



**PROCUREMENT OFFICE**  
**Current Design/Build and Special Advertisements**

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Updated: 13DEC2011

**Florida Department Of Transportation**  
**Notice To Contractors / Consultants:**

The Department of Transportation (Department) is soliciting contracting and consulting services for the Design/Build projects identified below.

**QUALIFICATION REQUIREMENTS:** Design-Build firms must be qualified in accordance with Rule Chapter 14-91, Florida Administrative Code. Design-Build firms shall satisfy the technical qualification requirements of Rule 14-75, and all qualification requirements of Rule Chapter 14-22, Florida Administrative Code. The Contractor or Joint Venture members collectively, must be qualified in the advertised Construction Contractor Work Classes. The Contractor or Joint Venture cannot utilize subcontractors to meet the qualification requirements for the Construction Work Classes. The Design Consultant may utilize sub-consultants to meet the advertised Professional Services Work Type requirements. All qualification requirements must be met prior to the Response Deadline. Two or more qualified parties submitting as a Joint Venture must meet the Joint Venture requirements of Rule Chapter 14-22, specifically Rule 14-22.007, Florida Administrative Code. Parties to a joint venture must submit a Declaration of Joint Venture, Form No. 375-020-18, and receive approval from the Department prior to the Response Deadline for expanded letters of interest (ELOI) or submittal of proposal, whichever occurs first.

**CONSULTANT ELIGIBILITY:** It is a basic tenet of the Department's contracting program that contracts are procured in a fair, open, and competitive manner. The Department requires that consultants representing the Department must be free of conflicting professional or personal interests. In order to prevent potential conflicts of interest, the Department has established guidelines to be followed by design consultants. Please familiarize yourself with the requirements of Procedure No. 375-030-006, also known as: "Restriction on Consultants' Eligibility to Compete for Department Contracts." By submitting an ELOI or bid/Price Proposal as part of a Design-Build firm, or Joint Venture, the design consultant certifies that they are in compliance with Procedure No. 37-030-006. This procedure is available at the following link:

<http://www.dot.state.fl.us/procurement/pubs/pubsmenu.shtm>

A Proposal Guaranty of not less than five percent (5%) of the total actual bid/Price

Proposal in the form of either a certified check, cashier's check, trust company treasurer's check, bank draft of any national or state bank, or a Surety Bond made payable to the Florida Department of Transportation must accompany each bid/Price Proposal in excess of \$150,000. A check or draft in any amount less than five percent (5%) of the actual bid will invalidate the bid. Bid bonds shall conform to DOT Form No. 375-020-34 and must be furnished with the bid/Price Proposal.

For those projects designated as **ADJUSTED SCORE TYPE**, the Department will conduct a two-phase design-build procurement process. For Phase I, qualified Design-Build firms must submit an ELOI for each project in which they are interested, to the indicated requesting unit by the time and date indicated as the Response Deadline. It is the responsibility of the Design-Build firm to insure that the complete ELOI is timely received by the Department. The ELOI will be limited to 10 pages with a minimum font size of 10. In the letter, please provide the name, address, phone number, and e-mail address for the Design-Build firm contact person; the qualification status of the contractor and design consultant as part of the Design-Build firm, and the key companies and key personnel proposed as participating in the project. Resumes may be separately submitted, but are limited to one page each. Resumes are not counted toward the 10 page limitation. Please provide one page resumes for each of the following nine key staff positions, as applicable:

- a. Construction Project Manager
- b. Construction Design Build Coordinator
- c. Construction Roadway Superintendent
- d. Construction Structures Superintendent
- e. Construction Superintendent - Specialty (Project Specific Requirement)
- f. Design Project Manager
- g. Design Roadway Engineer of Record
- h. Design Structures Engineer of Record
- i. Design Engineer of Record - Specialty (Project Specific Requirement)

A one page organization chart may be provided, and is also excluded from the page count. Please note: If the contractor and/or design consultant does not have performance history working with the Department, they are permitted to submit evidence of their past performance, including evaluations or grades and letters of reference, or recommendations (provide contact information for verification purposes). The past performance information is limited to 3 pages total, and is restricted to firms without performance history with the Department. The additional three pages will not count toward the 10 page limitation of the ELOI.

The Department will judge the relative ability of each submitting company/entity to perform the required services based on qualification information and the ELOI. Unless otherwise noted in the specific Design-Build advertisement, the criteria for evaluating the Phase I submittals will include:

- 1) Past Performance Evaluations:
  - Contractor grades
  - Design Consultant grades
  - Performance history with other states or agencies if none with the Department
- 2) Project Experience and Resources:
  - Design-Build experience of the Contractor and Designer
  - Similar types of work experience
  - Contractor Experience Modification Rating
  - Firm organization, staffing plan, resources, location
  - Environmental Record
- 3) Project Approach and Understanding of Critical Issues:
  - Outline plan for completing the work
  - Approach and understanding
  - Coordination Plan
- 4) Other content in the Letter of Interest

Relative weightings for all Phase I criteria are specified within the project advertisement. All qualified firms submitting a responsive ELOI will be scored on a scale of 0-20 points (Phase I). The scores for each of the responsive Design-Build firms will be posted on the Department's website. Design-Build firms are required to declare their intent to continue to Phase II in writing to the Department by the deadline specified in the advertisement. Design-Build firms that do not declare affirmatively in writing by the stated deadline will not be permitted to continue on to Phase II of the Design-Build procurement process. Design-Build firms who timely and affirmatively declare their intent in writing will be issued a Request for Proposal (RFP) that will include the shortlist of Design-Build firms, representing all responsive Phase I Design-

Build firms that have elected to continue on to the Phase II Technical Proposal stage. The requirements for Phase II technical proposals will be described in the RFP. Phase II Technical Proposals will be scored on an 80 point scale. The total score from Phase I and Phase II will be summed to determine the Design-Build firm's total technical score. Unless otherwise specified in the RFP, the award of the project will be determined on an adjusted total score as shown in the RFP based on both the price and technical score.

The Phase I and the combined Phase I and Phase II results will be posted on the Department's website: ([www.dot.state.fl.us/procurement](http://www.dot.state.fl.us/procurement)) at the indicated date. Public meeting dates and times are provided with new listed projects. All public meetings will be held in District headquarters unless otherwise noted. Changes to meeting dates and times will be updated under the All Advertisements link. The shortlisted firms (consisting of all Design-Build firms electing to proceed) will be provided a Request for Proposal (RFP) containing a design criteria package and requested to provide a Technical Proposal and bid price proposal for the project.

For those projects designated as **LOW BID TYPE**, bid proposals must be submitted by the date and time indicated in the advertisement. It is the responsibility of the Design-Build firms to insure that bid proposals are received timely. For low bid type projects, an RFP may be requested by any interested party at the response address provided below. The technical proposal of the low bidder will then be reviewed to determine its responsiveness. If found to be non-responsive, the next lowest bidder will be considered. A proposal will be considered non-responsive if it does not contain all of the information and level of detail requested in the RFP. All bid openings and public meetings will be held in District headquarters unless otherwise noted. Changes to meeting dates and times will be updated under the All Advertisements link. The selection results will be posted on the Department's [website](#) at the date and time indicated in the advertisement

**Note:** The Department reserves the right to reject all proposals and/or to waive minor proposal irregularities.

Pursuant to Sections 120.57(3) and 337.11, Florida Statutes, and Rule Chapter 28-110, Florida Administrative Code, any person adversely affected by the agency decision or intended decision shall file with the agency both a notice of protest in writing and bond within 72 hours after the posting of the notice of decision or intended decision, or posting of the solicitation with respect to a protest of the terms, conditions, and specifications contained in a solicitation and will file a formal written protest within ten days after the filing of the notice of protest. The required notice of protest and bond, and formal written protest must each be timely filed with the **Florida Department of Transportation, Clerk of Agency Proceedings, 605 Suwannee St, Mail Station 58, Tallahassee FL 32399-0458.**

Failure to file a notice of protest or formal written 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 con-

stitute a waiver of proceedings under Chapter 120 Florida Statutes.

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**DISTRICT 1**

**Procurement Number** : E1J71

**Project Description** :

The Florida Department of Transportation (Department) is issuing this Request for Proposal (RFP) to solicit competitive bids and proposals from Proposers for the Design and Construction of a Lee County Advanced Traffic Management System (ATMS).

The ATMS components will consist of traffic controllers and cabinets, closed-circuit television (CCTV) cameras, non-intrusive microwave vehicle detectors (MVDS), and fiber optic communications cable and transmission equipment along roadways throughout Lee County. The ATMS will operate out of the Traffic Operations Center (TOC) located at 5650 Enterprise Parkway, Fort Myers, Florida.

In the letter, please provide the name, address, phone number, and e-mail address for the Design-Build firm contact person; the qualification status of the contractor and design consultant as part of the Design-Build firm, and the key companies and key personnel proposed as participating in the project.

Only one (1) Expanded Letter of Interest per legal entity is acceptable. Receipt of multiple Expanded Letters of Interest from a legal entity will cause Department rejection of all Expanded Letters of Interest of the legal entity. The Expanded Letter of Interest shall, as a minimum, include the following information:

1. Business Structure: Identify the legal entity authorized by law to render the design/build services. Include documentation demonstrating compliance with the Minimum Qualifications Requirements set forth in this solicitation. Evidence or proof of meeting the Minimum Qualification Requirements of Professional Liability Insurance and bonding capacity, along with copies of letters from the Department indicating the pre-qualifications of the legal entity(ies) or firm(s) are exempt from the ten (10) page Expanded Letter of Interest restriction.

2. Design/Build Team: Identify participating firms and office location(s). Provide an organizational chart relating to the project and include the names, titles, and classifications of key personnel of each firm.

3. Design/Build Experience: Provide a listing of active and completed Design/Build projects similar to this project including starting date and completion date of anticipated completion date, budget, owner performance evaluation if available, references, points of contact, telephone numbers of the proposed Design/Build team and demonstrate past experience working together.

4. Other Experience: Provide a listing of active and completed projects other than design/build projects similar to this project including references, points of contact and telephone numbers for the owner and team members performing engineering design and construction.

5. Approach and Understanding of Project Requirements: Briefly describe the project issues and resolutions by your team.

The Design/Build Firm shall be required to furnish proof that both the Design/Build Firm and the assigned Project Manager have at three (3) years experience working with similar Design/Build contracts with specific experience in the following categories of work:

-Traffic signal control and ITS design, installation, and Integration

- Intersection design and construction

- Fiber optic (single-mode) outside plant design, splicing, and testing

- Wide Area Network (WAN) design Instruction, and Intergation, and testing.

- ATMS software design, installation, integration.

- Operator Workstaton design and construction.

- Video wall design and construction.

Submittal Requirements: The legal entity desiring consideration for this project shall submit one (1) copy of their Expanded Letters of Interest and one (1) Compact Disc with the complete Expanded Letter of Interest in a pdf. format. The Expanded Letter of interest shall not exceed ten (10) pages in length to the requesting unit listed below. Resumes may be separately submitted, but are limited to one page each. They are not counted toward the ten (10) page limitation. Please provide one page resumes for each of the following five (5) positions, as applicable:

a. Construction Project Manager

b. Construction Design Build Coordinator

c. Construct Superintendent - Specialty (Intelligent Transportation System)

d. Design Project Manager

e. Design Engineer of Record - Specialty (Intelligent Transportation System)

A one (1) page organization chart may be provided, and is also excluded from the page count. Please note: If the contractor and/or design consultant does not have performance history working with the Department, they are permitted to submit evidence of their past performance, including evaluations or grades and letters of reference, or recommendations (provide contact information for verification purposes). The past performance information is limited to three (3) pages total, and is restricted to firms without performance history with the Department. The additional three (3) pages will not count toward the ten (10) page limitation of the Expanded Letter of Interest.

EXPANDED LETTERS OF INTEREST MUST BE RECEIVED ON OR BEFORE FRIDAY, 4:00 PM, EASTERN STANDARD TIME, FRIDAY, DECEMBER 23, 2011. EXPANDED LETTERS OF INTERESTED ARE TO BE DELIVERED TO: DISTRICT ONE PROCUREMENT OFFICE, ATTN: FELIPE ALVAREZ, 801 NORTH BROADWAY AVENUE, BARTOW, FLORIDA 33830

The Expanded Letters of Interest shall be reviewed and scored on a scale of 0-20 points. The Expanded Letters of Interest will be scored per the following criteria:

1) Past Performance Evaluations: (5 Points)

Contractor grades, Design Consultant grades, Performance history with other states or agencies if none with the Department.

2) Project Experience and Resources: (5 Point)

Design-Build experience of the Contractor and Designer, Similar types of work experience, Contractor experience modification Rating, firm organization, staffing plan,

resources, location Environmental Record.

3) Project Approach and Understanding of Critical Issues:  
(8 Points) Outline plan for completing the work, Approach  
and Understanding, Coordination Plan.

FINANCIAL PROJECT ID: 412636-2-52-01

ESTIMATED BUDGET AMOUNT: \$5,360,150

ESTIMATED LENGTH OF CONTRACT: 563 CALENDAR DAYS

Bonding Requirements:

Bonding Requirements: The legal entity contracting with the Department must provide evidence of its ability to obtain Professional Liability Insurance covering errors and omissions in the amount of \$1,000,000.00. Evidence shall be in the form of a letter from an insurer or a Florida Resident Agent for an insurer indicating ability to provide such insurance. The insurer must be licensed to do business in the State of Florida. Project specific insurance is insurance covering only this project.

The legal entity contracting with the Department must have a bonding capacity of at least the bid amount for a single contract. Said legal entity must provide evidence of its ability to be bonded for a single contract in the amount least the bid amount. Evidence of this single contract bonding capacity may be in the form of either a letter from the said legal entity's Surety Company indicating a single contract bonding capacity in excess of the bid amount or a copy of a performance and payment bond issued within the past twelve (12) months, in the amount of at least the bid amount for any past single contract of said legal entity. (Note: A 5% bid guaranty will be required of all shortlisted firms submitting proposal and the successful firm will be required to maintain in effect throughout the life of the contract a performance and payment bond for 100% of the contract amount. The Surety must be authorized to do business in the State of Florida.)

**Financial Management Number(s):**

41263625201

**Budget Amount** : \$5,043,707

**Selection Procedure** : ADJUSTED SCORE TYPE

**Response Requested** : LETTER OF INTEREST

**Maximum Number of Pages:** 10

**Prequalification Requirements:**

**Contractor must be qualified under Rule, 14-22, Florida**

**Administrative Code - Work Class(s):**

INTELLIGENT TRANSPORTATION SYSTEM

**Professional Team Member Qualified under Rule 14-75,**

**Florida Administrative Code - Work Class(es):**

3.2 - Major Highway Design

6.3.1 - Intelligent Trans Sys. Analysis & Design

6.3.2 - Intelligent Trans Systems Implementation

6.3.3 - Intelligent Trans Traffic Eng. Communications

6.3.4 - Intelligent Trans Sys. Software Development

**Technical Questions Should Be Addressed To:**

Technical Questions are to be directed to the following  
Website:

<http://www2.dot.state.fl.us/construction/bidquestionmain.asp>

[View RFP](#)

(Adobe Acrobat ® PDF file)

**Advertisement Date** : 13DEC2011  
**Phase I ELOI Response Deadline** : 23DEC2011  
**Planned Longlist(T.R.C.) Date** : 20DEC2011 **Time:** 9:00 AM  
**Planned PhaseI Sel. Cmte. Meeting:** 10JAN2012**Time:** 10:00AM  
PhaseI Posting Date Not Available  
**Planned Phase2 Deadline:** 10JAN2012 **Time:** 10:00AM  
PhaseI Posting Date Not Available  
**Planned Pre-Proposal Meeting** : 23JAN2012 **Time:** 1:30 PM  
**Planned PhaseII Tech. Prop. Due** : 26APR2012  
**Planned Tech. Rev. Cmte Meeting:** 05JAN2012 **Time:** 8:30 AM  
**Plan 2nd Tech Rev. Cmte Meeting:** 02APR2012 **Time:** 1:00 PM  
**Plan 3rd Tech Rev. Cmte Meeting:** 16APR2012 **Time:** 1:30 PM  
**Planned Price Proposal Due Date:** 26APR2012 **Time:** 2:00 PM  
**Proposed Proposal Opening Date** : 26APR2012 **Time:** 2:00 PM  
**Planned Final Sel. Meeting Date:** 08MAY2012 **Time:** 10:00PM

**Phase I ELOI Response Deadline** : 23DEC2011

**Respond To:**

Florida DOT - District 1  
P.O. Box 1249 / 801 N Broadway Ave  
Bartow, FL 33831-1249  
**Attn:** Felipe Alvarez  
Professional Services, MS 1-67  
**Phone:** (863)519-2610

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*Florida Department of Transportation*  
*District One*

**DESIGN/BUILD  
REQUEST FOR PROPOSAL**

**For**

**Lee County Advanced Traffic Management System  
Lee County**

**Financial Projects Number: 412636-2-52-01**

**Federal Aid Project Number: 8886-052A**

**Contract Number: E1J71**

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## **ATTACHMENTS**

- Attachment A – Minimum Technical Requirements
- Attachment B – 30% Preliminary Plans
- Attachment C – Bid Blank
- Attachment D – Division I Design/Build Specifications

The attachments listed in the Table of Contents are by this reference hereby incorporated into and made a part of this RFP as though fully set forth herein.

## **OTHER DOCUMENTS**

The following documents are being provided with this RFP. Except as specifically set forth in the body of this RFP, these documents are being provided for general information only. They are not being incorporated into and are not being made part of the RFP, the contract documents, or any other document that is connected or related to this project except as otherwise specifically stated herein. No information contained in these documents shall be construed as a representation of any field condition or any statement of facts upon which the Design/Build Firm can rely upon in performance of this contract. All information contained in these other documents must be verified by a proper factual investigation. The bidder agrees that by accepting copies of the documents, any and all claims for damages, time, or any other impacts based on the documents are expressly waived.

- Phase I Signalized Intersections
- Communications Map
- Uninterruptible Power Supply (UPS) Locations
- Closed-Circuit Television (CCTV) Camera Locations
- System Detection Locations
- Opticom Locations
- County Count Stations

## **I. Introduction.**

The Florida Department of Transportation (Department) has issued this Request for Proposal (RFP) to solicit competitive bids and proposals from Proposers to design, procure, install, integrate, and test all components of the Lee County Advanced Traffic Management System (ATMS).

### **A. Description of Work**

The Department seeks a Design/Build Firm to design, procure, install, integrate, and test ATMS field elements, including traffic controllers and cabinets, closed-circuit television (CCTV) cameras, non-intrusive microwave vehicle detectors (MVDS), and fiber optics communications cable and transmission equipment along roadways throughout Lee County.

The ATMS will operate out of the Traffic Operations Center (TOC) located at 5650 Enterprise Parkway, Fort Myers, Florida.

The project work includes furnishing, installing, integrating, and testing the elements listed below:

- ATMS field devices
- A new dedicated communications network
- TOC facility modifications and equipment upgrades
- Upgrades to existing intersections for specified standards conformance
- The addition of epedestrian features

This project requires that all Intelligent Transportation System (ITS) equipment and subsystems be in conformance with the National ITS Architecture and the National Transportation Communications for ITS Protocol (NTCIP). The project shall use an open architecture to foster, to the largest extent possible, the interoperability and interchangeability of hardware and software available from different manufacturers.

Failure to provide the equipment described above or to meet the minimum requirements outlined in this RFP and accompanying attachments shall provide cause to disqualify a Proposer. The minimum functional and technical requirements for the design, procurement, installation, integration, and testing of the various project elements are included in Section VI, Design and Construction Criteria, and Attachment A – ITS Minimum Technical Requirements (MTRs) document.

The ITS field devices as defined in the Department's Minimum Specifications for Traffic Control Signals and Devices must be on the Approved Products List (APL) prior to issuance of the Released for Construction (RFC) plans. The Design/Build Firm may propose alternate ITS equipment; however, the Design/Build Firm shall be responsible for shepherding those devices not on the APL through the process so the devices are on the APL at the time of installation. The protocols used by the devices must be compatible with the existing Econolite Centrac® software. The Design/Build Firm shall complete and provide to the Department Construction Project Manager the Department Form 750-010-02 for all certified or approved traffic control devices to be used on the project. The Form shall be submitted prior to the installation of any of the devices listed on the Form.

The Design/Build Firm shall integrate the individual ITS subsystems (CCTV cameras and vehicle detectors) with the individual vendor-provided control software such that each of the subsystems shall

operate as a stand-alone system. After the completion and acceptance of the individual ITS subsystems, the Design/Build Firm shall integrate the ITS subsystems with the Econolite Centrac® software.

The Design/Build Firm shall identify, furnish, and install all of the equipment that is required for a complete integrated system as defined in this RFP and its attachments. All system auxiliaries and peripheral equipment including, but not limited to, video encoders/decoders, fiber optics transceivers, Ethernet switches, media converters, connectors, cables, testing equipment and software, etc., are considered as part of and are to be included under the individual subsystems.

Attachment B – 30% Preliminary Plans provides information about placement of the controller cabinets, proposed CCTV camera locations, and vehicle detector locations, as well as the required intersection improvements. Attachment B shows preliminary locations for these new devices with respect to existing field conditions and hardware at the time of field review. The Communications Map, listed under Other Documents, shows the locations where there is existing fiber optic cable in existing conduit, where new fiber optic cable shall be installed in existing conduit, and where they shall install new fiber optic cable in new conduit. The Design/Build Firm is responsible for reviewing the existing conditions to determine the final placement of proposed devices.

## **B. ATMS Field Devices**

The following provides an overview of this project's primary ATMS field devices to be implemented. The primary components include:

- Traffic signal system infrastructure
- CCTV surveillance system
- System detection

### Traffic Signal System Infrastructure

The Design/Build Firm will expand Lee County's existing Econolite Centrac® traffic signal system by the 55 intersections listed in the Phase I Signalized Intersection list included with this RFP. The new signal system shall include implementation of the following components:

- Communications interface at 3 project intersection
- New NEMA TS2 Type 1 controllers and new NEMA TS2 Type 1 cabinets – Install new Econolite ASC 3 NEMA controllers and new cabinets at 52 project intersections
- Controller support hardware
- Cabinet foundations – Utilize existing Quazite foundations and technician pads as noted in Attachment B – 30% Preliminary Plans. Cabinet foundations unsuitable for integration with this project shall be replaced with standard Department foundations.
- Uninterruptable power supplies (UPS) – Install new UPS and reinstall existing UPS as noted in Attachment B – 30% Preliminary Plans. Locations are listed in the Uninterruptable Power Supply (UPS) Locations list included with this RFP.

### CCTV Surveillance System

The Design/Build Firm shall deploy 36 CCTV cameras at the locations shown in the Closed-Circuit Television (CCTV) Camera Locations list included with this RFP. The cameras shall provide real-time

monitoring capabilities and be operated and controlled from the TOC. The CCTV surveillance system will include the deployment of the following field subsystem components:

- CCTV camera assemblies, including internal encoders
- CCTV poles and foundations
- Surge protection
- UPS

The Design/Build Firm shall determine a location for each camera that provides an unobstructed view of each approach at the intersection. The locations shown in Attachment B – 30% Preliminary Plans are recommendations only. Using a bucket truck, the Design/Build Firm shall record video of the roadway view with their proposed camera from their proposed locations and mounting height. Provide the video to the Department for review and acceptance prior to installation of any CCTV cameras.

#### System Detection

The Design/Build Firm shall install a minimum of 28 system detectors. Locations shown in Attachment B – 30% Preliminary Plans are recommendations only. The Design/Build Firm shall determine the exact number and locations required to provide adequate data for each approach shown in the System Detection Locations Table included with this RFP and as defined in the MTRs. The system detection for each control section of the Lee County ATMS shall provide operation in a traffic responsive mode.

### **C. Communications Network**

As part of the Lee County ATMS project, the Design/Build Firm shall deploy a new fiber optic network utilizing Internet Protocol (IP) over Ethernet communications technologies and protocols. Integrate ATMS field devices with centralized command and control hardware and software at the TOC.

#### Network Architecture

The Design/Build Firm shall finalize the ATMS communications architecture, node locations, and network configuration to provide a fortified, redundant, and secured network for the ATMS. This shall include a redundant, self-healing ring architecture for connecting the TOC and nodes.

#### Network Media

The Design/Build Firm shall deploy a 96-strand single-mode fiber optic cable for all backbone communications links within the new communications network. Provide 12 -strand single-mode fiber optic cables as drop cables from the trunk to each of the cabinets.

#### Cable Conveyance

The Design/Build Firm shall install new fiber optic cable in either existing 1¼-inch conduit as defined elsewhere in the contract documents or new 1¼-inch High Density Polyethylene (HDPE) conduit. All ATMS network communications infrastructure shall be underground, unless accepted by the Department. The Design/Build Firm shall install new conduit and fiber optic cable where noted in Attachment B – 30% Preliminary Plans. The Design/Build Firm may utilize existing conduit and fiber optic cable where noted in Attachment B – 30% Preliminary Plans.

## **D. TOC**

The Lee County TOC is located in the Lee County DOT building at 5650 Enterprise Parkway. The Design/Build Firm shall integrate the Lee County ATMS project with the central ATMS components in the TOC, including:

### Control Room

- Operator workstations
- Operator consoles
- Video wall displays

### Network Room

- Additional video wall controller cards

### Software

- Support software
- System Detection Network software
- Network Management software
- CCTV software

### ATMS Central Software

The Design/Build Firm shall integrate the new ATMS devices with the County's existing Econolite Centrac® central software applications to provide command and control for the project elements defined in this RFP and in Attachment A – MTRs. The Design/Build Firm shall fully integrate all required project components, including signalized intersections, CCTV surveillance components, system detection components, and ATMS network communications components with the central software. The Design/Build Firm shall populate all databases and construct all system display graphics and maps necessary for a complete and functional system.

## **E. Design Services**

The Design/Build Firm shall provide all design and construction services required to implement an expanded ATMS as defined in this RFP and its Attachments.

### Signalized Intersections

The Design/Build Firm shall provide all design services necessary to upgrade 55 project intersection controllers to new Econolite ASC3 NEMA TS2 Type 1 controllers and controller cabinets. The Design/Build Firm shall provide all controller support hardware and support software required for a complete and functional upgrade of the project intersections. The Design/Build Firm shall provide the design for one intersection to receive only the equipment necessary to allow it to communicate with the TOC over the fiber optic network. The Design/Build Firm shall provide all necessary cabinet support equipment, firmware, and miscellaneous materials required to integrate each of the project intersections with the existing Econolite Centrac® software.

The Design/Build Firm shall utilize existing cabinet foundations where noted in Attachment B - 30% Preliminary Plans. The design of new foundations or modification of existing foundations shall be in accordance with all Department specifications and standards for controller cabinets, cabinet foundations, and cabinet technician pads.

#### Standards Conformance Upgrades

The design criteria contained in the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD) were used to evaluate intersection layouts and geometry. Field data collection included a detailed evaluation of the intersection layout, lane geometry, signing and pavement markings, signal head heights, pedestrian signal heads and pedestrian buttons, pedestrian crosswalks, curb cut ramps, and other features required by the American with Disabilities Act (ADA).

Attachment B – 30% Preliminary Plans shows the anticipated scope of work at each signalized intersections. The Design/Build Firm shall review each signalized intersection and determine which pedestrian facilities must be upgraded to current standards.

#### ADA

The Design/Build Firm shall design intersection improvements associated with upgrades necessary to bring specified intersections into conformance with current ADA standards. The anticipated improvements are noted in Attachment B – 30% Preliminary Plans. This work shall include, but is not limited to, design and construction of:

- Pedestrian countdown signals
- Pedestrian pushbuttons and pushbutton signs
- Upgrades to existing handicapped curb cut ramps
- New handicapped curb cut ramps
- New pedestrian pavement markings, including crosswalks
- Lane markings and stop bars

New pedestrian timings shall be developed and implemented by the Design/Build Firm for any crossings added in the project. All new pedestrian timings shall be reviewed and accepted by the Department prior to the plans being released for construction. Upon approval of the new pedestrian timings, the Design/Build Firm will provide the Department with a copy of the timings that is signed and sealed by a Florida Professional Engineer.

The Design/Build Firm shall also evaluate whether an existing pedestrian crossing needs recalculation of the timings due to changes in crosswalk lengths. If a change is required, the Design/Build Firm will provide the revised timings to the Department for review and approval. Upon approval of the revised timings, the Design/Build Firm will provide the Department with a copy of the timings that is signed and sealed by a Florida Professional Engineer.

At all intersections where new crosswalks are installed or existing crosswalks or stop bars are moved, the Design/Build Firm shall calculate the all-red timing interval to ensure consistency with the latest version of the Traffic Engineering Manual. The calculations and new all-red intervals shall be submitted to the Department for review and approval. Upon approval of the all-red timings, the Design/Build Firm will provide the Department with a copy of the timings that is signed and sealed by a Florida Professional Engineer.

## **F. Documentation of Existing Conditions**

The Design/Build Firm shall inventory all project intersections and project intersection components and identify all malfunctioning, damaged, or non-working system components prior to the 60% design submittal. Once the inventory is completed, the Design/Build Firm shall submit all compiled information to the Department. This shall include, but is not limited to:

- Signal timing and operations
- Pedestrian signals and associated equipment
- Loop detectors
- System detectors
- Video detectors
- Signal controllers and cabinet equipment
- TOC
- Telecommunications infrastructure
- Preemption detection

### Signal Timing and Operations

The Design/Build Firm shall document all existing signal operations parameters, including signal timing plans, control section configurations, and system operational strategies.

Following the implementation of the new signal system and prior to official system acceptance, the Design/Build Firm shall be responsible for re-installing the timing data, timing plans, control section configurations, and overall operations. The Design/Build Firm shall be responsible for re-installing the “existing conditions” timing parameters as-is, unless: 1) updated or alternative timing data is supplied to the Design/Build Firm by the County or the Department prior to the final system acceptance; 2) existing timings need to be revised to match approved timings; or 3) the Design/Build Firm develops new pedestrian signal timings as part of this project. All new timings must be signed and sealed by a Florida Professional Engineer. The Design/Build Firm shall ensure that the existing signal coordination is maintained until the new coordinated timings are installed. The Design/Build Firm shall ensure that coordinated signal operation is provided during the entire life of the project.

### Pedestrian Signals and Associated Equipment

The Design/Build Firm shall inventory and examine all existing pedestrian signals and associated equipment. The Design/Build Firm shall identify all non-working or malfunctioning components. At those locations where no new pedestrian features are to be added by the Design/Build Firm, the County will repair any malfunctioning equipment.

### Loop Detectors, System Detectors, and Video Detectors

The Design/Build Firm shall inventory all existing intersection detectors. The Design/Build Firm shall identify all malfunctioning or nonfunctioning detectors or other issues pertaining to detection and present a summary of the inventory issues to the Department. The Local Maintaining Agency will repair the malfunctioning detectors. The Design/Build Firm shall repair malfunctioning detectors if the inventory is not completed and the Department is not advised of faulty detectors within the required timeframe.

### Signal Controllers and Cabinet Equipment

The Design/Build Firm shall inventory and examine all existing signal controller cabinets included in the project to fully understand their components and operation. The Design/Build Firm shall also identify all non-working, malfunctioning, or damaged cabinet components. The Design/Build Firm shall audit all field wiring labels to confirm their accuracy. The Design/Build Firm shall apply new labels to all existing and newly installed field wiring as part of this project. At those intersections receiving new controller cabinets, the Design/Build Firm shall remove the existing Opticom unit from the existing cabinet and install it in the new cabinet. Intersections that currently have Opticom units are defined in the Opticom Locations list included with this RFP.

### TOC

The Design/Build Firm shall examine the TOC and identify all issues or items of concern regarding the integration of the ATMS components with the TOC.

### Telecommunications Infrastructure

The Design/Build Firm will utilize existing County fiber in existing County conduit for a portion of the interconnect system. The County will provide Optical Time Domain Reflectometer (OTDR) traces of this fiber to the Design/Build Firm prior to the submittal of the 60% plans. However, it is the Design/Build Firm's responsibility to ensure the fiber can be reused. The Design/Build Firm will install new fiber optic cable in existing Department conduit. The Department will have tested this conduit to ensure its functionality; however, it is the Design/Build Firm's responsibility to ensure the conduit can be reused.

### Preemption Detection

The Design/Build Firm shall inventory all controllers with preemption timing. After installation of a new controller, the preemption timing parameters shall be installed exactly as they were prior to any construction.

## **G. Interim Operations**

The Design/Build Firm shall plan, design, and deploy interim operations for the existing Aries closed-loop signal system (includes signal control), the existing Centrac® system (includes CCTV cameras and signal control), and new signal system components as they are systematically deployed during the construction phase of the project. Maintain all existing operational functionality and control throughout the entire project limits and during the entire project construction time. Operational functionality shall include, but is not limited to:

- Signal timing
- Maintenance of Traffic (MOT)

## **H. Design/Build Responsibility**

The Design/Build Firm shall be responsible for survey, geotechnical investigation, design, acquisition of all permits not acquired by the Department, any required modification of permits acquired by the Department, MOT, demolition, and construction on or before the project completion date indicated in the Technical Proposal. The Design/Build Firm will coordinate all utility relocations.

The Design and Construction Criteria (Section VI.) sets forth requirements regarding survey, design, construction, and MOT during construction, requirements relative to project management, scheduling, and coordination with other agencies and entities such as state and local government, utilities and environmental permitting agencies, and the public.

The Design/Build Firm shall demonstrate good project management practices while working on this project. These include communication with the Department and others as necessary, management of time and resources, and complete documentation.

**I. Department Responsibility**

The Department will provide contract administration, management services, construction engineering inspection (CEI) services, and quality acceptance reviews of all work associated with the development and preparation of the contract plans and construction of the improvements. The Department will provide job specific information and/or functions as outlined in this document.

**II. Schedule of Events.**

Below is the current schedule of the events that will take place in the procurement process. The Department reserves the right to make changes or alterations to the schedule as the Department determines is in the best interests of the public. Proposers will be notified sufficiently in advance of any changes or alterations in the schedule. Unless otherwise notified in writing by the Department, the dates indicated below for submission of items or for other actions on the part of a Proposer shall constitute absolute deadlines for those activities and failure to fully comply by the time stated shall cause a Proposer to be disqualified.

Date	Event
<u>December 13, 2011</u>	Advertisement
<u>December 23, 2011</u>	Expanded Letters of Interest for Phase I of the procurement process due in District Office by 4:00pm local time
<u>January 6, 2012</u>	Proposal Evaluators submit Expanded Letter of Interest Scores to Contracting Unit 2:00 pm local time
<u>January 9, 2012</u>	Contracting Unit provides Expanded Letter of Interest scores and comment of Proposal Evaluators to Selection Committee 1100 am am/pm local time
<u>January 10, 2012</u>	Public Meeting of Selection Committee to review and confirm Expanded Letter of Interest scores 10:00 am local time
<u>January 10, 2012</u>	Notification to Responsive Design-Build firms of the Expanded Letter of Interest scores 5:00 pm local time
<u>January 12, 2012</u>	Deadline for all responsive Design-Build firms to affirmatively declare intent to continue to Phase II of the procurement process 5:00 pm local time
<u>January 13, 2012</u>	Shortlist Posting (NOTE: suggest the posting occur near 8:00 AM but district can modify time if necessary. Shortlist should be posted soon after election deadline occurs.)
<u>January 18, 2012</u>	Final RFP provided to Design-Build firms providing Affirmative Declaration of Intent to continue to Phase II of the procurement process

<u>January 23, 2012</u>	Pre-proposal meeting at 1:30 p.m. local time in District One Headquarters, 801 N. Broadway Ave., Bartow FL., 33830.
	Final deadline for submission of questions/requests for information
	Final deadline for submission of Design Exceptions or Variances
<u>January 30, 2012</u>	Alternative Technical Concept Meeting No. 1
<u>February 2, 2012</u>	District determination of proposed ATC
<u>February 9, 2012</u>	Deadline for submittal of Alternative Technical Concept Proposals 5:00pm local time.
<u>February 16, 2012</u>	District Approval of ATC
<u>February 29, 2012</u>	Final deadline for submission of questions/requests for information
<u>February 12, 2012</u>	Final deadline for submission of Design Exceptions or Variances
<u>March 7, 2012</u>	Information Cut-off date (Last Date Department may provide any information to Design-Build Firms prior to the submittal of Technical Proposals)
<u>March 14, 2012</u>	Technical Proposals due in District Office by 4:00 p.m. local time
<u>April 14, 2012</u>	Question and Answer Session. Times will be assigned during the pre-proposal meeting. One hour will be allotted for questions and responses.
<u>April 23, 2012</u>	Deadline for submittal of Written Clarification letter following Question and Answer Session 5:00 pm local time
<u>April 26, 2012</u>	Price Proposals due in District Office by 2:00 p.m. local time.
<u>April 26, 2012</u>	Public announcing of Technical Scores and opening of Price Proposals at 2:00 p.m. local time in District One Headquarters, Transportation Support Conference Room, 801 N. Broadway Ave., Bartow FL., 33830.
<u>May 8, 2012</u>	Public Meeting of Selection Committee to determine intended Award
<u>May 8, 2012</u>	Posting of the Department's intended decision to Award (will remain posted for 72 hours)
<u>May 16, 2012</u>	Anticipated Award Date
<u>June 22, 2012</u>	Anticipated Execution Date

### III. Threshold Requirements.

#### A. Qualifications

Proposers are required to be pre-qualified in all work types required for the project. The technical qualification requirements of Florida Administrative Code (F.A.C.) Chapter 14-75 and all qualification requirements of F.A.C. Chapter 14-22, based on the applicable category of the project, must be satisfied.

#### B. Joint Venture Firm

Two or more Firms submitting as a Joint Venture must meet the Joint Venture requirements of Section 14-22.007, F.A.C. Parties to a Joint Venture must submit a Declaration of Joint Venture and Power of Attorney Form No. 375-020-18 prior to the deadline for receipt of Letters of Interest.

If the Proposer is a Joint Venture, the individual empowered by a properly executed Declaration of Joint Venture and Power of Attorney Form shall execute the proposal. The proposal shall clearly identify who will be responsible for the engineering, quality control, and geotechnical and construction portions of the Work.

### **C. Price Proposal Guarantee**

A bid guaranty in an amount of not less than five percent of the total bid amount shall accompany each Proposer's Price Proposal. The guaranty may, at the discretion of the Proposer, be in the form of a cashier's check, bank money order, bank draft of any national or state bank, certified check, or surety bond, payable to the Department. The surety on any bid bond shall be a company recognized to execute bid bonds for contracts of the State of Florida. The guaranty shall stand for the Proposer's obligation to timely and properly execute the contract and supply all other submittals due therewith. The amount of the guaranty shall be a liquidated sum, which shall be due in full in the event of default, regardless of the actual damages suffered. The bid guaranty of all Proposers shall be released at such time as the successful Proposer has complied with the condition stated herein, but not prior to that time.

### **D. Pre-Proposal Meeting**

Attendance at the pre-proposal meeting is mandatory. Any affirmatively declared proposer failing to attend will be deemed non-responsive and automatically disqualified from further consideration. The purposes of this meeting are to provide a forum for all concerned parties to discuss the proposed project; answer questions on the design and construction criteria, CPM schedule, and method of compensation; provide instructions for submitting proposals and design exceptions/variances; and address other relevant issues. In the event that any discussions or questions at the pre-proposal meeting require, in the Department's opinion, official additions, deletions, or clarifications of the RFP, the Design and Construction Criteria, or any other document, the Department will issue a written summary of questions and answers or an addendum to this RFP as the Department determines is appropriate. No oral representations or discussions which take place at the pre-proposal meeting will be binding on the Department. The Federal Highway Administration (FHWA) will be invited on oversight projects in order to discuss the project in detail and to clarify any concerns. Proposers shall direct all questions to the Department's Question and Answer website:

<http://www2.dot.state.fl.us/construction/bidquestionmain.asp>

During and after the meeting, it is the responsibility of the Project Manager/Contracting Unit to ensure that each Proposer develops their technical proposal with the same information. If a Proposer receives information from the Department relating to the project prior to the information cutoff date, the Department will ensure that all Proposers receive the same information in a timely fashion. The project file will clearly document all communications with any Firm regarding the design and construction criteria by the Contracting Unit or the Project Manager.

### **E. Question and Answer Session**

The Department may meet with each Proposer, form ally, for a 60-minute Question and Answer (Q&A) session. The FHWA shall be invited on Federal Aid Oversight Projects. The purpose of the Q&A session is for the Technical Review Committee to seek clarification and ask questions, as it relates to the Technical Proposal, of the Proposer. The Q&A session will occur a minimum of two weeks after the date the Technical Proposals are due, and be part of the Overall Technical Proposal Scoring. The Proposers shall be given a minimum of one week after the Q&A session to submit their Price Proposal. The

Department will terminate the Q&A session promptly at the end of the allotted time. The Department may tape record or videotape all or part of the Q&A session. The Q&A session will not constitute "discussions" or negotiations. Proposers will not be permitted to ask questions of the Department except to ask the meaning of a clarification question posed by the Department. Within one week of the Q&A session, the Design/Build Firm shall submit to the Department a written clarification letter summarizing the answers provided during the Q&A session. The Design/Build Firm shall not include information in the clarification letter which was not discussed during the Q&A session. In the event the Design/Build Firm includes additional information in the clarification letter which was not discussed during the Q&A session and is not otherwise included in the Technical Proposal, such additional information will not be considered by the Department during the evaluation of the Technical Proposal. No additional time will be allowed to research answers.

The Department will provide some (not necessarily all) of the proposed questions to each Design/Build Firm approximately 24 hours before the scheduled Q&A session. No supplemental materials, handouts, etc. will be allowed to be presented in the Q&A session.

#### **F. Protest Rights**

Any person who is adversely affected by the specifications contained in this RFP must file a notice of intent to protest in writing within 72 hours of the receipt of this RFP. The formal written protest shall be filed within 10 days after the date of the notice of protest, if filed. The person filing the Protest must send the notice of intent and the formal written protest to:

Clerk of Agency Proceedings  
Department of Transportation  
605 Suwannee Street, MS 58, Room 562  
Tallahassee, Florida 32399-0458

The formal written protest must state with particularity the facts and law upon which the protest is based and be legible, on 8 ½ x 11-inch white paper, and contain the following:

1. Name, address, telephone number, and Department identifying number on the Notice, if known, and name, address, and telephone number of a representative, if any; and
2. An explanation of how substantial interest will be affected by the action described in the RFP; and
3. A statement of when and how the RFP was received; and
4. A statement of all disputed issues of material fact. If there are none, this must be indicated; and
5. A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle to relief; and
6. A demand for relief; and

7. Conform to all other requirements set out in Florida Statutes (F.S.), Chapter 120 and F.A.C., Chapter 28-106, including but not limited to Section 120.57, F.S., and Rules 28-106.301, F.A.C., as may be applicable.

A formal hearing will be held if there are disputed issues of material fact. If a formal hearing is held, this matter will be referred to the Division of Administrative Hearings, where witnesses and evidence may be presented and other witnesses may be cross-examined before an administrative law judge. If there are no disputed issues of material fact, an informal hearing will be held, in which case the person filing the protest will have the right to provide the Department with any written documentation or legal arguments which they wish the Department to consider.

Mediation pursuant to Section 120.573, F.S., may be available if agreed to by all parties, and on such terms as may be agreed upon by all parties. The right to administrative hearing is not affected when mediation does not result in a settlement.

Failure to file a protest within the time prescribed in Section 120.57(3), F.S., shall constitute a waiver of proceedings under Chapter 120, F.S.

#### **G. Non-Responsive Proposals**

Proposals found to be non-responsive shall not be considered. Proposals may be rejected if found to be in nonconformance with the requirements and instructions herein contained. A proposal may be found to be non-responsive by reasons including, but not limited to, failure to utilize or complete prescribed forms, conditional proposals, incomplete proposals, indefinite or ambiguous proposals, failure to meet deadlines, and improper and/or undated signatures.

Other conditions which may cause rejection of proposals include evidence of collusion among Proposers, obvious lack of experience or expertise to perform the required work, submission of more than one proposal for the same work from an individual, firm, joint venture, or corporation under the same or a different name (also included for Design/Build projects are those proposals wherein the same Engineer is identified in more than one proposal), failure to perform or meet financial obligations on previous contracts, employment of unauthorized aliens in violation of Section 274A (e) of the Immigration and Nationalization Act, or in the event an individual, firm, partnership, or corporation is on the United States Comptroller General's List of Ineligible Design/Build Firms for Federally Financed or Assisted Projects.

Proposals will also be rejected if not delivered or received on or before the date and time specified as the due date for submission.

#### **H. Waiver of Irregularities**

The Department may waive minor informalities or irregularities in proposals received where such is merely a matter of form and not substance, and the correction or waiver of which is not prejudicial to other Proposers. Minor irregularities are defined as those that will not have an adverse effect on the Department's interest and will not affect the price of the Proposals by giving a Proposer an advantage or benefit not enjoyed by other Proposers.

1. Any design submittals that are part of a proposal shall be deemed preliminary only.

2. Preliminary design submittals may vary from the requirements of the Design and Construction Criteria. The Department, at their discretion, may elect to consider those variations in awarding points to the proposal rather than rejecting the entire proposal.
3. In no event will any such elections by the Department be deemed to be a waiving of the Design and Construction Criteria.
4. The Proposer who is selected for the project will be required to fully comply with the Design and Construction Criteria for the price bid, regardless that the proposal may have been based on a variation from the Design and Construction Criteria.
5. Those changes to the Design Concept may be considered together with innovative construction techniques, as well as other areas, as the basis for grading the Technical Proposals in the area of innovative measures.

#### **I. Modification or Withdrawal of Proposal**

Proposers may modify or withdraw previously submitted proposals at any time prior to the proposal due date. Requests for modification or withdrawal of a submitted proposal shall be in writing and shall be signed in the same manner as the Proposal. 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 sealed envelope to be opened at the same time as the Proposal, provided the change is submitted prior to the proposal due date.

#### **J. Department's Responsibilities**

This RFP does not commit the Department to make studies or designs for the preparation of any Proposal, nor to procure or contract for any articles or services. Proposers shall examine the Contract Documents and the site of the proposed work carefully before submitting a Proposal for the work contemplated and shall investigate the conditions to be encountered, as to the character, quality, and quantities of work to be performed and materials to be furnished and as to the requirements of all Contract Documents. Written notification of differing site conditions discovered during the design or construction phase of the project will be given to the Department's Project Manager.

The Department does not guarantee the details pertaining to borings, as shown on any documents supplied by the Department, to be more than a general indication of the materials likely to be found adjacent to holes bored at the site of the work, approximately at the locations indicated. Proposers shall examine boring data, where available, and make their own interpretation of the subsoil investigations and other preliminary data, and shall base their bid on their own opinion of the conditions likely to be encountered. The submission of a Proposal is prima facie evidence that the Proposer has made an examination as described in this provision.

#### **K. Design/Build Contract**

The Department will enter into a Lump Sum contract with the successful Design/Build Firm. In accordance with Section V., the Design/Build Firm will provide a schedule of values to the Department for their approval. The total of the Schedule of Values will be the lump sum contract amount.

The terms and conditions of this contract are fixed price and fixed time. The Design/Build Firm's submitted bid (time and cost) is to be a lump sum bid for completing the scope of work detailed in the RFP.

#### **IV. Disadvantaged Business Enterprise (DBE) Program.**

##### **A. DBE Availability Goal Percentage**

The Department of Transportation has an overall 8.6% race-neutral DBE goal. This means that the State's goal is to spend at least 8.6% of the highway dollars with Certified DBEs as prime Design/Build Firms or as subcontractors. Race-neutral means that the Department believes that the 8.6% overall goal can be achieved through the normal competitive procurement process. The Department has reviewed this project and assigned a DBE availability goal shown on the bid blank/contract front page under "% DBE Availability Goal". Although not a contract requirement, the Department believes that this DBE percentage can realistically be achieved on this project based on the number of DBEs associated with the different types of work that will be required.

Under 49 Code of Federal Regulations (C.F.R.) Part 26, if the 8.6% goal is not achieved, the Department may be required to return to a race-conscious program where goals are imposed on individual contracts. The Department encourages all of our Design/Build Firms to actively pursue obtaining bids and quotes from Certified DBEs.

##### **B. Anticipated DBE Participation Statement**

The Department is reporting to the FHWA the planned commitments to use DBEs. This information is being collected through the Anticipated DBE Participation Statement. This statement shall be submitted to the District Contract Compliance Manager/ Resident Compliance Officer who will then submit it electronically to the Equal Opportunity Office. Although these statements WILL NOT become a mandatory part of the contract, they will assist the Department in tracking and reporting planned or estimated DBE utilization.

##### **C. Equal Opportunity Reporting System**

The Design/Build Firm is required to report monthly, through the Department's Equal Opportunity Reporting System on the Internet at, <http://www.dot.state.fl.us/equalopportunityoffice/> actual payments, minority status, and the work type of all subcontractors and suppliers. All DBE payments must be reported whether or not the prime initially planned to utilize the company. Each month the prime must report actual payments to all DBE and Minority Business Enterprise (MBE) subcontractors and suppliers. In order for the race-neutral DBE Program to be successful, cooperation is imperative.

##### **D. DBE Supportive Services Providers**

The Department has contracted with a consultant, referred to as DBE Supportive Services Provider, to provide managerial and technical assistance to DBEs. This consultant is also required to work with prime Design/Build Firms who have been awarded contracts to assist in identifying DBEs that are available to participate on the project. The successful Design/Build Firm should meet with the DBE Supportive Services Provider to discuss the DBEs that are available to work on this project. The current Provider for the State of Florida is the Blackmon Roberts Group and can be reached at (863) 802-1280 in Lakeland or (305) 777-0231 in Coral Gables.

**E. DBE Affirmative Action Plan**

A DBE Affirmative Action Plan must be approved and on file with the Equal Opportunity Office prior to award of the contract for each prime Design/Build Firm. Update and resubmit the Plan every three years. No contract will be awarded until the Department approves the Plan. The DBE Affirmative Action Plan must be on your company's letterhead, signed by a company official, dated, and contain all elements of an effective DBE Affirmative Action Plan. These Plans should be mailed to:

Florida Department of Transportation  
Equal Opportunity Office  
605 Suwannee Street, MS 65  
Tallahassee, FL 32399-0450

Questions concerning the DBE Affirmative Action Plan may be directed to the Equal Opportunity Office by calling (850) 414-4747.

**F. Bidders Opportunity List**

The Federal DBE Program requires States to maintain a database 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 on DOT-assisted projects, including both DBEs and non-DBEs.

On the Bidders Opportunity Form if the answers to numbers 2, 3, 4, or 5 are not known, leave them blank and the Department will complete the information. This information should be returned with the bid package or proposal package or submitted to the Equal Opportunity Office within three days of submission of the proposal package. It can be mailed to the Equal Opportunity Office or faxed to (850) 414-4879.

**V. Project Requirements and Provisions for Work.**

**A. Governing Regulations**

The services performed by the Design/Build Firm shall be in compliance with all applicable Manuals and Guidelines including the Department, FHWA, American Association of State Highway and Transportation Officials (AASHTO), and additional requirements specified in this document. Except to the extent inconsistent with the specific provisions in this document, the current edition, including updates, of the following Manuals and Guidelines shall be used in the performance of this work. Current edition is defined as the edition in place and adopted by the Department at the date of advertisement of this contract with the exception of the Standard Specifications for Road and Bridge Construction (Divisions II & III), Special Provisions and Supplemental Specifications, the MUTCD, and the Design Standards and Design Standards Modifications. The Design/Build Firm shall use the edition of the Standard Specifications for Road and Bridge Construction (Divisions II & III), Special Provisions and Supplemental Specifications, Design Standards and Design Standard Modifications in effect at the time the bid price proposals are due in the District Office. The Design/Build Firm shall use the 2009 edition of the MUTCD. The services will include preparation of all documents necessary to complete the project as described in Section I of this document.

1. Florida Department of Transportation Roadway Plans Preparation Manuals (PPM)  
<http://www.dot.state.fl.us/rddesign/PPMManual/PPM.shtm>

2. Florida Department of Transportation Design Standards  
<http://www.dot.state.fl.us/rddesign/DesignStandards/Standards.shtm>
3. Florida Department of Transportation Standard Specifications for Road and Bridge Construction (Divisions II & III), Special Provisions and Supplemental Specifications  
<http://www.dot.state.fl.us/specificationsoffice/Default.shtm>
4. Florida Department of Transportation Surveying Procedure  
<http://www2.dot.state.fl.us/proceduraldocuments/procedures/bin/550030101.pdf>
5. Florida Department of Transportation EFB User Handbook (Electronic Field Book)  
<http://www.dot.state.fl.us/surveyingandmapping/regulations.shtm>
6. Florida Department of Transportation Drainage Manual  
<http://www.dot.state.fl.us/rddesign/dr/Manualsandhandbooks.shtm>
7. Florida Department of Transportation Soils and Foundations Handbook  
<http://www.dot.state.fl.us/structures/Manuals/SFH.pdf>
8. Florida Department of Transportation Structures Manual  
<http://www.dot.state.fl.us/structures/manlib.shtm>
9. Florida Department of Transportation Current Structures Design Bulletins  
<http://www.dot.state.fl.us/structures/Memos/currentbulletins.shtm>
10. Florida Department of Transportation Computer Aided Design and Drafting (CADD) Production Criteria Handbook  
<http://www.dot.state.fl.us/ecso/downloads/publications/CriteriaHandBook/>
11. Florida Department of Transportation Production Criteria Handbook CADD Structures Standards  
<http://www.dot.state.fl.us/ecso/downloads/publications/CriteriaHandBook/>
12. Instructions for Design Standards  
<http://www.dot.state.fl.us/structures/IDS/IDSportal.pdf>
13. AASHTO – A Policy on Geometric Design of Highways and Streets  
[https://bookstore.transportation.org/item\\_details.aspx?ID=110](https://bookstore.transportation.org/item_details.aspx?ID=110)
14. MUTCD - 2009  
<http://mutcd.fhwa.dot.gov/>
15. Safe Mobility For Life Program Policy Statement  
<http://www2.dot.state.fl.us/proceduraldocuments/procedures/bin/000750001.pdf>
16. Traffic Engineering and Operations Safe Mobility for Life Program  
<http://www.dot.state.fl.us/trafficoperations/Operations/SafetyisGolden.shtm>
17. Florida Department of Transportation American with Disabilities Act (ADA) Compliance – Facilities Access for Persons with Disabilities Procedure  
<http://www2.dot.state.fl.us/proceduraldocuments/procedures/bin/625020015.pdf>
18. Florida Department of Transportation Florida Sampling and Testing Methods  
<http://www.dot.state.fl.us/statematerialsoffice/administration/resources/library/publications/fstm/disclaimer.shtm>

19. Florida Department of Transportation Flexible Pavement Coring and Evaluation Procedure  
<http://www.dot.state.fl.us/statematerialsoffice/administration/resources/library/publications/materialsmanual/documents/v1-section32-clean.pdf>
20. Florida Department of Transportation Design Bulletins and Update Memos  
<http://www.dot.state.fl.us/rddesign/updates/files/updates.shtm>
21. Florida Department of Transportation Utility Accommodation Manual  
<http://www.dot.state.fl.us/rddesign/utilities/UAM.shtm>
22. AASHTO LRFD Bridge Design Specifications  
[https://bookstore.transportation.org/category\\_item.aspx?id=BR](https://bookstore.transportation.org/category_item.aspx?id=BR)
23. Florida Department of Transportation Flexible Pavement Design Manual  
<http://www.dot.state.fl.us/pavementmanagement/PUBLICATIONS.shtm>
24. Florida Department of Transportation Rigid Pavement Design Manual  
<http://www.dot.state.fl.us/pavementmanagement/PUBLICATIONS.shtm>
25. Florida Department of Transportation Pavement Type Selection Manual  
<http://www.dot.state.fl.us/pavementmanagement/PUBLICATIONS.shtm>
26. Florida Department of Transportation Right of Way Manual  
<http://www.dot.state.fl.us/rightofway/Documents.shtm>
27. Florida Department of Transportation Intelligent Transportation System Guide Book  
[http://www.dot.state.fl.us/TrafficOperations/Doc\\_Library/Doc\\_Library.shtm](http://www.dot.state.fl.us/TrafficOperations/Doc_Library/Doc_Library.shtm)
28. Federal Highway Administration Checklist and Guidelines for Review of Geotechnical Reports and Preliminary Plans and Specifications  
<http://www.fhwa.dot.gov/engineering/geotech/pubs/reviewguide/checklist.cfm>
29. Florida Department of Transportation Bicycle and Pedestrian Policies and Standards  
[http://www.dot.state.fl.us/safety/ped\\_bike/ped\\_bike\\_standards.shtm](http://www.dot.state.fl.us/safety/ped_bike/ped_bike_standards.shtm)
30. Federal Highway Administration Hydraulic Engineering Circular Number 18 (HEC 18).  
[http://www.fhwa.dot.gov/engineering/hydraulics/library\\_arc.cfm?pub\\_number=17](http://www.fhwa.dot.gov/engineering/hydraulics/library_arc.cfm?pub_number=17)
31. Florida Department of Transportation Manual of Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highways  
<http://www.dot.state.fl.us/rddesign/FloridaGreenbook/FGB.shtm>
32. Florida Statutes  
<http://www.leg.state.fl.us/Statutes/index.cfm?Mode=View%20Statutes&SubMenu=1&Tab=statutes&CFID=14677574&CFTOKEN=80981948>
33. Florida Department of Transportation Minimum Specifications for Traffic Control Signals and Devices (MSTCSD)  
[http://www.dot.state.fl.us/trafficoperations/Traf\\_Sys/terl/apl4.shtm](http://www.dot.state.fl.us/trafficoperations/Traf_Sys/terl/apl4.shtm)
34. Florida Department of Transportation Traffic Engineering Manual  
<http://www.dot.state.fl.us/trafficoperations/Operations/Studies/TEM/TEM.shtm>
35. Florida Department of Transportation Project Development and Environmental Manual  
<http://www.dot.state.fl.us/emo/pubs/pdeman/pdeman1.shtm>

## **B. Innovative Aspects**

All innovative aspects shall be identified separately as such in the Technical Proposal.

An innovative aspect does not include revisions to specifications, standards, or established Department policies. Innovation should be limited to Design/Build Firm's means and methods, roadway alignments, approach to project, etc.

## **C. Alternative Technical Concept (ATC) Proposals**

### **1 Alternative Technical Concept (ATC) Proposals**

The ATC process allows innovation, flexibility, time and cost savings on the design and construction of Design/Build projects. ATC's allow the Department to obtain the best value for the public. ATC meeting(s) may be held (maximum of two meetings per Design/Build Firm), in order for the Design/Build Firm to propose changes to supplied basic configurations, project scope, design criteria, or construction criteria. The proposed changes shall provide a solution that is equal or better than what is required by the Request for Proposal (RFP) as determined by the Department. A concept is not an ATC if it reduces quality, performance, reliability or scope or if the proposed concept is contemplated or not specifically prohibited by the RFP.

The purpose of this meeting is to discuss the proposed changes, answer questions and other relevant issues. Each Design/Build Firm with proposed changes may request a meeting to describe the proposed changes. The meeting should be between representatives of the Design/Build Firm and/or the Design/Build Engineer of Record and District/Central Office staff as needed to provide feedback on the ATC. The meeting should take place prior to the ATC due date noted in the RFP.

### **2 Submittal and Review of ATC'S**

After the meeting, the District Design Engineer (DDE) will communicate with the appropriate staff (i.e. District Structures Engineer, District Construction Engineer, District Maintenance Engineer, State Structures Engineer, State Roadway Design Engineer, FHWA, as applicable) as necessary, and respond to the Design/Build Firm in writing as to whether the ATC is acceptable, not acceptable, needs additional information or does not qualify as an ATC within two weeks of the ATC meeting. If the DDE or his designee determines that more information is required for the review of an ATC, questions should be prepared by the DDE or his designee to request and receive responses from the Design/Build Firm. The review should be completed within **one week** of the receipt of the ATC. If the review will require additional time, the Design/Build Firm should be notified in advance with an estimated timeframe for completion.

If the ATC will result in changes to design standards or criteria, the changes will need to be approved in accordance with the Department's procedures prior to responding to the Design/Build Firm.

The project file will clearly document all communications with any Design/Build Firm.

ATC's are accepted by the Department at its discretion and the Department reserves the right to reject any ATC submitted.

### **3 Contents of ATC Submittal**

All ATC submittals shall be sequential numbered and include the following information and discussions:

a) Description: A description and conceptual drawings of the configuration of the ATC or other appropriate descriptive information, including, if appropriate, product details and a traffic operational analysis;

- b) Usage: The locations where and an explanation of how the ATC would be used on the project;
- c) Deviations: References to requirements of the RFP which are inconsistent with the proposed ATC, an explanation of the nature of the deviations from the requirements and a request for approval of such deviations or a determination that the ATC is consistent with the requirements of the RFP;
- d) Analysis: An analysis justifying use of the ATC and why the deviation, if any, from the requirements of the RFP should be allowed;
- e) Impacts: A preliminary analysis of potential impacts on vehicular traffic (both during and after construction), environmental impacts, community impacts, safety, and life-cycle Project and infrastructure costs, including impacts on the cost of repair, maintenance, and operation;
- f) Risks: A description of added risks to the Department or third parties associated with implementation of the ATC;
- g) Quality: A description of how the ATC is equal or better in quality and performance than the requirements of the RFP; and
- h) Operations: Any changes in operation requirements associated with the ATC, including ease of operations;
- i) Maintenance: Any changes in maintenance requirements associated with the ATC, including ease of maintenance;
- j) Anticipated Life: Any changes in the anticipated life of the item comprising the ATC;

After the ATC meetings, the Contracting Unit, along with the Project Manager, will update the RFP criteria or issue an Addendum, if the ATC deviates from the RFP and is approved by the Department (**FHWA must approve such change as applicable**). Approved Design Exceptions or Design Variances will require an update to the RFP.

The Department reserves the right to disclose to all Design/Build Firms any issues raised during the ATC meetings, except to the extent that FDOT determines, in its sole discretion, such disclosure would reveal confidential or proprietary information of the ATC.

#### **4 Incorporation into Proposal**

The Design/Build Firm will have the option to include any ATC's to which it received approval in their proposal and the Proposal Price should reflect any incorporated ATC's.

By submitting a Proposal, the Design/Build Firm agrees, if it is not selected, to disclosure of its work product to the successful Design/Build Firm, **after award of the contract whichever occurs first.**

### **D. Geotechnical Services**

#### **1. General Conditions**

The Design/Build Firm will be responsible for identifying and performing any geotechnical investigation, analysis, and design dictated by the project needs. All geotechnical work necessary shall be performed in accordance with the governing regulations.

The Design/Build Firm shall provide the Department signed and sealed design and construction reports, as required. The reports shall be a record set of all geotechnical information, including relevant support data.

2. **Pile Foundations (Not Applicable to this Project)**
3. **Drilled Shaft Foundations for Bridges and Major Structures (Not Applicable to this Project)**
4. **Drilled Shaft Foundations for Miscellaneous Structures (Not Applicable to this Project)**

**E. Environmental Permits**

1. **Storm Water and Surface Water**

Plans shall be prepared in accordance with Chapter 62-25, Regulation of Stormwater Discharge, F.A.C.

2. **Permits**

All applicable data shall be prepared in accordance with Chapter 373 and 403, F.S., Chapters 40 and 62, F.A.C.; Rivers and Harbors Act of 1899, Section 404 of the Clean Water Act, and parts 114 and 115, Title 33, C.F.R. In addition to these Federal and State permitting requirements, any dredge and fill permitting required by local agencies shall be prepared in accordance with their specific regulations. Acquisition of all applicable permits will be the responsibility of the Design/Build Firm. Preparation of complete permit packages will be the responsibility of the Design/Build Firm. The Design/Build Firm will obtain permits while acting as an authorized representative for the "Department" for permitting purposes only. If any agency rejects or denies the permit application, it is the Design/Build Firm's responsibility to make whatever changes are necessary to ensure the permit is approved.

The project is within the South Florida Water Management District (SFWMD). The project may require an Environmental Resource Permit (ERP), U.S. Army Corps of Engineers (USACOE) Nationwide Permits, a Florida Fish and Wildlife Conservation Commission (FWC) – Gopher Tortoise Relocation Permit, a U. S. Coast Guard Permit, and a U.S. Environmental Protection Agency (EPA) – National Pollutant Discharge Elimination System (NPDES) Permit.

However, notwithstanding anything above to the contrary, upon the Design/Build Firm's preliminary request for extension of Contract Time, pursuant to Section 8-7.3 of the Standard Specifications, being made directly to the District Construction Engineer, the Department reserves unto the District Construction Engineer, in his sole and absolute discretion, according to the parameters set forth below, the authority to make a determination to grant a non-compensable time extension for any impacts beyond the reasonable control of the Design/Build Firm in securing permits. Furthermore, as to any such impact, no modification provision will be considered by the District Construction Engineer unless the Design/Build Firm clearly establishes that it has continuously from the beginning of the project aggressively, efficiently, and effectively pursued the securing of the permits, including the utilization of any and all reasonably available means and methods to overcome all impacts. There shall be no right of any kind on behalf of the Design/Build Firm to challenge or otherwise seek review or appeal in any forum of any determination made by the District Construction Engineer under this provision.

### 3. **Protected Species**

As part of the Design/Build Firm's responsibility to acquire all necessary permits or modify any approved permits, an evaluation of the project for impacts to protected species shall be performed by the Design/Build Firm in accordance with the Endangered Species Act, State Statutes, and all rules and regulations of each regulatory agency with jurisdiction on the project. This evaluation shall be of sufficient detail and properly documented so as to satisfy permit acquisition and/or any mitigation requirements. The Design/Build Firm shall be responsible for any agency coordination required to perform the evaluation, including all activities that impact any wildlife permits and any mitigation.

The Design/Build Firm is responsible for avoidance and minimization of impacts to protected species and their habitats within and adjacent to project limits to the maximum practicable extent. The Design/Build Firm shall be responsible for an assessment of all federal and state-protected species and their habitat that could be impacted by the project. Species-specific surveys conducted for protected species shall be in accordance with guidelines/protocol accepted by the regulatory agencies with the appropriate jurisdiction (e.g., U.S. Fish and Wildlife Service for federally-listed species and Florida FWC for state-listed/regulated species). The Design/Build Firm is advised that Federal, State, and/or local permits (including take/incidental take permits) may be required prior to impacting certain species (including, but not limited to, bald eagles, gopher tortoises, and tortoise commensal species), and/or prior to impacting individual animals, nests, burrows, or their habitat. The Design/Build Firm shall coordinate all applicable permit applications and discussions of protected species and/or habitat impact mitigation through the Department's Environmental Management Office for concurrence prior to coordination with any regulatory agency. The Department will be allotted 30 days to review and comment on any submittal or re-submittal.

The Design/Build Firm shall include the most recent version of the FDOT's General Plan Notes regarding Construction Precautions for threatened or endangered species as Special Provisions in the construction plans as determined by actual site conditions. The Design/Build Firm shall also include any other applicable provisions as directed by the Department.

The Design/Build Firm shall be responsible for all activities associated with the project (including any mitigation and/or any off-site activities such as borrow pits and staging areas) and all costs associated with any wildlife related permit, coordination, commitments, conditions, requirements, understandings, or agreements throughout the life of the project.

The Design/Build Firm must develop into their project schedules the statutory time allowed and/or other reasonable timeframe for agencies to review submittals, time necessary to prepare responses to agency questions/comments, additional review time by agencies, and the maximum and/or reasonable time period allowed for agency action.

### 4. **Archaeological and Historical Features**

The Design/Build Firm shall collect all data necessary to completely analyze the impacts to all cultural and historic resources for all off-project right-of-way.

The Design/Build Firm shall collect all data necessary to completely analyze the impacts to all cultural and historic resources for all project right-of-way, including any ponds and/or mitigation sites, and prepare a Cultural Resource Assessment Survey (CRAS) in accordance with the FDOT *PD&E Manual* Part 2, Chapter 13. This CRAS shall be provided to the Department's Environmental Management Office for review, approval, and further coordination with FHWA and the State Historic Preservation Office

(SHPO). The Department will be allotted 30 days to review and comment on any submittal or re-submittal.

The Design/Build Firm shall be responsible for all off-project activities associated with the project (including any off-site activities such as borrow pits and staging areas) and all costs associated with any archaeological and historical features and/or coordination, commitments, conditions, requirements, understandings, or agreements throughout the life of the project.

The Design/Build Firm must develop into their project schedules the statutory time allowed and/or other reasonable timeframe for agencies to review submittals, time necessary to prepare responses to agency questions/comments, additional review time by agencies, and the maximum and/or reasonable time period allowed for agency action.

#### **5. Project Development and Environmental (PD&E)**

Any design proposal that changes the intent of the existing approved PD&E documents must be approved by the Department and may require a re-evaluation. It is the responsibility of the Department to determine the need and complete a re-evaluation. The Design/Build Firm shall, at the Department's request, furnish all necessary information to assist with the Department's re-evaluation effort(s).

Commitments made in the approved PD&E documents (See Other Documents) will be honored by the Design/Build Firm. Costs associated with adherence to these commitments are the responsibility of the Design/Build Firm.

Copies of all the PD&E documents including any approved re-evaluations will be provided to shortlisted proposers.

#### **F. ITS Plans**

All plans are to be prepared in accordance with the latest design standards and practices, Department's Standard Specifications, Indices, Department's PPM, and shall be accurate, legible, complete in design, drawn to the scale indicated in the Department's manuals, and furnished in reproducible form.

#### **G. Signing and Marking Plans**

All plans are to be prepared in accordance with the latest design standards and practices (MUTCD), Department's Standard Specifications, Indexes, Department's PPM, and shall be accurate, legible, complete in design, drawn to the scale indicated in the Department's manuals, and furnished in reproducible form.

#### **H. Structures Plans**

All structures plans shall be prepared in accordance with the latest Department's Structures Manual, and interims and other Department's standards, policies, procedures, applicable temporary design bulletins and directions from the State and District Structures Design Engineers. This shall be accurate, legible, complete in design, drawn to appropriate scale, and furnished in reproducible form on material acceptable to the Department.

## **I. Railroad Coordination**

The Department does not anticipate a need to coordinate with the Railroad for this project. The Design/Build Firm shall review all information provided by the Department to determine if existing facilities are in place to eliminate railroad coordination. If it becomes necessary for the Design/Build Firm to place infrastructure either below or above the rail corridor, they shall provide the necessary railroad coordination. The Design/Build Firm shall be responsible for the cost of agreements and flagging services that may be required by the Railroad.

## **J. Survey**

The Design/Build Firm shall perform all surveying and mapping services necessary to complete the project. Survey services must also comply with all pertinent Florida Statutes and applicable rules in the F.A.C. All surveying and mapping work must be accomplished in accordance with the Department's Surveying Procedure, Topic Nos. 550-030-101; Right-of-Way Mapping Procedure, Topic No. 550-030-015; and Aerial Surveying Standards for Transportation Projects Procedure, Topic No. 550-020-002. This work must comply with the Minimum Technical Standards for Professional Surveyors and Mappers, Chapter 5J-17, F.A.C., pursuant to Section 472.027, F.S., and any special instructions from the Department. This survey also must comply with the Department of Environmental Protection Rule, Chapter 18-5, F.A.C., pursuant to Chapter 177, F.S., and the Department of Environmental Protection.

## **K. Verification of Existing Conditions**

The Design/Build Firm shall be responsible for verification of existing conditions, including research of all existing Department records and other information.

By execution of the contract, the Design/Build Firm specifically acknowledges and agrees that the Design/Build Firm is contracting and being compensated for performing adequate investigations of existing site conditions sufficient to support the design developed by the Design/Build Firm and that any information provided by the Department is merely to assist the Design/Build Firm in completing adequate site investigations. Notwithstanding any other provision in the contract documents to the contrary, no additional compensation will be paid in the event of any inaccuracies in the preliminary information.

## **L. Submittals**

### **1. Plans**

Plans must meet the minimum contents of a particular phase submittal prior to submission for review. The particular phase of each submittal shall be clearly indicated on the cover sheet. Component submittals must be accompanied by sufficient information for adjoining components or areas of work to allow for proper evaluation of the component under review.

The Design/Build Firm shall provide copies of required review documents as listed below.

#### **60% Component Plans**

15 sets of 11" X 17" ITS Plans

1 set of 11" X 17" ITS Plans in PDF format

CCTV Camera Video Survey

**90% Component Plans**

- 15 sets of 11" X 17" ITS Plans
- 1 set of 11" X 17" ITS Plans in PDF format
- 6 copies of Draft Final Geotechnical Report
- 6 sets of documentation – structures
- 6 sets of power drop calculations
- 6 sets of product cut sheets – electronic and networking equipment
- 5 copies of Technical Special Provisions
- Independent Peer reviewer's comments and comment responses

**Final Component Plans**

- 15 sets of 11" X 17" ITS Plans
- 1 set of 11" X 17" ITS Plans in PDF format
- 6 sets of final documentation
- 6 copies of Final Geotechnical Report
- 1 signed and sealed copy of Specifications Package
- 2 sets of electronic copies of Technical Special Provisions on CD
- Independent Peer Reviewer's signed and sealed cover letter that all comments have been addressed and resolved.

**Construction Set**

- 1 set of 11" X 17" copies of the signed and sealed plans for the Department to stamp "Released for Construction"
- 2 sets of electronic plans each in Microstation and PDF format (converted from Microstation)

**Record Set**

The Design/Build Firm shall furnish to the Department, upon project completion, the following:

- 1 set of 11" X 17" signed and sealed Plans
- 1 set of 11" X 17" signed and sealed Plans in PDF format
- 15 sets of 11" X 17" copies of the signed and sealed Plans
- 15 sets of final documentation (if different from final component submittal)
- 2 Final Project CDs
- 2 sets of electronic plans each in Microstation and PDF format (converted from Microstation)

The submittal of device specifications and equipment product sheets will not be accepted prior to the 90% plans submittal. The review time will begin upon receipt of a complete submittal. No fabrication, casting or construction will occur until all related design, shop drawings, plans, and specifications comments are resolved to the Department's satisfaction, except at the Design/Build Firm's own risk.

If utilizing printed literature, such as cut-sheets, to satisfy some or all of the requirements, there shall be no statements within the literature that conflict with this RFP, the MTRs, or the Design/Build Firm's written Technical Proposal, or that cause interpretation problems by the Department. The Design/Build Firm shall cross off, initial any such conflicting statements or data, and attach an appropriate statement clearly indicating how the RFP requirements are fulfilled. Submittals that are, in the judgment of the Department, insufficient to permit proper evaluation will be rejected.

The Design/Build Firm's Professional Engineer in responsible charge of the project's design shall professionally endorse (sign and seal and certify) the record prints, the Special Provisions, and all reference and support documents. The professional endorsement shall be performed in accordance with the Department's PPM.

The Design/Build Firm shall complete the record set as the project is being constructed. The record set becomes the as-builts at the end of the project. All changes shall be signed/sealed by the Engineer of Record (EOR). The record set shall reflect all changes initiated by the Design/Build Firm or the Department in the form of revisions.

The record set shall show Global Positioning System (GPS) coordinate (sub-foot accuracy) locations of all ATMS field elements and equipment, including cabinets, equipment boxes, pull boxes (electrical and fiber), splice boxes, access points, electrical cable routing, fiber optic cable routing, complete measurement of the fiber optic cable length including all slack cable, CCTV camera poles, vehicle detector poles, power drops, and generator locations, etc. Provide a separate table listing the GPS coordinates for all ITS field elements installed by the Design/Build Firm as a part of the record set, in a format to be specified by the Department. The record set submitted by the Design/Build Firm shall include fiber optic cable test results and fiber optic cable splice diagrams identifying the individual fiber splices on the various fiber optic cables. The fiber optic splice diagram shall be developed and presented in a format specified by the Department. The record set shall also include all directional bore logs, the actual splice link loss budget information, and the final power drop load calculations.

The record set shall be submitted on a Final Project CD upon completion of field construction activities and prior to beginning the 30-day Systems Operation Test. The CEI shall do a review of the record set prior to final acceptance in order to complete the record set.

The CEI shall certify the final plans as per Section 4.5.7 of Chapter 4 of the Preparation and Documentation Manual (TOPIC No. 700-050-010)

## **2. Milestones**

Component submittals, in addition to the plan submittals listed in the previous section, are required. In addition to various submittals mentioned throughout this document, the following milestone submittals are required:

- Shop Drawings
- Test Evaluation Matrix
- Test Plan Submittal
- Training Plan Submittal

## **3. Railroad Coordination (Not Applicable to this Project)**

### **M. Contract Duration**

The Design/Build Firm shall establish the contract duration for the subject project. In no event shall the contract duration exceed **500** calendar days. The schedule supporting the proposed contract duration will be submitted with the Technical Proposal and should identify if the work activity durations are based on calendar days or working days. The Proposed Contract Time (PCT) reflected in the schedule may be amended in the bid proposal. The official PCT will be the one submitted with the Bid Price Proposal.

## **N. Project Schedule**

The Design/Build Firm shall submit a project schedule, in accordance with Subarticle 8-3.2 (Design/Build Division I Specifications), which supports the established contract duration submitted as part of the Proposal. The Design/Build Firm's schedule should allow for a fifteen (15) working day review time for the Department's review of all submittals.

The minimum number of activities shall be those listed in the payout schedule and those listed below:

- Anticipated Award Date
- Notice to Proceed (NTP)
- Intersection Inventory
- Design Submittals
- Material Acquisition
- Design Survey
- Design Workshops for 60% and 90% Plan Submittals
- Design Reviews by the Department and FHWA
- Design Review / Acceptance Milestones
- Materials Quality Tracking
- Geotechnical Investigation
- Structural Design
- Test Evaluation Matrix Submittal
- Test Evaluation Matrix Review
- Design Approval for Construction
- Start of Construction
- Clearing and Grubbing
- Construction Mobilization
- Environmental Permit Acquisition
- Erosion Control
- Test Plan Submittal
- Test Plan Review
- Training Plan Submittal
- Training Plan Review
- Subsystem Testing
- As-built Plans/Record Drawings
- Additional Construction Milestones as determined by the Design/Build Firm
- Final Completion Date for All Work

The Department will review submittals through the Electronic Review Comment (ERC) system so all applicable Department personnel may comment on the various aspects of the plans. The Design/Build Firm shall designate one person to manage the responses to comments by Department personnel.

## **O. Key Personnel/Staffing**

The Design/Build Firm's work shall be performed and directed by key personnel identified in the Technical Proposal. Any changes in the indicated personnel shall be subject to review and approval by

the Department's Project Manager. The Design/Build Firm shall have available a professional staff that meets the minimum training and experience set forth in F.S. Chapter 455.

**P. Meetings and Progress Reporting**

The Design/Build Firm shall anticipate periodic meetings with Department personnel and other agencies as required for resolution of design and/or construction issues. The Design/Build Firm shall contact Ms. Debbie Tower, District Public Information Officer, at (239) 461-4311 for coordination with the District Public Information Office. These meetings may include, but are not limited to:

- Project NTP (Kick-Off) meeting
- Metropolitan Planning Organization (MPO) meetings
- County Board Meetings
- Pre-Construction meeting
- Pre-Integration meeting
- Department technical issue resolution
- Permit agency coordination
- Local government agency coordination
- Design Workshops (for the 60% and 90% plans submittals)
- Scoping Meetings

During design, the Design/Build Firm shall meet with the Department's Construction Project Manager on a monthly basis and provide a month look-ahead of the activities to be completed during the upcoming month.

During construction, the Design/Build Firm shall meet with the Department's Construction Project Manager on a weekly basis and provide a one-week look-ahead for activities to be performed during the coming week.

The Design/Build Firm shall, on a monthly basis, provide written progress reports to the Construction Project Manager that describe the items of concern and the work performed on each task.

A minimum of five primary project/design review meetings (NTP/Kick-Off, 60% Design Workshop, 90% Design Workshop, Pre-Construction, and Pre-Integration) shall be conducted:

**NTP (Kick-Off) Meeting** - The purposes of the Kick-Off Meeting will be to review the contract specifications, to ascertain the adequacy of the Design/Build Firm's efforts in defining and understanding the requirements as contained and detailed in these Design and Construction Criteria, and to identify any areas, which shall be clarified. In addition, the Project Schedule and Quality Assurance/Quality Control (QA/QC) Plan shall be reviewed.

All action items resulting from this meeting shall be satisfactorily addressed before design and construction planning activities can begin. All items reviewed at the meeting shall be coordinated with the Design and Construction Criteria to ensure contract compliance.

The meeting will be held at the Department's facilities on a mutually agreeable date after the NTP date. All information, review documentation, and materials required to conduct and support the meeting

including the Project Schedule shall be submitted for review by the Department at least 10 calendar days prior to the scheduled meeting date.

The Kick-Off Meeting shall address, at a minimum, the following items:

- Review of coordination issues
- Review of technical and contractual requirements
- Review of the QA/QC Plan
- Review of submittal process and control
- Review of the action item / problem resolution process
- Review of detailed Project Schedule
- Agree on next project meeting and tentative project meeting schedule

**60% Design Workshop** – The purpose of the 60 % Design Workshop is for the Department and the Design/Build Firm to meet and discuss the preliminary 60% plans submittal at a face-to-face meeting to provide feedback on the initial design. The Design/ Build Firm shall submit preliminary 60% plans for review by the Department at least seven days prior to the workshop. This review is intended to be cursory in nature to flush out any major issues and shall not be considered as an all-encompassing review. During the workshop, the Department and Design/Build Firm shall be involved in a page -by-page review of the plans and discussion of all design issues. Once the workshop is completed, the Design/Build Firm shall revise the design as discussed and submit the formal 60% plans for a 15-working-day review by the Department.

**90% Design Workshop** – The purpose of the 90 % Design Workshop is for the Department and the Design/Build Firm to meet and discuss the preliminary 90% plans submittal at a face-to-face meeting to provide feedback on the design. The Design/Build Firm shall submit preliminary 90% plans for review by the Department at least seven days prior to the workshop. This review is intended to be cursory in nature to flush out any major issues and shall not be considered as an all-encompassing review. During the workshop, the Department and Design/Build Firm shall be involved in a page -by-page review of the plans and discussion of all design issues. Once the workshop is completed, the Design/Build Firm shall revise the design as discussed and submit the formal 90% plans for a 15-working-day review by the Department.

**Pre-Construction Meeting** - The purpose of the Pre-Construction Meeting shall be to verify the Design/Build Firm's installation and deployment plans by reviewing factory and pre-installation test results, the Installation/Construction Plan, utility coordination issues, and other issues.

The Pre-Construction Meeting shall be scheduled by the CEI at least 30 calendar days before the beginning of construction / installation activities. The Design/Build Firm shall identify any concerns regarding deployment and provide detailed information on how such concerns will be addressed and minimized.

The CEI Senior Project Engineer will schedule the Pre-Construction Meeting. The Design/Build Firm shall provide all documentation as required to support the meeting to include detailed functional narrative text, and system and subsystem drawings and schematics. Also included shall be the plans and engineering specifications to demonstrate all elements of the proposed design, which includes, but is not limited to: technical, functional, and operational requirements; ITS/communications; equipment; termination/patch panels; performance criteria; and details relating to interfaces with other agencies and subsystems.

The Pre-Construction Meeting shall address, at a minimum, the following items:

- Review of the technical and operational details of the Lee County ATMS including, but not limited to, the proposed equipment list, equipment configuration, cabinet layout, network interfaces, fiber splice plan, reconfiguration and fiber utilization plans
- Review enclosure / cabinet design and configuration
- Review any outstanding action items/system issues from previous project meetings
- Identify and document all unresolved items with action responsibilities defined
- Review of the Installation/Construction Plans
- Review of detailed Integration Plans and schedule
- Submittal of the Test Evaluation Matrix for review
- Submittal of the Test Plans for review
- Review plans for maintaining existing operations during the construction and integration activities of this project
- Review of MOT and lane closure plans, if any
- Review any potential safety issues during installation

All action items resulting from the Pre-Construction Meeting shall be satisfactorily addressed by the Design/Build Firm and reviewed and accepted by the Department before granting final Pre-Construction Meeting approval. Construction shall not commence until all actions have been resolved.

All items reviewed at the Pre-Construction Meeting shall be coordinated with the RFP to ensure contract compliance with all items. Approval of the Pre-Construction Meeting does not release the Design/Build Firm's overall responsibility for ensuring that all design requirements, as specified, have been achieved in the final design and implementation.

**Pre-Integration Meeting** - The purpose of the Pre-Integration Meeting is to verify the Design/Build Firm's integration plans by reviewing proposed splicing diagrams, device placement plans, IP addressing schemes, proposed TOC network upgrades, and other network design issues.

The Pre-Integration Meeting shall occur at least 30 calendar days before the beginning of integration activities. The Design/Build Firm shall identify any concerns regarding the integration and provide detailed information on how to address and minimize such concerns.

The CEI Senior Project Engineer will schedule the Pre-Integration Meeting. The Design/Build Firm shall provide all documentation as required to support the meeting to include detailed functional narrative text, and system and subsystem drawings and schematics. Also included shall be the device installation worksheets to demonstrate all elements of the proposed design, which includes, but is not limited to: technical, functional, and operational requirements; ITS/communications; equipment; termination/patch panels; performance criteria; and details relating to interfaces with other agencies and subsystems.

The Pre-Integration Meeting shall address, at a minimum, the following items:

- The site survey to prepare the creation of the system database, configuration files, and system graphics.
- Troubleshooting of any Design/Build Firm-installed hardware issues (both field and central) that affect the integration work.

- Preparing for the installation of the hardware and software required to operate the vendor-provided software.
- Provide ITS field device information, such as equipment configuration diagrams, IP addresses, protocols, and documentation (e.g., users' manual, troubleshooting guide, etc.).
- Provide the configuration of the ITS field devices for integration with the Econolite Centrac® software, including link, lane, roadway, and device configurations.
- Provide post-installation services. The services shall include populating the database and tables and creating map links.
- Procurement of all software licenses for workstations.

All action items resulting from the Pre-Integration Meeting shall be satisfactorily addressed by the Design/Build Firm and reviewed and accepted by the Department before granting final Pre-Integration Meeting approval. Integration shall not commence until all actions have been resolved.

All items reviewed at the Pre-Integration Meeting shall be coordinated with the RFP to ensure contract compliance with all items. Approval of the Pre-Integration Meeting does not release the Design/Build Firm's overall responsibility for ensuring that all design requirements, as specified, have been achieved in the final design and implementation.

## **Q. Public Involvement**

### **1. General**

Public involvement is an important aspect of the project. Public involvement includes communicating to all interested persons, groups, and government organizations information regarding the development of the project. A Public Involvement Consultant (PIC) has been hired by the Department to carry out an exhaustive Public Involvement Campaign and a marketing effort. The Design/Build Firm shall contact Ms. Debbie Tower, District Public Information Officer, at (239) 461-4311 for coordination with the District Public Information Office. The Design/Build Firm will continue to be part of the Public Involvement effort but on a limited basis as described below.

### **2. Community Awareness**

The Design/Build Firm will review and comment on a Community Awareness Program provided by the PIC for the project.

### **3. Public Meetings**

The Design/Build Firm shall provide all support necessary for the PIC to hold various public meetings, which may include:

- Kick-off or introductory meeting
- MPO Citizens Advisory Committee Meetings
- MPO Transportation Technical Committee Meetings
- MPO Meetings
- Public Information Meetings
- Elected and appointed officials

- Special interest groups (private groups, homeowners associations, environmental groups, minority groups and individuals)

The Design/Build Firm shall include attendance at two meetings per month for the term of the contract to support the public involvement program.

For any of the above type meetings, the Design/Build Firm shall provide all technical assistance, data, and information necessary for the PIC to produce display boards, printed material, video graphics, computerized graphics, etc., and information necessary for the day-to-day exchange of information with the public, all agencies, and elected officials in order to keep them informed as to the progress and impacts that the proposed project will create. This includes workshops, information meetings, and public hearings.

The Design/Build Firm shall, on an as-needed basis, attend the meetings with an appropriate number of personnel to assist the Department's Project Representative/PIC. The Design/Build Firm shall forward all requests for group meetings to the PIC. The Design/Build Firm shall inform the PIC of any meetings with individuals that occur without prior notice.

#### 4. **Public Workshops, Information Meetings**

The Design/Build Firm shall provide all the support services listed in No. 3 above. All legal/display ads announcing workshops, information meetings, and public meetings will be prepared and paid for by the PIC.

The Department will be responsible for the legal/display advertisements for design concept acceptance. The PIC will be responsible for preparing and mailing (including postage) for all letters announcing workshops and information meetings.

#### 5. **Public Involvement Data**

The Design/Build Firm is responsible for the following:

- Coordinating with the PIC
- Identifying possible permit and review agencies and providing names and contact information for these agencies to the PIC
- Providing required expertise (staff members) to assist the PIC on an as-needed basis
- Preparing color graphic renderings and /or computer generated graphics to depict the proposed improvements for coordination with the Department, local governments, the Urban Design Guidelines Committee, and other agencies

The collection of public input occurs throughout the life of the project and requires maintaining files, newspaper clippings, letters, and especially direct contacts before, during, and after any of the public meetings. Articles such as those mentioned shall be provided to the PIC for their use and records.

In addition to collecting public input data, the Design/Build Firm may be asked by the PIC to prepare responses to any public inquiries as a result of the public involvement process. The Department shall review all responses prior to mailing.

## **R. Quality Management Plan (QMP)**

### **1. Design**

The Design/Build Firm shall be responsible for the professional quality, technical accuracy, and coordination of all surveys, designs, drawings, specifications, geotechnical, and other services furnished by the Design/Build Firm under this contract.

The Design/Build Firm shall provide a Design QMP, which describes the Quality Control (QC) procedures to be utilized to verify, independently check, and review all design drawings, specifications, and other documentation prepared as a part of the contract. In addition, the QMP shall establish a Quality Assurance (QA) program to confirm that the QC procedures are followed. The Design/Build Firm shall describe how the checking and review processes are to be documented to verify that the required procedures were followed. The QMP may be one utilized by the Design/Build Firm as part of their normal operation or it may be one specifically designed for this project. The Design/Build Firm shall submit a QMP within 15 working days of the written NTP. A marked up set of prints from the QC review will be included with each review submittal. The responsible Professional Engineers or Professional Surveyor that performed the QC review, as well as the QA manager, will sign a statement certifying that the review was conducted.

The Design/Build Firm shall, without additional compensation, correct all errors or deficiencies in the surveys, designs, drawings, specifications, and/or other services.

No fabrication, casting, or construction will occur until all related design review and shop drawing review comments are resolved.

### **2. Construction**

The Design/Build Firm shall be responsible for developing and maintaining a Construction QC Plan in accordance with Section 105 of Standard Specifications which describes their QC procedures to verify, check, and maintain control of key construction processes and materials.

The sampling, testing and reporting of all materials used shall be in compliance with the Sampling, Testing and Reporting Guide (STRG) provided by the Department. The Design/Build Firm will use the Department's database(s) to allow audits of materials used to assure compliance with the STRG. The Department has listed the most commonly used materials and details in the Department's database. When materials being used are not in the Department's database list, the Design/Build Firm shall use appropriate material details from the STRG to report sampling and testing. Refer to the "Access Instruction for LIMS" for more information on how to gain access to the Department's databases:

<http://www.dot.state.fl.us/statematerialsoffice/quality/programs/qualitycontrol/contractor.shtml>

Prepare and submit to the Engineer a Job Guide Schedule (JGS) using the Laboratory Information Management System (LIMS) 21 calendar days prior to commencement of construction. Update the JGS and submit it to the Engineer prior to each monthly progress estimate. The Department may not authorize payment of any progress estimate not accompanied by an up-to-date JGS. Maintain the JGS throughout the project including the quantity placed since the previous submittal, total to date quantity, and any additional materials placed. Do not commence work activities that require testing until the JGS has been

reviewed and accepted by the Engineer. At final acceptance, submit a final JGS that includes all materials used on the project in the same format as the monthly reports.

The Department shall maintain its rights to inspect construction activities and request any documentation from the Design/Build Firm to ensure quality products and services are being provided in accordance with the Department's Materials Acceptance Program.

**S. Liaison Office**

The Department and the Design/Build Firm will designate a Liaison Office and a Project Manager who shall be the representative of their respective organizations for the project.

**T. Schedule of Values**

The Design/Build Firm will be responsible for preparing a Schedule of Values. Invoicing the Department will be based on current invoicing policy and procedure. Invoicing will be based on the completion or percentage of completion of major, well-defined tasks as defined in the Schedule of Values. Final payment will be made upon final acceptance by the Department of the Design/Build project. Tracking DBE participation will be required under normal procedures according to the Construction Projects Administration Manual (CPAM). The Design/Build Firm must submit the Schedule of Values to the Department for approval. No invoices shall be submitted prior to Department approval of the Schedule of Values.

Upon receipt of the invoice, the Department's Project Manager will make judgment on whether or not work of sufficient quality and quantity has been accomplished by comparing the reported percent complete against actual work accomplished.

**U. Computer Automation**

The project shall be developed utilizing computer automation systems in order to facilitate the development of the contract plans. Various software and operating systems were developed to aid in assuring quality and conformance with Department policies and procedures. Seed Files, Cell Libraries, User Commands, MDL Applications, and related programs developed for roadway design and drafting are available for the MicroStation V8 format in the FDOT CADD Software Suite. However, it is the responsibility of the Design/Build Firm to obtain and utilize current Department releases of all CADD applications.

The Design/Build Firm's role and responsibilities are defined in the Department's CADD Manual. The Design/Build Firm will be required to submit final documents and files which shall include complete CADD design and coordinate geometry files in Intergraph / Microstation format, as described in the above-referenced document.

The archived submittal shall also include either a TIMS database file, CADD Index file (generated from RDMENU), or documentation that shall contain the project history, file descriptions of all (and only ) project files, reference file cross references, and plotting criteria (e.g. batch, level symbology, view attributes, and display requirements). A printed directory of the archived submittal shall be included.

**V. Construction Engineering and Inspection**

The Department is responsible for providing CEI and QA Engineering.

The Design/Build Firm is subject to the Department's Independent Assurance (IA) Procedures.

#### **W. Testing**

The Department or its representative will perform verification and resolution testing services in accordance with the latest Specifications. On all Federal Aid Projects, the Department or its representative shall perform verification sampling and testing on site as well as off-site locations such as pre-stress plants, batch plants, structural steel and weld, fabrication plants, etc.

Per FHWA guidance, the Systems Engineering Process consists of tying contract and functional requirements to verification methods using a Requirements Traceability Verification Matrix (RTVM). The Department shall provide the project RTVM to the Design/Build Firm for their use in verifying that all project requirements are met. The RTVM is a table that lists requirements from the RFP and MTRs by section and description. The Design/Build Firm shall verify each requirement within the RTVM using one of four methods of verification: analysis, demonstration, inspection, or testing. The final completed RTVM shall be delivered to the Department prior to Final Acceptance.

All items requiring a test must be included in the Design/Build Firm-developed Test Evaluation Matrix. The Design/Build Firm shall utilize this Test Evaluation Matrix to develop the project test plans for the Factory Acceptance Tests, Stand-alone Tests, Subsystem Tests, and 30 consecutive calendar day Operational Test.

Thirty days after receiving "Released for Construction" plans, the Design/Build Firm shall submit a comprehensive Test Plan to the Department for review and approval. The Design/Build Firm shall follow it throughout the project. The Test Plan Submittal shall indicate the tests and procedures to be used at various stages of testing during design/development and deployment of this project. The submittal shall include a list of tests, a description of each test, a schedule for conducting the tests (i.e., factory, pre-installation, post-installation, final acceptance tests, etc.), test procedures, and test forms to be utilized during each test.

Upon Department review and approval of the submittal, the tests, procedures, and test forms shall be used by the Design/Build Firm to verify system performance and to record the results of all testing for this project in accordance with the schedule. Furthermore, the Department maintains the right to have testing performed and/or observed by a third party.

Any deviations or changes to the approved Test Plan shall be resubmitted for review and approval by the Department 14 calendar days prior to any planned test activity stage. No tests shall be conducted until the Department has approved the Test Plan.

#### **X. Value Added**

The Design/Build Firm may provide Value Added Project Features, in accordance with Article 5-14 of the Specifications, for the following features:

- ATMS components – hardware and software
- CCTV system components
- Communications components – hardware and software
- Video wall display components – hardware and software

- Computer hardware and software
- Test equipment and software
- Any other products or features the Design/Build Firm desires

The Design/Build Firm shall develop the Value Added criteria, measurable standards, and remedial work plans in the Design/Build Firm's Technical Proposal for features proposed by the Design/Build Firm.

The Design/Build Firm shall provide a warranty covering workmanship and materials as part of their Technical Proposal to be effective upon contract execution. The Design/Build Firm shall develop the warranty criteria, measurable standards, and remedial work plans for all products or features as specified in their Technical Proposal.

The Design/Build Firm shall submit a repair or replacement plan within 48 hours from the receipt of the notice of the occurrence by the Department. If the Design/Build Firm is unable or unwilling to begin the repair of defects within five days of the submittal of a repair plan, the Department may perform the repair of the deficiencies or defects and submit a claim for the repairs.

The Design/Build Firm shall conduct a review of the Contractor Guaranteed project features during the guarantee period in accordance with the frequency established in the contract, but in any case, at least once annually. The Department may conduct a review at intermediate times as determined necessary by the Department. The Design/Build Firm will conduct a final review no later than 45 calendar days before the end of the guarantee period for each item.

All reviews by the Design/Build Firm will be conducted at no cost to the Department. The Department will be advised of the review schedule at least five calendar days prior to the review taking place. The results of the review, intermediate or final, shall be made available to the Department within 15 calendar days after completion of the review.

If the review findings, intermediate or final, are not accepted by the Department, the Department will provide written notification to the Design/Build Firm within 30 calendar days of the date of receipt of the results of the review.

The Design/Build Firm shall guarantee the performance of all signal components in accordance with Sections 645 and 611, Value Added Signal Installation of the Standard Specifications.

#### **Y. Adjoining Construction Projects**

The Design/Build Firm shall be responsible for coordinating construction activities with other construction projects that are impacted by or impact this project. This includes projects under the jurisdiction of local governments, the Department, or other regional and state agencies.

Listed below are on-going projects within the Lee County ATMS limits. This list is not all-inclusive.

- REHABILITATE PAVEMENT FPID No. 428151-1  
Daniels Parkway From Chamberlin Parkway To Gateway Boulevard
- INTRASTATE INTERSTATE FPID No. 411042-1  
I-75 At SR 80 Interchange
- INTRASTATE INTERSTATE FPID No. 413065-1  
I-75 At SR 884 (Colonial Boulevard) Interchange

- INTRASTATE INTERSTATE FPID No. 406225-3  
I-75 At Corkscrew Road Interchange
- INTRASTATE INTERSTATE FPID No. 406224-2  
I-75 At Daniels Parkway Interchange
- SIDEWALK 425555-1  
Safe Routes to School
- OFF STATE HIGHWAY SYSTEM/OFF FEDERAL SYSTEM FPID No. 425555-1  
Safe Routes To School
- NON-INTRASTATE STATE HIGHWAY FPID No. 408040-1  
SR 739 From Six Mile Cypress Parkway To Daniels Parkway
- NON-INTRASTATE STATE HIGHWAY FPID No. 195719-1  
SR 739 From US 41(South of Alico) To Six Mile Cypress Parkway
- NON-INTRASTATE STATE HIGHWAY FPID No. 425231-1  
SR 78 From East of Royal Tee Boulevard To East of SW 19th Avenue
- NON-INTRASTATE STATE HIGHWAY FPID No. 413695-1  
SR 78 (Pine Island Road) From Burnt Store Road To West of Chiquita Boulevard
- NON-INTRASTATE STATE HIGHWAY FPID No. 425230-1  
SR 78 (Pine Island Road) From East of Del Prado Boulevard To West of US 41 (SR 45)
- BIKE LANE/SIDEWALK FPID No. 430119-1  
SR 78 From US 41 Business To Hart Road
- RESURFACING FPID No. 425230-1  
SR 78 (Pine Island Road) From East of Del Prado Boulevard to West of US 41
- NON-INTRASTATE STATE HIGHWAY FPID No. 424812-1  
SR 82 at Columbus Boulevard
- NON-INTRASTATE STATE HIGHWAY FPID No. 417244-2  
SR 82 (Immokalee Road) From West of Sunshine Boulevard To West of Columbus Boulevard
- NON-INTRASTATE STATE HIGHWAY FPID No. 429894-1  
SR 82 (Immokalee Road) At Homestead Road
- NON-INTRASTATE STATE HIGHWAY FPID No. 195488-2  
SR 82 (MLK Boulevard) From East of Ortiz Avenue (CR 86 5) To South of Lee Boulevard (CR 884)
- NON-INTRASTATE STATE HIGHWAY FPID No. 420115-1  
SR 867 (McGregor Boulevard) From College Parkway To Wilson Avenue

- NON-INTRASTATE STATE HIGHWAY FPID No. 427306-1  
SR 884 At Six Mile Cypress Parkway
- OFF STATE HIGHWAY SYSTEM/OFF FEDERAL SYSTEM FPID No. 425554-1  
Tarpon Street From SR 80 (Palm Beach Boulevard) To Edgewood Avenue
- NON-INTRASTATE STATE HIGHWAY FPID No. 427407-1  
US 41 From Collier County Line To Corkscrew Road
- NON-INTRASTATE STATE HIGHWAY WIDENING FPID No. 195765-1  
US 41 From Corkscrew Road To San Carlos Boulevard
- NON-INTRASTATE STATE HIGHWAY FPID No. 425127-1  
US 41 (SR 45) From Caloosahatchee River To SR 78 (Pine Island Road)
- NON-INTRASTATE STATE HIGHWAY FPID No. 425132-1  
US 41 (SR 45) From Littleton Road To Del Prado Boulevard
- NON-INTRASTATE STATE HIGHWAY FPID No. 195536-3  
US 41 (SR 45) From North of SR 78 To South of US 41 Business
- NON-INTRASTATE STATE HIGHWAY FPID No. 422630-1  
US 41 (SR 45) From South of Daniels Parkway To Palm Drive
- NON-INTRASTATE STATE HIGHWAY FPID No. 195737-1  
US 41 From North of Bonita Beach Road To Old US 41
- NON-INTRASTATE STATE HIGHWAY FPID No. 429099-1  
US 41 From North Fork Road To Sabal Springs Boulevard
- NON-INTRASTATE STATE HIGHWAY FPID No. 4299547-1  
US 41 (SR 45) From Sabal Springs Boulevard to Charlotte County Line
- NON-INTRASTATE STATE HIGHWAY FPID No. 429895-1  
US 41 (SR 45) From SR 78 (Pine Island Road) to Stockton Street
- NON-INTRASTATE STATE HIGHWAY FPID No. 429509-1  
US 41 (SR 45) From Hanson Street to SR 82
- WIDENING FPID No. 428151-1  
Daniels Parkway from Chamberlin Parkway to Gateway Boulevard
- NON-INTRASTATE STATE HIGHWAY FPID No. 425867-1  
Del Prado Boulevard From NE 7<sup>th</sup> Street to South of Diplomat Parkway
- NON-INTRASTATE STATE HIGHWAY FPID No. 421116-1  
US 41 Business From Littleton Road To US 41

- I-75 AT BONITA BEACH ROAD  
Interchange improvements including installation of shared use paths and turn lanes on Bonita Beach Road
- COLONIAL BOULEVARD (FOUR TO SIX LANES)  
From I-75 to SR 82
- SIX MILE CYPRESS PARKWAY (TWO TO FOUR LANES)  
From North of Daniels Parkway to South of Winkler Avenue
- DANIELS PARKWAY (FOUR TO SIX LANES)  
From Chamberlin Parkway to Gateway Boulevard
- DEL PRADO BOULEVARD (FOUR TO SIX LANES)  
From Diplomat Parkway to Kismet Parkway
- DEL PRADO BOULEVARD AT SR 78  
Intersection Improvements
- SUMMERLIN ROAD (OVERPASS AT COLLEGE PARKWAY, FOUR TO SIX LANES FROM OVERPASS TO BOY SCOUT ROAD)  
From Cypress Lake Boulevard to Boy Scout Road

**Z. Use of Department Owned Right-of-Way**

Use of Department owned Right-of-Way by the Design/Build Firm for the purpose of equipment or material storage, lay-down facilities, pre-cast material fabrication sites, batch plants for the production of asphalt, concrete or other construction related materials, etc. shall require advance approval by the Department. Use of Department owned Right-of-Way by the Design/Build Firm for these purposes is expressly limited to the project referenced in this RFP.

**AA. Design Issue Escalation**

The Department has established the issue escalation process for design questions and conflict resolution that the Design/Build Firm shall follow unless revised by the Partnering agreement. All issues are to be directed to the Department Project Manager. If the issue cannot be resolved at this level, the Department Project Manager shall forward the issue to the next level in the process. The escalation process begins with the District Design Engineer, followed by the Director of Transportation Operations, and finally to the District Secretary. Each level shall have a maximum of three working days to answer, resolve, or address the issue. This three-day window is a response time and does not infer resolution. Questions may be expressed verbally and followed up in writing. The Department Project Manager will respond in a timely manner but not to exceed three working days. The Design/Build Firm shall provide any available supporting documentation.

The Design/Build Firm shall provide a similar issue escalation process for his organization with personnel of similar levels of responsibility.

The District Secretary will have the final authority on design decisions.

**BB. Construction Clarification, Conflict Resolution, and Issue Escalation**

In the event that construction problems occur, the resolution of those problems will be processed in one of the following two ways unless revised by a Partnering agreement:

- If the resolution does not change the original intent of the Technical Proposal/RFP, the Design/Build Firm Engineer of Record will be responsible for developing the design solution to the construction problem and the District Resident Engineer will be responsible for review and response within 10 working days. The District Resident Engineer will either concur with the proposed solution or, if the District Resident Engineer has concerns, the issue will be escalated as described in the process below.
- If the resolution does alter the original intent of the Technical Proposal/RFP, the Engineer of Record will develop the proposed solution, copy in the District Resident Engineer, and send it to the District Construction Office for review and response through the Department Project Manager. The District Construction Office will respond to the proposed solution within 10 working days. The District Construction Office will either concur with the proposed solution or, if the District Resident Engineer has concerns, the issue will be escalated as described in the process below. Changes to the original intent of the Technical Proposal/RFP will require a contract change order and FHWA approval.
- The Department has established the issue escalation process for construction questions and conflict resolution that the Design/Build Firm shall follow unless revised by the Partnering agreement. All issues are to be directed to the Department Project Manager. If the issue cannot be resolved at this level, the Department Project Manager shall forward the issue to the next level in the process. The escalation process begins with the District Construction Engineer, followed by the Director of Transportation Operations, and finally to the District Secretary. Each level shall have a maximum of three working days to answer, resolve, or address the issue. This three-day window is a response time and does not infer resolution. Questions may be expressed verbally and followed up in writing. The Department Project Manager will respond in a timely manner but not to exceed three working days. The Design/Build Firm shall provide any available supporting documentation.

The Design/Build Firm shall provide a similar chain of command for his organization with personnel of similar levels of responsibility.

**Should an impasse develop, the Dispute Review Board shall assist in the resolution of disputes and claims arising out of the work on the Contract.**

**VI. Design and Construction Criteria.**

**A. General**

The Design/Build Firm shall be responsible for: detailed plan checking as outlined in the PPM, as described in the RFP, and the Design and Construction criteria package. This includes a checklist of the items listed in the PPM for each completed phase submittal. Roadway submittals may be broken down

into grading, drainage, walls, ITS, signing & pavement marking, signalization, landscaping, and final geometry components. The component design must be in conformity with the Design and Construction Criteria requirements, approved preliminary layout, and the concept as provided in the Technical Proposal.

Before construction activities can begin for a specific component, signed and sealed design plans and calculations supporting the design for that component must be reviewed by the Department. Component submittals shall be complete submittals along with all the supporting information necessary for review. The work must represent logical work activities and must show impacts on subsequent work on this project. Any modification to the component construction due to subsequent design changes as the result of design development is solely the Design/Build Firm's risk. Upon review by the Department, the plans will be stamped "Released for Construction" and initialed and dated by the reviewer. Any construction initiated by the Design/Build Firm prior to receiving signed and sealed plans stamped "Released for Construction" shall be at the sole risk of the Design/Build Firm.

All design and construction documents shall be prepared using the English system.

The Design/Build Firm's design and construction shall place ATMS components to meet minimum clear zone requirements. New guardrail is not allowed and shall not be used to reduce clear zone requirements. Components may be placed behind existing guardrail but shall provide adequate room for access and maintenance activities. Where possible, do not place components in areas that require shutting down a lane for maintenance activities. All work shall be within the existing right-of-way. The Design/Build Firm shall take responsibility for litter removal and mowing of all disturbed areas, including a five-foot perimeter around each such area. Disturbed areas include all trenching operations, all installed boxes, pole/device installations, staging areas, and stockpile areas. The Design/Build Firm shall coordinate with affected local maintaining agencies and mowing contractors to eliminate work conflicts. The cost of litter removal and mowing shall be included in the Design/Build Firm's price proposal. This responsibility shall last until final acceptance of the project.

Place all fiber communications in conduit, pull boxes, and splice boxes separate from all other cables or wires to any components on the project.

All concrete poles (except index 17504, service point details) shall have concrete foundations designed by a licensed structural engineer.

Existing signal structures and foundations (mast arms, strain poles, etc.) that will carry additional loads shall be investigated for structural adequacy according to current standards by a licensed structural engineer.

Attachment to existing bridges shall be designed by a licensed structural engineer. Overhead or upwardly inclined installations of Adhesive Anchors are prohibited regardless of their design factor. There shall be no overstress to any structural element of the bridge as a result of any new attachment.

**B. Geotechnical Services (Not Applicable to the Project)**

**C. Utility Coordination**

The Design/Build Firm shall utilize a single dedicated person responsible for managing all utility coordination. This person shall be contractually referred to as the Utility Coordination Manager and shall be identified in the Design/Build Firm's proposal. The Design/Build Firm shall notify the Department in

writing of any change in the identity of the Utility Coordination Manager. The Utility Coordination Manager shall have the following knowledge, skills, and abilities:

1. A minimum of 4 years of experience performing utility coordination in accordance with Department standards, policies, and procedures.
2. Knowledge of the Department plans production process and utility coordination practices,
3. Knowledge of Department agreements, standards, policies, and procedures.

The Design/Build Firm's Utility Coordination Manager shall be responsible for managing all utility coordination, including, but not limited to:

1. Ensuring that all utility coordination and activities are conducted in accordance with the requirements of the Contract Documents.
2. Identifying all existing utilities and coordinating any new installations. Reviewing proposed utility permit application packages and recommending approval/disapproval of each permit application based on the compatibility of the permit as related to the Design/Build Firm's plans.
3. Scheduling utility meetings, keeping and distributing minutes of all utility meetings, and ensuring expedient follow-up on all unresolved issues.
4. Distributing all plans, conflict matrixes, and changes to affected utility owners and making sure this information is properly coordinated.
5. Identifying and coordinating the execution and performance under any agreement that is required for any utility work needed in the Design/Build project. Reviewing, approving, signing, and coordinating the implementation of all Utility Work Schedules.
6. Resolving utility conflicts.
7. Obtaining and maintaining all appropriate Sunshine State One Call Tickets.
8. Performing Constructability Reviews of plans prior to construction activities with regard to the installation, removal, temporary removal, de-energizing, deactivation, relocation, or adjustment of utilities.
9. Providing periodic project updates to the Department Project Manager and District Utility Office as requested.
10. Coordination with the Department on any issues that arise concerning reimbursement of utility work costs.

The Department has reviewed the project limits and has determined which utility facilities located within the project limits may be impacted by the Project and whether the cost of any necessary utility work as to that impacted utility is to be borne by the utility or by the Design/Build Firm. That information is contained herein. The following Utility Agency/Owners (UA/Os) have been identified by the Department as having facilities within the project corridor which may be impacted by the Project. Also provided below is a determination made by the Department as to the eligibility of reimbursement for each potentially impacted UA/O identified herein.

UA/O	Eligible for Reimbursement (Y/N)
Aqua Utilities FL - Fountain Lakes	N
ATT/T	N
Bonita Springs Utilities, INC	N
CENTURYLINK	N

UA/O	Eligible for Reimbursement (Y/N)
City of Bonita Springs	N
City of Cape Coral	N
City of Fort Myers	N
Collier County Stake & Locates	N
COMCAST	N
COMCAST Cable	N
Connexion Technologies	N
FDOT District One	N
FGUA/North Fort Myers Utility	N
Florida Power and Light	N
FPL Fibernet, LLC	N
Lee County Electric Co-Op	N
Lee County Signal Department	N
Lee County Utilities	N
Level 3 Communications, LLC	N
NI Florida, INC	N
QWEST Communications	N
TECO Peoples Gas – Fort Myers	N
US Metropolitan Telecom, LLC	N

**D. Intelligent Transportation System (ITS)**

The following are descriptions of the major project elements and required services for this project, which include, but are not limited to:

**Design Services** – Provide complete design for the installation of ATMS field elements, including traffic controller assemblies, CCTV cameras, non-intrusive vehicle detectors, fiber optic backbone cable, and communications between ATMS field elements and the TOC. The design services shall include all survey, site visits, obtaining all necessary utility and base plans, and arranging for all required coordination on relevant issues for the complete design of the system. The design shall consider future known design and construction roadway projects. Do not install pull boxes and splice boxes on slopes. Present the design in the form of signed and sealed construction plans.

**CCTV Cameras** – Install CCTV cameras as part of this project. The Design/Build Firm shall determine the final location of the CCTV cameras per the requirements of the MTRs. Do not place CCTV cameras in roadway medians. Convert the NTSC camera video images into optical signals and transmit on fiber optic cable using Ethernet technology. Send the camera control data signals as a sub-channel on the fiber optic cable. The Design/Build Firm shall verify the right-of-way for all proposed camera locations. The Design/Build Firm shall identify all equipment necessary to transmit full motion camera video images to the TOC and bi-directional control of the cameras. Install the CCTV cameras on new concrete poles. The Department shall approve any deviation from this direction. If the Design/Build Firm proposes to utilize an existing upright structure for a CCTV camera, the Design/Build Firm is responsible for obtaining the structural data, performing a structural analysis, and providing this information to the FDOT Structural Department for review and approval. If the Department deems the existing pole is not acceptable for any reason (including, but not limited to unacceptable sight restrictions), the Design/Build Firm is required to utilize a new pole at no additional cost to the Department.

**Detectors** – Install non-intrusive vehicle detectors as part of this project. The Design/Build Firm shall determine the final number and location needed to meet the requirements of the MTRs. Do not place detectors in roadway medians. Each detector shall be capable of detecting up to eight lanes of vehicles and shall provide roadway vehicle information including speed, volume, and occupancy. In no way shall the installation of detectors impede vehicular traffic. Transmit the detection data to the TOC through the fiber optic cable. The Design/Build Firm shall identify all equipment that is necessary to transmit data to the TOC. The Design/Build Firm shall verify the right-of-way for all proposed detector locations. Install the detectors on new poles. Department approval shall be required for any deviation from this direction. If the Design/Build Firm proposes to utilize an existing upright structure for a detector, the Design/Build Firm is responsible for obtaining the structural data, performing a structural analysis, and providing this information to the FDOT Structural Department for review and approval. If the Department deems the existing pole is not acceptable for any reason, the Design/Build Firm is required to utilize a new pole at no additional cost to the Department.

**Communications Infrastructure** – Provide communications from the ITS field elements to the TOC through Ethernet technology utilizing single-mode fiber optic cable (96-strand trunkline) as the communications medium. Some portions of the network will use existing County fiber in existing County conduit. Some portions of the network will install new fiber in existing Department conduit. These locations are shown on the Interconnect Plan sheets in the 30% Preliminary Plans.

The Design/Build Firm shall design the communications utilizing a series of 100 Mbps and 1 Gbps Ethernet Node switches. The locations of the communication nodes that will house the 1 Gbps (Gig-E) Ethernet switches are shown in Attachment B – 30% Preliminary Plans. House the Ethernet Edge switches in environmentally controlled cabinets or buildings. Each ITS field element location shall include an IP Edge switch that in turn connects to a Node switch. The Design/Build Firm shall identify all the equipment that is required, including media converters, terminal servers, transceivers, modems, etc. to ensure communication (video and data) between the ITS field elements and the TOC.

The Department assigns IP address ranges for projects and this project must follow that guidance.

The Design/Build Firm shall install a splice box and 200 feet of slack cable in all cable runs that pass an existing County traffic count station. A list of the locations is included in the Other Documents section of this RFP document.

**Construction/Build Services** – Construction/Build services include the procurement and installation of all equipment related to ATMS field elements and communication components/elements as specified herein. The equipment to be procured shall meet the requirements and the NTCIP protocol (if applicable). The Design/Build Firm is responsible for ensuring 100 percent compatibility of device components with the Econolite Centrac® software at the time of deployment.

The Design/Build Firm shall submit cut sheets of all selected technologies/products for procurement for the project along with selection alternatives and the reasons for selection, to the Department for acceptance. It is up to the Department or its representative to request a demonstration of the equipment for approval. No procurement of any hardware, software, or services shall occur until the Department reviews and accepts the construction plans and cut sheets. The Design/Build Firm may request a partial acceptance of an individual subsystem design in order to allow advance procurement of equipment that requires a longer lead-time.

**Testing Services** – Test all equipment and systems furnished and installed by the Design/Build Firm to determine conformance with project requirements and contract documents. Provide testing documents to

the Department for review. Testing requirements for the individual subsystems are as defined in the MTRs. Testing of the equipment and system shall include:

- Factory acceptance tests conducted prior to equipment procurement and installation.
- Stand-alone tests, conducted following the field installation, but prior to connection with the rest of the system.
- Subsystem tests performed after the completion of the field installation.
- System Operational Test – Upon completion of the subsystem test, a 30-day System Operational Test shall commence for all equipment furnished and installed as part of this contract. Each of the subsystems shall run continuously during the System Operational Test. Requirements for the System Operational Test are outlined in the MTRs.
- Final Acceptance occurs after completion of the System Operational Test. Prior to Final Acceptance, a final inspection of the entire system will be performed by the Department in the presence of a representative of the Design/Build Firm.

Submit all “As-built” documentation to the Department prior to the start of the System Operational Test. Final acceptance of the work associated with this project will be made after all of the required submittals, testing, training, documentation, and warranties have been successfully submitted or completed as specified in the MTRs as well as in the requirements of the Department’s latest version of the Standard Specifications for Road and Bridge Construction and all applicable standards.

**Integration Services** – Deliver and operate each of the ITS field elements, including CCTV cameras, system detectors, the video wall display, operator workstations, and all contractor-supplied TOC hardware and software, as individual systems. It is the responsibility of the Design/Build Firm to integrate the subsystems into the TOC. The Design/Build Firm shall integrate the individual ATMS field elements (i.e., CCTV cameras) with the respective vendor-provided subsystem software such that each of the subsystems operates as a stand-alone system.

The integration of various subsystems into the Econolite Centrac® software is the responsibility of the Design/Build Firm. Coordinate the integration with the TOC Manager after the Design/Build Firm tests and the Department accepts the individual ATMS subsystems.

The Design/Build Firm shall provide all equipment necessary to integrate the new video feeds into the new video wall display at the TOC.

The Design/Build Firm shall begin construction activities with the installation of the video wall controller cards, video wall displays, console furniture, and computer workstations. Complete this work and test within 180 days of receiving NTP. Partial acceptance of the project will be granted upon the completion and testing of the TOC equipment installation.

**Training Services** – Provide training for the operations and maintenance of ATMS subsystems – controller assemblies, CCTV cameras, non-intrusive vehicle detectors, communication, and field troubleshooting/testing. Tailor and focus training to the individual functional groups such as the operators, maintenance technicians, managers, and system administrators. The requirements for the training along with the duration of the training for each subsystem are included in the MTRs. Training will commence only after the subsystem tests have been accepted by the Department.

**Documentation** – Provide complete and comprehensive documentation of all elements of this project as specified in the MTRs. Documentation shall include, at a minimum:

- Field equipment operational manuals
- Central equipment manuals
- Device protocols
- Warranty documentation
- Test Evaluation Matrix
- Trouble-shooting guides for each of the subsystems
- System administration guides
- Structural calculations
- As-built plans/record drawings

**E. ITS Plans and Specifications**

The Design/Build Firm shall design plans and provide necessary documentation for the procurement and installation of the ATMS. The Design/Build Firm shall submit 60%, 90%, and 100% (final) design plans and Technical Special Provisions to the Department for review and approval. The construction plan sheets identifying the final design shall include, but not be limited to:

- Title sheet
- Tabulation of Quantities
- General Notes
- Legend
- Pole Data Sheets
- Traffic Control Plans
- Project Layout / Overview sheets outlining the locations of all ITS field elements with respect each other
- Fiber optic communications and outside plant facilities and routing index sheets
- Plan sheets providing details on ATMS field device locations and interface with the fiber optic communications cables, fiber optic cable routing and outside plant facilities including pull boxes, cabinets, fiber splice boxes, outlying structures and roadways, etc.
- Intersection modifications and upgrades
- Roadway cross-sections at CCTV camera and vehicle detector locations
- Detail sheets on:
  - CCTV pole and camera mounting details
  - Non-intrusive detection pole and mounting details
  - Power service distribution
  - Wiring and connection details for all ATMS elements
  - Conduit, pull box, splice box, and installation
  - Equipment rack configuration at the TOC, communication hubs, and field cabinets
  - System-level block diagrams
  - Device-level block diagrams
  - Field node/router cabinet configuration details
  - Video wall equipment configuration
  - Fiber optic splicing diagrams

- System configuration/Wiring diagram/Equipment interface for the ATMS field equipment – individual locations and communications nodes and port identification and IP addressing scheme
- Tabulation of Equipment connection list
- Directional bore charts
- Device cabinet layouts and patch panel diagrams
- TOC floor plan schematic identifying central equipment layout

The Design/Build Firm shall prepare, submit, and seek Department approval for all the required Plans, schematic diagrams, cabling/wiring diagrams, splice diagrams, and other pertinent information related to the equipment, materials and incidentals for the installation of controllers and cabinets, CCTV cameras, non-intrusive vehicle detection, communications network equipment, distribution conduit facilities, etc. prior to the commencement of the installation phase.

**F. Roadway Plans (Not Applicable to this Project)**

**G. Geometric**

The Design/Build Firm shall design the geometric for the project using the design standards that are most appropriate with proper consideration given to the design traffic volumes, adjacent land use, design consistency, aesthetics, ADA requirements, and this document.

**H. Design Documentation, Computations and Quantities**

The Design/Build Firm shall submit to the Department design notes and computations to document the design conclusions reached during the development of the construction plans.

The design notes and computation sheets shall be fully titled, numbered, dated, indexed, and signed by the designer and the checker. Computer output forms and other oversized sheets shall be folded to a standard size 8½" x 11". The data shall be in a hard-back folder for submittal to the Department. At the project completion, a final set of design notes and computations, signed by the Design/Build Firm, shall be submitted with the record set of plans and tracings.

The design notes and calculations shall include, but not be limited to:

1. Design standards used for the project
2. Geometric design calculations for horizontal alignments
3. Vertical geometry calculations
4. Documentation of decisions reached resulting from meetings, telephone conversations, or site visits
5. Final quantities list

**I. Structure Plans (Not Applicable to this Project)**

**J. Specifications**

Department Specifications may not be modified or revised. The Design/Build Firm shall also include all Technical Special Provisions which will apply to the work in the Proposal. Technical Special Provisions shall be written only for items not addressed by Department Specifications, and shall not be used as a means of changing Department Specifications.

Before construction activities can begin, the Design/ Build Firm shall prepare and submit a signed and sealed Construction Specifications Package for the project, containing all applicable Division II and III Special Provisions and Supplement Specifications from the Specifications Workbook in effect at the time the Bid Price Proposals were due in the District Office. The Specifications Package shall be prepared by the individual(s) identified in the Technical Proposal as having successfully completed the mandatory Specifications Preparations Training.

The website for completing the training is at the following URL address:

<http://www2.dot.state.fl.us/SpecificationsEstimates/PackagePreparation/TrainingConsultants.aspx>

Specification Workbooks are posted on the Department's website at the following URL address:

<https://www2.dot.state.fl.us/SpecificationsPackage/Utilities/Membership/login.aspx?ReturnUrl=%2fspecificationspackage%2fDefault.aspx>.

The signed and sealed Specifications Package shall also include individually signed and sealed Technical Special Provisions for any and all work not addressed by Department Specifications. Any Technical Special Provisions included in the signed and sealed Construction Specifications Package which had not been included in the Proposal may require a contract cost modification as a condition of approval.

Upon review by the Department, the Construction Specifications Package will be stamped "Released for Construction" and initialed and dated by the reviewer.

Any subsequent modifications to the Construction Specifications Package shall be prepared, signed, and sealed as a Supplemental Specifications Package, subject to the same process for submittal, review, and release for construction, as described above, for the original Construction Specifications Package. Construction work affected by Supplemental Specifications Packages shall not begin until the stamped "Released for Construction" Supplemental Specification Package is obtained.

#### **K. Shop Drawings**

The Design/Build Firm shall be responsible for the preparation and approval of all Shop Drawings. Shop Drawings shall be in conformance with the Department's PPM when submitted to the Department and shall bear the stamp and signature of the Design/Build Firm's EOR and Specialty Engineer as appropriate. The Department shall review the Shop Drawings to evaluate compliance with project requirements and provide any findings to the Design/Build Firm. The Department's procedural review of shop drawings is to assure that the Design/Build Firm's EOR has approved and signed the drawing, that the drawing has been independently reviewed, and that it is in general conformance with the plans. The Department's review is not meant to be a complete and detailed review. Upon review of the shop drawing, the Department will stamp "Released for Construction" or "Released for Construction as noted" and initial and date by the reviewer.

Shop Drawing submittals must be accompanied by sufficient information for adjoining components or areas of work to allow for proper evaluation of the Shop Drawings submitted for review.

#### **L. Sequence of Construction**

The Design/Build Firm shall construct the work in a logical manner and with the following objectives as guides:

1. Maintain or improve, to the maximum extent possible, the quality of existing traffic operations, both in terms of flow rate and safety, throughout the duration of the project.
2. Minimize the number of different Traffic Control Plan (TCP) phases, i.e., number of different diversions and detours for a given traffic movement.
3. Take advantage of newly constructed portions of the permanent facility as soon as possible when it is in the best interest of traffic operations and construction activity.
4. Maintain reasonable direct access to adjacent properties at all times, with the exception in areas of limited access right-of-way where direct access is not permitted.
5. Proper coordination with adjacent construction projects and maintaining agencies.

**M. Stormwater Pollution Prevention Plans**

The Design/Build Firm shall prepare an erosion control plan that complies with the SWPPP as required by the NPDES. The Design/Build Firm shall refer to the PPM for information in regard to the SWPPP and Florida Department of Environmental Protection (FDEP) Rule 62-25 for requirements on the ECP. Detailed limits of the erosion control items will be necessary but may be shown on the communications network plans sheets. This plan shall be submitted along with the Design/Build Firm's Certification at least 15 working days prior to beginning construction activities.

**N. Temporary Traffic Control Plan**

**1. Traffic Control Analysis**

The Design/Build Firm shall design a safe and effective Temporary TCP to move vehicular traffic during all phases of construction. The areas shall include, but are not limited to, construction phasing, utility relocation, drainage structures, signalization, ditches, front slopes, back slopes, drop offs within clear zone, and traffic monitoring sites. Special consideration shall be given to the drainage system when developing the construction phases. Positive drainage must be maintained at all times.

The Temporary TCP shall address how to assist with MOT throughout the duration of the contract.

The Temporary TCP shall be prepared by a certified designer who has completed the Department's training course, and in accordance with the Department's Design Standards and the Roadway PPM.

Transportation Management Plans (TMPs) are required for significant projects, which are defined as:

- A project that, alone or in combination with other concurrent projects nearby, is anticipated to cause sustained work zone impacts.
- All Interstate system projects within the boundaries of a designated Transportation Management Area (TMA) that occupy a location for more than three days with either intermittent or continuous lane closures shall be considered as significant projects.

For significant projects, a TMP will consist of:

- (1) Temporary TCP component
- (2) Transportation Operations (TO) component
- (3) Public Information (PI) component

Additional information can be found in Chapter 10 of the PPM.

## 2. Temporary TCP

The Design/Build Firm shall utilize Index Series 600 of the Department's Design Standards where applicable. Should these standards be inadequate, a detailed Temporary TCP shall be developed. The Design/Build Firm shall prepare plan sheets, notes, and details to include the following: general notes and construction sequence sheet(s), typical detail sheet(s), and TCP sheets.

The Design/Build Firm shall prepare additional plan sheets such as cross sections, profiles, drainage structures, retaining wall details, and sheet piling as necessary for proper construction and implementation of the Temporary TCP.

## 3. Traffic Control Restrictions

There will be NO LANE CLOSURES ALLOWED between the hours of 5:00 AM to 9:00 PM (signs may be put out starting at 8:00 PM and must be removed by 6:00 AM). Should the Design/Build Firm propose alternate lane closure hours, a detailed lane closure analysis shall be furnished for the Department's review and approval. Under no circumstances will the Department change these hours without written approval. Lane closure requests must be made to the Department 45 calendar days prior to the lane closure event. A lane may only be closed during active work periods. Lane closures on holidays, holiday weekends, and special event days (such as major sports events, major community events, and other local events that generate large traffic volumes) will not be allowed without prior approval by the Department. All lane closures must be reported to the local emergency agencies, the media, and the District PIO. Also, the Design/Build Firm shall develop the project to be able to provide for all lanes of traffic to be open in the event of an emergency or if the lane closure causes a driver delay greater than 20 minutes.

The Design/Build Firm shall obtain a written agreement with the maintaining agency for any lane closures, restrictions, or detours. Additionally, the Design/Build Firm shall notify all emergency services including local government agencies, police, fire, and rescue, in advance of a roadway closure.

A damage recovery/user cost will be assessed against the Design/Build Firm if all lanes are not open to traffic during the times agreed to above. Costs will be assessed beginning at the appropriate time and continue until all lanes are open as recorded by the Department's Project Representative. This assessment will be:

- First 15 minutes and under: \$2,000
- Each additional 30-minute period or portion thereof: \$3,000
- Such costs shall not exceed \$10,000 over a 24-hour period

At the discretion of the Department's Project Representative, the damage recovery/user cost shall not be assessed for failure to open lanes if such cause is beyond the control of the Design/Build Firm, i.e., catastrophic events or accidents not related to or caused by the Design/Build Firm's operations. The

Department shall have the right to apply as payment on such damages any money that is due to the Design/Build Firm by the Department.

**O. Public Convenience and Safety**

The Design/Build Firm shall be responsible for injuries to the public due to construction activities within the project area. The Design/Build Firm shall give special attention to provide continuous and uninterrupted traffic to the roadway during construction activities. At the end of project construction work, the project site shall be left clean and orderly. A joint inspection by the Design/Build Firm and the Department shall be undertaken to assure all signs, lights, etc., have been removed from the project.

**P. Incident Response Plan**

The Design/Build Firm shall develop an Incident Response Plan. The plan must address the actions that will be taken and the responsibilities of all field personnel in the event of an incident that creates life-threatening conditions for construction field personnel or the traveling public. Specific contact names and phone numbers shall be included. This plan shall be delivered to the Department for review and approval at the Pre-Construction Meeting.

**Q. Design/Build Firm Equipment**

The Design/Build Firm shall not permit their equipment to interfere with traffic while the equipment is on or traversing a road or street.

Any hauling unit or equipment loaded in excess of the maximum weights set out in the Florida Uniform Traffic Control Law (or lower weights that may be legally established for any section of road or bridge by the Department of local authorities) shall not be operated on any road or street except as by special permit issued by the governmental unit having jurisdiction over a particular road or bridge. This restriction applies for all public road and bridges inside and outside the project limits as long as these roads are open for public use.

Positive measures shall be taken by the Design/Build Firm to assure that tractor-type equipment does not cause damage to the roads. If any such damage occurs due to the Design/Build Firm's negligence, the Design/Build Firm shall repair the damage to the satisfaction of the governmental unit having jurisdiction over the road and at no cost to the Department.

**R. Environmental Services/Permits/Mitigation**

The Design/Build Firm will be responsible for preparing designs and proposing construction methods that are permissible. The Design/Build Firm will be responsible for any required permit fees. All permits required for a particular construction activity will be acquired prior to commencing the particular construction activity. Delays due to incomplete permit packages, agency rejection, agency denials, agency processing time, or any permit violations, except as provided in Section V.D.2, will be the responsibility of the Design/Build Firm, and will not be considered sufficient reason for time extension.

**S. Signing and Pavement Marking Plans**

The Design/Build Firm shall prepare signing and pavement marking plans in accordance with Department criteria.

**T. Lighting Plans (Not Applicable to this Project)**

**VII. Technical Proposal Requirements.**

**A. General**

Each Design/Build Firm being considered for this project is required to submit a Technical Proposal. The Proposal shall include sufficient information to enable the Department to evaluate the capability of the Design/Build Firm to provide the desired services. The data shall be significant to the project and shall be innovative, when appropriate, and practical. Discussions of past performances on other projects shall be minimized except as they relate to the proposed work. The Design/Build Firm should not discuss or reveal elements of the Price Proposal in the written Technical Proposals.

**B. Submittal Requirements**

The Technical Proposal shall be submitted in ACCO binders with identifying labels and with tabs labeled Section 1 through Section 9 with the information, paper size, and page limitation requirements as listed below.

Three copies of the "Written Technical Proposal" must also be submitted in electronic format on a CD. The format shall be in Microsoft Word and the file saved into a searchable PDF format. No macros will be allowed. Minimum font size of 10.

Design/Build Firms are required to submit one original bound copy containing original signatures. Please mark this copy "Original" on the front cover. In addition, submit five independently bound copies of the Technical Proposal. The cover of the submittal package of the Technical Proposal shall contain the following information:

TECHNICAL PROPOSAL  
LEE COUNTY ATMS Design/Build Project  
FPID: 412636-1-52-01  
Design/Build Firm's Name:  
Design/Build Firm's Address:

Submit three CDs of the Technical Proposal in its entirety and six hard copies (one original and five copies) of the Technical Proposal to:

Mr. Felipe Alvarez  
Design Build Administrator  
MS 1-67  
801 North Broadway Avenue  
Bartow, FL 33830

**Section 1: Written Technical Proposal**

- Paper size: 8½" x 11", additional larger charts and graphs may be provided if folded neatly to 8½" x 11"
- Maximum allowed pages: 40

The following minimum information is to be included:

- **Approach and Understanding of the Project**

The Design/Build Firm shall present a comprehensive plan for completing the specified work. The plan should address all significant design and construction issues and constraints and should demonstrate efficient use of manpower, materials, equipment, construction schemes, and techniques for completing the project. A plan for how the existing signal system will be maintained while the new system is being installed, implemented, and integrated should be included.

The Design/Build Firm shall clearly convey, using drawings, figures, etc. as necessary, how their proposed design solution will meet or exceed the requirements specified in this RFP. The discussion shall also cover testing, maintainability, and access issues.

Present a thorough understanding and approach to utility coordination and permitting as necessary and/or required and how coordination will be maintained with the Department and/or other agencies throughout the project. A suggested method for assuring proper coordination shall be addressed. Present project highlights summarizing the major proposed approaches, techniques, construction methods, and cost/time saving suggestions/solutions.

- **Other Appropriate Data**

Other data demonstrating the ability of the Design/Build Firm to provide the desired services may be included in the Technical Proposal.

- **Coordination**

During the performance of the services, coordination must be maintained with the Department and/or other agencies. A suggested method for assuring proper coordination shall be addressed in the Technical Proposal.

- A summary of the project schedule: The full schedule will be provided in Section 3.
- A summary of innovative aspects: Details can be explained in Section 4.
- A summary of Quality Management: The actual plan will be provided in Section 5.
- A summary of Value Added Features: The Design/Build Firm will summarize Value Added Features being proposed. Details of criteria will be provided in Section 6.

Section 3: Proposed Schedule

- Paper size: 8½" x 11" or larger if folded neatly to 8½" x 11"
- Maximum allowed pages: 4
- Identify if the Schedule is based on calendar or working days

- The minimum information to be included in the summary CPM schedule of anticipated major milestones and their associated phasing is:

Anticipated Award Date  
Design Schedule  
60% and 90% Design Workshops  
Design Reviews by the Department  
Geotechnical Investigations  
Permitting  
Start of Construction  
Construction Milestones  
Construction Phasing and Major MOT Shifts  
Utility Relocations  
Integration Schedule  
Acceptance Testing  
Burn-in Period  
Final Completion Date for all Work

#### Section 4: Innovative Aspects

- Paper size: 8½" x 11"
- Maximum allowed pages: 3
- Any supportive information associated with the innovative aspects being proposed.

The Design/Build Firm shall identify various ways to expedite the project and ensure the highest quality of the materials/equipment and workmanship in the installation and testing of the equipment. The Design/Build Firm shall also identify the state-of-the-art equipment applicable to the project and the innovative ways of installing, testing, and integrating. The Design/Build Firm shall provide detailed design and field verification for optimum infrastructure deployment.

#### Section 6: Value Added

- Paper size: 8½" x 11"
- Maximum allowed pages: 4
- The minimum information to be included shall be in accordance with Section V.W.

The Design/Build Firm shall include a Remedial Plan for how they will address equipment failures, including response times and repair action for different levels of failure.

#### Section 7: Design Support Documents

- Paper size: 8½" x 11"
- Maximum allowed pages: As required
- The minimum information to be included shall be in accordance with Section VI. H.

#### Section 8: Preliminary Plans

- Paper size: 11" x 17"
- Maximum allowed pages: As required

The minimum information to be included in the design plans should present a typical preliminary plans submittal as detailed below:

- Project Limits
- Proposed layout of the complete ATMS network
- Proposed device placement
- Proposed fiber network layout
- Attachments to existing bridges
- Utility provisions
- MOT provisions

Structures (CCTV and Detector Poles):

- General Notes
- Plan and elevation
- Proposed foundation types and location
- Minimum horizontal clearances
- Basic material properties (concrete strengths, classifications)

Section 9: Specifications

Provide a list of individual members of the Design/Build Firm who have successfully completed the Specifications Package Preparation Training and will be responsible for preparing the Specifications Package for the project. The website for completing the training is:

<http://www2.dot.state.fl.us/SpecificationsEstimates/PackagePreparation/TrainingConsultants.aspx>

**A. General:**

Each Design-Build Firm being considered for this project is required to submit a Technical Proposal. The proposal shall include sufficient information to enable the Department to evaluate the capability of the Design-Build Firm to provide the desired services. The data shall be significant to the project and shall be innovative, when appropriate, and practical.

**B. Submittal Requirements:**

The Technical Proposal shall be bound with tabs labeled for each Section, the information, paper size and page limitation requirements as listed below:

A copy of the "Written Technical Proposal" must also be submitted in electronic form on a CD. The format shall be in Microsoft Word and the file saved in html. No macros will be allowed. Minimum font size of ten (10). Graphics and photographs shall be held to a minimum, in the electronic version only, so that Internet loading of the Technical Proposal takes place in 15 seconds or less.

The maximum number of pages for the Technical Proposal shall be 50 typed pages. This page limitation does not include Section 3 Design Support Documents and Section 4 Preliminary Plans. Paper size shall be 8½" x 11", additional larger charts and graphs may be provided if folded neatly to 8½" x 11"

Submit \_\_\_\_\_ (#) copies of the Technical Proposal

to: \_\_\_\_\_  
\_\_\_\_\_

The minimum information to be included:

**Note to developer of the RFP: The following is provided as an example. Actual minimum information required to be included in the Technical Proposal should be tailored to meet the individual needs of the project. Each item included herein should correspond to Evaluation Criteria described in Section C. below.**

**Section I: Approach to the Project**

**Credit will be given based on the Proposer's approach to integrating the ATMS components with the intersections and the TOC. Also, how the work stations will be installed in the TOC and coordination with the Lee County staff.**

Section 1: Proposed Schedule

- Paper size: 8½" x 11" or larger if folded neatly to 8½" x 11"
- Maximum allowed pages: \_\_\_\_\_
- Identify if the Schedule is based on Calendar or Working Days
- The minimum information to be included in the summary CPM schedule of anticipated major milestones and their associated phasing as follows:

Anticipated Award Date  
Design Schedule  
Design Reviews by the Department  
Geotechnical Investigations  
Permitting  
Start of Construction  
Construction Milestones  
Construction Phasing and major MOT shifts  
Utility Relocations  
Structure Completion Date  
Final Completion Date for all Work

**Section 2: Value Added**

- Paper size: 8½" x 11"

**The Design-Build Firm shall submit the Value Added criteria, measurable standards and remedial work plan for features proposed.**

### Section 3: Design Support Documents

- Paper size: 8½" x 11"

Technical Special Provisions which apply to the work in the Proposal shall be identified. Technical Special Provisions shall be written only for those items not addressed by the Department's Standard Specifications.

The Design-Build firm shall be prepared to submit to the Department during the Technical Proposal Evaluation phase any calculations, studies and/or research to support features identified in the Technical Proposal and detailed in Section 4. Preliminary Plans.

### Section 4: Preliminary Plans

- Paper size: 11" x 17". Plan and Profile views of the proposed improvements may be submitted as roll-plot files saved on a disc and included with the Technical Proposal. The maximum width of the roll-plots shall be 36".

The minimum information to be included in the preliminary design requirements is as follows

#### Roadway

- Project Limits
- Horizontal alignment
- Pier and abutment location
- Major topographic features
- Proposed vertical profile
- Survey controls and bench marks
- Stationing along Horizontal alignment
- Connections to existing roadway
- Utility provisions
- Maintenance of traffic provisions
- Roadway Typical Section
- Technical Special Provisions

#### Structures

- General Notes
- Plan and elevation
- Begin and end bridge stations
- Proposed Foundation Types and Location
- Proposed Foundation Testing requirements
- Span lengths
- Minimum vertical and horizontal clearances
- Location of expansion and fixed bearings
- Scour analysis
- Basic material properties (concrete strengths, classifications)

- Typical pier(s) and abutment details
- Cross section of proposed superstructure showing type, size and locations of structural elements
- Proposed means and methods of construction
- Proposed method of removal of the existing structure and approaches and final disposition
- Technical special provisions
- Variations and documentation

**C. Evaluation Criteria:**

***Note to developer of the RFP: The following is provided as an example. Actual Evaluation Criteria should be tailored to meet the individual needs of the project. Each item included herein should correspond to the Minimum Technical Proposal Requirements described in Section B. above.***

The Technical Review Committee shall evaluate the written Technical Proposal by each Design-Build Firm. The Design-Build Firm should not discuss or reveal elements of the price proposal in the written proposals. A technical score for each Design-Build Firm will be based on the following criteria:

Item	Value
1. Maintainability	
2. Value Added	
3. Schedule	
4. Design and Geotechnical Services Investigation	
5. Maintenance of Traffic	
6. Context Sensitive Design and Construction	
7. Construction Methods	
<b>Maximum Score</b>	<b>80</b>

The following is a description of each of the above referenced items:

1. **Maintainability (\_\_\_\_ points)**

Credit will be given for a design that minimizes periodic and routine maintenance. The following elements should be considered: access to provide adequate inspections and maintenance, maintenance of navigational system lighting, access to structure's lighting system, and quality of construction materials. Credit will be assigned for exceeding minimum material requirements to enhance durability of structural components.

2. **Value Added (\_\_\_\_ points)**

Credit will be given for the extent of the Value Added coverage. **Credit will be given for exceeding minimum material requirements to enhance durability of structural components.**

3. **Schedule (\_\_\_\_ points)**

Credit will be given for a comprehensive and logical schedule that minimizes contract duration. Proper attention should be provided to the project's critical path elements.

4. **Design and Geotechnical Services Investigation (\_\_\_\_ points)**

Credit will be given for the quality of the following elements:

- Project design (roadway, structures, drainage, pavement, etc., as applicable)
- Design coordination and plans preparation schedule
- Construction coordination plan minimizing design changes
- Geotechnical investigation plan
- Test load program

5. **Maintenance of Traffic (\_\_\_\_ points)**

Credit will be given for a MOT scheme that minimizes disruption of roadway traffic. This shall include, but not be limited to, minimization of lane and driveway closures, lane widths, visual obstructions, and drastic reductions in speed limits.

6. **Construction Methods (\_\_\_\_ points)**

Credit will be given for construction methods that minimize impacts to the traveling public, business owners, property owners and the environment; reduces costs; improves worker safety; and minimizes contract duration.

**Final Selection Formula**

The Selection Committee shall publicly open the sealed bid proposals and calculate an adjusted score using the following formula:

$$\frac{BPP}{TS} = \text{Adjusted Score}$$

BPP = Bid Price Proposal

TS = Technical Score (Combined Scores from ELOI and Technical Proposal)

The Design/Build Firm selected will be the Design/Build Firm whose adjusted score is lowest.

The Department reserves the right to consider any proposal as non-responsive if any part of the Technical Proposal does not meet established codes and criteria. Also, if the PCT is greater than Maximum Allowable Contract Time (MCT) (563 days), the proposal will be considered non-responsive.

**C. Final Selection Process**

After the sealed bids are received, the Department will have a public meeting for the announcement of the Technical Scores and opening of sealed bids. At this meeting, the Department will announce the score for each member of the Technical Review Committee for each Proposer and each Proposer's average Technical Score. Following announcement of the technical scores, the sealed bid proposals will be opened and the adjusted scores calculated. The Selection Committee should meet a minimum of five working days after the public opening of the Technical Scores and Price Proposals. The Department's Selection Committee will review the evaluation of the Technical Review Committee and the Price Proposal of each Proposer as to the apparent lowest adjusted score and make a final determination of the lowest adjusted score. The Selection Committee has the right to correct any errors in the evaluation and

selection process that may have been made. The Department is not obligated to award the contract and the Selection Committee may decide to reject all proposals. If the Selection Committee decides not to reject all proposals, the contract will be awarded to the Proposer determined by the Selection Committee to have the lowest adjusted score.

**VIII. BID PROPOSAL REQUIREMENTS.**

**A. Bid Price Proposal**

Bid Price Proposals shall be submitted on the Bid Blank form attached hereto as Attachment C and shall include one lump sum price for the Project and the number of calendar days within which the Proposer will complete the project. The lump sum price shall include all costs for all design, geotechnical surveys, architectural services, engineering services, Design/Build Firms quality plan, construction of that portion of the Project, and all other work necessary to fully and timely complete that portion of the Project in accordance with the Contract Documents, as well as all job site and home office overhead, and profit, it being understood that payment of that amount for that portion of the Project will be full, complete, and final compensation for the work required to complete that portion of the Project. The Price Proposal shall be hand delivered in a separate sealed package to the following:

Mr. Felipe Alvarez  
Design Build Administrator  
MS 1-67  
801 North Broadway Avenue  
Bartow, FL 33830

The package shall indicate clearly that it is the Price Proposal and shall identify clearly the Proposer's name, and project description. The Bid Price Proposal shall be secured and unopened until the date specified for opening of Price Proposals.

**Attachment A**  
**Minimum Technical Requirements**

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**Attachment B**  
**30% Plans**

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**Attachment C**  
**Bid Bank**

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**STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION  
BID PROPOSAL REQUIREMENTS**

CONTRACT NO.: E1J71                      FPID: 412636-2-52-01

FAP NO. 8886-052A

PROJECT LOCATION/DESCRIPTION: LEE COUNTY ADVANCED TRAFFIC MANAGEMENT SYSTEM (ATMS)

PROPOSED CONTRACT CALENDAR DAYS:

Item Description	Unit	Quantity	Price
ATMS Design/Build	LS	1	\$
Contingency*	LS	1	\$ 50,000
Partnering	LS	1	\$ 5,000
Disputes Review	ED		\$ 49,500

TOTAL BID AMOUNT:

TOTAL LUMP SUM PRICE INCLUDING CONTINGENCY,  
PARTNERING, AND DISPUTES REVIEW LESS LEAD DESIGN  
COMPENSATION (WRITTEN OUT)

DESIGN/BUILD FIRM NAME: \_\_\_\_\_

DESIGN/BUILD FIRM ADDRESS: \_\_\_\_\_

DESIGN/BUILD FIRM                      SIGNATURE: \_\_\_\_\_

PRINTED NAME: \_\_\_\_\_

TITLE: \_\_\_\_\_

**\*The Department has established a contingency fund in the amount of \$50,000.00. These funds are to be utilized in the event approved work orders are issued against the Design/Build Agreement. If no work orders are executed, the funds will be reverted to the Department and are not part of the Total Lump Sum Bid Price.**

**Attachment D**  
**Division I Design/Build Specifications**

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**Phase I Signalized Intersections**

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<b>PHASE I INTERSECTIONS</b>		
<b>FDOT ID</b>	<b>Major Street</b>	<b>Minor Street</b>
220	Fowler St.	First St.
221	Bus 41	Pondella Rd./Cardinal
229	Second St.	Park Ave.
240	US 41	Six Mile Cypress Pkwy.
241	Six Mile Cypress Pkwy.	Walmart/Home Depot
243	US 41 (Cleveland Ave)	Colonial Blvd.
255	US 41	Bonita Beach Rd.
262	US 41	Coconut Rd
263	US 41	Village Shops Way/Vandenburg
264	US 41	Williams Rd./Estero High School
270	US 41	Alico Rd.
271	US 41	Island Park Rd.
272	US 41	Briarcliff Rd.
273	US 41	Jamaica Bay
274	US 41	Andrea Lane
275	US 41	Cypress Terrace/Market Square
276	US 41	Cypress Lake Dr./Daniels Pkwy.
277	US 41	Cypress Trace Dr./Bell Tower
278	US 41	Big Pine Way/Seven Lakes/Bell Tower
279	US 41	College Pkwy.
280	US 41	Crystal Dr.
281	US 41	Palm Dr.
282	US 41	Beacon/Oak Dr.
283	US 41	South Airport Dr.
284	US 41	Boy Scout Dr.
285	US 41	Page Plaza (Sams)/Page Field Common
286	US 41	North Airport Dr.
287	US 41 (Cleveland Ave.)	Courtney Dr./Edison Mall
288	US 41 (Cleveland Ave.)	Winkler Ave.
289	US 41 (Cleveland Ave.)	Oakley Ave./K-Mart
290	US 41 (Cleveland Ave.)	Collier Ave.
291	US 41 (Cleveland Ave.)	Hill Ave.
292	US 41 (Cleveland Ave.)	Carrell Rd.
293	US 41 (Cleveland Ave.)	Grace Ave.
294	US 41	Hanson St.
295	US 41	South St.
296	US 41	Edison Ave.

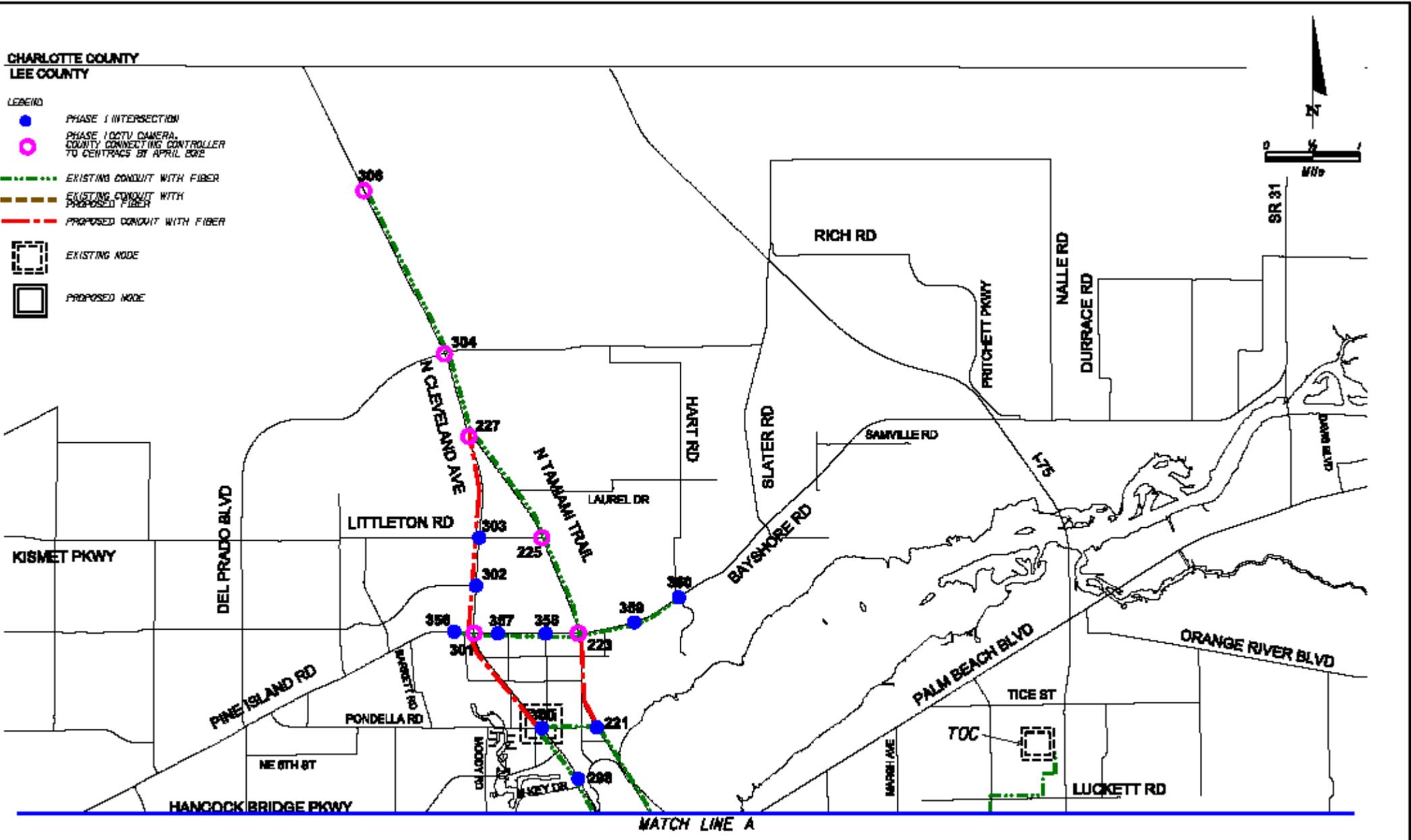
<b>PHASE I INTERSECTIONS</b>		
<b>FDOT ID</b>	<b>Major Street</b>	<b>Minor Street</b>
297	US 41 (Cleveland Ave.)	Victoria Ave.
298	US 41	North Key Dr.
300	US 41	Pondella Rd.
302	US 41	Stockton St./Merchants Crossing
303	US 41	Littleton Rd.
316	Fowler St. (SR 739)	Thompson St.
317	Fowler St. (SR 739)	Second St.
318	MLK Blvd. (SR 82)	US 41/Main/McGregor
356	Pine Island Rd. (SR 78)	Merchants Crossing
357	Pine Island Rd. (SR 78)	Wal-Mart/Woodward
358	Pine Island Rd. (SR 78)	Piney Rd.
359	Bayshore Rd. (SR 78)	Evalena/Oldbridge
360	Bayshore Rd. (SR 78)	Hart/Newpost
1023	US 41	Woods Edge Pkwy.
1036	US 41	Fountains Lake Rd./Fire Station Pre-empt
1290	Bonita Beach Rd.	Center of Bonita Springs
1291	Bonita Beach Rd.	Arroyal
1301	W. Terry St.	Bay Landing Dr.

**Communications Map**

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**CHARLOTTE COUNTY  
LEE COUNTY**

- LEGEND**
- PHASE I INTERSECTION
  - PHASE I CCTV CAMERA, COUNTY CONNECTING CONTROLLER TO CENTRACS BY APRIL 2012
  - EXISTING CONDUIT WITH FIBER
  - EXISTING CONDUIT WITH PROPOSED FIBER
  - PROPOSED CONDUIT WITH FIBER
  - EXISTING NODE
  - PROPOSED NODE



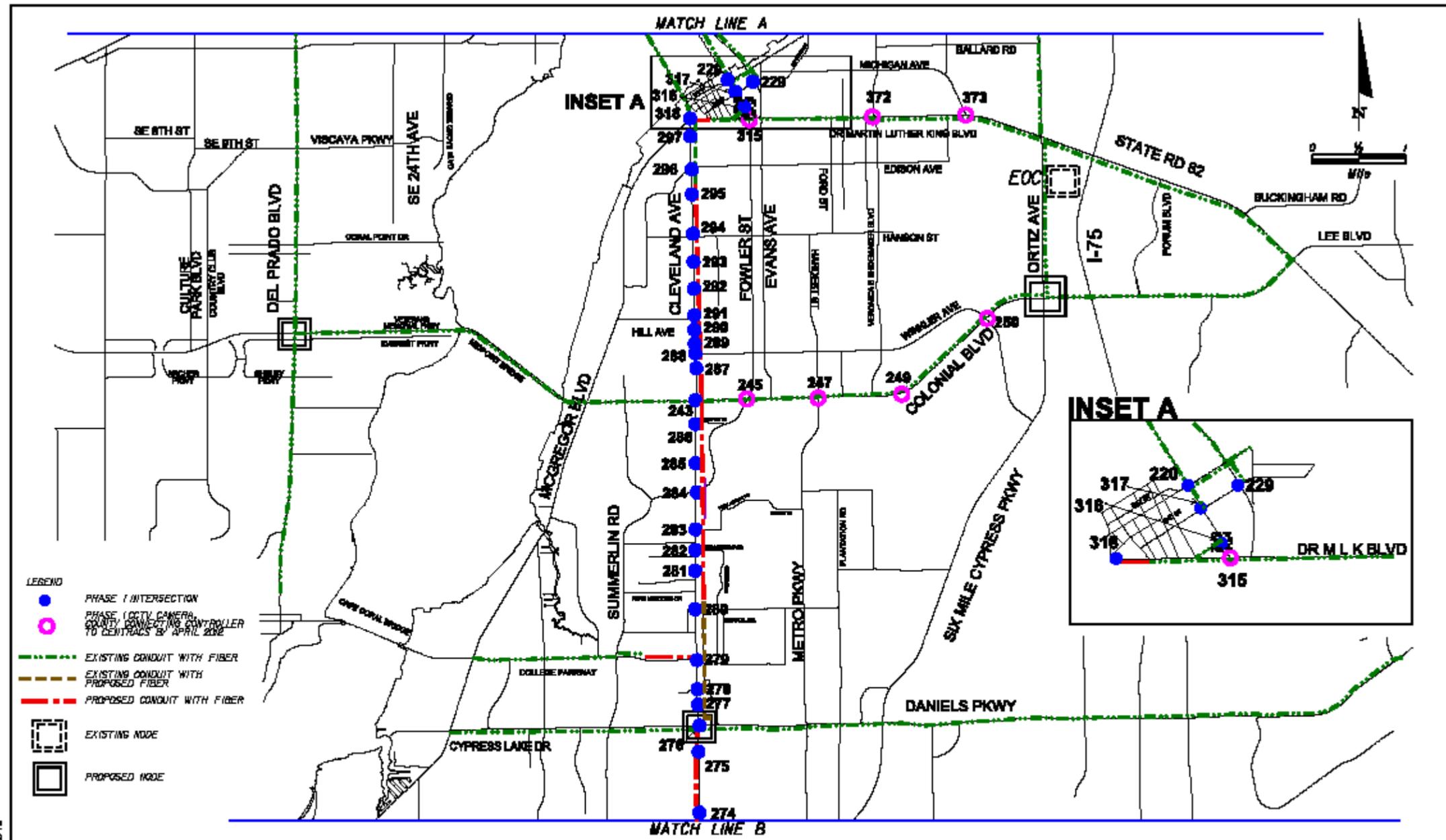
THIS PROJECT IS OWNED BY CHARLOTTE COUNTY, FLORIDA. DATE: 12/05/11  
 DRAWN BY: J. W. WILSON  
 CHECKED BY: J. W. WILSON



**GANNETT FLEMING**  
 4350 W. CYPRESS ST., SUITE 340  
 TAMPA, FL 33607  
 TELEPHONE: (813) 831-8870  
 CA NO.: 5564  
 WWW.GFNET.COM

<b>Project Title</b>	LEE COUNTY ADVANCED TRAFFIC MANAGEMENT SYSTEM (ATMS) ITS MASTER PLAN
<b>Drawing Title</b>	COMMUNICATIONS MAP

<b>Project No.</b>	053024
<b>Date</b>	12/05/11
<b>Page</b>	A



- LEGEND**
- PHASE I INTERSECTION
  - PHASE I CCTV CAMERA  
COUNTY CONNECTING CONTROLLER  
TO CENTRALS BY APRIL 2002
  - EXISTING CONDUIT WITH FIBER
  - EXISTING CONDUIT WITH PROPOSED FIBER
  - PROPOSED CONDUIT WITH FIBER
  - EXISTING NODE
  - PROPOSED NODE

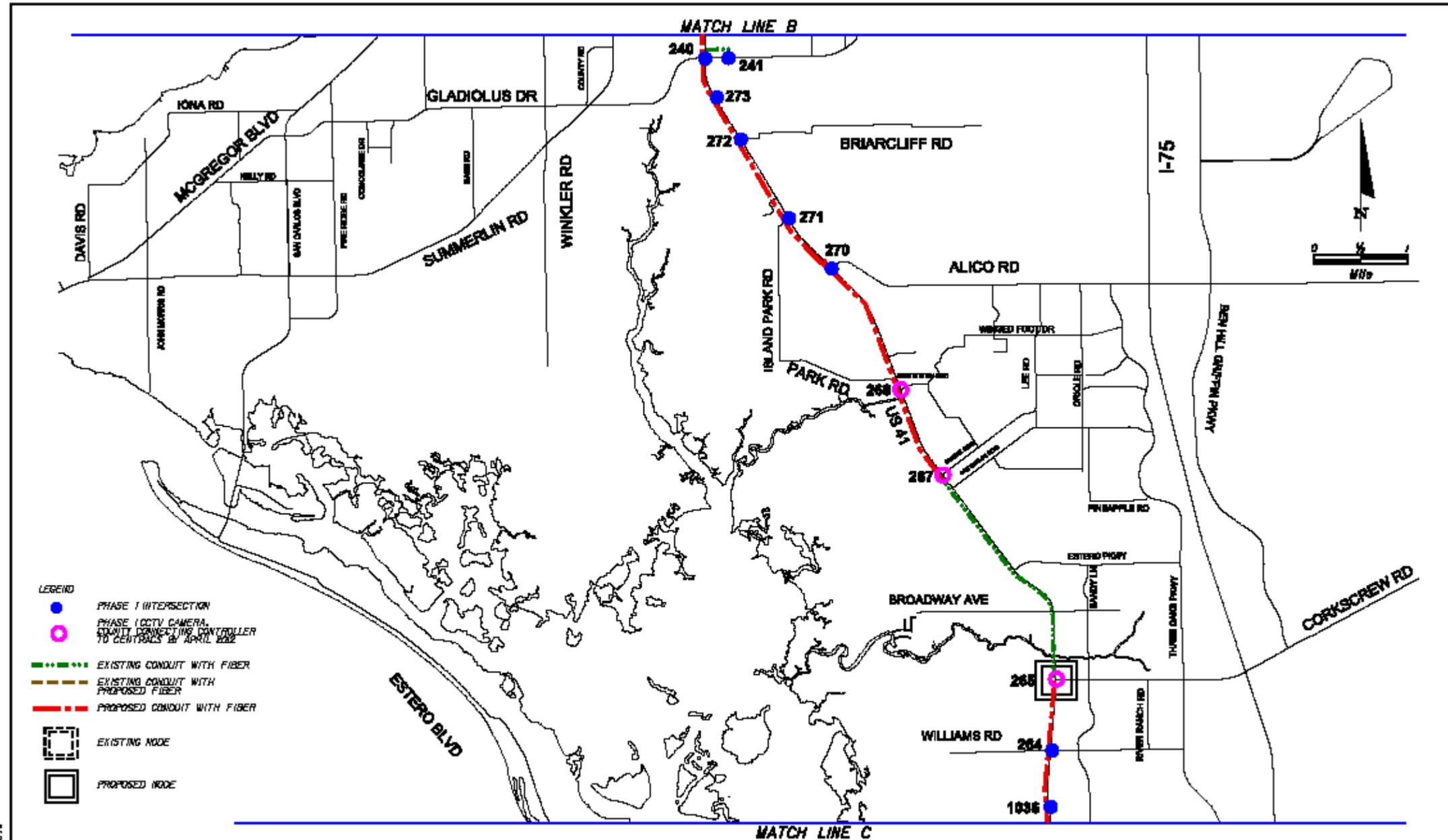
THIS PROJECT IS OWNED BY GANNETT FLEMING CONSULTANTS INCORPORATED  
 4350 W. CYPRESS ST., SUITE 340  
 TAMPA, FL 33607  
 TELEPHONE: (813) 831-8870  
 FAX: (813) 831-8870  
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 4350 W. CYPRESS ST., SUITE 340  
 TAMPA, FL 33607  
 TELEPHONE: (813) 831-8870  
 FAX: (813) 831-8870  
 WWW.GFNET.COM

<b>Project Title</b>	LEE COUNTY ADVANCED TRAFFIC MANAGEMENT SYSTEM (ATMS) ITS MASTER PLAN
<b>Drawing Title</b>	COMMUNICATIONS MAP

<b>Project No.</b>	053024
<b>Date</b>	12/05/11
<b>Page</b>	B



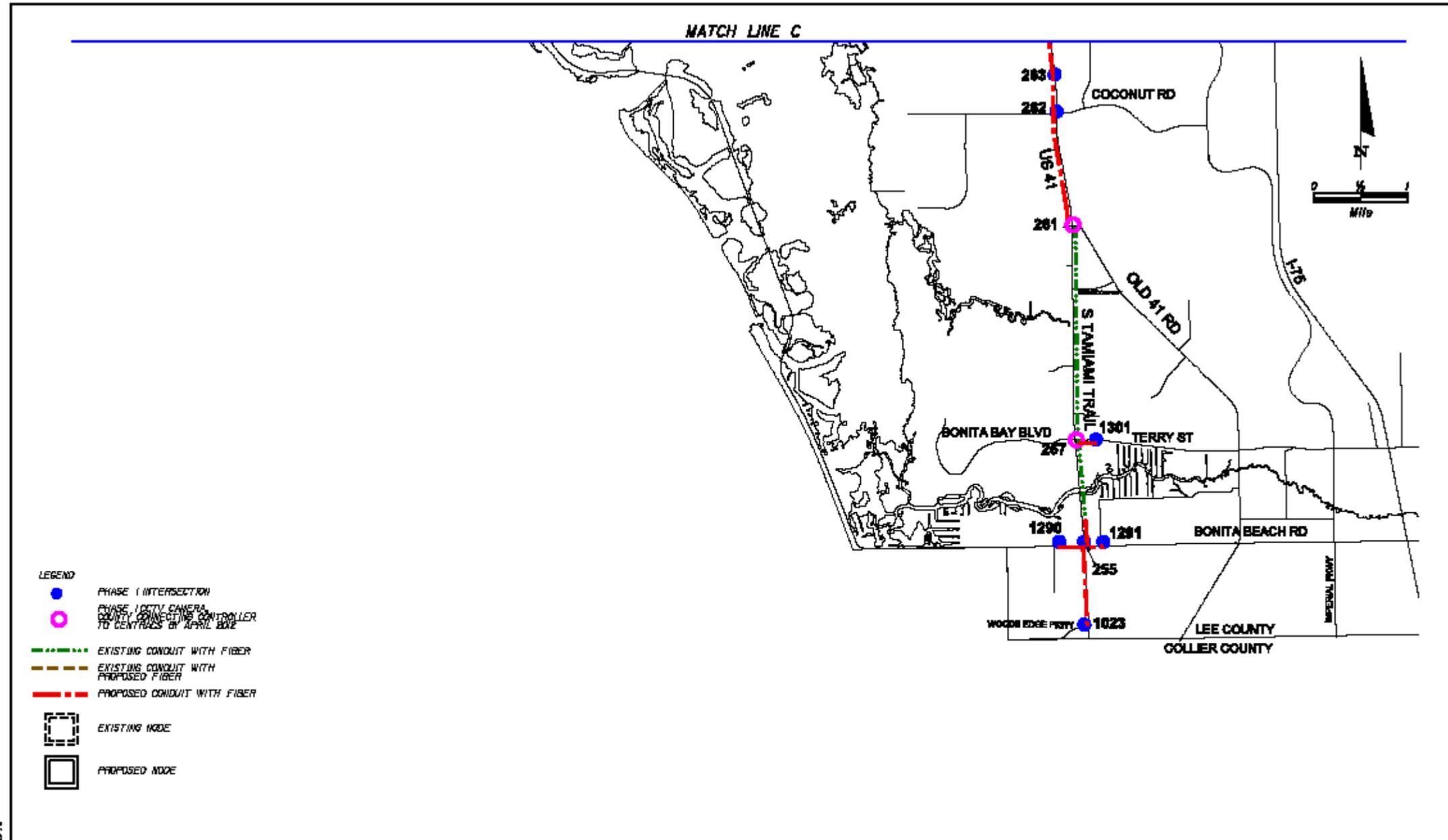
- LEGEND**
- PHASE I INTERSECTION
  - PHASE I CCTV CAMERA  
COUNTY CONNECTING CONTROLLER  
TO CENTRALS IN APRIL 2002
  - EXISTING CONDUIT WITH FIBER
  - - - EXISTING CONDUIT WITH PROPOSED FIBER
  - - - PROPOSED CONDUIT WITH FIBER
  - EXISTING NODE
  - PROPOSED NODE

THIS PROJECT IS OWNED BY GANNETT FLEMING CONSULTANTS INCORPORATED  
 4350 W. CYPRESS ST., SUITE 340  
 TAMPA, FL 33607  
 TELEPHONE: (813) 831-8870  
 FAX: (813) 831-8870  
 WWW.GFNET.COM

	<b>GANNETT FLEMING</b> 4350 W. CYPRESS ST., SUITE 340 TAMPA, FL 33607 TELEPHONE: (813) 831-8870 FAX: (813) 831-8870 WWW.GFNET.COM
	Project Title: <b>LEE COUNTY ADVANCED TRAFFIC MANAGEMENT SYSTEM (ATMS) ITS MASTER PLAN</b>
Drawing Title: <b>COMMUNICATIONS MAP</b>	Project No.: <b>053024</b>
	Date: <b>12/05/11</b>
	Page: <b>C</b>

Project Title	<b>LEE COUNTY ADVANCED TRAFFIC MANAGEMENT SYSTEM (ATMS) ITS MASTER PLAN</b>
Drawing Title	<b>COMMUNICATIONS MAP</b>

Project No.	<b>053024</b>
Date	<b>12/05/11</b>
Page	<b>C</b>



THIS PROJECT IS OWNED BY GANNETT FLEMING CONSULTANTS INCORPORATED  
 4350 W. CYPRESS ST., SUITE 340  
 TAMPA, FL 33607  
 TELEPHONE: (813) 831-8870  
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	Project Title: <b>LEE COUNTY ADVANCED TRAFFIC MANAGEMENT SYSTEM (ATMS) ITS MASTER PLAN</b>
Drawing Title: <b>COMMUNICATIONS MAP</b>	Project No.: <b>053024</b>
	Date: <b>12/05/11</b>
	Page: <b>D</b>

Project Title	<b>LEE COUNTY ADVANCED TRAFFIC MANAGEMENT SYSTEM (ATMS) ITS MASTER PLAN</b>	Project No.	<b>053024</b>
Drawing Title	<b>COMMUNICATIONS MAP</b>	Date	<b>12/05/11</b>
		Page	<b>D</b>

Project No.	<b>053024</b>
Date	<b>12/05/11</b>
Page	<b>D</b>

## **Uninterruptible Power Supply (UPS) Locations**

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<b>UPS LOCATIONS</b>		
<b>FDOT ID</b>	<b>Major Street</b>	<b>Minor Street</b>
220	Fowler St.	First St.
229	Second St.	Park Ave.
241	Six Mile Cypress Pkwy.	Walmart/Home Depot
262	US 41	Coconut Rd
263	US 41	Village Shops Way/Vandenburg
264	US 41	Williams Rd./Estero High School
271	US 41	Island Park Rd.
272	US 41	Briarcliff Rd.
273	US 41	Jamaica Bay
275	US 41	Cypress Terrace/Market Square
280	US 41	Crystal Dr.
281	US 41	Palm Dr.
282	US 41	Beacon/Oak Dr.
283	US 41	South Airport Dr.
285	US 41	Page Plaza (Sams)/Page Field Common
286	US 41	North Airport Dr.
287	US 41 (Cleveland Ave.)	Courtney Dr./Edison Mall
288	US 41 (Cleveland Ave.)	Winkler Ave.
289	US 41 (Cleveland Ave.)	Oakley Ave./K-Mart
290	US 41 (Cleveland Ave.)	Collier Ave.
291	US 41 (Cleveland Ave.)	Hill Ave.
292	US 41 (Cleveland Ave.)	Carrell Rd.
293	US 41 (Cleveland Ave.)	Grace Ave.
294	US 41	Hanson St.
295	US 41	South St.
296	US 41	Edison Ave.
297	US 41 (Cleveland Ave.)	Victoria Ave.
300	US 41	Pondella Rd.
316	Fowler St. (SR 739)	Thompson St.
317	Fowler St. (SR 739)	Second St.
356	Pine Island Rd. (SR 78)	Merchants Crossing
357	Pine Island Rd. (SR 78)	Wal-Mart/Woodward
358	Pine Island Rd. (SR 78)	Piney Rd.
359	Bayshore Rd. (SR 78)	Evalena/Oldbridge
360	Bayshore Rd. (SR 78)	Hart/Newpost
1023	US 41	Woods Edge Pkwy.

**Closed-Circuit Television (CCTV) Camera Locations**

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<b>CCTV CAMERA LOCATIONS</b>		
<b>FDOT ID</b>	<b>Major Street</b>	<b>Minor Street</b>
223	Bus 41	Pine Island Rd. (SR 78)/Bayshore Rd.
225	Bus 41	Littleton Rd.
227	US 41	Bus 41
240	US 41	Six Mile Cypress Pkwy.
243	US 41 (Cleveland Ave)	Colonial Blvd.
245	Colonial Blvd.	Fowler St.
247	Colonial Blvd.	Metro Pkwy. (SR 739)
249	Colonial Blvd.	McGregor Baptist Church
250	Colonial Blvd.	Winkler Ave.
255	US 41	Bonita Beach Rd.
257	US 41	W. Terry St.
261	US 41	Pelican Landing/Old 41
262	US 41	Coconut Rd
265	US 41	Corkscrew Rd.
267	US 41	Sanibel Blvd.
268	US 41	Constitution Ave.
270	US 41	Alico Rd.
272	US 41	Briarcliff Rd.
276	US 41	Cypress Lake Dr./Daniels Pkwy.
279	US 41	College Pkwy.
280	US 41	Crystal Dr.
282	US 41	Beacon/Oak Dr.
284	US 41	Boy Scout Dr.
286	US 41	North Airport Dr.
288	US 41 (Cleveland Ave.)	Winkler Ave.
291	US 41 (Cleveland Ave.)	Hill Ave.
294	US 41	Hanson St.
296	US 41	Edison Ave.
301	US 41	Pine Island Rd. (SR 78)
303	US 41	Littleton Rd.
304	US 41	Del Prado Blvd.
306	US 41	Tara Woods Blvd
315	Fowler St. (SR 739)	MLK Blvd. (SR 82)
360	Bayshore Rd. (SR 78)	Hart/Newpost
372	MLK Blvd. (SR 82)	Veronica Shoemaker Blvd.
373	MLK Blvd. (SR 82)	Michigan Ave.

**System Detection Locations**

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<b>SYSTEM DETECTION LOCATIONS</b>		
<b>FDOT ID</b>	<b>Location</b>	<b>Approach</b>
221-223	Bus 41 between Pondella Rd and Pine Island Rd. (SR 78)/Bayshore Rd	NB/SB
225-226	Bus 41 between Littleton Rd and Laurel Dr	NB/SB
243	US 41 (Cleveland Ave) and Colonial Blvd.	NB/SB
249-250	Colonial Blvd. between McGregor Baptist Church and Winkler Ave.	EB/WB
256-257	US 41 between Center of Bonita Springs/Boston/Publix and W Terry St	NB
261-262	US 41 between Pelican Landing/Old 41 and Coconut Rd	NB/SB
268-270	US 41 between Constitution Ave. and Alico Rd	NB/SB
274-275	US 41 between Andrea Lane and Cypress Terrace/Market Square	NB/SB
283-284	US 41 between South Airport Drive and Boy Scout Drive	NB/SB
288-289	US 41 (Cleveland Ave.) between Winkler Ave. and Oakley Ave./K-Mart	NB/SB
297	US 41 (Cleveland Ave.) and Victoria Ave.	NB/SB
300-301	US 41 between Pondella Rd and Pine Island Rd. (SR 78)/Bayshore	NB/SB
227-303	US 41 between Littleton Rd and Bus 41	NB/SB
306	US 41 and Tara Woods Blvd	NB/SB
318	MLK Blvd. (SR 82) and US 41/Main/McGregor	EB
344	McGregor Blvd. and College Pkwy.	NB/SB
356	Pine Island Rd. (SR 78) and Merchants Crossing	EB
360	Bayshore Rd. (SR 78) and Hart/Newpost	WB
369	MLK Blvd. (SR 82) and Cranford St.	EB/WB
377	MLK Blvd. (SR 82) and Colonial Blvd./Lee Blvd.	NB
1204	Del Prado Blvd. and Viscaya Pkwy	NB/SB
1242	College Pkwy. and South Pointe Blvd.	EB/WB
1238	College Pkwy. and New Brittany/Queen Elizabeth	WB
1247	Cypress Lake Dr. and Reflections/Lake Breeze	WB
1252	Cypress Lake Dr. and South Pointe Blvd.	EB/WB
1271	Daniels Pkwy. and Gateway Blvd./North Airport	WB
1353-1356	Del Prado Blvd. between Beach Pkwy. and SE 46th St.	NB/SB
1364	Colonial Blvd and Treeline Ave.	WB

**Opticom Locations**

DRAFT

<b>OPTICOM LOCATIONS</b>		
<b>FDOT ID</b>	<b>Major Street</b>	<b>Minor Street</b>
240	US 41	Six Mile Cypress Pkwy.
241	Six Mile Cypress Pkwy.	Walmart/Home Depot
243	US 41 (Cleveland Ave)	Colonial Blvd.
271	US 41	Island Park Rd.
272	US 41	Briarcliff Rd.
273	US 41	Jamaica Bay
274	US 41	Andrea Lane
275	US 41	Cypress Terrace/Market Square
276	US 41	Cypress Lake Dr./Daniels Pkwy.
277	US 41	Cypress Trace Dr./Bell Tower
278	US 41	Big Pine Way/Seven Lakes/Bell Tower
279	US 41	College Pkwy.
280	US 41	Crystal Dr.
281	US 41	Palm Dr.
282	US 41	Beacon/Oak Dr.
283	US 41	South Airport Dr.
285	US 41	Page Plaza (Sams)/Page Field Common
286	US 41	North Airport Dr.
295	US 41	South St.

**County Count Stations**

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**COUNTY COUNT STATIONS**

LC#	PCS#	LOCATION (S = SOLAR; E = ELECTRIC)	ADDRESS	PHONE	MODEM	LANES	LOOPS	ACTIVE	REBUILT	SOLAR	ELECTRIC
1	30	DANIELS PARKWAY 100' E. OF PONDEROSA WAY (S)	5881 DANIELS PARKWAY	482-2111	S	6	12	91		X	
2	31	DANIELS PARKWAY 140' W. OF EAGLE RIDGE (S)	7381 DANIELS PARKWAY	768-5461	S	6	12	91		X	
3	52	DANIELS PARKWAY 210' W. OF JET PORT COMMERCE PARKWAY (E)	10180 DANIELS PARKWAY	561-2179	U	6	MW	OCT. 01			X
4	40	DEL PRADO BOULEVARD 30' S. OF FOUR MILE COVE PARKWAY (E)	1604 FOUR MILE COVE PARKWAY	573-1586	U	6	MW	OCT. 99			X
5	2	DEL PRADO BOULEVARD 150' S. OF CORNWALLIS PARKWAY (E)	1791 CORNWALLIS PARKWAY.	945-0346	U	6	6	84			X
6	14	COLONIAL BOULEVARD 50' W OF BOLING GREEN BOULEVARD (E)	1608 COLONIAL BOULEVARD	275-5727	U	6	6	89			X
7	9	US 41 285' N. OF BRANTLEY ROAD (S)	12453 S. CLEVELAND AVENUE	936-2045	S	6	6	86		X	
8	23	US 41 140' N. OF FOLEY ROAD (S)	28721 S. TANAMI TRAIL	495-0839	S	4	8	89		X	
9	1	US 41 150' OF N. KEY DRIVE (E)	13161 N. CLEVELAND AVENUE	652-4503	U	5	10	84			X

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