can provide overall management facilities. The review may also serve to verify whether the Proposer has financial capability adequate to meet the contract requirements.

Should the Department determine that the proposal has material misrepresentations or that the size or nature of the Proposer's facilities or the number of experienced personnel (including technical staff) are not adequate to ensure satisfactory contract performance, the Department has the right to reject the proposal.

16) PROTEST OF REQUEST FOR PROPOSAL SPECIFICATIONS

Any person who is adversely affected by the contents of this Request for Proposal must file the following with the Department of Transportation, Clerk of Agency Proceedings, Office of the General Counsel, 605 Suwannee Street, Mail Station 58, Tallahassee, Florida 32399-0450:

1. A written notice of protest within seventy-two (72) hours after the posting of the solicitation, (the notice of protest may be Faxed to 850-414-5264), and
2. A formal written protest in compliance with Section 120.57(3), Florida Statutes, within ten (10) days of the date on which the written notice of protest is filed.

Failure to file a protest within the time prescribed in section 120.57(3), Florida Statutes, or failure to post the bond or other security required by law within the time allowed for filing a bond shall constitute a waiver of proceedings under Chapter 120, Florida Statutes.

17) UNAUTHORIZED ALIENS

The employment of unauthorized aliens by any contractor is considered a violation of Section 274A(e) of the Immigration and Nationality Act. If the contractor knowingly employs unauthorized aliens, such violation shall be cause for unilateral cancellation of the contract.

18) SCRUTINIZED COMPANIES LISTS

ALL Responses, regardless of dollar value, must include a completed [Vendor Certification Regarding Scrutinized Companies Lists](#) to certify the respondent is not on either of those lists. The Form should be submitted with the Price Proposal.

A Vendor is ineligible to enter into a contract with the Department for goods or services of any amount if, at the time of entering into such contract, the Vendor is on the Scrutinized Companies that Boycott Israel List, created pursuant to Section 215.4725, Florida Statutes, or is engaged in a boycott of Israel.

Section 287.135, Florida Statutes, also prohibits companies from entering into a contract for goods or services of \$1 million or more that are on either the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector Lists which were created pursuant to s. 215.473, Florida Statutes.

If the Department determines the Vendor submitted a false certification under Section 287.135 of the Florida Statutes, the Department shall either terminate the Contract after it has given the Vendor notice and an opportunity to demonstrate the Department's determination of false certification was in error pursuant to Section 287.135 of the Florida Statutes, or maintain the Contract if the conditions of Section 287.135 of the Florida Statutes are met.

19) **RESERVATIONS**

The Department reserves the right to accept or reject any or all proposals received and reserves the right to make an award without further discussion of the proposals submitted. Therefore, the proposals should be submitted initially in the most favorable manner. It is understood that the proposal will become a part of the Department's official file, without obligation to the Department.

20) **ADDITIONAL TERMS & CONDITIONS**

No conditions may be applied to any aspect of the RFP by the proposer. Any conditions placed on any aspect of the proposal documents by the proposer may result in the proposal being rejected as a conditional proposal (see "RESPONSIVENESS OF PROPOSALS"). **DO NOT WRITE IN CHANGES ON ANY RFP SHEET.** The only recognized changes to the RFP prior to proposal opening will be a written Addenda issued by the Department.

21) **RESPONSIVENESS OF PROPOSALS**

21.1 **Responsiveness of Proposals**

Proposals will not be considered if not received by the Department **on or before** the date and time specified as the due date for submission. All proposals must be typed or printed in ink. A responsive proposal is an offer to perform the scope of services called for in this Request for Proposal in accordance with all requirements of this Request for Proposal and receiving seventy (70) points or more on the Technical Proposal. Proposals found to be non-responsive shall not be considered. Proposals may be rejected if found to be irregular or not in conformance with the requirements and instructions herein contained. A proposal may be found to be irregular or non-responsive by reasons that include, but are not limited to, failure to utilize or complete prescribed forms, conditional proposals, incomplete proposals, indefinite or ambiguous proposals, and improper and/or undated signatures. ALL determinations of responsiveness will be the responsibility of the FDOT Procurement Office.

21.2 **Multiple Proposals**

Proposals may be rejected if more than one proposal is received from a Proposer. Such duplicate interest may cause the rejection of all proposals in which such Proposer has participated. Subcontractors may appear in more than one proposal.

21.3 **Other Conditions**

Other conditions which may cause rejection of proposals include, but are not limited to, evidence of collusion among Proposers, obvious lack of experience or expertise to perform the required work, failure to perform or meet financial obligations on previous contracts, or in the event an individual, firm, partnership, or corporation is on the General Services Administration Excluded Parties List. Proposers whose proposals, past performance, or current status do not reflect the capability, integrity, or reliability to fully and in good faith perform the requirements of the Contract may be rejected as non-responsible. The Department reserves the right to determine which proposals meet the requirements of this solicitation, and which Proposers are responsive and responsible.

22) **PROPOSAL FORMAT INSTRUCTIONS**

22.1 General Information

This section contains instructions that describe the required format for the proposal. All proposals submitted shall contain two parts and be marked as follows:

PART I TECHNICAL PROPOSAL NUMBER DOT-RFP-19-9075-GH:
(One Separately Sealed Package for Technical)

PART II PRICE PROPOSAL NUMBER DOT-RFP-19-9075-GH:
(One Separately Sealed Package for Prices)

THE SEPARATELY SEALED PACKAGES MAY BE MAILED TOGETHER IN ONE ENVELOPE OR BOX.

22.2 Technical Proposal (Part I) (3 hard copies and 1 CD) (Do not include price information in Part I)

The Proposer must submit **three (3) hard copies, and one (1) CD (technical proposal uploaded)** of the technical proposal which are to be divided into the sections described below. Since the Department will expect all technical proposals to be in this format, failure of the Proposer to follow this outline may result in the rejection of the proposal. The technical proposal must be submitted in a separate sealed package marked "TECHNICAL PROPOSAL NUMBER DOT-RFP-19-9075-GH: ".

TECHNICAL PROPOSAL (CRITERIA "A", "B", "C" and "D")

A. Stability of Firm

- A-1 Provide basic company information: Company name, address, name of primary contact, telephone number, fax number, E-mail address, and company website (if available). If the firm has multiple offices, the qualification statement shall include information about the parent company and branch office separately. Identify office from which project will be managed and this office's proximity to FDOT's offices. Provide form of ownership, including state of residency or incorporation, and number of years in business. Is the offeror a sole proprietorship, partnership, corporation, Limited Liability Corporation (LLC), or other structure?
- A-2 Briefly describe the history and growth of your company(s). Provide general information about the company's personnel resources, including disciplines, numbers of trainers, locations, and staffing of offices
- A-3 Has the company been involved in any litigation in the past five (5) years? Describe your experience with litigation with clients. List any active or pending litigation and explain.
- A-4 Provide a statement of disclosure, which will allow FDOT to evaluate possible conflicts of interest. Company must provide, in their own format, a statement of all potential legal or otherwise significant conflicts of interests possibly created by the company's being considered in the selection process or by the respondent's involvement in the project. Companies must provide information as to the nature of relationship(s) with parties in such potential conflict.
- A-5 Provide name of insurance carrier, types and levels of coverage, and deductible amounts per claim.
- A-6 Has the company ever been removed from a contract or failed to complete a contract as assigned?
- A-7 Has the Company ever had a contract cancelled before the expected expiration date? If so, please explain.

B. Experience and Qualifications

Provide professional qualifications and description of experience for principal project staff in résumé format. *(At this stage, each respondent is asked for information on lead staff only, but may list qualifications and experience on more than one lead individual who are being proposed for services to Client. If the Respondent is selected, FDOT may request detailed information on the exact proposed expanded team and their relevant experience.)*

- B-1 Provide qualifications and description of experience for key management staff, including executive, and operations staff members. Additionally, provide resumes for other key persons applicable to this project. Include name and title, assignment, years of experience (minimum of 5 years), education, active/current registrations/certificates, other experiences and qualifications relevant to the proposed project.
- B-2 Provide information on the firm's experience providing Installation, Maintenance and Upgrade Services of Automatic Traffic Recorders for other states' Department of Transportation agencies and clients of similar, size, function, and complexity. Describe five (5) accounts, in order of most relevant to least relevant, which demonstrate the Vendor's capabilities to perform the scope at hand. For each account, the following information should be provided:
- a. Client or account name, location and dates during which services were performed. Indicate whether the Vendor was a prime or sub-consultant.
 - b. Description of services provided.
 - c. Information on successes achieved by your firm.
 - d. Respective client's stated satisfaction in service of your firm. In an Appendix provide any client-written letters of reference/recommendation about the firm's performance for Automatic Traffic Recorder Installation, Maintenance and Upgrade Services.
 - e. Client's contact information. (Current mailing and electronic address and phone number).

C. Statement of Suitability

Provide any information that may serve:

1. To differentiate the respondent from other firms in suitability for the project.
 2. Provide evidence of the respondent's fit to the project and/or needs of FDOT.
 3. Any special or unique qualifications for the project.
 4. Provide current and projected workloads.
 5. The proximity of office FDOT location, and any services offered by the firm that may be particularly suitable for this project.
- C-1 Provide any information that may serve to differentiate the respondent from other companies in suitability for the service, including the company's statement of apparent fit to the services described herein and the stated needs of the Department and unique qualifications the firm feels are especially relevant to the scope.
- C-2 Provide information on current and projected workloads of the company in the area and any potential impact to the requested services.
- C-3 Provide detailed information on the non-discrimination policies of the company, record of addressing public safety, social, environmental concerns; accessibility and opportunities for persons with disabilities and special needs, and special services for scope-related concerns.
- C-4 Provide information on any unique special services or reporting abilities for the requested scope of services.
- C-5 Provide information on any management techniques or methodologies offered by the company that may be particularly suitable for the required services.
- a. Program evaluation and review techniques suitable for the requested scope of services.
 - b. Information on maintenance, safety, and litter removal methods and approaches suitable for the requested scope of services.
 - c. Management and Marketing methods and approaches suitable for the requested scope of services.
 - d. Information on any electronic management information system and record management that could be provided and utilized for the project.

D. Statement of Performance

D-1 Provide information on the company's experience for clients of similar type, size, function, and complexity. Describe all (5) in the last 20 years, in order of most relevant to least relevant, which demonstrate the Firm's capabilities to perform services for FDOT. For each account, the following information must be provided:

- a. The client name, location and dates during which services were performed.
- b. Brief description of overall account.
- c. Exact services performed by your firm.
- d. The client's stated satisfaction in service of your firm. (Include letters from client, if applicable)
- e. The client's current contact information.

D-2 Describe proposed method of quality assurance for all services required under this RFP.

22.3 Price Proposal (Part II) (1 hard copy and 1 CD)

Download "Exhibit C, Price Proposal" from the Vendor Bid System (VBS) notification for this solicitation.

The **price proposal, one (1) signed hard copy and (1) electronic version uploaded to a CD in Excel format, shall be submitted in a separate sealed package marked "PRICE PROPOSAL # DOT-RFP-19-9075-GH"**. The Price Proposal information shall be submitted in the format(s) requested in the Request for Proposal.

22.4 Presenting the Proposal

The proposal shall be limited to a page size of eight and one-half by eleven inches (8½" x 11"). Foldout pages may be used, where appropriate, but should not exceed five (5) percent of the total number of pages comprising the proposal. Type size shall not be less than 10 point font. The proposals should be indexed and all pages sequentially numbered. Bindings and covers will be at the Proposer's discretion. **Proposals are limited to one hundred (100) pages or less.**

Unnecessarily elaborate special brochures, art work, expensive paper and expensive visual and other presentation aids are neither necessary nor desired.

It is recognized that existing financial reports, documents, or brochures, such as those that delineate the Proposer's general capabilities and experience, may not comply with the prescribed format. It is not the intent to have these documents reformatted and they will be acceptable in their existing form.

23) "DRUG-FREE WORK PLACE" PREFERENCE

Whenever two or more bids which are equal with respect to price, quality, and service are received, the Department shall determine the order of award first in accordance with section 295.187(4), Florida Statutes, giving preference to "Veteran Business Enterprise" then to bid responses from vendors that certify the business has implemented a drug-free workplace program in accordance with Section 287.087, Florida Statutes. The "Drug-Free Workplace Program Certification" must be completed and submitted with the bid response to be eligible for this preference.

24) COPYRIGHTED MATERIAL

Copyrighted material will be accepted as part of a technical proposal only if accompanied by a waiver that will allow the Department to make paper and electronic copies necessary for the use of Department staff and agents. It is noted that copyrighted material is not exempt from the Public Records Law, Chapter 119, Florida Statutes. Therefore, such material will be subject to viewing by the public, but copies of the material will not be provided to the public.

25) ATTACHMENT TO RFP SUBMITTAL - CONFIDENTIAL MATERIAL

The Proposer must include any materials it asserts to be exempted from public disclosure under Chapter 119, Florida Statutes, in a separate bound document labeled "Attachment to Request for Proposals, Number DOT- (RFP #) - Confidential Material". The Proposer must identify the specific Statute that authorizes exemption from the Public Records Law. Any claim of confidentiality on materials the Proposer asserts to be exempt from public disclosure and placed elsewhere in the proposal will be considered waived by the Proposer upon submission, effective after opening.

26) COSTS INCURRED IN RESPONDING

This Request for Proposal does not commit the Department or any other public agency to pay any costs incurred by an individual firm, partnership, or corporation in the submission of a proposal or to make necessary studies or designs for the preparation thereof, nor to procure or contract for any articles or services.

27) MAIL OR DELIVER PROPOSAL TO: (DO NOT FAX OR SEND BY E-MAIL)

**FDOT Procurement Office
605 Suwannee Street, MS 20
Tallahassee, Florida 32399-0450
Attn: Greg Hill - 9075**

It is the proposer's responsibility to assure that the proposal (Technical and Price proposal) is delivered to the proper place **on or before** the Proposal Due date and time (See Introduction Section 2 Timeline). Proposals which for any reason are not so delivered will not be considered.

By submitting a proposal, the Proposer represents that it understands and accepts the terms and conditions to be met and the character, quality and scope of services to be provided.

All proposals and associated forms shall be signed and dated in ink by a duly authorized representative of the Proposer.

Each Proposer shall fully acquaint itself with the conditions relating to the performance of the services under the conditions of this Request for Proposal. This may require an on-site observation.

28) MODIFICATIONS, RESUBMITTAL AND WITHDRAWAL

Proposers may modify submitted proposals at any time prior to the proposal due date. Requests for modification of a submitted proposal shall be in writing and must be signed by an authorized signatory of the proposer. Upon receipt and acceptance of such a request, the entire proposal will be returned to the proposer and not considered unless resubmitted by the due date and time. Proposers may also send a change in a sealed envelope to be opened at the same time as the proposal. The RFP number, due date and time should appear on the envelope of the modified proposal.

29) PROPOSAL OPENING

All proposal openings are open to the public. Technical Proposals will be opened by the Department at the date, time and location in the Timeline (See Introduction Section 2 Timeline). Price Proposals, which have a corresponding responsive Technical Proposal, will be opened by the Department at the date, time and location in the Timeline (See Introduction Section 2 Timeline).

30) PROPOSAL EVALUATION

30.1 Evaluation Process:

A Technical Review Committee (TRC) will be established to review and evaluate each proposal submitted in response to this Request for Proposal (RFP). The TRC will be composed of at least three (3) persons who collectively have experience and knowledge in the program areas and service requirements for which the commodities and/or contractual services are sought.

The Procurement Office will distribute to each member of the TRC a copy of each technical proposal. The TRC members will independently evaluate the proposals on the criteria and point system established in the section below entitled "Criteria for Evaluation" in order to assure that proposals are uniformly rated. Due to the complexity of certain procurements, the TRC members are authorized to consult with subject matter experts for the purpose of gathering information, if needed. The independent evaluations will be sent to the Procurement Office and averaged for each vendor.

During the process of evaluation, the Procurement Office will conduct examinations of proposals for responsiveness to requirements of the RFP. Those determined to be non-responsive will be automatically rejected.

30.2 Oral Presentations THERE ARE NO ORAL PRESENTATIONS FOR THIS PROJECT.

30.3 Price Proposal

The Proposer shall complete the Price Proposal form and submit as part of the Price Proposal Package. Any proposal in which this form is not used or in which the form is improperly executed may be considered non-responsive and the proposal will be subject to rejection. The vendor's completed form shall become a part of the contract upon award of the contract.

The Procurement Office will open Price Proposals in accordance with Section 29, Proposal Openings. The Procurement Office and/or the Project Manager/TRC will review and evaluate the price proposals and prepare a summary of its price evaluation. The Procurement Office and/or the Project Manager/TRC will assign points based on price evaluation criteria identified herein.

30.4 Criteria for Evaluation

Proposals will be evaluated and graded in accordance with the criteria detailed below.

a. Technical Proposal: **Technical Evaluation – 75% of Overall Evaluation**

The evaluation of the technical proposals will result in a Technical Merit score, which will be “blind” to any (separately-sealed) price proposal information. The total technical score will comprise 75% of the total score of the evaluation. No information should appear in the technical proposals pertaining to the price proposal. Any respondent which includes price information in the technical proposal may be disqualified from further consideration.

- Criteria for Technical Merit include:
- 25 % - Stability of Firm
 - 25 % - Experience and Qualifications
 - 15 % - Statement of Suitability
 - 10 % - Statement of Performance

Technical Score Adjustment: Scores for the proposals will be adjusted to maintain the (75% / 25%) balance between the technical and price phases. The proposal with the highest technical score will be adjusted up to 75 points. All other proposals will receive a prorated technical score calculated using the following formula:

$$A/B \times 75 = C$$

Where: A = Technical score of the proposal being adjusted.

B = Original technical score of the highest-ranking technical proposal.
 C = Assigned points for proposal being adjusted.

c. Price Proposal (25 Points)

Price evaluation is the process of examining a prospective price without evaluation of the separate cost elements and proposed profit of the potential provider. Price analysis is conducted through the comparison of price quotations submitted.

Price Score Adjustment: The proposal with the lowest overall total price will be awarded 25 points. All other price proposals deemed to be acceptable will receive a prorated score calculated using the following formula:

$$L/R \times 25 = Z$$

Where: R = Total figure of the proposal being ranked
 L = Total figure of the proposal with lowest price
 Z = Assigned points

An unrealistically low proposed price may be grounds for eliminating a proposal from competition either on the basis that the Offeror does not understand the requirement, or the Offeror has made an unrealistic proposal.

31) POSTING OF INTENDED DECISION/AWARD

31.1 The Department's decision will be posted on the Florida Vendor Bid System, at www.myflorida.com, (click on "BUSINESS", click on "Doing Business with the State", under "Everything for Vendors and Customers", click on "Vendor Bid System (VBS)", on date and time in the Timeline, and will remain posted for a period of seventy-two (72) hours. Any proposer who is adversely affected by the Department's recommended award or intended decision must file the following with the Department of Transportation, Clerk of Agency Proceedings, Office of the General Counsel, 605 Suwannee Street, Mail Station 58, Tallahassee, Florida 32399-0450:

1. A written notice of protest within seventy-two (72) hours after posting of the Intended Award, (the notice of protest may be Faxed to 850-414-5264), and
2. A formal written protest and protest bond in compliance with Section 120.57(3), Florida Statutes, within ten (10) days of the date on which the written notice of protest is filed. At the time of filing the formal written protest, a bond (a cashier's check or money order may be accepted) payable to the Department must also be submitted in an amount equal to one percent (1%) of the estimated contract amount based on the contract price submitted by the protestor.

Failure to file a protest within the time prescribed in Section 120.57(3), Florida Statutes, or failure to post the bond or other security required by law within the time allowed for filing a bond shall constitute a waiver of proceedings under Chapter 120, Florida Statutes.

31.2 - Inability to Post:

If the Department is unable to post as defined above, the Department will notify all proposers by electronic notification on the Florida Vendor Bid System (see special condition 31.1, above) or by mail, fax, and/or telephone. The Department will provide notification of any future posting in a timely manner.

31.3 - Request to Withdraw Proposal:

Requests for withdrawal will be considered if received by the Department, in writing, within seventy-two (72) hours after the price proposal opening time and date. Requests received in accordance with this provision will be granted by the Department upon proof of the impossibility to perform based upon obvious error on the part of the proposer.

32) AWARD OF THE CONTRACT

Services will be authorized to begin when the Vendor receives the following document(s), as appropriate, indicating the encumbrance of funds and award of the contract:

- a) A Standard Written Agreement executed by both parties, and authorization to perform work via Task Work Orders (TWO's), or a written Notice to Proceed, issued by the Project Manager.

33) RENEWAL

Upon mutual agreement, the Department and the Contract Vendor may renew the Contract for a period that may not exceed 3 years or the term of the original contract, whichever is longer. The renewal must be in writing and signed by both parties, and is subject to the same terms and conditions set forth in the initial contract and any written amendments signed by the parties. Any renewal shall specify the renewal price, as set forth in the solicitation response except that an agency may negotiate lower pricing. Renewal is contingent upon satisfactory performance evaluations and subject to the availability of funds.

34) ATTACHED FORMS & APPENDICES

Price Proposal Form
 Drug-Free Workplace Program Certification (Form 375-040-18)
 DBE Participation Statement
 Bid Opportunity List
 Vendor Certification Regarding Scrutinized Companies Lists (Form 375-030-60)
 Appendix 1 – Terms for Federal Aid Contracts
 Appendix A – CCS Listing
 Appendix B – MSDS
 Appendix C – CCS Final Inspection
 Appendix D – Direction of Travel

35) TERMS AND CONDITIONS

35.1 General Contract Conditions (PUR 1000)

The State of Florida's General Contract Conditions are outlined in form PUR 1000, which is a downloadable document incorporated into this RFP by reference. Any terms and conditions set forth in this RFP document take precedence over the PUR 1000 form where applicable.

<http://www.dms.myflorida.com/content/download/2933/11777/1000.pdf>

The following paragraphs do not apply to this solicitation:

Paragraph 31, Dispute Resolution - PUR 1000

Paragraph 40, PRIDE – PUR 1000, when federal funds are utilized.

35.2 General Instructions to Respondents (PUR 1001)

The State of Florida's General Instructions to Respondents are outlined in form PUR 1001, which is a downloadable document incorporated into this RFP by reference. Any terms and conditions set forth in this RFP document take precedence over the PUR 1001 form where applicable.

<http://www.dms.myflorida.com/content/download/2934/11780/1001.pdf>

The following paragraphs do not apply to this solicitation:

Paragraph 3, Electronic Submission – PUR 1001

Paragraph 4, Terms and Conditions – PUR 1001

Paragraph 5, Questions – PUR 1001

35.3 MFMP Purchase Order Terms and Conditions

All MFMP Purchase Order contracts resulting from this solicitation will include the terms and conditions of this solicitation and the State of Florida's standardized Purchase Order Terms and Conditions, which can be found at the Department of Management Services website at the following link:

http://www.dms.myflorida.com/content/download/117735/646919/Purchase_Order_Terms_Sept_1,_2015_.pdf

Section 8(B), PRIDE, is not applicable when using federal funds.

36) ORDER OF PRECEDENCE

All responses are subject to the terms and conditions of this solicitation, which, in case of conflict, shall have the following order of precedence listed:

- Special Conditions
- Scope of Services
- Price Proposal
- Standard Written Agreement
- Appendix I (Terms for Federal Aid Contracts)
- Instructions to Respondents (PUR 1001)
- General Conditions (PUR 1000)
- Introduction Section

37) LIQUIDATED DAMAGES

The Vendor acknowledges that failure to complete the services by the completion date designated on the contract document or Task Work Order may cause the Department to incur damages that, at present are, and upon the occurrence of the failure to timely complete the services may be, difficult to determine. Moreover, the Parties wish to avoid lengthy and expensive litigation relating to failure to complete the services on time. Therefore, in the event the Vendor fails to complete the authorized services by the completion date designated on the contract document, the Department shall exercise the remedy of liquidated damages against the Vendor, in the amount of \$100.00 per day for each calendar day after the designated completion date that the Vendor fails to complete the services. The Parties agree that if the Department allows the Vendor to continue and finish the services, or any part of it, after the expiration of the time allowed, that the Department's action shall in no way act as a waiver on the part of the Department of the liquidated damages due under this contract. The Vendor shall pay said sum to the Department not as a penalty, but as liquidated damages.

RFP CHECKLIST

(DOES NOT NEED TO BE RETURNED WITH YOUR PROPOSAL)

This Checklist is provided as a guideline, only, to assist Proposers in the preparation of their RFP response. Included are some important matters that the proposer should check. This checklist is just a guideline, and is not intended to include all matters required by the RFP. Proposers are responsible to read and comply with the RFP in its entirety.

Exhibit “A”
Scope of Services
Traffic Monitoring Site (TMS) Installation and Maintenance Services

1. INTRODUCTION

Background and Purpose

The Florida Department of Transportation (FDOT) is seeking proposals from Vendors interested in providing 1) motorized Traffic Monitoring Site (TMS) Installation and Maintenance Services, and 2) non-motorized TMS installation. This Request for Proposal (RFP) seeks to identify qualified Vendors to provide the above-mentioned services throughout the State of Florida. The Department anticipates that this solicitation will be a one-step process whereby the Department will select the most qualified Vendor based on the information received with this solicitation. All respondents to this RFP are subject to instructions communicated in this document and should completely review the entire RFP and follow instructions carefully. FDOT reserves the right to modify contract provisions or include additional provisions, not addressed herein. FDOT reserves the right to reject any or all Proposals.

General Project Information

FDOT's Traffic Monitoring Program currently has 317 active Continuous Count Station (CCS) locations; some of which require two entirely separate all-inclusive traffic monitoring equipment systems due to the number of lanes and the median width between directions of travel. There are currently two (2) continuously operating Non-Motorized Count Stations (NCS) for collecting bicycle and pedestrian data. There are also currently 41 continuously operating Weigh-In-Motion (WIM) Stations for collecting truck volumes, speeds, and weight data.

These CCS are located statewide on all functional classes of roads, or for NCS, along bicycle and pedestrian pathways. These sites collect continuous traffic count data that are key elements of FDOT's Annual Average Daily Traffic (AADT) estimate development program. See the CCS Listing attachment (Appendix A) for site location information. Perspective Vendors should expect that the number of traffic count sites will vary over the course of the contract. Short-Term Count Stations (SCS) are sites that have sensors installed in the roadway, portable counters connected and collect data over short duration periods. The SCS sites are maintained by the Districts under other contracts and are not a consideration for this RFP. The basic components of these stations are in-road traffic sensors (inductive loops and piezoelectric sensors), sensor lead-in cables, traffic count equipment cabinets, non-intrusive sensors, poles (aluminum), junction (pull) boxes, solar panels, terminal blocks, grounding material, surge protection, batteries, wire and conduit as necessary to connect the system. Currently each CCS is equipped with either a PEEK ADR 3000, PEEK ADR WIM, Diamond Phoenix II, HT-EMU3 AV8 CLASS, HT-EMU3 WIM or IRD iSINC Lite counter. Infrared overhead and side post pedestrian sensors (for non-motorized applications), a camera, modem and communications services round out the CCS equipment options.

Selected identified CCS sites throughout the state are Real-time Polling sites which are on the Emergency Evacuation routes, and have loops imbedded in the roadway shoulder to capture traffic flow when Emergency Shoulder Use (ESU) is ordered. FDOT is using an FDOT developed interface to communicate and download data from these sites at regular intervals when an evacuation order is issued.

There are CCS sites that have WIM sensors in multiple lanes that are currently collecting WIM data. The basic components of these stations are in-road traffic sensors consisting of either two Kistler piezoelectric sensors with one 6x6 loop in a piezo-loop-piezo configuration or a bending plate array that also uses inductive loops for presence sensing.

Key equipment components currently in use at FDOT TMS sites are found below.

2. PROJECT SCOPE & REQUIREMENTS

This RFP is a request to receive qualification and price proposals from Vendors interested in assisting the Department in a TMS maintenance and construction contract. The response will include the installation, repair, upgrade and maintenance of TMS equipment and sites, and the review and analysis of traffic data collected at the sites as for troubleshooting and performance validation. Because the Department must be able to maintain operation and continuity of TMS equipment and sites, this requires that the resulting contract will ensure that the Department's TMS equipment and sites are upgraded continuously and/or repaired as required.

It is anticipated that the following requirements will be expected, these requirements represent the most current information. The anticipated project requirements include but are not limited to:

a. Technical Expertise

FDOT is seeking a Vendor with the technical expertise to install, maintain and operate CCS/WIM sites in accordance with the standards and specifications of this contract to collect the desired traffic data as referenced in the Vehicle Classification Monitoring and Truck Weight Monitoring chapters of FHWA's Traffic Monitoring Guide (TMG), as well as in accordance with FDOT Specification 695 and the Traffic Monitoring Handbook. The Vendor FDOT is seeking shall have sufficient knowledge of the traffic data collection industry and operational flexibility to research and test new technologies when approved by FDOT, and work toward implementing those technologies that will improve FDOT's traffic collection program.

b. Vendor Provided Materials, Labor and Equipment

The Vendor shall provide all materials, services and equipment (including tools and vehicles), except for the counters; which the Vendor will get from FDOT. This includes piezo-electric sensors – Class II and Kistler quartz WIM, Bending Plates, traffic cabinets, poles, solar panels, batteries, lightning arrestors/surge protection, conduit, modems, wire, sealant material, etc. All equipment and materials, installed as a part of this contract, are considered to be permanently installed and become the property of FDOT. The Vendor will be responsible for warranty and contract maintenance for all equipment per the terms of this document.

All equipment and material used in conjunction with this contract must comply with the FDOT Standard Specifications for Road and Bridge Construction and its supplements (current edition). **The FDOT Project Manager will decide whether submitted products are satisfactory for the intended use.** Product approval may be issued for a single work order, a single site, a period, or the contract, at the discretion of the FDOT Project Manager. Materials not appearing on the FDOT Approved Products List (APL) must be submitted to the FDOT thru the appropriate APL process for testing and approval prior to use, and may require individual testing for each batch submitted. Material Safety Data Sheets (MSDS, Appendix B) are a requirement for

materials used in this contract. Prior to commencement of work, the successful Vendor shall provide the FDOT Project Manager with these. During the life of the contract, MSDS shall be provided when new materials are used, changes occur in existing materials, or at the request of the FDOT Project Manager.

All work shall be completed in a neat and workmanship-like manner, and to the standards of the industry. The Vendor shall procure all manuals and regulations quoted in this contract.

All vehicles shall have a current inspection and registration from the state where the vehicle is registered. Vehicles shall be insured in accordance with the state's requirements. Vendor's equipment and operators shall comply with all applicable Department of Motor Vehicles, State, and Federal regulations, conditions, and operations of said vehicles. The name of the Vendor shall be displayed on both sides of all work vehicles while on state right-of-way.

c. Warranty

Each item installed shall have a warranty of at least one (1) year. Said warranty will begin upon final acceptance of the work performed under each individual Task Work Order (TWO) by FDOT. The manufacturer's product warranty shall be transferred to FDOT upon acceptance, but shall in no way limit the warranty prescribed herein.

Any equipment or labor found to be defective prior to the final acceptance shall be replaced or corrected at the Vendor's expense.

The Vendor will be responsible for replacement of equipment that malfunctions due to factory defect or poor workmanship for a period of one (1) year. The Vendor will provide mobilization and Maintenance of Traffic (MOT) for this work at no charge to FDOT.

d. Inventory

The Vendor will be responsible for maintaining an inventory of all equipment owned by FDOT (equipment issued with FDOT property numbers, modems, sensors, cabinets, batteries and solar panels) that is in their possession, and replacement if lost. This includes equipment stored at the Vendor's warehouse or in the Vendor's technician and/or construction crew vehicles.

e. Work Zone Safety

The Vendor shall provide for work zone safety and traffic lane closures in accordance with the most current version of the Manual on Uniform Traffic Control Devices (MUTCD). All work zone safety equipment, including signs, shall be the responsibility of the Vendor to provide. Equipment/personnel that may be required for work zone safety includes, but is not limited to, crash cushions, flag personnel, vehicle-warning lights, signs, traffic cones, traffic barrels, and personal safety equipment.

As a minimum, all personnel working in or along the side of the road shall wear adequate clothing to protect the skin against sunburn and insect bites, and to project a professional image to the motoring public. This includes the wearing of shirts with sleeves (at least short sleeve in length), long pants and socks. They shall also wear an approved safety vest at all times, hard hats when a bucket truck is in use, steel toe shoes when saws,

trenchers, etc. are in operation. All safety equipment shall meet FDOT specifications contained in MUTCD and FDOT Standard Specifications. All contract personnel who work in the field shall be trained in safety and shall be certified as a flag person according to the FDOT Flaggers training. The Vendor must have four (4) Traffic Certified staff with one on site the entire time a lane closure is in effect. American Traffic Safety Services Association (ATSSA) or National Safety Council certifications are the only accepted training recognized by FDOT. Certification cards for all field contract personnel shall be carried on their persons during the conduct of contract work. The FDOT Project Manager will require attendance of all field contract personnel to have Flagger training as a prerequisite for working on the project.

Prior to dispatching a work crew to a location at which lane closures will be required, a Vendor employee knowledgeable in the requirements of the MUTCD will develop a work zone setup plan for each proposed work location and submit to the appropriate District staff.

Work shall be performed in a timely manner to ensure as little disruption to the traffic flow as possible. The work location and schedule will require approval from the FDOT Project Manager one week prior to planned work activities. The Vendor must be able to close lanes, complete sensor installation and open all lanes to traffic within 8-hours for a 6-lane section of roadway. The Vendor must be able to complete lane closure, sensor installation and open all lanes to traffic in a 2-lane section within 3-hours. The Vendor shall coordinate with the appropriate District Staff and or other FDOT offices to ensure meeting all District-specific safety requirements. The FDOT Project Manager or the District Office may provide other personnel and agencies (City Engineers, Utilities, etc.) that the Vendor shall also be responsible for coordinating with regarding contract work and lane closure. The FDOT Project Manager will assist by providing information regarding initial points of contact in each District. The Vendor shall keep an electronic record of FDOT and other agency personnel with whom they coordinate work. This listing shall be submitted to the FDOT Project Manager upon request.

The Vendor shall be responsible for contacting Sunshine Florida 811 and ensuring that buried utilities are marked prior to beginning work at a location that may require digging or trenching. The Vendor shall also be responsible for contacting appropriate local FDOT offices or other FDOT Vendors for the marking of FDOT utilities and acquiring appropriate permits as required.

At selected locations, the Vendor shall coordinate and schedule the use of Florida Highway Patrol Officers or local police support in the work zone as an additional safety measure. Police support will be paid as a distinct line item. At other locations, FDOT may also require police support. Vendor may request approval for police support at other locations, but must receive prior approval from the FDOT Project Manager in order for payment to be made for these services.

f. Contract Personnel Requirement

The contract will be awarded to one qualified Vendor, with **no sub-Vendors, except for police support and directional boring services only**. A detailed staffing plan will be required. Vendors shall detail the organizational structure for the group they propose to work on this project. While the Vendor is responsible for setting personnel staffing levels to meet the requirements of this contract, the plan shall include information on

the back-up for key positions so that absences such as vacation, sick time, etc. are accounted for without degradation to the mission. While this list should not be considered complete, examples of some key functions, key personnel and sub-tasks that should be included in the Vendor's plan are:

- a. Program Management / Project Manager – Provide program direction and coordination. This is the key contact between FDOT management and the contracted program. Accessibility (on-call access) to contract Program Management staff is key to overall program success. This position shall ensure all program coordination and reporting requirements are met, and all staff are efficiently hired, trained and terminated, if needed.
- b. Technical Expertise – Provide guidance and training to staff on technical issues, review technical work such as response to maintenance services regarding electronics problems and failures. Coordinate and resolve problems with equipment suppliers. Conduct research into new technologies and materials and advise FDOT regarding implementation issues.
- c. Construction/Schedule Management – Project Manager or Supervisor. Prepares work order estimates and coordinate task work orders with the FDOT Project Manager. Schedule daily work. Review pre-construction inspection notes, inspection results and traffic data, confer with FDOT Project Manager and ensure installation/maintenance crews are aware of work requirements for each site. Coordinate schedules, lanes closures etc. with local FDOT, other government offices, utility marking services, police, etc. This includes timesheet/activity records for all field personnel working on TWOs.
- d. Sensor Maintenance and Installation – Repair and/or replace all field components of a count site or WIM site in accordance with FDOT Specifications.
- e. Quality Control/Assurance – QC/QA Supervisor. Even though FDOT does expect to have inspection staff available for this project, this is a key to Vendor success. Ensure contract specifications are followed in all areas, but particularly for field maintenance, installation and technical repair operations. Ensure procedures manual is updated as required by the contract and FDOT Project Manager requests and the FDOT Project Manager has the most current version.
- f. Technical Service Support – Field Supervisor. Respond to operational trouble calls for electronics or communications equipment. Troubleshoot, install and` repair electronics and communications equipment. Inspects sensors, document findings and recommend needed repairs. Perform annual calibration checks and pre/post maintenance inspections. Mark buried cables and remove equipment from stations when/where outside construction requires.
- g. Traffic Control Technician – Develop the traffic control plans, submits drawings and paperwork for approval. Supervises the installation of approved traffic control, ensuring that all signs, cones, barrels etc. are in the appropriate locations and that all MUTCD and FDOT specifications, procedures and

guidelines are followed. Certified in Traffic Control and is on site anytime a lane or shoulder is closed to traffic. Responsible for any updates or changes to the MUTCD or FDOT Specifications and guidelines and brings the Vendor into compliance within 30 days. Must be certified by ATSSA or National Safety Council in the development of traffic control plans and the installation of traffic control devices.

- h. Administrative Support (**NON-BILLABLE**) – Maintain files and communicate with the FDOT Project Manager. Ensure paperwork and documentation is submitted. Prepare and track invoices.
- i. Training - All contract personnel shall be knowledgeable in the requirements of the contract pertinent to their work, and shall have sufficient skill and experience to properly perform the work assigned to them. At least one full-time staff member shall be knowledgeable in the electronic and telecommunications requirements of the contract. The Vendor shall provide a list of personnel along with their job duties and qualifications to the FDOT Project Manager at the beginning of each month. The list shall detail all personnel working on this contract. Any changes in duties or additions of new personnel must be coordinated with the FDOT Project Manager. The Vendor shall certify that all personnel are trained in accordance with the training program established for this contract and are able to perform the requirements of the contract. If the quality of work by any individual fails to meet the standards required by this contract, upon notification by the FDOT Project Manager, the Vendor shall take appropriate action to retrain or remove that individual. The FDOT Project Manager, Engineers or inspection staff may request that individuals without the appropriate skills be removed from tasks that are beyond their skill levels.

The Vendor shall hold a monthly meeting (**NON-BILLABLE**) with all current personnel for refresher training, to discuss safety and/or to discuss on-going issues. The FDOT Project Manager will provide topics for inclusion on the agenda at times. An agenda with notes from each meeting shall be submitted to the FDOT Project Manager as part of the monthly schedule.

As a minimum, the following standards shall be met:

- a. CCS Training
The CCS supplier's certified/qualified trainer shall train all employees responsible for the setup, troubleshooting or repair of CCS equipment. Training shall consist of factory (supplier) training and hands-on field training.
- b. Road Sensor Installation Training
The Vendor shall conduct training for all employees that details the operational characteristics of the vehicle sensing equipment proposed to use. Training shall also cover sensor installation and maintenance procedures. Sensor installers and repair technicians need to be certified by the manufacturer. Certification shall be documented and supplied to the FDOT Project Manager.

c. New Employee

New employees shall receive the same live training that original employees received. Some consolidation of training will be allowed in the interest of efficiency. However, crew leaders shall always be trained personnel. Untrained personnel (due to consolidation of training for efficiency) shall not work with a crew leader with less than 6 months experience as a crew leader on a similar project. No more than one untrained person shall be assigned to a crew leader at a time.

d. Administration (**NON-BILLABLE**)

The FDOT Project Manager, and his/her designated representative, shall be invited to attend all training sessions. Detailed training plans shall be submitted to the FDOT Project Manager for comment prior to commencement of training. Training shall be conducted at least annually as refresher training, if not required sooner for new employees. The Vendor shall provide a list of all employees who attended each training session and the name and qualifications of the instructor to the FDOT Project Manager.

e. Procedures Manual

The Vendor shall provide to the FDOT Project Manager three (3) copies of its detailed work procedures manual. This manual shall include the step-by-step instructions for Repair Technicians, including equipment testing, Service Call procedures, installation of equipment, replacement of components, and all aspects of the Road Crew related work. Detailed electrical schematics of all cabinet wiring including grounding bonds and component placement within the cabinet shall be a part of the manual. Contract personnel and work crews shall have this manual available at the work site and shall be familiar with its contents. The manual shall be a working document and shall be used as a reference guide while on site. Shortcomings or inaccuracies found in the manual by Vendor or FDOT personnel shall be reported for appropriate correction and update of the manual. The Vendor shall provide updated copies of the manual to the FDOT Project Manager quarterly or as requested by the FDOT Project Manager for update of major changes. Updates shall be version controlled to enable immediate identification of the latest version.

f. Special Requirements

1. No person shall enter a work zone without training, permits and authorization. All **FDOT Safety Regulations** (<https://www.fdot.gov/roadway/TTC/Default.shtm>) shall be followed. All documentation related to the entry in a confined space or work zone shall be provided to the FDOT Project Manager with all post-construction related documentation prior to the commencement of work.
2. One member of each crew shall hold current certification in basic first aid and Cardio-Pulmonary Resuscitation (CPR). Documentation shall be provided upon request to the FDOT Project Manager.

3. One member of each crew shall hold current certification in Traffic Control. Documentation shall be provided upon request to the FDOT Project Manager. Certification must be on person when lane closure is in place.
4. When required by FDOT or general job responsibility, contract employees need to be appropriately trained in personal safety. First Aid, Lock-Out/Tag-Out, Fall Protection, and Confined Space awareness training will be the responsibility of the Vendor. The FDOT Project Manager shall be made aware of those employees having had training in these areas upon request.

g. Workmanship Sample

The FDOT Project Manager may require personnel performing key tasks related to system performance such as soldering, low voltage electrical wiring, splicing and troubleshooting to perform those tasks in the presence of FDOT inspector for verification of workmanship abilities. The FDOT Project Manager will design the work sample and inspect the quality of work performed as the assigned task is carried out. The tasks will be completed at a location selected by the FDOT Project Manager. The individual performing the tasks will supply all tools and components to complete the task. The final product will be evaluated and the FDOT Project Manager will decide if the technician is qualified to perform the level of skilled work evaluated or whether the individual requires additional training.

h. Material/Tool Specifications

A comprehensive list of all materials and source suppliers will be maintained. All components and materials list shall be updated when a new approved item is added. All tools, including items such as hand drills, stirring paddles, grinders, cleaning chemicals, etc. will be listed by part number, size, type and the function of the device. The detailed material/tool supply check sheet for all tasks to include precise component identification will be incorporated into the "Procedures Manual Handbook". Items deemed unacceptable by the FDOT Project Manager because of performance issues will be replaced/upgraded at the Vendor expense.

g. Vehicle Classification Table

The FDOT Project Manager must approve any vehicle classification tables used in this contract. In the future, use of any other classification table will require the FDOT Project Manager's approval before it may be used. To request a change in the table, the Vendor shall provide the FDOT Project Manager with a description of the request change, justification and a printed report showing the proposed classification table. Each approved classification table shall have a distinctive name that includes the month and year of approval for contract use. The FDOT Project Manager can require an update to the classification table at any time.

Service Call Procedures

The Vendor shall have 5 calendar days to investigate, make site visits, make repairs and respond back to FDOT after notification/receipt of a service call. The response back to FDOT shall include a date and time of site visits, technician's name and a summary of the nature of the problem found and action taken. If the immediate action taken does not resolve the problem and additional time is needed, the Vendor shall provide a detailed quote detailing how the problem will be resolved. The FDOT Project Manager will have the final approval authority for the problem resolution plan. Digital photos shall be submitted to the FDOT Project Manager with the service call response if failed sensors or FDOT road maintenance are found or to back up the service call response. If the result of the service call site visit is that sensors require replacement, the Vendor shall notify the FDOT Project Manager, who may arrange for verification of the requirement. The FDOT Project Manager will contact the Vendor with repair/replace scheduling instructions. The sensor(s) shall then be scheduled for replacement as per issued Task Work Order (TWO).

If the findings of a service call indicate that FDOT road maintenance is the cause for the data problem, i.e. the roadway has been recently paved or sensors destroyed by milling, the FDOT Project Manager shall be immediately notified.

Sensor Replacement

A majority of road installation work required under this contract will be the replacement of individual sensors as they fail and the replacement of entire lanes of sensors destroyed by FDOT's road maintenance program.

Upon request the Vendor shall submit:

- a. A completed FDOT site inspection form (See Appendix C).
- b. An estimate of repairs based on the inspection form.

All sensors replaced by the Vendor shall have a one (1) year Vendor's warranty, which will begin upon acceptance of the installation work by the FDOT Project Manager. Any replaced sensor, which fails within the one (1) years period after acceptance due to installation, shall be replaced by the Vendor at Vendor's expense, to include mobilization and MOT. The same standards for failure will be used for Vendor installed sensors as are used to determine if existing FDOT sensors require replacement. Piezos that fail to perform properly or degrade during the first year shall be evaluated to determine the mode of failure. The FDOT Project Manager reserves the right to make the final decision whether the piezo has degraded. The FDOT Project Manager may request a lane closure and participate in the removal and evaluation of any sensor to include FDOT developed tests of the sensor. Quality workmanship is key to the longevity of sensors. Sensors installed with poor workmanship may initially pass sensor reading tests; however, will be unacceptable to the FDOT Project Manager. The FDOT Project Manager may require replacement of such sensors or allow the continued use with a longer-term warranty from the Vendor. A post construction inspection shall also be performed on all warranty work completed and sent to the FDOT Project Manager within the specified period.

Work Schedules and Work Control Procedures

All TMS maintenance work shall be pre-approved by the FDOT Project Manager prior to the Vendor starting work at a location. The Vendor's approach and work plan shall include control procedures to ensure that approval is received prior to commencement of work, and that only required work is recommended. Features that shall be included with suggested guidelines:

a) Initial Work Schedule

The Vendor shall provide the FDOT Project Manager with an initial work schedule that indicates when all initial site visits and installation of contract count equipment, if an equipment change is being made, will be complete. It is FDOT's preference that TMSs remain continuously operating, and that as little disruption to traffic data available occurs during the transition process to a new contract.

b) TMS Preconstruction Inspection.

After a review of FDOT road maintenance plans, the FDOT Project Manager will provide the Vendor with CCS locations where sensor maintenance work may be appropriate. The FDOT Project Manager may provide a priority of work to be performed at any time during this process. The FDOT Project Manager will require a preconstruction inspection of the CCS and roadway before maintenance construction work can begin. The inspection shall include a thorough test of all sensors and other CCS site components. A detailed FDOT Inspection form, submitted electronically containing sensor test results, pavement condition, digital photographs and recommendations for repairs shall be submitted to the FDOT Project Manager. All digital photographs submitted for this contract shall be time and date stamped.

c) Task Work Order (TWO)

A written task work order will be issued by the FDOT Project Manager to initiate any and all work to be performed under this contract (see sample, Attachment -1). Such TWOs will specify the SCS or CCS to be serviced, the service to be performed, and the estimated costs to be incurred. Typically, a separate TWO will be issued for each site to be serviced. The exception to this will be for "site troubleshooting/technician" work or for work requiring similar, repetitive operations. A single TWO may be issued to utilize bucket truck operations at multiple locations. Determination of the number and location of sites to be included in any multi-site TWO will be by agreement between the Vendor and the FDOT Project Manager. Sites that do not download the previous day's data may require a site visit by an electronics technician to determine the cause of the problem. The repairs are performed at the cabinet, solar power pole or occasionally one of the pull boxes where wire splices are located. Typical repairs are of short duration and may include, but are not limited to modem, voltage regulator, battery, solar panel, lightning rod and electronics replacement or repair, checking wiring connections, performing splices, recording readings from the various electronic devices, retrofitting sites with equipment upgrades such as lightning suppression, wireless modem installations, or other work of a similar nature. In these TWOs, multiple sites will be "clustered" so that the

anticipated work can be accomplished within one workweek. This workweek may exceed 40 hours without prior approval of the FDOT Project Manager if the negotiated standard hourly rate is not affected. Additional charges such as overtime are not permitted.

Within seven (7) calendar days of receipt of a written TWO, the Vendor shall acknowledge its receipt, acceptance of the work assignment, and agreement to the estimated costs allocated. This acknowledgment shall be accomplished by returning one copy of the TWO signed by an authorized company official to the FDOT Project Manager, or processed through DocuSign.

Except as noted above, all work on a TWO shall be satisfactorily completed within 60 business days of acknowledgment of said TWO. Any time required for acquisition of materials and supplies shall be included in this 60-day period. At the Vendor's request, time extensions may be granted by the FDOT Project Manager and documented in the TWO files.

For TWOs requiring sensor replacement, the Vendor will, at no additional charge, send an electronics technician to the site to verify the problems listed in the TWO and to identify any additional work that may be required (pre-inspection).

All work accomplished as a result of this contract is subject to inspection by TDA technicians and must be approved by the FDOT Project Manager prior to acceptance of and payment for services rendered. The FDOT Project Manager shall be notified of the intended work schedule for each TWO at least five (5) working days in advance of any work being accomplished under said TWO, and shall have 10 working days following notification of completion of work by the Vendor for inspection. Work not accepted and approved shall be corrected by the Vendor and re-inspected by FDOT within 10 working days following notification.

Sites that have a separate cabinet for each direction (2-unit sites) will be considered "one" site for assigning TWOs except in the following instances:

1. When four or more lanes are being monitored in either direction; or
2. When guardrail or any other structure prohibits the workers and their equipment's ability to access both cabinets from one location; or
3. When more than 1,000 feet separate the cabinets.

A foreman is required on TWOs calling for flaggers or closing of an active travel lane which involves site construction crews. A construction crew will have a foreman and an appropriate number of workers for the task to be performed in a timely manner. This includes the personnel required to set up and maintain the safety of the work zone.

d) Post-Construction Inspection Process

After completion of construction work, a post-construction inspection shall be completed and submitted to the FDOT Project Manager. There will not be a separate pay item for this inspection. This Post-Construction Inspection is used as a notification to the FDOT Project Manager that the Vendor has completed and reviewed its work and is ready for an FDOT acceptance inspection. This inspection shall include an electronic report containing all (both newly installed and existing) sensor readings, digital photos, GIS and a site sketch. The site sketch shall be done in Excel or Microsoft Word, and shall include a detailed drawing showing lane width, previous sensor arrays still in use, new sensors and all spacing. Newly installed sensors shall include the depth of installation, given in inches. Sensors that are paved over shall be noted on the drawing. The cabinet and location of trenching and conduits and grounding shall also be shown. All spacing between sensors, cabinets and other markings shall be measured in feet and inches. The name of the drawing maker and north arrow shall be shown on the sketch. After submission of the post-construction inspection, an FDOT inspector will make a final acceptance inspection. All post-construction inspection reports shall be sent to the FDOT Project Manager. Once notification of readiness for inspection by the Vendor has been received, FDOT acceptance testing will be conducted within 30 days. There will not be a separate pay item for this function.

Inspection reports (preconstruction and post-construction) shall be submitted to the FDOT Project Manager within 10 business days.

e) Payment

Only inspected and approved TWO work shall be eligible for invoicing. Invoices for TWOs completed and inspected shall be submitted to the FDOT Project Manager.

f) Regularly Required Work Schedules

All road installation and maintenance work shall be coordinated with and approved by the appropriate local government authority, local controlling FDOT office and the FDOT Project Manager. Work requiring lane closures shall normally be limited to daytime hours Monday through Friday. Work at some locations (such as high traffic volume locations) will only be allowed during the night time hours. The FDOT Project Manager and FDOT District staff can require night time, weekend hours. Holiday periods will have additional restrictions regarding days and hours during which lane closures will be allowed, which may be determined by the local FDOT office or the FDOT Project Manager. The Vendor may work weekends with the approval of the FDOT Project Manager and the local government organization with authority to approve lane closures.

The Vendor shall provide the FDOT Project Manager with a schedule showing work planned during the upcoming week. The report shall be detailed and include the site location information, work order number, date of Pre-Construction Inspection and the crew leader.

The FDOT Project Manager shall have the authority to schedule meetings with Vendor management and employees as deemed necessary to manage the contract.

FDOT Project Manager Requested Site Maintenance

The Vendor may be requested to perform additional site maintenance at TMS sites not related to the replacement of sensors or operation of TMS equipment. The following list contains examples of such work, which shall be completed if requested by the FDOT Project Manager. A pay or bid item is to be provided by the Vendor for each type service as part of their Proposal:

a. Fill/Seal Cracks and Repair Potholes

At the request of the FDOT Project Manager, the Vendor shall fill/seal cracks and repair potholes around the sensors. The area shall include all cracks within 20-feet of the sensors, front and back. The repair technique, procedures, and materials will require approval by the FDOT Project Manager. Site maintenance will take place during normal operations when a lane closure is active or as requested by FDOT Project Manager and carry a one-year warranty.

b. Maintaining Vegetation

At the request of the FDOT Project Manager, the Vendor shall trim the vegetation in the immediate area of the TMS cabinet. This shall include the area in a 10-foot radius around the cabinet, but only within the FDOT right-of-way. The Vendor shall contact the FDOT Project Manager to clarify any questions regarding what is or is not the FDOT right-of-way. The method to be used for maintaining this area is non-tractor mowing and/or string-trimming.

The Vendor shall be responsible for trimming of trees and other vegetation that adversely affects the available sunlight reaching the solar panel and ultimately impacts the operation of TMS and modem equipment. Before performing trimming operations, the Vendor shall notify the FDOT Project Manager to receive approval to cut/trim.

Note: Normal maintenance during services calls and the various inspections of this contract shall include maintaining the counter cabinets, and removing vegetation from the cabinet post and solar panel, and shall not be a separate pay item.

c. Annual/ TMS Certification Inspection

The Vendor shall perform this inspection upon the direction of the FDOT Project Manager. This inspection shall be performed within 30-days upon receipt of request. The completed report shall be sent to the FDOT Project Manager. This inspection shall include the following items:

- Visual check of sensors (for grout failure, road maintenance issues, etc.) This is a noninvasive inspection and should not include lane closures.
- Visual check of site (cabinet, gaskets, solar panel angle / obstructions, etc.). Repair as necessary.
- Check pull box (for water, level with landscape, visual damages).
- Check all connections.
- Check time/date of the data collection unit.

- Sensor checks to include current reading.
- Photograph the sensors and site to include photos of pole/cabinet/solar.
- Site sketch.
- Check ground rod reading and ensure cad welding has been performed and notify the FDOT Project Manager of any discrepancies.
- Monitor traffic and perform a count quality assessment.
- Check cabinet mounting bolts: need gasket seals to prevent water from entering.
- Locks may need to be adjusted or replaced if door is hard to open or shut.
- Lubricate door hinges and locks.
- Replace filters as needed.
- Door gaskets shall be replaced if torn, missing, loose, open gaps where gaskets connect, (clean old gasket off door surface prior to replacing).
- Check seal around base of base mounted cabinets
- Implement appropriate pest/insect deterrent protocol.
- Verify communications with FDOT before leaving site.

Site Acceptance

A documented acceptance of each repaired, upgraded or newly installed site will be based on compliance with the current FDOT Standard Specifications for Road and Bridge Construction. An FDOT technician will inspect, sign, and date each site inspection sheet after all work has been completed to ensure specification compliance. FDOT will conduct final acceptance testing within 30-days of notification of readiness for inspection by the Vendor

Lightning/Surge Protection

The Vendor shall provide for lightning/surge protection at each TMS and be responsible for any damage caused by failed protection. All suppression devices considered for use must be on the APL.

Post-Construction Maintenance

The Vendor shall compact and level the ground for planting grass seed in the FDOT right-of-way whenever contract construction work or service vehicles cause rutting or destruction of vegetation. The type of grass seed to be used must be approved by the FDOT Project Manager prior to use. Straw shall be spread over the newly sown grass. Gravel will be added as needed to restore the site to preconstruction conditions. There is not a separate pay item for this work. Costs shall be included in the individual construction pay items.

Vendor Representative

The Vendor shall provide the FDOT Project Manager with a contact name and phone number who shall be responsible for all contract work discussion. The FDOT Project Manager will coordinate administrative issues with the Vendor Representative, but may at times require direct access to the Vendor's Field Technicians to discuss specific issues. To facilitate that contact, each contract team/employee shall have a cellular telephone at which they can be contacted during normal work hours. A list of all employees and their work hour phone number shall be provided to the FDOT Project Manager and shall be updated when changes occur.

Lane and Sensor Numbering

To ensure uniformity in numbering the road sensors, the following procedures shall be followed.

North/East outside/driving lane is Lane 1. The lead loop in Lane 1 shall be Loop 1A. The trail Loop in Lane 1 shall be Loop 1B. This numbering shall continue to the inside lane. Piezos shall be numbered matching the lane number. Numbers will continue in sequential order when crossing to the other direction of travel (See Appendix D).

3. Assignment of Pay Items

Pay Items are established and will be assigned for all work to be accomplished under this contract. Work assignments will be made through issuance of TWOs. All work is to be performed in accordance with the Pay Item Descriptions below and the documents referenced in the **Work Schedules and Work Control Procedures** section above. Each TWO will contain a detailed description of the work to be performed based on "best knowledge available at the time of issuance," and the compensation allocated for the TWO. Adjustments may be made to the Pay Items/quantities allocated, upon the Vendor's inspection of the work site, at the discretion of the FDOT Project Manager. If the Vendor determines that additional work exceeding \$1,000.00 should be performed, they must get prior approval from the FDOT Project Manager. Said approval may be in writing or given verbally with written follow up documentation. The exception to the requirement for prior approval will be on technician TWOs where technicians may be redirected to visit additional sites or may encounter unanticipated problems requiring additional time and/or replacement of equipment or materials on-site. E-mail, fax or other written correspondence are acceptable and will be attached to the TWO files for future reference. Should adjustments be made, compensation will be recalculated for the items/quantities used to perform the work required in the TWO, as approved by the FDOT Project Manager, at the Contract Prices.

New Pay Items may be assigned if deemed by the FDOT Project Manager to be necessary to fulfill the intent of this contract. Should such Pay Items be assigned, compensation for same shall be as negotiated by the FDOT Project Manager,

and shall be mutually acceptable to FDOT and the Vendor. The contract shall be amended to reflect the addition of the new Pay Items.

Pay Item Descriptions, Measurement and Payment

Establishment of Pay Items

The following Pay Items are established and will be included as a part of the contract.

Maintenance of Traffic (MOT)

Description

All maintenance of traffic (MOT) shall be in accordance with the referenced specifications (Section 2b, above) and FDOT procedure Topic No: 625-010-010-g. The Vendor shall obtain permission to close lanes as necessary from each responsible local maintenance yard or the proper office as directed. The Worksite Traffic Supervisor must be certified by a FDOT approved training agency that meets FDOT's MOT training requirement for advanced training. Mobilization will be included in the MOT costs and is defined as the charge to take a fully outfitted maintenance/construction work crew to the work site for the duration of time necessary to complete all work assigned at the site.

Work under this section shall include furnishing flag persons as required, and the installation, maintenance and removal of the required barricades, signs, and flashing lights. All preparatory work and operations in mobilizing for beginning work, movement of personnel and associated costs, per diem, etc., movement and/or storage of equipment and supplies, MOT and other incidentals for one TWO (project) shall be included in this item.

The MOT shall be determined by type of road and MOT required based on work to be performed at the site and approved by the FDOT Project Manager and assigned with each TWO. The MOT shall be determined according to the following criteria:

- Interstate MOT – defined as an interstate site for installation or repair requiring lane closures.
- Non-Interstate MOT – defined as a non-interstate site for installation or repair requiring lane closures.
- Mobilization Only – defined as mobilization to a location for work that does not include lane closures. Will normally be associated with work crew performing tasks on the shoulder of the road only such as replacement of cabinets, poles, grounding or maintenance of vegetation. This will be paid per work crew per day. If multiple locations are visited in one day, Vendor can only charge once per day.
- Shoulder Closure Only MOT – defined as closure of shoulder lane only with no active travel lanes closed. Normally this is associated with a work crew performing tasks on the shoulder of the road only such as replacement of cabinets, poles grounding or maintaining vegetation.
- Message Board – defined as in addition to MOT type when message boards as required by the MUTCD.

- Police Services – defined as in addition to MOT type when police services are required.

This section is not for mobilization of technicians performing services calls, counter repair, site inspections, sensor marking, data retrieval, solar panel replacement other work associated with a single technician working alone.

(1) Measurement and Payment

Payment for this item shall be a price per lane for the level specified. Payment shall be made under:

Payment shall be made under:

Item No. MOT-IL	Mobilization- Interstate Location
Item No. MOT-NIL	Mobilization- Non-Interstate Location
Item No. MOT-NM	Mobilization Only- No MOT
Item No. MOT-FR	Flaggers Required
Item No. MOT-SC	Mobilization- Shoulder Closure
Item No. MOT-MB	Message Board
Item No. MOT-PS	Police Services per 4-Hour Block

Grounding

Description

All grounding shall be in accordance with the referenced specifications (Section 2b, above) except readings shall be recorded on forms obtained from or approved by the FDOT Project Manager. The completed data sheets shall be submitted to the FDOT Project Manager. New cabinets (base mounted or pole mounted) require the installation and connection of 40-ft. of grounding electrode as a single point contact or in array. See specification 620 and Index 17900 for grounding requirements.

(2) Measurement and Payment

Payment shall be made per linear foot of grounding electrode installed and shall include labor, all ground rods, chemical welds, couplings, and fittings. Payment shall be made under:

Item No. A620-1-1	Grounding Electrode (F&I) – LF
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Conduits, In Place - With/Without Trenching

Description

This section describes the conduit to be installed and the method of installation. Conduit installed shall be in accordance with Spec 630 and Index 17900.

Conduits placed under the pavement shall be installed by Directional Bore (horizontal directional drilling). Other horizontal conduits shall be placed by open trenching unless Directional Boring is more cost effective to FDOT. Directional boring in areas other than beneath the roadway must be approved in advance by the FDOT Project Manager.

(3) Measurement and Payment

The contract unit price per linear foot for conduit/casing, furnished and installed, shall be full compensation including all fittings, glue, hardware and materials as required, all labor, excavating, backfilling and restoration materials as necessary for a completed and acceptable installation. Payment for directional bore will be based on the horizontal distance measured from pull box to pull box, or pull box to cabinet, pole, etc. as specified. The Vendor will be responsible for restoring any areas that erode for a period of six months after the work was performed. This will include the placement of sod where required in locations prone to erosion. Payment shall be made under:

Item No. 630-X	Trenching, includes opening and closing the trench for placing conduits, (F&I) - LF/Trench
Item No. 630-2-11	All PVC conduits (1/2" - 2") placed either vertically, or horizontally in an open trench or casing, (F&I) - LF/Conduit
Item No. 630-1-160	All rigid steel conduits (1/2" - 2") placed either vertically, or horizontally in an open trench or casing, (F&I) - LF/Conduit
Item No. 630-2-12	2" PVC or rigid conduits placed by directional boring, one per pull, (F&I) - LF/Conduit
Item No. 630-2-23	2" PVC or rigid conduits placed by directional boring, two or three per pull, (F&I) - LF/Conduit

Pull Boxes

Description

Pull boxes shall be installed in accordance with the referenced specifications (Section 2b, Specification 635 and Index 17700.)

(4) Measurement and Payment

The contract unit price per pull box, furnished and installed, shall be full compensation including all hardware and materials as required, all labor, excavating, backfilling and restoration materials as necessary for a completed and acceptable installation. The Vendor will be responsible for restoring any areas that erode for a period of six months after the work was performed at no additional expense to FDOT. This will include the placement of sod where required in locations prone to extreme erosion. Payment shall be made under:

Item No. 635-1X	Concrete Apron (F&I) – EA
Item No. 635-2-11	Pull Box, Composite (F&I) – EA

Aluminum Pole

Description

Aluminum poles installed shall be in accordance with Section 646 of the FDOT Standard Specifications - Ground poles in accordance with Section 620 of the Standard Specifications and Index 17900.

(5) Measurement and Payment

The contract unit price per pole, furnished and installed, shall be full compensation including all hardware and materials as required, all labor, excavating, backfilling and restoration materials as necessary for a completed and acceptable installation. Payment shall be made under:

Item No. 646-1-12	12-FT. Aluminum Breakaway Pole Assembly, (F&I) – EA
Item No. 646-1-15	15-FT. Aluminum Breakaway Pole Assembly, (F&I) – EA
Item No. 646-1-20	20-FT. Aluminum Breakaway Pole Assembly, (F&I) – EA
Item No. 646-1-25	25-FT. Aluminum Breakaway Pole Assembly, (F&I) – EA
Item No. 646-1-30	30-FT. Aluminum Breakaway Pole Assembly, (F&I) – EA

Electronics Technician/Construction Laborer for Repair of Sensors and/or Other Equipment

Description

To ensure proper operation of the site, and to preclude unnecessary replacement of entire sensors and/or equipment, operational and electrical testing and/or calibration shall be performed when specified.

Specified testing/calibration will be performed using only equipment, computer software and methods approved by FDOT for the equipment and sensors being tested. It shall be the Vendor's responsibility (without additional cost to FDOT) to obtain the appropriate test equipment, computer equipment and/or computer software to accomplish the prescribed work. Testing/calibration shall also include a visual/physical verification of vehicles crossing sensors to ensure proper calibration of counts, classification and/or weight by electronic classifier/WIM unit.

Whenever testing equipment or servicing the site indicates that re-splicing cables in the pull box and/or replacement of only the homerun cable for the associated sensor(s) would restore the assembly to performance within specifications, re-splicing and/or homerun cable replacement shall be performed in lieu of assembly replacement, and compensation will be adjusted by the FDOT Project Manager accordingly. Equipment testing/calibration shall be in accordance with the manufacturer's instructions as approved by the FDOT Project Manager. Testing of the loops and lead-ins shall be in accordance with Section 695-3.2.2 of the FDOT Standard Specification.

The Electronics Technician shall be fully capable of operating all test equipment and computer software routines and shall perform all required tests and making the necessary corrective actions.

The Construction Laborer shall be fully capable of operating all construction equipment in performance of unanticipated labor tasks and assisting the Electronics Technician as required. Typical tasks that arise infrequently would be removal, modification or installation of existing poles or cabinets, grinding or sealing of pavement, or any other activity not specifically covered in contract pay items.

(6) Measurement and Payment

The contract unit price per hour for each technician and/or laborer shall be full compensation for mobilization, all labor and all minor, associated material (such as electrical tape, miscellaneous hardware, paints, sealants, etc.) as required for a complete and acceptable installation. Payment shall be made per man/hour for technician's and/or laborer's time. **No payment for work included in any other item of this contract may be included herein.** Payment shall be as follows:

Item No. 300-1 Electronics Technician – Per Hour

Item No. 300-2 Construction Laborer – Per Hour

Electronics Technician for Calibration of WIM Sites

Calibration of weigh-in-motion sites, unless otherwise specified, shall be accomplished using a five (5) axle semi-tractor trailer (commonly termed 18-wheeler) with air ride suspension for the tractor and trailer as specified in the TWO, and supplied by FDOT. The vehicle shall be loaded to 80 - 100% of its legal capacity with a stable load. The calibration vehicle shall be weighed at a state certified static scale prior to use on-site. A copy of the scale weights recorded for the steering axle, drive axle group and trailer axle group will be provided to FDOT's representative at the calibration site. The spacing between all axles shall be measured, recorded and submitted with the weight ticket. Calibration shall be accomplished by making the prescribed number of passes of the test vehicle over the sensors in each lane. The Vendor must have a certified WIM calibration technician on site.

The Vendor will be responsible to provide a fully functional site before calibration begins. Prior to site deployment of the calibration vehicle(s), the Vendor shall test each sensor and determine its operating condition if required by FDOT. **Payment for such testing and calibration will be paid for as Technician's Time - Pay Item No. 300-1.** The FDOT Project Manager shall be notified immediately should any sensor not be performing optimally. No calibration will be performed in any lane where the sensors are not fully functional without the express consent of the FDOT Project Manager. The Vendor will provide a technician to assist with validation operations when requested by FDOT.

(7) Measurement and Payment

The contract unit price per hour for each technician shall be full compensation for mobilization, all labor and all minor, associated material (such as electrical tape, miscellaneous hardware, paints, sealants, etc.) as required for a complete and acceptable installation. Payment shall be made per man/hour for technician's and/or laborer's time. **No payment for work included in any other item of this contract may be included herein.** Payment shall be as follows:

Item No. 300-1 Electronics Technician – Per Hour

Inductive Loop Assembly

Description

Loops shall be 6ft x 6ft, centered in the lane and be installed in accordance with reference specifications (Section 2b, Specification 695 and Index 17900). Installation for bicycle counting shall be elongated diamond shaped and centered in the lane.

(8) Measurement and Payment

The contract unit price per loop for Inductive loops furnished and installed, shall be full compensation including all loop wire, loop sealant as specified and other associated material as required, and all labor for a completed and acceptable installation. Payment shall be made under:

Item No. 695-6-3M	Inductive Loop Assembly (3M Loop Sealant) (F&I) – EA
Item No. 695-6-BON	Inductive Loop Assembly (Bondo/Stat-A-Flex Loop Seal) (F&I) – EA

Loop Homerun Cable

Description

Loop homerun cable shall be installed in accordance with reference specifications (Section 2b, Specification 695 and Index 17900). There should be no splices in any lead wires from the roadway sensor to the cabinet for distances less than 150 feet. Splices are allowed, if needed, when the distance from the sensor to the cabinet exceeds 150 feet.

(9) Measurement and Payment

The contract unit price per linear foot, furnished and installed, shall be full compensation and shall include any necessary splicing and/or connectors.

Payment shall be made under:

Item No. 695-4-4	#14 AWG, IMSA 50-2 Homerun Cable (F&I) – LF
Item No. 695-4-80	3M, 8082 Wire Splice (F&I) – EA
Item No. 695-4-DB	3M, DBY-6 Wire Splice (F&I) - EA

Piezoelectric Axle Sensors

Description

Work described in this section consists of furnishing and installing the piezoelectric axle sensor(s) specified in the TWO, either in new locations or as replacements for existing sensors. Piezoelectric axle sensors shall be installed in accordance with the manufacturer’s instructions and/or installed in accordance with reference specifications (Section 2b, Specification 695 and Index 17900 except as modified herein.

Class II piezoelectric axle sensors shall be installed in a slot cut 1.5-inches deep. The slot shall be cut in one pass using a single 0.75-inch wide blade or with multiple blades ganged together. The slot will be pressure washed clean, dried with compressed air and wiped thoroughly with alcohol prior to placement of the sensor and sealant. Two strips of duct tape will be placed approximately 2-inches from the edge of the slot down both sides for the length of the slot prior to placement of the grout. The sensor will be installed 1-inch below the surface. The slot shall be partially filled with epoxy sealant prior to placement of the sensor to ensure there are no voids beneath the sensor. At completion, the grout level will be flush with the duct tape and will fill all voids in the pavement’s surface layer out to the tape. The duct tape is then removed and after the grouts sets adequately, it will be ground flush with the roadway using a belt sander.

(10) Measurement and Payment

The contract unit price per sensor assembly, installed, or furnished and installed, shall be full compensation for all work described in this section and shall include the removal of the existing axle sensor where required, the axle sensor, cabling as necessary, any special tools or equipment required, bonding material (grout) and other associated material as required, and all labor for a completed and acceptable installation.

The contract unit price for sensor lead-in cable furnished and installed shall be full compensation for all work described in this section and shall include the lead-in cable and all labor and materials needed to perform the splice.

Payment shall be made under:

Item No. 695-1-6C	6-ft. Piezo Axle Sensor, E-Bond (F&I) EA
Item No. 695-1-6A	6-ft. Piezo Axle Sensor, IRD, AS475 (F&I) – EA
Item No. 695-1-10C	10-ft. Piezo Axle Sensor, E-Bond (F&I) – EA
Item No. 695-1-10A	10-ft. Piezo Axle Sensor, IRD, AS475 (F&I) – EA
Item No. 695-XX	Replacement Coaxial Sensor Cable (F&I) - LF

Reseal Inductive Loops and/or Piezoelectric Axle Sensors

Description

Work described in this section consists of resealing existing embedded inductive loops, piezoelectric axle sensors, bending plates, minor potholes or pavement patches (using cold patch or grout as appropriate) either in rigid or flexible pavement. All products used shall be approved by FDOT, and all work shall be in accordance with Section 660.

(11) Measurement and Payment

The contract unit price per lane for up to two loops, two piezoelectric axle sensors and/or two bending plates, cleaned and resealed, shall be full compensation including all loop/piezo sealant and associated material as required, and all labor for a completed and acceptable installation. Mobilization and maintenance of traffic is covered separately and is not a part of this item. Payment shall be made under:

Item No. 695R	Reseal Loops and/or Piezo Axle Sensors (F&I) - Per Lane
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Passive Infrared Sensors

Description

The sensor shall be installed per manufacture recommendations. Mounting can be on a pole for horizontal pathway coverage, being aware of any adverse factors beyond the coverage area. An overhead sensor placement provides a vertical area coverage that minimizes occlusion and unwanted signal confusion.

(12) Measurement and Payment

The contract unit price per sensor assembly, installed, or furnished and installed, shall be full compensation for all work described in this section and shall include the installation of the sensor's mounting structure, where required, the sensor, cabling as necessary, any special tools or equipment required, other associated material as required, and all labor for a completed and acceptable installation.

Payment shall be made under:

Solar Power Unit

Description

The work specified in this section includes furnishing and installing, interconnecting and testing any or all the following solar power unit components as specified in accordance with Section 695 of the FDOT Standard Specifications and Index 17900 except as otherwise specified herein.

(13) Measurement and Payment

The contract unit price per unit specified, furnished and installed on an existing pole or in an existing cabinet, shall be full compensation for all work described in this section and shall include any or all the following; furnishing and installing the 85-watt (minimum) solar panel (as specified); or furnishing and installing the 100-AH battery; or furnishing and installing the specified 8-amp or 15-amp, 12-volt voltage regulator. All necessary wiring and other associated material as required, removal and disposal of existing panel, battery or regulator as required, and all labor for a completed and acceptable installation are also included herein. Payment shall be made under:

- Item No. 695-5-85 85-Watt Solar Power panel, (F&I), - EA
- Item No. 695-5-12B 100-AmpHour battery, (F&I), - EA
- Item No. 695-6-8A 8-Amp Voltage regulator, (F&I), - EA
- Item No. 695-6-15A 15 Amp Voltage regulator, (F&I), - EA

Lightning Suppression

Description

Lightening Suppression shall be installed in accordance with reference specifications Section 2b, Specification 695 and Index 17900. When specified, lightning suppression devices shall be furnished and installed for each power, piezoelectric axle sensor and loop lead-in in the cabinet. Suppressors for loop and piezo lead-ins shall be mounted on an approved 8" X 24" aluminum panel (Sensor Backplane) on the back wall of the cabinet. A sensor backplane will be capable of up to 4-lanes of inputs. Suppressors for power lead-ins shall be mounted on a 10" X 10" aluminum panel (Power Backplane) on the right-side cabinet side wall.

The required lightning suppression units shall be: for power—Atlantic Scientific # 24580; for piezoelectric axle sensors and loop lead-ins, Atlantic Scientific # 24528, or equivalents as approved by the FDOT Project Manager.

(14) Measurement and Payment

The contract unit price, shall be full compensation for all work described in this section and shall include cost of removal of existing lightning suppression equipment when required, furnishing and installing backplane and suppressors,

interconnection of the lightning suppression on all lead-ins as required, furnishing and installing the lightning rod and its interconnection with the system ground, and all labor for a complete and acceptable installation.

The Sensor backplane assembly shall consist of the basic backplane, DIN rail for mounting suppressors, two inductive loop terminal strips, and one vehicle sensor terminal strip. The Power Backplane will consist of the basic backplane, DIN rail for mounting the suppressor, one battery terminal strip and one solar panel terminal strip.

Payment shall be made under:

- Item No. 695-8-NSIII Sensor Backplane Type III Cabinet (No suppressors) (F&I) – EA
- Item No. 695-8-NSIV Sensor Backplane Type IV Cabinet (No suppressors) (F&I) – EA
- Item No. 695-8-NSV Sensor Backplane Type V Cabinet (No suppressors) (F&I) – EA
- Item No. 695-8-PWBP Power Backplane (No suppressors) (F&I) – EA

- Item No. 695-8-PAS Power Suppressor Atlantic Scientific (F&I) - EA
- Item No. 695-8-PED Power Suppressor EDCO (F&I) – EA

- Item No. 695-8-LPAS Lightning Suppressor, Loop/Piezo Atlantic Scientific (F&I) - EA
- Item No. 695-8-LPED Lightning Suppressor, Loop/Piezo EDCO (F&I) - EA

Traffic Monitoring Site (TMS) Cabinet

Description

The cabinets installed shall be FDOT Type III, IV or V as specified in Section 695 of the FDOT Specifications Handbook and Index 17900, (except as modified herein), NEMA 3R rated, base, pedestal, pole, or pedestal/pole mounted as specified in the TWO. All wire leads from the roadway, solar power and/or telephone lines will enter the cabinet from the pole or base (when so mounted) in conduit or through the cabinet mounting structure (pipe where pedestal mounted, unless otherwise specified in the TWO. Entries into the cabinet shall be watertight.

Each cabinet shall have an aluminum shelf (same material as cabinet) continuously adjustable in 2-inch increments from within 10-inches (max.) of the top of the cabinet to within 10-inches (max.) of the bottom of the cabinet. The main door shall be provided with a hasp, making it capable of being locked with a padlock. The cabinet shall be vented to allow heat dissipation. The vents shall be covered with a filter to allow ventilation but preclude insect entry. No exhaust fan is required. No police panel or door is required, but will be allowed.

Pedestal mounted cabinets shall have a solid 1/4" bottom constructed of 5052-H32 aluminum suitable for pedestal mounting. The cabinets shall be installed on 4-inch NPT aluminum pipe shaft with an aluminum pedestal adapter bolted on the bottom of the cabinet. The cabinet shall be mounted in accordance with Index 17900 as applicable. The aluminum pipe shall be mounted on an approved breakaway aluminum square base assembly.

Pole assemblies shall include the pole, breakaway aluminum square base and all hardware for mounting the pole to the concrete base. The base will be paid for separately.

NOTE: All Type III cabinets must be a minimum of 25-inches wide to accommodate the FDOT standard lightning suppression backplane assembly.

Ground cabinets in accordance with Section 620 of the Standard Specifications. Lightning suppression, where required, shall be paid for separately.

(15) Measurement and Payment

The contract unit price for each cabinet, furnished and installed, shall be full compensation for all work described in this section and shall include the cabinet and its installation on a concrete base if base mounted (base not included), mounting brackets if non-breakaway pole mounted (pole not included), pedestal or breakaway (pedestal or pole included), ground wire and connection to the grounding electrode, and all labor for a completed and accepted installation. Payment shall be made under:

- Item No. 695-7-13B Type III TMS Cabinet base mount, (F&I) – EA
- Item No. 695-7-13PD Type III TMS Cabinet includes breakaway pedestal, (F&I) – EA
- Item No. 695-7-14B Type IV TMS Cabinet, base mounted (F&I) – EA
- Item No. 695-7-14P Type IV TMS Cabinet, pole mounted (F&I) – EA
- Item No. 695-7-15B Type V TMS Cabinet for base mounting, (F&I) – EA

Concrete Cabinet Base

Description

The work specified in this section includes the concrete base for the Type V base mounted cabinets described above, and the concrete base for the pedestal and break-away pole mounted cabinets and pole assemblies. All labor and materials for the base is included. The base material shall conform to all requirements for Class I concrete, and may be either premixed or mixed on site. The requirement for pre-approval of plant and mixture may be waived at the discretion of the FDOT Project Manager. In such cases, the Vendor shall take special precautions in selection of materials and mixing thereof, and ensure that the mixture conforms to compressive strength and slump requirements for Class I concrete. Concrete bases shall be constructed as detailed in Index 17841 of the Design Standards.

(16) Measurement and Payment

The concrete unit price for each cabinet base, furnished and installed, shall be full compensation for all work described in this section, and shall be full compensation for all materials and labor for a completed and accepted installation. Payment shall be made under:

Pole Removal

Description

The work specified in this section includes the removal and disposal of existing miscellaneous power poles. Such poles may be either wooden poles of lengths up to 35 feet above ground, or metal poles extending up to 20-feet above ground. Wooden poles are direct burial; metal poles may have up to 1/4 cu. yd. of concrete used as fill material. Work herein also includes backfilling and surface treatment of the area from whence the pole was removed.

(17) Measurement and Payment

Payment shall be made per pole for each work assignment. The lump sum payment for this item shall be full compensation for all work included herein. Payment shall be made under:

Item No. REM-POL Pole Removal (Remove and Dispose) - EA

Piezoelectric Axle Sensor Removal

Description

The work specified in this section includes the removal and disposal of existing piezoelectric axle sensors when the sensor location is being abandoned. Such sensors may be in either Portland cement concrete or asphaltic concrete pavements. Sensors are to be removed by sawing alongside the sensor on each side at the roadway/grout interface to the depth of the installed sensor (approximately 1 1/2" — 2"). When completing sawing, a pneumatic chipping hammer with a blade of up to 1-1/2" wide can be used to cut the sensor into separate sections (2 to 4) as required so that the sensor's bottom surface can be loosened from the grout/roadway and the sensor removed. Throughout the entire process to care shall be taken to minimize damage to the roadway surface. Work herein also includes backfilling of the excavated area with material approved by the FDOT Project Manager.

(18) Measurement and Payment

Payment shall be made per piezoelectric axle sensor removed for each work assignment. The lump sum payment for this item shall be full compensation for the sensor removal, the approved backfill material, and all labor and incidental materials required for a complete and acceptable job. Payment shall be made under:

Item No. REM-PIE Piezoelectric Axle Sensor Removal (R&D) – EA

Miscellaneous Removal

Description

The work specified in this section includes the removal and disposal of existing concrete poles, concrete detector cabinet bases, and/or associated materials. Concrete poles removed herein will not exceed 35' in length. Bases removed herein will not include more than 1/2 cu. yd. of concrete.

(19) Measurement and Payment

Payment shall be made per location for each work assignment. The lump sum payment for this item shall be full compensation for all work included herein. Payment shall be made under:

- Item No. REM-CBA Removal of concrete base and miscellaneous equipment (R&D) – EA
- Item No. REM-CPO Removal of concrete pole and miscellaneous equipment (R&D) – EA

Optional WIM Unit Components

The following items will be supplied by the Vendor when specified:

- (1) A temperature sensor will be installed in the roadway/paved shoulder to monitor pavement temperature which allows the electronics unit to compensate for temperature variation.

(20) Measurement and Payment

The contract unit price for each optional component, shall be full compensation for furnishing, installation, interconnection and testing of the component, and all labor for a complete installation. Payment shall be made under:

- Item No. WIM -TEMP IRD/PAT Traffic Temperature Sensor (F&I) - EA

Installation, Removal and Replacement of Weigh-in-Motion Sensors

Description

The work specified in this section includes the complete installation of WIM bending plates, frames, loops and all associated hardware in both wheel paths of one lane at a new site, removal and replacement of one weigh-in-motion (WIM) bending plate in existing frame, removal of a bending plate frame and removal & reinstallation of an existing bending plate for inspection/repair purposes. The existing frames or new site frames may be in either Portland cement concrete or asphaltic concrete pavements. Maintenance of traffic or testing of the plates is not included herein, but will be paid for separately under MOT and Technical Service (technician's) time. Also included is the furnishing and installing of Kistler Lineas Quartz Class-I piezoelectric weight sensors in lanes specified in the TWO.

All work included herein must be in accordance with the manufacturer's specifications and instructions as approved by the FDOT Project Manager. All new WIM sensors supplied by the Vendor shall be furnished with leads of sufficient length to reach the cabinet without the need for splicing additional cable.

Installation of a complete lane of bending plate WIM will include furnishing and installing all equipment and materials including the recommended embedded inductive loops and one bending plate and frame in each wheel path of one lane of a roadway. Materials not installed in the roadway, except sensor lead-ins, are not included in this Pay Item and will be paid for separately.

When furnish and install bending plates is specified, included will be the removal of all apparatus holding the plate in the frame, removal of the plate itself, the cleaning of the frame and plate area, checking and replacement of shims as necessary, furnishing and proper fitting and installation of a new or factory reconditioned plate, furnishing new locknuts, and properly replacing the plate retaining apparatus. The Vendor will store or dispose of the removed plate as specified in the TWO.

When removal of a frame is specified, the pay item will include removal of the bending plate and its storage or disposal as specified in the TWO, and disposal of the frame. Also included will be treatment of the excavated area which will be backfilled with asphaltic concrete or Portland cement concrete as specified in the TWO.

Removal and reinstallation of an existing bending plate will include technician's time for inspection of equipment, cleaning, furnishing new locknuts and any other associated non-reusable parts, shims (if needed) and all labor.

Installation of Kistler Lineas Quartz piezoelectric sensors shall be per the manufacturer's instructions and will include the epoxy sealant furnished by the WIM sensor manufacturer unless otherwise specified by FDOT.

The Vendor shall have a WIM trained and qualified Electronics Technician acceptable to the FDOT Project Manager on site during all phases of any of these Items.

(21) Measurement and Payment

The contract unit price shall be full compensation including transportation of all materials to and from the site and all labor as necessary for a completed and acceptable installation. Payment shall be made under:

Item No. WIM-BP-ASSY Bending Plate WIM Sensor Assembly for Complete Lane (2 Plates, Frames & Loops) (F&I) – PER LANE

Item No. WIM-BP-100	Bending Plate WIM Sensor (F&I) – EA
Item No. WIM-BP-200	Bending Plate & Frame Removal (F&I) – EA
Item No. WIM-BP-300	Bending Plate Remove/Reinstall (F&I) – EA
Item No. WIM-175-K40	Kistler Quartz Sensor, Type 9195F411 (40M lead) (F&I) – EA
Item No. WIM-175-K100	Kistler Quartz Sensor, Type 9195F421 (100M lead) (F&I) – EA
Item No. WIM-XX	Replacement Cable for Kistler Type 9195 Sensors (F&I) - LF

Wireless Communications

Description

FDOT uses wireless communications to transfer data from the remote traffic monitoring sites to the Central Office computer. Wireless modems shall be furnished and installed in the cabinet when specified. Antennas for wireless modems shall be furnished and installed. Labor to install modems or antennas furnished by FDOT shall be paid for separately as technician time under Pay Item No. 300-1. The telephone service will be provided by FDOT.

(22) Measurement and Payment

The contract unit price for each communications modem and antenna shall be full compensation for all work described in this section and shall include cost of removal of existing modem and its return to FDOT. Also included is interconnection of all parts, cables, connectors, antenna, antenna mounting brackets, programming and testing for the new modem for a completed and accepted installation. Payment shall be made under:

Item No. 695-9-SMA Antenna for Wireless Modem (F&I) - EA

Non-intrusive Vehicle Sensor(s)

Description

A non-intrusive vehicle sensor unit shall be installed at each location as specified in the TWO. Non-intrusive vehicle sensors shall meet and be installed in accordance with reference specifications (Section 2b, Specification 695 and Index 17900).

(23) Measurement and Payment

The contract unit price for each non-intrusive vehicle sensor unit shall be full compensation for all work described in this section and shall include its furnishing and installation on an existing pole, cabling and the interconnection with an existing electronics classification unit, testing and calibration of the unit, and all labor for a completed and accepted installation. Payment shall be made under:

Item No. 695-2-RTMS EIS Non-Intrusive Vehicle Sensor (F&I) – EA

Item No. 695-2-WAVE Wavetronix HD Non-Intrusive Vehicle Sensor (F&I) – EA

Universal Cables and Connectors

Description

When specified, universal “P1” Equipment Cables and Connectors and/or “J1” Cabinet Cables and Receptacles shall be furnished and installed in the cabinet. They shall be fabricated in accordance with the TWO and Standard Index 17900, and be compatible with the specified Electronic Classification Unit described in Section 3.21 and additionally the Peek model ADR1000. All wiring (including the ground wire) shall be kept as short as practical and shall be neatly placed and of good workmanship. All conductors in the cabinet (except ground wire and piezo lead) shall be stranded copper. All conductors shall be terminated with insulated terminal spade lugs. A calibrated ratchet crimping tool shall be used to attach the conductors to the terminal lugs. The Vendor will be responsible for acquiring the cables, connectors, terminals and all labor and ancillary equipment necessary to produce an acceptable unit as specified.

(24) Measurement and Payment

The contract unit price shall be full compensation for all work described in this section and shall include the cost of furnishing the universal cable and connectors as specified. Installation and interconnection, when required, shall be paid for separately. Payment shall be made under:

- Item No. 695-4-P1 Universal "P1" Cable and Connectors for the specified Traffic Counter/Classifier (F&I) – EA
- Item No. 695-8-J1 Universal "J1" Cabinet Cable and Receptacle with mounting Bracket (F&I) –EA

Unforeseeable Work

Description

Any activities specifically required in the establishment or repair of CCSs, SCSs or NCS **and not included in other pay items within this contract** are considered unforeseeable work. Such work may be allowed or required at the discretion of the FDOT Project Manager, and shall be assigned by the Vendor to a subVendor if necessary. Should a TWO be issued to the Vendor for unforeseeable work, the Vendor shall manage, inspect and be responsible for all work performed by the subVendor.

Work performed by the Vendor without prior authorization of the FDOT Project Manager is not allowed. The signed TWO authorizing such work, along with the subVendor's invoice, shall accompany any invoice submitted by the Vendor for payment.

(25) Measurement and Payment

Payment for this item shall be a lump sum that includes the subVendor's invoice price, plus a mark-up of the percentage bid for this Pay Item, which shall not exceed 15% of the subVendor's invoice price. Payment includes all costs and fees for all administrative, construction, and engineering inspection services for all authorized work being performed by the subVendor under one TWO. SubVendor's invoice for completed and accepted services must be submitted along with the Vendor's invoice for compensation.

- Item No. 800-UNFOR Unforeseeable Work – Per TWO

Security Requirements

Background Checks Requirements: A fingerprint-based Criminal History Background Check (CHBC) will be required of the Vendor's Project Manager and the employees of the Vendor who will supervise roadwork in Florida. All costs for the CHBC will be at the expense of the Vendor. Favorable results of the CHBC are usually available within 24 hours of the time the background check is conducted. In the event an employee of the Vendor has a criminal history, official criminal history reports issued by the Florida Highway Patrol or Florida Department of Law Enforcement (FDLE) are usually available within 12 business days, though longer delays may ensue.

A Name Background Check will be required of all other employees of the Vendor. All costs for the Name Background Check, will be at the expense of the Vendor. Favorable results of the Name Background Check are usually available within 24 hours

of the time the background check is conducted. In the event an employee of the Vendor has a criminal history, official criminal history reports issued by the GSP are usually available within 12 business days, though longer delays may ensue.

Based upon the results of the official fingerprint-based Criminal History Background Check or Name Background Check, FDOT reserves the right to deny individuals access to the FDOT facility. Only those individuals who pass the fingerprint-based CHBC may be issued a FDOT-issued Photo-identification badge. All staff employed by the Vendors of this contract shall repeat the fingerprint-based CHBC or Name Background Check every two (2) years.

A valid driver's license is required of all staff responsible for operating vehicles while performing work on this contract. Vendor is responsible for maintaining this documentation, which will be made available upon request.

Minimum Vendor Requirements

FDOT requires that the Vendor meet the following minimum qualifications:

1. Must have at least four (4) traffic certified staff. The only acceptable training to FDOT is as follows: American Traffic Safety Services Association (ATSSA) or National Safety Council certification. Must be certified in the development of traffic control plans and the installation of traffic control devices with at least three years' experience performing these functions.
2. The principal of the Vendor directly responsible for this contract must have a minimum of seven (7) years performing the following:
 - A. Experience with the installation, operation, repair and maintenance of continuous Automatic Traffic Recording (TMS) sites/equipment for other state Departments of Transportation.
 1. Experience with the installation and maintenance of Piezoelectric sensors for TMS, Piezoelectric sensors for WIM, in-road and non-intrusive traffic data collection, and Weigh-In-Motion (WIM) sites.
 2. Experience providing work zone safety including properly setting up lane closures, crash cushions, vehicle warning lights, signs, traffic cones, flag personnel and traffic barrels in accordance with the Manual on Uniform Traffic Control Devices (MUTCD).
 3. Experience providing Quality Assurance/Quality Control (QA/QC) for work performed. Vendor should have quality assurance procedures that detail measures to be taken to ensure specifications are met, and that professional workmanship and a quality product is provided.

3. The Vendor must have completed a minimum of at least five (5) projects of similar size, scope and work as outlined in the Project Scope of Work.
4. The Vendor must provide five (5) references that illustrate the ability to complete the anticipated project requirements listed in the Project Scope of Work. Three (3) references must be from government agencies for which projects of similar size, scope and work have been performed. Contact information must be provided; this includes person's name, title, phone number, electronic, and mailing address. References will be contacted and FDOT reserves the right to contact other references as developed references.
 1. Must demonstrate success in other states which includes remaining on schedule and within budget without supplemental agreements, extensions, or changes in pricing.
 2. Must provide a list of the names and addresses of all clients who have terminated your relationship for performing similar services as detailed in this RFP during the past three years and their reasons for doing so. Please include the name, title and telephone number of the contact person.
 3. Must provide a list of all Vendors, businesses or states that you have been disbarred or are in default of any contract with them. Contact information must be provided; this includes person's name, title, phone number and mailing address.
5. All key personnel supporting this effort must be located within a one day driving period of Florida. Key personnel are defined as Project Manager, Field Supervisors, Field Staff or any other staff that directly support this contract.
6. Must be established as a legal entity and have all necessary licensure and permits to do business in the State of Florida. Provide evidence of being in business for a minimum of five (5) years. Copies of current and previous four (4) year's business licenses will satisfy this requirement.
7. Must possess the necessary equipment and personnel to fulfill the terms of the contract and be ready to proceed within seven (7) days upon receipt of a notice of "Notice to Proceed."

APPENDIX A - Continuous Count Stations

Site	Unit	RTP	Poll	Stat	Powr	Phone	IP Address	LOCATION	Baud	Prgm	MODEL	Lanes	Sensor
10	1	N			S	850-491-5764	166.159.45.45	US 1, BOCA RATON	192	5	22	4	16
31	1	N			S	850-445-9340	166.159.45.4	MAC CSWY, MIAMI	192	5	22	6	16
37	1	N			S	850-728-0964	166.159.45.152	US-90 W OF LAKE CITY	192	5	22	2	16
38	1	N			S	850-408-5446	166.159.45.163	SR-50, WINTER GARDEN	192	5	22	6	16
39	1	N			S	850-766-9868	166.159.45.66	SR-80, W OF LABELLE	192	5	44	4	16
43	1	N			S	850-728-0947	166.159.45.135	SR-121 N OF GAINSVIL	192	5	22	2	16
44	1	Y			S	850-491-5734	166.159.45.17	US-19 CHASSAHOWITZKA	192	5	22	4	16
47	1	N	D		S	850-491-5683	166.159.45.157	US1, BOULOGNE-GA STL	192	5	33	4	16
48	1	N	D		S	850-728-2683	166.159.45.217	US 90, AL STATE LINE	192	5	33	2	16
50	1	Y	D		S	850-491-4010	166.159.45.166	US231,CAMPBELTON-STL	192	5	33	4	16
51	1	N	D		S	850-728-3713	166.159.45.218	SR 83 DEFUNIAK SPRGS	192	5	33	2	16
54	1	Y	D		S	850-766-9856	166.159.45.76	US 27, HAVANA-GA STL	192	5	33	4	16
60	1	N			S	850-491-4308	166.159.45.165	US 98 CARRABELLE	192	5	44	2	16
62	1	N			S	850-491-5766	166.159.45.52	US90 IC WATERWAY JAX	192	5	22	6	16
65	1	Y			S	850-766-9851	166.159.45.94	US 192 HOLOPAW	192	5	22	4	16
66	1	N			S	850-728-0927	166.159.45.116	SR699 REDINGTN SHORE	192	5	44	4	16
68	1	N	N		S	850-728-2844	166.159.46.113	SR70 ARCADIA S TAMPA	192	5	44	2	16
73	1	N			S	850-728-3815	166.159.45.219	SR 100 LAKE BUTLER	192	5	22	2	16
79	1	N			S	850-728-2860	166.159.46.129	US98-301 N DADE CITY	192	5	44	4	16
80	1	N			S	850-766-9838	166.159.45.83	US 92 TAMPA	192	5	44	2	16
86	1	N			S	850-294-8118	166.159.45.251	US92 ST. PETE	192	5	22	4	16
87	1	N			S	850-728-0957	166.159.45.145	A1A PALM BCH	192	5	22	4	16
94	1	N			S	850-766-9786	166.159.45.74	US 41 S OF NAPLES	192	5	22	6	16
96	1	N			S	850-766-6265	166.159.45.106	SR-9 MIAMI	192	5	44	4	16
99	1	N			S	850-766-9863	166.159.45.79	US-441 DELRAY BCH.	192	5	22	4	16
101	1	N	N	D	S	850-445-3058	166.159.45.2	SR 80 W PALM BCH	192	5	22	8	16
102	1	N			S	850-728-0929	166.159.45.117	US17-92 SANFORD	192	5	44	4	16
104	1	Y			S	850-491-5753	166.159.45.35	SR 50 BITHLO	192	5	22	4	16
105	1	Y			S	850-728-8035	166.159.45.181	US-17 SAN MATEO	192	5	22	4	16
108	1	N			S	850-491-3467	166.159.45.171	I-195,MIAMI	192	5	22	6	16
109	1	Y	N	D	S	850-491-3113	166.251.186.208	I-10 BALDWIN	192	5	22	6	16
112	1	Y			S	850-491-5741	166.159.45.24	I-75 STATE LINE	192	5	22	6	16
113	1	Y			S	850-491-5726	166.159.45.12	SR520,MERRITT ISL	192	5	22	6	16
114	1	N			S	850-728-0930	166.159.45.118	US 1 MALABAR	192	5	44	4	16
116	1	Y			S	850-491-5760	166.159.45.41	US 19 CHIEFLAND	192	5	22	4	16
117	1	N			S	850-728-0945	166.159.45.133	US 90 MARIANNA	192	5	22	4	16
118	1	N			S	850-728-0931	166.159.45.119	US 301 OCALA	192	5	44	4	16
122	1	N			S	850-728-3835	166.159.45.220	US 90 CRESTVIEW	192	1	22	4	16
130	1	Y			S	850-766-2418	166.159.45.214	I-4,SW OF ORLANDO	192	5	22	8	16
132	1	Y	D		S	850-491-4850	166.159.45.203	I-95,AT US-17,YULEE	192	5	33	6	16
133	1	N	N	D	S	999-999-9999		I-95 NEW SMYRNA BCH	192	1	22	2	
133	2	N	N	D	S	999-999-9999		I-95 NEW SMYRNA BCH	196	1	22	2	
134	1	N			S	850-728-0932	166.159.45.120	I-95 MALABAR	192	5	22	6	16
137	1	N			S	850-294-7978	166.159.45.234	SR 826,MIAMI-EB	192	5	22	4	16
137	2	N			S	850-766-9782	166.159.45.69	SR 826,MIAMI-WB	192	5	22	4	16
139	1	Y			S	850-491-5128	166.159.45.158	SR60,YEEHAW JUNCTION	192	5	22	4	16
140	1	N			S	850-766-9865	166.159.45.71	SR 710 W. PALM BCH	192	5	22	4	16
143	1	N			S	850-728-8030	166.159.45.178	SR 29 IMMOKALEE	192	5	44	2	16
144	1	N			S	850-728-3908	166.159.45.174	CR-68 FT PIERCE	192	5	44	2	16
145	1	Y			S	850-445-7792	166.159.46.131	US 17 ARCADIA	192	5	22	5	20
146	1	N			S	850-491-5768	166.159.45.48	SR 64 BRADENTON	192	5	44	2	16
149	1	N			S	850-491-3833	166.159.45.168	US 27 W OF BRANFORD	192	5	44	2	16
151	1	N			S	850-728-0934	166.159.45.122	US 27 TALLAHASSEE	192	5	44	4	16
152	1	Y			S	850-728-2986	166.251.186.210	I-10 CHIPLEY	192	5	22	4	16
154	1	N			S	850-728-2855	166.159.45.201	SR 436, ORLANDO	192	5	22	6	16
156	1	Y			S	850-491-5746	166.159.45.29	I-10, AL STATE LINE	192	5	22	4	16
161	1	N	N	D	S	999-999-9999		US 90, EAST JAX	192	1	22	8	16
162	1	N			S	850-728-0953	166.159.45.141	SR 60 TAMPA	192	5	22	4	16
163	1	Y	N	D	S	999-999-9999		I95,DEERFIELD BCH-NB	192	5	22	4	16
163	2	Y	N	D	S	999-999-9999		I95,DEERFIELD BCH-SB	192	5	22	4	16
164	1	Y			S	850-491-5749	166.159.45.32	US 1 KEY LARGO	192	5	22	4	16
165	1	N			S	850-491-5763	166.159.45.44	US 1 KEY WEST	192	5	22	4	16
166	1	N			S	850-728-0959	166.159.45.147	US98,PANAMA CITY BCH	192	5	44	2	16
167	1	N			S	850-766-9855	166.159.45.81	US 98 FT WALTON	192	5	22	4	16
168	1	N	N	D	S	999-999-9999		US 98 DESTIN	192	5	44	4	16
170	1	N			S	850-766-9857	166.159.45.73	SR442 E OF EDGEWATER	192	5	22	4	16
171	1	N			S	850-728-0933	166.159.45.121	I-95 JAX. DUVAL CO.	192	5	22	6	16
172	1	N			S	850-728-0935	166.159.45.123	SR 21 JAX DUVAL CO	192	2	22	6	16
173	1	Y			S	850-728-1622	166.159.45.193	SR 20 BLOUNTSTOWN	192	5	22	2	16

APPENDIX A - Continuous Count Stations

Site	Unit	RTP	Poll	Stat	Powr	Phone	IP Address	LOCATION	Baud	Prgm	MODEL	Lanes	Sensor
174	1	N			S	850-491-3037	166.159.45.206	I-95 W PALM BCH NB	192	5	22	6	16
174	2	N			S	850-491-3197	166.159.45.207	I-95 W PALM BCH SB	192	5	22	6	16
175	1	N			S	850-728-0936	166.159.45.124	SR-527 ORLANDO	192	5	22	4	16
176	1	N			S	850-766-2206	166.159.45.105	US-1, HOLLYWOOD	192	5	22	4	16
177	1	N			S	850-491-4626	166.159.45.161	US 441 LEESBURG	192	5	22	6	16
178	1	N			S	850-766-9783	166.159.45.64	US 1, MIAMI	192	5	22	6	16
180	1	N			S	850-766-9858	166.159.45.67	US-301,ELLENTON	192	5	22	4	16
181	1	N			S	850-766-9859	166.159.45.65	US 41 OSPREY	192	5	22	4	16
182	1	N			S	850-491-5754	166.159.45.36	SR 200 (A1A) YULEE	192	5	22	6	16
183	1	N			S	850-491-5750	166.159.45.33	I-275 ST PETE	192	5	44	4	16
184	1	N			S	850-491-5724	166.159.45.10	I-75 FT MYERS	192	5	22	8	16
185	1	N			S	850-728-8041	166.159.45.184	SR 24 GAINESVILLE	192	5	44	4	16
187	1	N	N	D	S	999-999-9999		SR 836 MIAMI	192	5	22	8	16
188	1	N	N	D	S	850-766-9877	166.159.45.75	SR94(KENDALL),MIAMI	192	5	22	6	16
189	1	N			S	850-728-0958	166.159.45.146	US17 S OF ORANGE PRK	192	5	22	6	16
190	1	Y			S	850-766-9860	166.159.45.89	I-75 ZEPHYRHILLS	192	5	22	8	16
191	1	N	N	E	S	850-728-0960	166.159.45.148	I-75 N NAPLES	192	5	22	6	16
192	1	N			S	850-491-5747	166.166.53.56	SR 20 YOUNGSTOWN	192	5	57	2	16
193	1	N			S	850-491-3487	166.159.45.169	SR 878 MIAMI	192	5	44	4	16
195	1	Y			S	850-491-1402	166.159.45.155	SR 70 FT PIERCE	192	5	22	5	16
196	1	Y	N	D	S	999-999-9999		I-4,ORLANDO	192	1	22	9	
197	1	N			S	850-728-2845	166.159.46.114	SR 434 LONGWOOD	192	5	22	6	16
198	1	N			S	850-766-9871	166.159.45.78	I-95 BOYNTON BCH	192	5	22	6	16
198	2	N			S	850-294-3276	166.159.45.63	I-95 BOYNTON BCH	192	1	22	6	16
199	1	Y			S	850-491-5744	166.159.45.27	US19 NEW PORT RICHEY	192	5	22	4	16
199	2	Y			S	850-766-6491	166.159.46.137	US19 NEW PORT RICHEY	192	5	22	4	16
202	1	N	N	D	S	850-728-4108	166.159.45.222	SR-100, JASPER	192	5	33	2	16
203	1	N			S	850-728-0938	166.159.45.126	SR-884 FT. MYERS	192	5	22	6	16
204	1	N			S	850-491-5770	166.159.45.50	SR 528 BEE LINE ORL	192	2	22	8	16
207	1	N			S	850-445-1950	166.159.45.9	SR-155	192	1	22	4	
211	1	N			S	850-728-0939	166.159.45.11	SR-20, TALLAHASSEE	192	5	22	2	16
214	1	N			S	850-728-0941	166.159.45.129	SR814,POMPANO BCH	192	5	22	6	16
215	1	N			S	850-766-9861	166.159.45.87	A1A, POMPANO BEACH	192	5	22	4	16
216	1	N			S	850-728-4008	166.159.45.221	I-295/SR 9A, JAX	192	5	22	5	16
217	1	Y			S	850-408-6136	166.159.45.249	I-95 JUPITER - NB	192	5	22	5	16
217	2	Y			S	850-445-6301	166.159.45.239	I-95 JUPITER - SB	192	5	22	5	16
218	1	Y			S	850-728-8087	166.159.45.189	I-10 MARIANNA	192	5	22	4	16
219	1	N			S	850-294-9502	166.159.45.235	SR 85 NICEVILLE	192	5	44	4	16
220	1	Y			S	850-491-3374	166.159.45.172	I-10 QUINCY	192	5	22	4	16
223	1	Y			S	850-728-8034	166.159.45.180	SR407 TITUSVILLE	192	5	22	2	16
223	2	N			S	850-728-2865	166.159.45.30	SR407 GPS LANE WIM	192	8	57	1	12
225	1	Y			S	850-294-9430	166.159.45.55	I-75, SARASOTA	192	5	22	6	16
227	1	Y			S	850-766-9843	166.159.45.86	US-1, BIG PINE KEY	192	5	22	2	16
228	1	N			S	850-728-0954	166.159.45.142	SR-776, EL JOBEAN	192	5	44	4	16
229	1	N			S	850-728-2832	166.166.53.52	SR-66, SEBRING	192	5	44	2	16
230	1	N			S	850-728-2846	166.159.46.115	SR-33, POLK CITY	192	5	44	2	16
231	1	N			S	850-294-9234	166.159.45.233	SR-45, NEWBERRY	192	5	44	2	16
232	1	N	D		S	850-491-5759	166.159.45.40	SR121, MACCLENNY-STL	192	5	33	2	16
233	1	N			S	850-766-9854	166.159.45.85	SR-21, MIDDLEBURG	192	5	44	4	16
234	1	N			S	850-408-2778	166.159.45.39	SR-349, OLD TOWN	192	5	44	2	16
235	1	N			S	850-491-5721	166.159.45.7	US-301, BALDWIN	192	5	22	4	16
236	1	N			S	850-728-0962	166.159.45.150	A1A, FT. GEORGE	192	5	44	2	16
237	1	N			S	850-491-0431	166.159.45.70	SR-51, MAYO	192	5	22	2	12
238	1	Y			S	850-445-5182	166.159.45.57	I-10, LIVE OAK	192	5	22	4	16
239	1	N			S	850-294-8681	166.159.45.231	SR-24, CEDAR KEY	192	5	22	2	16
240	1	N			S	850-294-8814	166.159.45.232	SR-20, HOLLISTER	192	5	22	4	16
241	1	N			S	850-728-3210	166.159.45.242	US-129, MCALPIN	192	5	44	2	16
242	1	N			S	850-274-7349	166.159.45.230	SR-247, BRANFORD	192	5	22	2	16
243	1	N	D		S	850-445-5446	166.159.45.238	SR97, ATMORE-AL STL	192	5	33	2	16
245	1	N			S	850-661-1679	166.159.45.212	SR-59, LLOYD	192	5	44	2	16
246	1	N			S	850-766-4930	166.159.45.104	SR-44 EUSTIS	192	5	44	2	16
247	1	Y	D		S	850-728-2839	166.159.46.108	SR-77, GRACEVILLE	192	5	33	2	16
248	1	N	D		S	850-766-9837	166.159.45.88	SR-2, BASCOM	192	5	33	2	16
249	1	N			S	850-445-5947	166.159.45.245	SR-464, OCALA	192	5	44	4	16
250	1	N			S	850-491-5748	166.159.45.31	SR-189,FT WALTON BCH	192	5	22	4	16
251	1	N			S	850-294-7758	166.159.45.237	US-90, HOLT	192	5	22	2	16
252	1	N			S	850-728-2847	166.159.46.122	SR-267,CRAWFORDVILLE	192	5	44	2	16
253	1	N			S	850-491-1994	166.159.45.208	SR-79, VERNON	192	5	44	2	16
254	1	Y	N	D	S	850-491-9076	166.159.45.209	SR-77, CHIPLEY	192	5	22	2	16

APPENDIX A - Continuous Count Stations

Site	Unit	RTP	Poll	Stat	Powr	Phone	IP Address	LOCATION	Baud	Prgm	MODEL	Lanes	Sensor
255	1	N			S	850-766-7243	166.159.45.111	SR-834,FT LAUDERDALE	192	5	22	6	16
256	1	N			S	850-766-2356	166.159.45.107	SR-818,FT LAUDERDALE	192	5	22	6	16
257	1	N			S	850-491-5131	166.159.45.5	SR-715, PALM BEACH	192	5	44	2	16
258	1	N			S	850-766-9909	166.159.45.113	SR-915 NB, MIAMI	192	5	44	2	16
258	2	N			S	850-294-8857	166.159.45.1	SR-915 SB, MIAMI	192	5	44	2	16
259	1	N			S	850-766-9845	166.159.45.82	A1A, JENSEN BCH	192	5	44	2	16
260	1	Y			S	850-491-5740	166.159.45.23	I-95, FT PIERCE - NB	192	5	22	5	16
260	2	Y			S	850-728-2854	166.159.46.123	I-95, FT PIERCE - SB	192	5	22	5	16
261	1	N	N	D	S	999-999-9999		US-98 GULF BREEZE	192	5	22	4	16
262	1	N			S	850-728-2842	166.159.46.111	SR-19, UMATILLA	192	5	22	2	16
263	1	N			S	850-728-0950	166.159.45.138	US-1, BUNNELL	192	5	44	4	16
264	1	N			S	850-728-0940	166.159.45.128	SR-40, OCALA	192	5	44	4	16
265	1	N			S	850-728-2857	166.159.46.126	US-192, KISSIMMEE	192	5	22	6	16
267	1	Y			S	850-491-5755	166.159.45.37	SR-821, MIAMI - NB	192	2	22	4	16
267	2	Y			S	850-491-5757	166.159.45.38	SR-821, MIAMI - SB	192	5	22	5	16
268	1	Y			S	850-491-5730	166.159.45.15	US-27, SOUTH BAY	192	5	22	4	16
269	1	N			S	850-766-9787	166.159.45.72	I-10, LAKE CITY	192	5	22	5	16
270	1	Y			S	850-294-6339	166.159.45.53	US-41, NAPLES	192	5	22	2	16
271	1	N			S	850-766-1327	166.159.45.99	SR-72, ARCADIA	192	5	22	2	16
272	1	N			S	850-766-9846	166.159.45.80	SR-78, MOORE HAVEN	192	2	22	2	16
273	1	N			S	850-728-2840	166.159.46.109	SR-31, FT. MYERS	192	5	44	2	16
274	1	N			S	850-766-9850	166.159.45.95	SR-37, LAKELAND	192	2	22	4	16
275	1	N			S	850-728-0963	166.159.45.151	SR-544, HAINES CITY	192	5	44	2	16
276	1	N			S	850-728-6722	166.159.46.136	SR-674, WIMAUMA	192	5	22	2	16
277	1	N			S	850-491-5739	166.159.45.22	SR-6, BLUE SPRINGS	192	5	22	2	16
278	1	N			S	850-445-5544	166.159.45.240	US-27A, CHIEFLAND	192	2	44	4	16
279	1	N			S	850-728-2843	166.159.46.112	US-90, MADISON	192	5	44	4	16
280	1	N			S	850-728-2048	166.159.45.194	US98, TAYLOR CO.	192	5	22	2	16
281	1	N	D		S	850-445-8287	166.159.45.247	SR-267 STATE LINE	192	5	33	2	16
282	1	N			S	850-728-2848	166.159.46.117	SR-296, PENSACOLA	192	5	44	4	16
283	1	N			S	850-728-8039	166.159.45.183	US-19, WEEKI WACHEE	192	5	22	4	16
284	1	N			S	850-728-0965	166.159.45.153	A1A, MELBOURNE	192	5	44	2	16
285	1	N	D		S	850-445-5802	166.159.45.241	SR-89, JAY	192	5	33	2	16
286	1	N			S	850-728-0942	166.159.45.130	US-441, LAKE CITY	192	5	44	4	16
289	1	N			S	850-661-3123	166.159.45.131	SR-76, STUART	192	5	46	2	16
291	1	N			S	850-728-5160	166.159.45.51	SR-A1A,INDIAN RIVER	192	5	22	2	16
292	1	Y			S	850-445-2878	166.159.45.58	I-95, BUNNELL	192	1	22	6	
294	1	N			S	850-728-0923	166.159.45.115	SR-45, BROOKSVILLE	192	5	44	2	16
295	1	N			S	850-728-0955	166.159.45.143	US 19, ST PETE	192	5	22	7	16
296	1	Y			S	850-491-5743	166.159.45.26	SR-369, CRAWFORDVILE	192	5	22	2	16
297	1	N			S	850-294-1720	166.159.45.225	SR-47, FT. WHITE	192	5	22	2	16
298	1	N			S	850-728-0943	166.159.45.84	US441, MARGATE	192	2	22	6	16
299	1	N			S	850-491-3373	166.159.45.173	SR-46, SANFORD	192	5	44	2	16
300	1	N			S	850-728-2851	166.159.46.120	SR-363, WOODVILLE	192	5	44	2	16
301	1	N	N	E	S	850-728-5342	166.159.45.199	SR-12, BRISTOL	192	5	22	2	16
302	1	N			S	850-728-0966	166.159.45.154	SR-686, NEAR LARGO	192	5	22	7	16
304	1	Y			S	850-728-2849	166.251.186.211	I-10, TALLAHASSEE	192	5	22	6	16
305	1	N			S	850-728-3385	166.159.45.244	US98, HATHAWAY BR.	192	5	22	7	16
306	1	N			S	850-766-9848	166.159.45.96	SR820, FT LAUDERDALE	192	5	44	4	16
308	1	N			S	850-491-5767	166.159.45.47	SR-77, PANAMA CITY	192	5	22	4	16
310	1	Y			S	850-445-4342	166.159.45.60	US-27, HAINES CITY	192	5	22	6	16
311	1	N			S	850-728-0944	166.159.45.132	US1, ST AUGUSTINE	192	5	22	6	16
312	1	N			S	850-294-2211	166.159.45.227	SR-20, JEFFERSON CO.	192	5	22	4	16
313	1	N			S	850-491-5769	166.159.45.49	SR-71, GULF CO.	192	5	22	2	16
314	1	N			S	850-491-3896	166.159.45.167	SR-5, VERO BEACH	192	5	22	4	16
315	1	N	N	E	S	850-294-2314	166.159.45.228	US-231, PANAMA CITY	192	5	22	4	16
316	1	N			S	850-766-9842	166.159.45.90	US-98, PORT ST. JOE	192	5	44	2	16
317	1	Y			S	850-491-5738	166.159.45.21	I-75,S OF OCALA	192	5	22	6	16
318	1	N			S	850-294-1632	166.159.45.224	I-10, CRESTVIEW	192	5	22	4	16
319	1	N			S	850-766-9849	166.159.45.97	US-17,BOWLING GREEN	192	5	44	4	16
320	1	Y			S	850-491-5736	166.159.45.19	I75, N. LAKE CITY	192	5	22	6	16
321	1	N			S	850-445-8150	166.159.45.246	SR-582, TAMPA	192	5	22	8	16
322	1	Y			S	850-728-2833	166.159.46.102	I-95, TITUSVILLE	192	5	22	6	16
323	1	N			S	850-728-0946	166.159.45.134	SR-121 GAINESVILLE	192	5	22	6	16
324	1	N			S	850-728-0961	166.159.45.149	SR-44 LACANTO	192	5	44	4	16
325	1	N			S	850-491-5762	166.159.45.43	US-98, STATE LINE	192	5	33	2	16
327	1	Y			S	850-728-2850	166.159.46.119	SR-25/US-27, VENUS	192	5	22	4	16
328	1	Y			S	850-491-9109	166.159.45.211	SR-71, WEWAHITCHKA	192	5	22	2	16
329	1	N			S	850-728-2859	166.159.46.128	SR-A1A, ST.AUGUSTINE	192	5	44	4	16

APPENDIX A - Continuous Count Stations

Site	Unit	RTP	Poll	Stat	Powr	Phone	IP Address	LOCATION	Baud	Prgm	MODEL	Lanes	Sensor
330	1	N			S	850-728-3607	166.159.45.248	SR-4, MUNSON	192	5	22	2	16
331	1	Y			S	850-491-5745	166.159.45.28	I95, HALLANDALE-NB	192	5	22	7	16
331	2	Y			S	850-728-2828	166.159.46.1	I95, HALLANDALE-SB	192	5	22	7	16
332	1	N			S	850-766-7666	166.159.45.110	SR-5/US-1,STUART	192	5	22	6	16
333	1	N			S	850-728-0948	166.159.45.136	SR-70, BRADENTON	192	5	22	6	16
334	1	Y			S	850-491-1314	166.159.45.204	I-95, STUART	192	5	22	6	16
335	1	N			S	850-766-9870	166.159.45.68	SR-100, FLAGLER BCH.	192	5	22	4	16
337	1	N			S	850-491-5751	166.159.45.34	SR71,N BLOUNTSTOWN	192	5	44	2	16
343	1	Y	D		S	850-491-5722	166.159.45.8	I-4,NEAR LONGWOOD	192	5	33	6	16
344	1	N			S	850-294-1437	166.159.45.223	US 90, CHIPLEY	192	5	44	2	16
345	1	N			S	850-728-2861	166.159.46.130	SR-507, MELBOURNE	192	5	44	4	16
348	1	Y	D		S	850-491-9150	166.159.45.127	US-29, ESCAMBIA CO.	192	5	33	4	16
349	1	Y			S	850-728-0949	166.159.45.137	SR-61/US-319,LEON CO	192	5	22	5	16
350	1	Y			S	850-728-2863	166.159.46.132	I-75,PUNTA GORDA	192	5	22	6	16
351	1	Y			S	850-728-4304	166.159.45.196	I75, NAPLES	192	5	22	6	16
356	1	N	D		S	850-510-0820	166.159.45.61	SR-85,LAUREL HILL	192	5	33	2	16
357	1	Y			S	850-491-5139	166.159.45.6	I-75, BROWARD CO	192	5	22	6	16
358	1	Y			S	850-728-2852	166.251.186.203	I-75, BUSHNELL	192	5	44	6	16
359	1	Y	D		S	850-363-0752	166.159.45.236	US-231, FOUNTAIN	192	5	33	4	16
360	1	N			S	850-766-2168	166.159.45.100	SR-13, ST. JOHNS CO.	192	5	44	2	16
360	2	N			S	850-766-0488	166.159.45.101	SR-13, ST. JOHNS CO.	192	5	44	2	16
361	1	Y			S	850-445-3908	166.159.45.3	I75, North Port	192	5	22	8	16
362	1	N			S	850-766-9852	166.159.45.91	I-75 NB, MIRAMAR	192	2	22	6	16
362	2	N	N	D	S	999-999-9999		I-75 SB, MIRAMAR	192	5	22	5	16
364	1	N			S	850-294-9097	166.159.45.226	SR-2, GRACEVILLE	192	5	44	2	16
365	1	N			S	850-728-5016	166.159.45.197	SR-69, SELMAN	192	5	44	2	16
366	1	N			S	850-491-9163	166.159.45.215	I-10, WALTON CO.	192	5	22	4	16
367	1	N	N	D	S	850-728-6221	166.166.53.55	US-41, PUNTA GORDA	192	5	22	4	16
368	1	N			S	850-445-9688	166.159.45.177	I-110, PENSACOLA	192	5	22	8	16
369	1	N	N	D	S	850-294-6316	166.159.45.162	SR-65, EASTPOINT	192	5	22	2	16
370	1	N			S	850-491-5737	166.159.45.20	SR-528 COCOA	192	5	22	4	16
371	1	N	N	T	S	999-999-9999		TEST SITE NEAR 0304	192	5	22	4	16
372	1	N			S	850-445-7339	166.159.45.216	SR-580 HILLS AVE TPA	192	1	22	6	16
373	1	N			S	850-766-2398	166.159.45.170	US 41 - TAMPA	192	2	22	7	16
374	1	N			S	850-728-2835	166.159.46.104	SR-5, MARTIN COUNTY	192	5	22	4	16
375	1	N	D		S	850-728-2829	166.159.46.98	I-10, MONTICELLO	192	5	33	4	16
376	1	N	D		S	850-766-9837	166.159.45.125	US-319, TALLAHASSEE	192	5	33	6	16
380	1	N			S	850-510-0753	166.159.45.190	I-595,EB BROWARD	192	5	22	4	16
380	2	N			S	850-510-0998	166.159.45.191	I-595 WB BROWARD	192	5	22	5	16
381	1	N			S	850-510-9730	166.159.45.192	I-595 EXPRESS	192	5	22	6	16
382	1	N	N	D	S	850-728-3908	166.159.45.92	SR-887 PORT TUNNEL	192	5	22	4	16
382	2	N			S	850-766-4581	166.159.45.103	SR-887 PORT TUNNEL	192	1	22	2	16
383	1	N			S	850-766-9908	166.159.45.108	US-41 MIAMI	192	5	22	4	16
384	1	N			S	850-294-4491	166.159.45.205	SR-858 HALLANDALE-EB	192	5	22	3	16
384	2	N			S	850-766-9867	166.159.45.98	SR-858 HALLANDALE WB	192	5	22	3	16
385	1	N			S	850-766-9847	166.159.45.77	SR-30, FT. WALTON BE	192	5	22	4	16
398	1	N			S	850-728-2856	166.166.53.61	SR-87, MILTON	192	5	22	4	16
403	1	N			S	850-728-0951	166.159.45.139	TPK, HOLLYWOOD-NB	192	5	22	3	16
403	2	N			S	850-728-0952	166.159.45.140	TPK, HOLLYWOOD-SB	192	5	22	3	16
406	1	Y			S	850-766-9840	166.159.45.93	SR-589, BROOKSVILLE	192	5	22	4	16
407	1	N			S	850-728-0956	166.159.45.144	SR-570, LAKELAND	192	5	22	4	16
413	1	Y			S	850-491-5778	166.159.45.175	TPK - NB DELRAY BCH	192	5	22	3	16
413	2	Y			S	850-274-0045	166.159.45.176	TPK - SB DELRAY BCH	192	5	22	3	16
416	1	N	N	D	S	850-728-2841	166.159.46.110	TPK,PALM BCH GDNS-NB	192	5	22	3	16
416	2	N	N	D	S	850-728-8033	166.159.45.179	TPK,PALM BCH GDNS-SB	192	5	22	2	16
417	1	Y			S	850-445-1748	166.159.45.59	TPK, JUPITER-NB	192	5	22	2	16
417	2	Y			S	850-491-5729	166.159.45.14	TPK, JUPITER-SB	192	5	22	2	16
421	1	Y			S	850-491-4645	166.159.45.159	TPK, FT. PIERCE	192	5	22	4	16
428	1	Y			S	850-491-5731	166.159.45.16	TPK, WINTER GARDEN	192	1	22	4	16
430	1	N			S	850-728-2841	166.159.46.110	SR-821, HOMESTEAD	192	5	44	4	16
9900	1	N	N	T		850-491-4638	166.159.45.160	US-319, TALLAHASSEE	192	4	57		
9900	2	N	N	T		850-728-2863	166.159.46.132	US-319	192	4	34	1	
9902	1	N			S	850-491-4340	166.159.46.125	I-10, MADISON	192	4	57	4	16
9904	1	Y	D		S	850-363-7252	166.155.201.132	I75, MICANOPY	192	4	34	7	16
9905	1	N	D		S	850-544-7074	166.159.45.200	SR9/I95,JACKSONVILLE	192	4	34	6	12
9906	1	N	D		S	850-294-6744	166.159.45.62	I-4, DELTONA	192	4	34	6	10
9907	1	N	N	T	S	850-728-2831	166.166.53.57	US231, YOUNGSTOWN	192	4	34	5	10
9909	1	N			S	850-728-2837	166.251.186.200	US-19, CHIEFLAND	192	4	57	4	12
9913	1	N	D		S	850-728-8097	166.159.45.243	TPK, ST.LUCIE CO.	192	4	34	4	10

APPENDIX A - Continuous Count Stations

Site	Unit	RTP	Poll	Stat	Powr	Phone	IP Address	LOCATION	Baud	Prgm	MODEL	Lanes	Sensor
9914	1	N			S	850-728-5204	166.251.186.196	SR-9A/I-295,DUVAL CO	192	4	57	4	12
9916	1	N	N	D	S	850-728-2832	166.166.53.52	US29, PENSACOLA	192	4	57	4	16
9918	1	N	D		S	850-728-2834	166.251.186.199	US-27, CLEWISTON	192	4	34	4	10
9919	1	N			S	850-661-4546	166.251.186.195	I-95, COCOA	192	1	57	6	14
9920	1	N	N	D	S	999-999-9999		I-75, SUMTER CO.	192	4	57	4	12
9923	1	N			S	850-728-8064	166.251.186.205	I-95, JACKSONVILLE	192	4	57	6	10
9925	1	N			S	850-728-2104	166.251.186.197	US-92, DELAND	192	4	57	4	16
9927	1	N	N	E	S	850-728-3463	166.251.186.206	SR-546, LAKELAND	192	4	44	4	16
9929	1	N			S	850-728-8033	166.159.45.179	US-1, EDGEWATER	192	4	57	4	16
9931	1	N			S	850-728-5387	166.251.186.198	TRNPK, SUMTER CO	192	4	57	4	16
9933	1	N			S	850-728-3869	166.251.186.192	SAWGRASS EXP,BROWARD	192	4	57	6	10
9934	1	N	N	E	S	850-728-2867	166.159.46.100	HEFT -MIAMI	192	1	57	7	16
9936	1	N	D		S	850-728-5437	166.251.186.207	I-10, LAKE CITY	192	4	34	5	16
9940	1	N	N	D	S	850-728-8052	166.166.53.58	SR-267, QUINCY	192	4	57	4	16
9943	1	N	N	E	S	850-445-5886	166.166.53.59	SR-10/US-90,CYPRESS	192	4	34	2	12
9947	1	N			S	850-728-2853	166.251.186.204	US-27 HIALEAH	192	4	57	6	16
9948	1	N			S	850-728-8037	166.251.186.201	US 27 LAKE WALES	192	4	57	5	16
9949	1	N	D		S	850-375-7480	166.166.53.60	I-10, PENSACOLA	192	4	34	4	16
9950	1	N			S	850-363-2366	166.159.45.25	I-75, NAPLES	192	4	57	6	14
9951	1	N	D		S	850-491-1866	166.159.45.186	I-4, POLK CITY	192	4	34	6	16
9952	1	N			S	850-766-9910	166.251.186.194	I-95 PALM BEACH CNTY	192	4	57	4	16
9952	2	N			S	850-766-8058	166.159.46.101	I-95 PALM BEACH CNTY	192	4	57	5	16
9953	1	N			S	850-728-0173	166.251.186.209	I-75, TAMPA NB	192	4	57	5	16
9953	2	N	D		S	850-766-8058	166.159.46.99	I-75, TAMPA SB	192	4	34	4	16
9955	1	N			S	850-728-8042	166.159.45.185	I-275, TAMPA	192	4	57	6	16
9956	1	N	D		S	850-728-2862	166.166.53.53	I-75, JASPER	192	4	34	6	16
9957	1	N	D		S	850-728-8096	166.159.45.210	SR-77 S GRACEVILLE	196	4	34	2	16
9958	1	Y	D		S	850-728-5515	166.159.45.202	I-10, DEFUNIAK SPRNG	192	4	34	4	16
9959	1	Y	D		S	850-294-2379	166.159.45.229	US-331,ALABAMA LINE	192	4	34	2	16
9960	1	Y	D		S	850-491-5761	166.159.45.42	SR-528, TITUSVILLE	192	4	34	4	16
9961	1	Y	D		S	850-491-5728	166.159.45.13	TURNPIKE, ST. CLOUD	192	4	34	4	16
9962	1	Y	D		S	850-491-5689	166.159.45.156	I-4, PLANT CITY	192	4	34	6	16
9963	1	Y	D		S	850-491-5735	166.159.45.18	US-301, WALDO	192	4	34	4	16

APPENDIX B
MATERIAL SAFETY DATA SHEET
Section I – PRODUCT IDENTIFICATION

PRODUCT NAME AND SYNONYMS:

CAS NAME AND NO:

CHEMICAL FAMILY:

CHEMICAL FORMULA:

MANUFACTURER'S NAME & ADDRESS:

EMERGENCY TELEPHONE NUMBER:

Section II – HAZARDOUS INGREDIENTS

COMPONENT % (WT OR VOL) ACCIH TWA ACCIH STEL OSHA PEL

Section III – HAZARDOUS INGREDIENTS

APPEARANCE AND ODOR:

MOLECULAR WEIGHT:

BOILING POINT (°F):

MELTING POINT (°F):

VAPOR PRESSURE (mmHg):

SPECIFIC GRAVITY (water=1):

VAPOR DENSITY (air=1):

PERCENT VOLATILE (by weight):

pH:

SOLUBILITY IN WATER:

EVAPORATION RATE (Butyl Acetate=1):

Section IV – FIRE AND EXPLOSION DATA

FLASH POINT:

FIRE EXTINGUISHING MEDIA:

FLAMMABLE LIMITS (% by volume):

SPECIAL FIRE FIGHTING PROCEDURES & EQUIPMENT:

Section V – REACTIVE DATA

STABILITY:

CONDITIONS TO AVOID:

INCOMPATIBILITY (MATERIALS TO AVOID):

HAZARDOUS DECOMPOSITION PRODUCTS:

HAZARDOUS POLYMERIZATION:

Section VI – HEALTH HAZARD INFORMATION

EFFECTS OF OVEREXPOSURE:

PROBABLE ROUTES OF EXPOSURE:

EMERGENCY AND FIRST AID PROCEDURES:

INGESTION:

INHALATION:

EYE CONTACT:

SKIN CONTACT:

Section VII – TOXCITY DATA

ORAL:

DERMAL:

INHALATION:

MSDS

Page 2 of 4

[Company]

CARCINOGENICITY:

OTHER PERTINENT DATA:

Section VIII – SPECIAL PROTECTION INFORMATION

PERSONAL PROTECTIVE EQUIPMENT:

PROTECTIVE GLOVES:

EYE PROTECTION:

RESPIRATORY PROTECTION:

OTHER PROTECTIVE EQUIPMENT:

VENTILATION:

LOCAL EXHAUST:

MECHANICAL:

SPECIAL:

OTHER:

Section IX – SPILL, LEAK AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

WASTE DISPOSAL METHODS:

CLEAN WATER ACT REQUIREMENTS:

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) REQUIREMENTS:

Section X – REGULATORY INFORMATION

FDA:

USDA:

CPSC:

TSCA:

DOT:

PROPER SHIPPING NAME:

MSDS

HAZARDOUS CLASS:

LABEL REQUIRED:

IDENTIFICATION NUMBER:

OTHER PERTINENT INFORMATION:

Section XI – Special Precautions and Comments

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

OTHER PRECATUIONS:

REGISTRATIONS/CERTIFICATIONS:

EFFECTIVE DATE:

SUPERSEDES:

IMPORTANT: The information and data herein are believed to be accurate and have been compiled from sources believed to be reliable. It is offered for your consideration, investigation and verification. Buyer assumes all risk of use, storage and handling of the product in compliance with applicable federal, state and local laws and regulations. Friendly Environmental MAKES NO WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED, CONCERNING THE ACCURACY OR COMPLETENESS OF THE INFORMATION AND DATA HEREIN. Friendly Environmental will not be liable for claims relating to any party's use of or reliance on information and data contained herein regardless of whether it is claimed that the information and data are inaccurate, incomplete or otherwise misleading.

APPENDIX C - TRAFFIC MONITORING INSPECTION SHEET (FDOT)

Date Technician Certified
 Speed Counts Classification Weight

Site Unit Latitude Longitude
 Speed Limit N/E S/W Warning Sign Installed
 Camera Bluetooth Temp Sensor Reading Ohms

Equipment Type NH Number Serial Number
 Firmware 2nd NH

Modem Type IP Operational
 Firmware IMEI SIM
 RSSI RSRP

Number of Lanes Loop Sealant
 Sensor Configuration Piezo Sealant
 Sensor Mount Loop Length ft. in.
 Piezo Type Sensor Spacing ft. in.

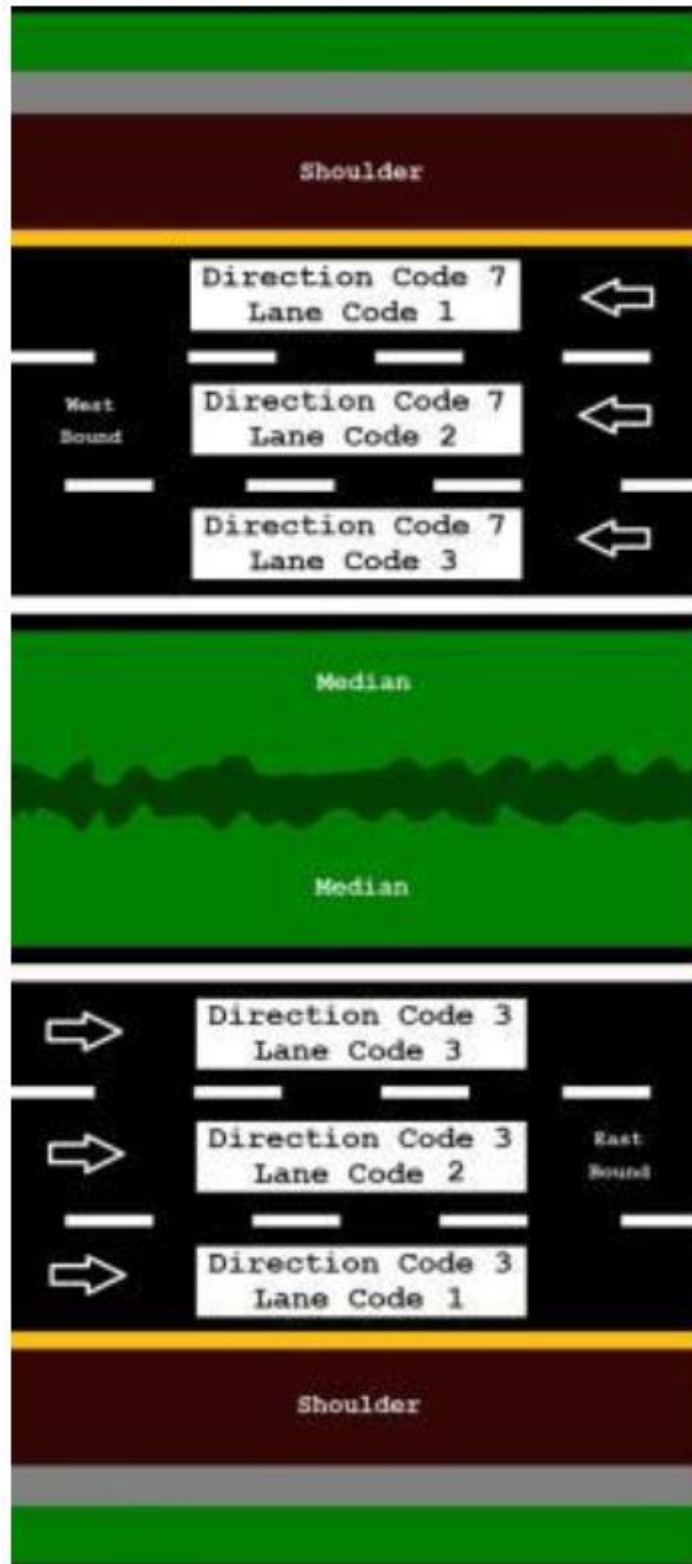
Power Number of solar panels Total Wattage
 Solar Output Voltage Solar Output Amperage Solar Regulator Output Voltage
 Total # of Batteries Battery Voltage (under load) Sun Cond

Mast Type Cabinet Type Cabinet Mount
 Universal Harness Backplane

Power <input type="text"/>	Lane relation	Lane 1 <input type="text"/>	Lane 5 <input type="text"/>
Piezo Sensor <input type="text"/>		Lane 2 <input type="text"/>	Lane 6 <input type="text"/>
Loop Sensor <input type="text"/>		Lane 3 <input type="text"/>	Lane 7 <input type="text"/>
Weigh Pad <input type="text"/>		Lane 4 <input type="text"/>	Lane 8 <input type="text"/>

APPENDIX D

DIRECTION AND LANE CODE EXAMPLE



Source: Federal Highway Administration.

TERMS FOR FEDERAL AID CONTRACTS (APPENDIX I):

CONTRACT # _____

During the performance of this contract, the contractor, for itself, its assignees and successors in interest (hereinafter referred to as the "Contractor") agrees as follows:

- A. It is understood and agreed that all rights of the Department relating to inspection, review, approval, patents, copyrights, and audit of the work, tracing, plans, specifications, maps, data, and cost records relating to this Agreement shall also be reserved and held by authorized representatives of the United States of America.
- B. It is understood and agreed that, in order to permit federal participation, no supplemental agreement of any nature may be entered into by the parties hereto with regard to the work to be performed hereunder without the approval of U.S.D.O.T., anything to the contrary in this Agreement notwithstanding.
- C. **Compliance with Regulations:** The Contractor shall comply with the Regulations relative to nondiscrimination in Federally-assisted programs of the U.S. Department of Transportation (hereinafter, "USDOT") Title 49, Code of Federal Regulations, Part 21, as they may be amended from time to time, (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this Agreement.
- D. **Nondiscrimination:** The Contractor, with regard to the work performed during the contract, shall not discriminate on the basis of race, color, national origin, sex, age, disability, religion or family status in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The Contractor shall not participate either directly or indirectly in the discrimination prohibited by section 21.5 of the Regulations, including employment practices when the contract covers a program set forth in Appendix B of the Regulations.
- E. **Solicitations for Subcontractors, including Procurements of Materials and Equipment:** In all solicitations made by the Contractor, either by competitive bidding or negotiation for work to be performed under a subcontract, including procurements of materials or leases of equipment; each potential subcontractor or supplier shall be notified by the Contractor of the Contractor's obligations under this contract and the Regulations relative to nondiscrimination on the basis of race, color, national origin, sex, age, disability, religion or family status.
- F. **Information and Reports:** The Contractor shall provide all information and reports required by the Regulations or directives issued pursuant thereto, and shall permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Florida Department of Transportation, the Federal Highway Administration, Federal Transit Administration, Federal Aviation Administration, and/or the Federal Motor Carrier Safety Administration to be pertinent to ascertain compliance with such Regulations, orders and instructions. Where any information required of a Contractor is in the exclusive possession of another who fails or refuses to furnish this information the Contractor shall so certify to the Florida Department of Transportation, the Federal Highway Administration, Federal Transit Administration, Federal Aviation Administration, and/or the Federal Motor Carrier Safety Administration as appropriate, and shall set forth what efforts it has made to obtain the information.
- G. **Sanctions for Noncompliance:** In the event of the Contractor's noncompliance with the nondiscrimination provisions of this contract, the Florida Department of Transportation shall impose such contract sanctions as it or the Federal Highway Administration, Federal Transit Administration, Federal Aviation Administration, and/or the Federal Motor Carrier Safety Administration may determine to be appropriate, including, but not limited to:
 - a. withholding of payments to the Contractor under the contract until the Contractor complies, and/or
 - b. cancellation, termination or suspension of the contract, in whole or in part.
- H. **Incorporation of Provisions:** The Contractor shall include the provisions of paragraphs (C) through (I) in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Regulations, or directives issued pursuant thereto. The Contractor shall take such action with respect to any subcontract or procurement as the Florida Department of Transportation, the Federal Highway Administration, Federal Transit Administration, Federal Aviation Administration, and/or the Federal Motor Carrier Safety Administration may direct as a means of enforcing such provisions including sanctions for noncompliance. In the event a Contractor becomes involved in, or is threatened with, litigation with a sub-contractor or supplier as a result of such direction, the Contractor may request the Florida Department of Transportation to enter into such litigation to protect the interests of the Florida Department of Transportation, and, in addition, the Contractor may request the United States to enter into such litigation to protect the interests of the United States.
- I. **Compliance with Nondiscrimination Statutes and Authorities:** Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d et seq., 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin); and 49 CFR Part 21; The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects); Federal-Aid Highway Act of 1973, (23 U.S.C. § 324 et seq.), (prohibits discrimination on the basis of sex); Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 et seq.), as amended, (prohibits discrimination on the basis of disability); and 49 CFR Part 27; The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 et seq.), (prohibits discrimination on the basis of age); Airport and Airway Improvement Act of 1982, (49 USC § 471, Section 47123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex);

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
**BID OPPORTUNITY LIST FOR COMMODITIES & CONTRACTUAL
SERVICES**

375-040-62
PROCUREMENT
01/16

Prime Contractor: _____

Address/Phone Number: _____

Procurement Number: _____

49 CFR Part 26.11 The list is intended to be a listing of all firms that are participating, or attempting to participate, on DOT-assisted contracts. The list must include all firms that bid on prime contracts, or bid or quote subcontracts and supplies materials on DOT-assisted projects, including both DBEs and non-DBEs. For consulting companies this list must include all subcontractors contacting you and expressing an interest in teaming with you on a specific DOT-assisted project. Prime contractors and consultants must provide information for Numbers 1, 2, 3 and 4, and should provide any information they have available on Numbers 5, 6, and 7 for themselves, and their subcontractors.

1. Federal Tax ID Number: _____	6. <input type="checkbox"/> DBE	7. Annual Gross Receipts
2. Firm Name: _____	<input type="checkbox"/> Non-DBE	<input type="checkbox"/> Less than \$1 million
3. Phone: _____		<input type="checkbox"/> Between \$1 - \$5 million
4. Address: _____		<input type="checkbox"/> Between \$5 - \$10 million
_____		<input type="checkbox"/> Between \$10 - \$15 million
_____		<input type="checkbox"/> More than \$15 million
5. Year Firm Established: _____		

1. Federal Tax ID Number: _____	6. <input type="checkbox"/> DBE	7. Annual Gross Receipts
2. Firm Name: _____	<input type="checkbox"/> Non-DBE	<input type="checkbox"/> Less than \$1 million
3. Phone: _____		<input type="checkbox"/> Between \$1 - \$5 million
4. Address: _____		<input type="checkbox"/> Between \$5 - \$10 million
_____		<input type="checkbox"/> Between \$10 - \$15 million
_____		<input type="checkbox"/> More than \$15 million
5. Year Firm Established: _____		

1. Federal Tax ID Number: _____	6. <input type="checkbox"/> DBE	7. Annual Gross Receipts
2. Firm Name: _____	<input type="checkbox"/> Non-DBE	<input type="checkbox"/> Less than \$1 million
3. Phone: _____		<input type="checkbox"/> Between \$1 - \$5 million
4. Address: _____		<input type="checkbox"/> Between \$5 - \$10 million
_____		<input type="checkbox"/> Between \$10 - \$15 million
_____		<input type="checkbox"/> More than \$15 million
5. Year Firm Established: _____		

1. Federal Tax ID Number: _____	6. <input type="checkbox"/> DBE	7. Annual Gross Receipts
2. Firm Name: _____	<input type="checkbox"/> Non-DBE	<input type="checkbox"/> Less than \$1 million
3. Phone: _____		<input type="checkbox"/> Between \$1 - \$5 million
4. Address: _____		<input type="checkbox"/> Between \$5 - \$10 million
_____		<input type="checkbox"/> Between \$10 - \$15 million
_____		<input type="checkbox"/> More than \$15 million
5. Year Firm Established: _____		

**AS APPLICABLE, PLEASE SUBMIT THIS FORM WITH YOUR: BID SHEET (Invitation to Bid - ITB)
PRICE PROPOSAL (Request for Proposal - RFP)
REPLY (Invitation to Negotiate - ITN)**

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
ANTICIPATED DBE PARTICIPATION STATEMENT

375-040-63
PROCUREMENT
02/07

The Prime contractor is encouraged to complete this form and submit this form with your bid/price proposal/reply. Submission of this form is not mandatory.

Procurement Number: _____

Contractor's Name: _____

Contractor's FEID Number: _____

Is the prime contractor a Florida Department of Transportation Certified Disadvantaged Business Enterprise (DBE)?
(yes) (no)

Expected amount of contract dollars to be subcontracted to DBE(s): \$ _____

OR

It is our intent to subcontract _____ % of the contract dollars to DBE(s). Listed below are the proposed DBE sub-contractors:

<u>DBE (s) Name</u>	<u>Type of Work/Specialty</u>	<u>Dollar Amount/Percentage</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Submitted by: _____ Title: _____
(Type or Print)

Date: _____

Note: This information is used to track and report anticipated DBE participation in FDOT contracts. The anticipated DBE amount will not become part of the contractual terms.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
**VENDOR CERTIFICATION REGARDING
SCRUTINIZED COMPANIES LISTS**

Florida Statutes

287.135

Respondent Vendor Name: _____

Vendor FEIN: _____

Vendor's Authorized Representative Name and Title: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone Number: _____

Email Address: _____

Section 287.135, F.S. prohibits a company from bidding on, submitting a proposal for, or entering into or renewing a contract for goods or services of any amount if the company is on the Scrutinized Companies that Boycott Israel List, created pursuant to Section 215.475, F.S. or is engaged in a boycott of Israel. Section 287.135, F.S. also prohibits a company from bidding on, submitting a proposal for, or entering into or renewing a contract for goods or services of \$1,000,000 or more, if the company is on either the Scrutinized Companies with Activities in Sudan List, or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector Lists which are created pursuant to s. 215.473, F.S.

As the person authorized to sign on behalf of Respondent, I hereby certify that the company identified above in the section entitled "Respondent Vendor Name" is not listed on either the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List. I further certify that the company is not engaged in a boycott of Israel. I understand that pursuant to section 287.135, Florida Statutes, the submission of a false certification may subject company to civil penalties, attorney's fees, and/or costs.

Certified By: _____

who is authorized to sign on behalf of the above referenced company.

Authorized Signature Print Name and Title: _____

Date: _____

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
DRUG-FREE WORKPLACE PROGRAM CERTIFICATION

375-040-18
PROCUREMENT
03/17

287.087 Preference to businesses with drug-free workplace programs. --Whenever two or more bids, proposals, or replies that are equal with respect to price, quality, and service are received by the state or by any political subdivision for the procurement of commodities or contractual services, a bid, proposal, or reply received from a business that certifies that it has implemented a drug-free workplace program shall be given preference in the award process. In order to have a drug-free workplace program, a business shall:

(1) Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.

(2) Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.

(3) Give each employee engaged in providing the commodities or contractual services that are under bid a copy of the statement specified in subsection (1).

(4) In the statement specified in subsection (1), notify the employees that, as a condition of working on the commodities or contractual services that are under bid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of Chapter 893 or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than 5 days after such conviction.

(5) Impose a sanction on, or require the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community by, any employee who is so convicted.

(6) Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section.

Does the individual responding to this solicitation certify that their firm has implemented a drug-free workplace program in accordance with the provision of Section 287.087, Florida Statutes, as stated above?

YES

NO

NAME OF BUSINESS: _____

The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms "programs or activities" to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not); Titles II and III of the Americans with Disabilities Act, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131 -- 12189) as implemented by Department of Transportation regulations at 49 C.F.R. parts 37 and 38; The Federal Aviation Administration's Non-discrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex); Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures non-discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations; Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100); Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. 1681 et seq).

- J. Interest of Members of Congress: No member of or delegate to the Congress of the United States shall be admitted to any share or part of this contract or to any benefit arising there from.
- K. Interest of Public Officials: No member, officer, or employee of the public body or of a local public body during his tenure or for one year thereafter shall have any interest, direct or indirect, in this contract or the proceeds thereof. For purposes of this provision, public body shall include municipalities and other political subdivisions of States; and public corporations, boards, and commissions established under the laws of any State.
- L. Participation by Disadvantaged Business Enterprises: The Contractor shall agree to abide by the following statement from 49 CFR 26.13(b). This statement shall be included in all subsequent agreements between the Contractor and any sub-Contractor or contractor.

The contractor, sub recipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the recipient deems appropriate.

- M. It is mutually understood and agreed that the willful falsification, distortion or misrepresentation with respect to any facts related to the project(s) described in this Agreement is a violation of the Federal Law. Accordingly, United States Code, Title 18, Section 1020, is hereby incorporated by reference and made a part of this Agreement.
- N. It is understood and agreed that if the Contractor at any time learns that the certification it provided the Department in compliance with 49 CFR, Section 26.51, was erroneous when submitted or has become erroneous by reason of changed circumstances, the Contractor shall provide immediate written notice to the Department. It is further agreed that the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transaction" as set forth in 49 CFR, Section 29.510, shall be included by the Contractor in all lower tier covered transactions and in all aforementioned federal regulation.
- O. The Department hereby certifies that neither the Contractor nor the Contractor's representative has been required by the Department, directly or indirectly as an express or implied condition in connection with obtaining or carrying out this contract, to
 - 1. employ or retain, or agree to employ or retain, any firm or person, or
 - 2. pay, or agree to pay, to any firm, person, or organization, any fee, contribution, donation, or consideration of any kind;

The Department further acknowledges that this agreement will be furnished to a federal agency, in connection with this contract involving participation of Federal-Aid funds, and is subject to applicable State and Federal Laws, both criminal and civil.

- P. The Contractor hereby certifies that it has not:
 - 1. employed or retained for a commission, percentage, brokerage, contingent fee, or other consideration, any firm or person (other than a bona fide employee working solely for me or the above contractor) to solicit or secure this contract;
 - 2. agreed, as an express or implied condition for obtaining this contract, to employ or retain the services of any firm or person in connection with carrying out this contract; or
 - 3. paid, or agreed to pay, to any firm, organization or person (other than a bona fide employee working solely for me or the above contractor) any fee contribution, donation, or consideration of any kind for, or in

connection with, procuring or carrying out the contract.

The Contractor further acknowledges that this agreement will be furnished to the State of Florida Department of Transportation and a federal agency in connection with this contract involving participation of Federal-Aid funds, and is subject to applicable State and Federal Laws, both criminal and civil.

- Q. Federal-aid projects for highway construction shall comply with the Buy America provisions of 23 CFR 635.410, as amended.
- R. Except as otherwise provided under 41 CFR Part 60, all contracts that meet the definition of federally assisted construction contract" in 41 CFR Part 60-1.3 shall comply with the equal opportunity clause provided under 41 CFR 60-1.4(b), in accordance with Executive Order 11246, "Equal Employment Opportunity" (30 FR 12319, 12935, 3 CFR Part, 1964-1965 Comp., p. 339), as amended by Executive Order 11375, "Amending Executive Order 11246 Relating to Equal Employment Opportunity," and implementing regulations at 41 CFR part 60, "Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor."

Check off each the following:

- 1. The Scope of Services, Exhibit “A”, has been thoroughly reviewed for compliance to the RFP requirements.
- 2. The Technical Proposal (one (1) original and the specified number of copies) has been completed, as specified, and enclosed in the RFP response.
- 3. The Price Proposal has been completed, as specified, and enclosed in the RFP response.
- 4. All Appendices have been reviewed.
- 5. The “Bid Opportunity List” and the “DBE Participation Statement” form has been read, completed, and enclosed in the RFP response, if applicable.
- 6. “Scrutinized Companies Lists” certification form has been read, signed, and enclosed in the RFP price proposal.
- 7. The Federal Employers Identification Number has been entered in the space provided.
- 8. The “Drug-Free Workplace Program Certification” form has been read, signed, and enclosed in the RFP response, if applicable.
- 9. The www.myflorida.com website has been checked and any Addendums posted have been completed, signed, and included in the RFP response.
- 10. The RFP response must be received, at the location specified, **on or before** the Opening Date and Time designated in the RFP.
- 11. On the Lower Left Hand Corner of the Envelope transmitting your RFP response, write in the following information:
RFP No.: DOT-RFP-19-9075-GH

Title: TMS Installation and Maintenance Services

Opening Date & Time: See “TIMELINE” in INTRODUCTION SECTION