

RESOLUTION NO. 2025-

A RESOLUTION OF THE VILLAGE OF PINECREST, FLORIDA, AUTHORIZING THE VILLAGE MANAGER TO ENTER INTO A CONTRACT WITH CHOICE ENGINEERING CONSULTANTS, INC. FOR TRAFFIC OPERATIONS STUDIES CONSULTANT SERVICES; PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, the *State of Florida Department of Transportation Department* conducted a competitive bidding process for the procurement of *Districtwide Traffic Operations Studies Consultant* and awarded a bid to *Choice Engineering Consultants*; and

WHEREAS, pursuant to Section 2-287 of the Code of Ordinances, the Village Manager is authorized to execute contracts, as entered into by other governmental authorities, provided that the governmental authority has followed a competitive bidding procedure leading to the award of the bid or contract in question; and

WHEREAS, the Village Manager wishes to enter into a contract with Choice Engineering Consultants for various projects within the Village;

NOW, THEREFORE, BE IT RESOLVED BY THE VILLAGE COUNCIL OF PINECREST, FLORIDA, AS FOLLOWS:

Section 1. That the Village Council hereby authorizes the Village Manager, pursuant to Section 2-287 of the Code of Ordinances, to “piggyback” on an existing contract between Choice Engineering Consultants and State of Florida Department of Transportation (Contract No. CAK75), and enter into an agreement with Choice Engineering Consultants for Traffic Operations Studies Consultant Services for various projects in amount not to exceed the funding available in the approved annual budget.

Section 2. This resolution shall take effect immediately upon adoption.

PASSED AND ADOPTED this 22nd day of May, 2025.

Joseph M. Corradino, Mayor

Attest:

Priscilla Torres, MMC
Village Clerk

Approved as to Form and Legal Sufficiency:

Mitchell Bierman
Village Attorney




PINECREST

Office of the Village Manager

DATE: May 13, 2025

TO: The Honorable Mayor and Members of the Village Council

FROM: Yocelyn Galiano, ICMA-CM, Village Manager 

RE: Resolution Authorizing the Village Manager to Enter into an Agreement with Choice Engineering Consultants, Inc. for Traffic Operations Studies Consultant Services

Attached for your consideration is a resolution authorizing the Village Manager to execute a piggyback contract with Choice Engineering Consultants, Inc. to provide Traffic Operations Studies Consultant services. These services will be provided based on the terms and rates established in the original contract, with an amount not to exceed the funding available in the approved annual budget.

The original contract was entered into by the State of Florida Department of Transportation on September 27, 2022, following a competitive bidding process in accordance with Florida Statutes and the Pinecrest Procurement Policy. This contract honors the bid prices through September 2027.

I respectfully recommend that the Village Council adopt the attached resolution authorizing the Village Manager to execute a piggyback contract with Choice Engineering Consultants, Inc. for an amount not to exceed the funding available in the approved annual budget.

STANDARD PROFESSIONAL SERVICES AGREEMENT

Contract No.: CAK75
FDOT Financial ID No.(s) 409521-8-32-01

District: District 6

Appropriation/Line Item Number(s) for
1st year of contract, pursuant to s. 216.313, F.S. N/A
(required for contracts in excess of \$5 million)

F.A.P. No. T.B.A

THIS AGREEMENT, made and entered into on 9/27/2022 | 4:37 PM EDT, by and between the
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION, an agency of the State of Florida, hereinafter called the
Department and Choice Engineering Consultants, Inc.
(FEID No. F473395906) of 12855 SW 132nd Street, Miami, Florida 33186

authorized to conduct business in the State of Florida, hereinafter called the Consultant, agree as follows:

The Consultant and the Department mutually agree to abide by the Department's Standard Professional Services
Agreement, Terms, dated February, 2021 which are available as an appendix to this form in the
Department's Professional Services web site or from the Department's Office of Procurement. The Standard
Professional Services Agreement Terms, with the exception of the following non-applicable sections:

N/A

are incorporated by reference and made a part of this Agreement.

1. SERVICES AND PERFORMANCE

- A. The Department does hereby retain the Consultant to furnish certain services as described in Exhibit "A",
attached hereto and made a part hereof, in connection with
Districtwide Traffic Operations Studies Consultant
B. Unless changed by written agreement, the site for inspection of work referenced in Section 1.1 of the Standard
Professional Services Terms, will be 12855 SW 132nd Street, Miami, Florida 33186.

2. TERM

- A. Unless otherwise provided herein or by Supplemental Agreement or Amendment, the provisions of this
Agreement will remain in full force and effect through completion of all services required of the Consultant or a
5 year term from the date of execution of this Agreement, whichever occurs first.
B. Check applicable terms
The scheduled project services to be rendered by the Consultant will commence, subsequent to execution of
this Agreement, on the date specified in the written notice to proceed from the Department's which
notice to proceed will become part of this Agreement. The Consultant will complete scheduled project services
within months of the commencement date specified in the notice to proceed or as modified by
subsequent Amendment or Supplemental Agreement.
The project services to be rendered by the Consultant for each task assignment will commence, upon written
notice from the Department's Project Manager and will be completed within the time period specified in each
task assignment. All services performed under this contract will be completed within 60 months from the date
of this Agreement. The total fee for all accumulated task assignments may not exceed \$1,500,000.00
The scheduled project services to be rendered by the Consultant will commence, subsequent to execution of
this Agreement, on the date specified in the written notice to proceed from the Department's which
notice to proceed will become part of this Agreement. The Consultant will complete scheduled project
services within calendar days following completion of the construction contract(s) with which

FLORIDA DEPARTMENT OF TRANSPORTATION
STANDARD PROFESSIONAL SERVICES AGREEMENT

consultant services are associated. The anticipated length of the consultant services is _____ months.

3. **INSURANCE**

The amount of liability insurance to be maintained by the Consultant in accordance with Section 4.B of the **Standard Professional Services Agreement Terms** is \$250,000.00.

4. **SUBCONTRACTS**

The following subconsultants/subcontractors are authorized under this Agreement in accordance with Section 7.A. of the **Standard Professional Services Agreement Terms**:

C.H.Perez & Associates Consulting Engineers, Inc.

Florida Transportation Engineering, Inc.

Hagen Consulting Services, LLC

HBC Engineering Company

5. **COMPENSATION**

The Department agrees to pay the Consultant compensation as detailed in Exhibit "B", attached hereto and made a part hereof.

6. **MISCELLANEOUS**

A. Reference in this Agreement to Director will mean the Director of Transportation Operations.

B. The services provided herein do do not involve the expenditure of federal funds. In the event federal funds are involved, Section 9 of the **Standard Professional Services Agreement Terms** is incorporated by reference.

C. The following attachments are hereby incorporated into this Agreement as part hereof as though fully set forth herein.

Page A-1 through Page A-40 : Exhibit "A", Scope of Services

Page B-1 through Page B-6 : Exhibit "B", Method of Compensation

IN WITNESS WHEREOF, the parties have executed this Agreement by their duly authorized officers on the day, month and year set forth above.

Choice Engineering Consultants, Inc.

Name of Consultant

BY: DocuSigned by: Carlos Francis
Authorized Signature

Carlos Francis

(Print/Type)

Title: President

**STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION**

BY: DocuSigned by: Rudy Garcia 9/27/2022 | 4:37 PM EDT
6B0C509FD98547F...

Rudy Garcia, P.E.

(Print/Type)

Title: Director of Transportation Operations

FOR DEPARTMENT USE ONLY

APPROVED:

DocuSigned by: Monserrat Sierra
Professional Services Unit

LEGAL REVIEW

DocuSigned by: Alicia Trujillo
General Counsel Office



To: Lester.Silva@dot.state.fl.us

**FLORIDA DEPARTMENT OF TRANSPORTATION
FUNDS APPROVAL**

CAK75

9/19/2022

CONTRACT INFORMATION

Contract:	CAK75
Contract Type:	CA - ENGINEERING (ENGINEER)
Method of Procurement:	C - REQUEST FOR PROPOSAL (287.55,F. S.)
Vendor Name:	CHOICE ENGINEERING CONSULTANTS
Vendor ID:	F473395906001
Beginning Date of This Agreement:	09/16/2022
Ending Date of This Agreement:	09/15/2027
Contract Total/Budgetary Ceiling:	bc = \$1,500,000.00
Description:	Districtwide Traffic Operations Studies Consultant

FUNDS APPROVAL INFORMATION

FUNDS APPROVED/REVIEWED FOR ROBIN M. NAITOVE, CPA, COMPTROLLER ON 9/19/2022

Action:	Original
Reviewed or Approved:	APPROVED
Organization Code:	55064030662
Expansion Option:	A4
Object Code:	131512
Amount:	\$300,000.00
Financial Project:	40952183201
Work Activity (FCT):	119
CFDA:	
Fiscal Year:	2023
Budget Entity:	55150200
Category/Category Year:	088866/23
Amendment ID:	O001
Sequence:	00
User Assigned ID:	
Enc Line (6s)/Status:	0001/04

Total Amount: \$300,000.00

STANDARD PROFESSIONAL SERVICES AGREEMENT TERMS February 2021

1. SERVICES AND PERFORMANCE

- A. Before making any additions or deletions to the work described in the Agreement, and before undertaking any changes or revisions to such work, the parties will negotiate any necessary cost changes and will enter into a Supplemental Agreement covering such work and compensation. Reference herein to the Agreement will be considered to include any Supplemental Agreement.
- B. In the performance of professional services, the Consultant will use that degree of care and skill ordinarily exercised by other similar professionals in the field under similar conditions in similar localities. The Consultant will use due care in performing its services and will have due regard for acceptable engineering standards and principles. Consultant's standard of care shall not be altered by the application, interpretation, or construction of any other provision of this Agreement.
- C. The Consultant agrees to provide project schedule progress reports in a format acceptable to the Department and at intervals established by the Department. The Department will be entitled at all times to be advised, at its request, as to the status of work being done by the Consultant and of the details thereof. Coordination will be maintained by the Consultant with representatives of the Department, or of other agencies interested in the project on behalf of the Department. Either party to the Agreement may request and be granted a conference.
- D. All services will be performed by the Consultant to the satisfaction of the Director who will decide all questions, difficulties and disputes of any nature whatsoever that may arise under or by reason of the Agreement, the prosecution and fulfillment of the services hereunder and the character, quality, amount and value thereof; and the decision upon all claims, questions and disputes will be final and binding upon the parties hereto. Adjustments of compensation and contract time because of any major changes in the work that may become necessary or desirable as the work progresses will be subject to mutual agreement of the parties, and Supplemental Agreement(s) of such a nature as required will be entered into by the parties in accordance herewith.

In the event that the Consultant and the Department are not able to reach an agreement as to the amount of compensation to be paid to the Consultant for supplemental work desired by the Department, the Consultant will be obligated to proceed with the supplemental work in a timely manner for the amount determined by the Department to be reasonable. In such event, the Consultant will have the right to file a claim with the Department for such additional amounts as the consultant deems reasonable; however, in no event will the filing of the claim or the resolution or litigation thereof through administrative procedures or the courts relieve the Consultant from the obligation to timely perform the supplemental work.

- E. In the event the work covered by this Agreement includes the preparation of construction plans, it is understood that the work may be divided into two or more construction projects by the Director and that, if this is done, the Consultant will supply construction plans for each project.
- F. The Consultant is authorized to use the Department's computer facilities utilizing Department programs required for the performance of the services herein. The Consultant will identify the programs required and submit a written request to the Department's Project Manager for approval.
- G. All design work performed by the Consultant for projects where anticipated construction cost is one million dollars (\$1,000,000) or more will be subject to Value Engineering. The Department further reserves the right to subject projects of lesser construction cost to Value Engineering should the Department deem circumstances are present that warrant such a decision. Value Engineering may be performed at any stage of the design process. Unless specifically identified in the Agreement, the Consultant will not be required to perform the Value Engineering analysis.
- H. The Consultant will not be liable for use by the Department of plans, documents, studies or other data for any purpose other than intended by the terms of this Consultant Agreement.
- I. All tracings, plans, specifications, maps, computer files and/or reports prepared or obtained under this Agreement, as well as all data collected, together with summaries and charts derived therefrom, will be

considered works made for hire and will become the property of the Department upon completion or termination without restriction or limitation on their use and will be made available, upon request, to the Department at any time during the performance of such services and/or upon completion or termination of this Agreement. Upon delivery to the Department of said document(s), the Department will become the custodian thereof in accordance with Chapter 119, Florida Statutes. The Consultant will not copyright any material and products or patent any invention developed under this agreement. The Department will have the right to visit the site for inspection of the work and the products of the Consultant at any time.

2. **TERM:**

- A. Services required after completion of scheduled project services, including, but not limited to, design assistance, construction assistance, and litigation assistance, will be completed within the term of this Agreement at written direction of the department. Supplemental Agreements may be negotiated for any post project schedule services needed by the Department after scheduled project services.

In the event it becomes impracticable or impossible for the Consultant to complete the expected services within the term of this Agreement due to delays on the part of the department or circumstances beyond the control of the Consultant, the Agreement may be extended. An extension of the Agreement must be in writing.

- B. In the event there are delays caused by the Department in approval of any of the materials submitted by the Consultant or if there are delays occasioned by circumstances beyond the control and without fault or negligence of the Consultant which delay the scheduled project completion date, the Department may grant an extension of time equal to the aforementioned project schedule delay, as a minimum and not to exceed the Agreement term, by issuance of a Time Extension Letter. This letter will be for time only and does not include any additional compensation.

It will be the responsibility of the Consultant to ensure at all times that sufficient time remains in the Project Schedule within which to complete the services on the project. In the event there have been delays which would affect the project completion date, the Consultant will submit a written request to the Department which identifies the reason(s) for the delay, the amount of time related to each reason and specific indication as to whether or not the delays were concurrent with one another. The Department will review the request and make a determination as to granting all or part of the requested extension.

In the event time for performance of the scheduled project services expires and the Consultant has not requested, or if the Department has denied, an extension of the Project Schedule completion date; partial progress payments will be stopped on the date time expires. No payment shall be made for work performed after the Project Schedule completion date until a time extension is granted or all work has been completed and accepted by the Department if the Agreement term has not expired.

3. **COMPENSATION:**

- A. Bills for fees or other compensation for services or expenses shall be submitted to the Department in detail sufficient for a proper preaudit and postaudit thereof. The Department will render approval or disapproval of services within five working days of the receipt of a written progress report unless otherwise stated in the Agreement. The progress report will be accompanied by an appropriate invoice.
- B. The bills for any travel expenses, when authorized by terms of this Agreement and by the Department's Project Manager, shall be submitted on the Department's Travel Form No. 300-000-06 and will be paid in accordance with Section 112.061, F.S. and the most current version of the Disbursement Handbook for Employees and Managers.
- C. Records of costs incurred under terms of this Agreement will be maintained and made available upon request to the Department at all times during the period of this Agreement and for three years after final payment for the work pursuant to this Agreement is made. Copies of these documents and records will be furnished to the Department upon request.
- D. Records of costs incurred will include the Consultant's general accounting records and the project records, together with supporting documents and records, of the Consultant and all subconsultants/subcontractors performing work on the project, and all other records of the Consultant and subconsultants/subcontractors considered necessary by the Department for a proper audit of project costs.

- E. The general cost principles and procedures for the negotiation and administration, and the determination or allowance of costs under this Agreement will be as set forth in the Code of Federal Regulations, Titles 23, 48, 49, Rule Chapter 14-75, Florida Administrative Code, and other pertinent Federal and State Regulations, as applicable, with the understanding that there is no conflict between State regulations and Federal regulations in that the more restrictive of the applicable regulations will govern.
- F. The Consultant should be aware of the following time frames. Upon receipt, the Department has five (5) working days to inspect and approve the goods and services, unless the Agreement specifies otherwise. The Department has 20 days to deliver a request for payment (voucher) to the Department of Financial Services. The 20 days are measured from the latter of the date the invoice is received or the goods or services are received, inspected and approved.
- G. If a payment is not available within 40 days, a separate interest penalty at a rate as established pursuant to Section 55.03(1), Florida Statutes, will be due and payable, in addition to the invoice amount, to the Consultant. Interest penalties of less than one (1) dollar will not be enforced unless the Consultant requests payment. Invoices that have to be returned to a Consultant because of Consultant preparation errors will result in a delay in the payment. The invoice payment requirements do not start until a properly completed invoice is provided to the Department.
- H. A Vendor Ombudsman has been established within the Department of Financial Services. The duties of this individual include acting as an advocate for vendors who may be experiencing problems in obtaining timely payment(s) from a state agency. The Vendor Ombudsman may be contacted at (850) 413-5516.
- I. Except for issues arising from contract indemnification provisions, the Department will have the right to retain out of any payment due the Consultant under this Agreement an amount sufficient to satisfy any amount due and owing to the Department by the Consultant on any other Agreement between the Consultant and the Department. The Department may withhold payment on any invoice in the event that the Consultant is in default under any provision of this Agreement or any other Agreement between the Consultant and the Department as of the time of processing the invoice or as of the time payment is made available on the invoice. This right to withhold will continue until such time as the default has been cured, and, upon cure, the Department will have the right to retain an amount equal to the damages suffered as a result of the default.
- J. It is mutually agreed and understood that the following provision will be applicable to this Agreement if the compensation to be paid to the Consultant, whether by lump sum or cost-plus-a-fixed-fee, will exceed the threshold amount provided in Section 287.017, Florida Statutes, for CATEGORY FOUR.

The Consultant hereby certifies, covenants and warrants that wage rates and other factual unit costs provided the Department to support the compensation are accurate, complete and current as of the date of this Agreement. It is further agreed that the Agreement price will be adjusted to exclude any significant sums by which the Department determines the Agreement price was increased due to inaccurate, incomplete or non-current wage rates and other factual unit costs. All such Agreement adjustments must be made within one year following the end of the Agreement. For this purpose, the end of the Agreement is the date of final billing or acceptance of the work by the Department, whichever is later.

- K. In the event this Agreement is in excess of \$25,000 and has a term of more than one year, the provisions of Section 339.135(6)(a), Florida Statutes, are hereby incorporated:
"The Department, during any fiscal year, shall not expend money, incur any liability, or enter into any contract which, by its terms, involves the expenditure of money in excess of the amounts budgeted as available for expenditure during such fiscal year. Any contract, verbal or written, made in violation of this subsection is null and void, and no money may be paid on such contract. The Department shall require a statement from the Comptroller of the Department that such funds are available prior to entering into any such contract or other binding commitment of funds. Nothing herein contained shall prevent the making of contracts for periods exceeding 1 year, but any contract so made shall be executory only for the value of the services to be rendered or agreed to be paid for in succeeding fiscal years."
- L. The Department's performance and obligation to pay under this Agreement is contingent upon an annual appropriation by the Legislature.

4. INDEMNITY AND INSURANCE:

- A. If the Consultant is an individual or entity licensed by the state of Florida who holds a current certificate of registration under Chapter 481, Florida Statutes, to practice architecture or landscape architecture, under Chapter 472, Florida Statutes, to practice land surveying and mapping, or under Chapter 471, Florida Statutes, to practice engineering, and who enters into a written agreement with the Department relating to the planning, design, construction, administration, study, evaluation, consulting, or other professional and technical support services furnished in connection with any actual or proposed construction improvement, alteration, repair, maintenance, operation, management, relocation, demolition, excavation, or other facility, land, air, water, or utility development or improvement, the Consultant will indemnify and hold harmless the Department, and its officers and employees, from liabilities, damages, losses, and costs, including, but not limited to, reasonable attorneys' fees, to the extent caused by the negligence, recklessness, or intentionally wrongful conduct of the Consultant and other persons employed or utilized by the Consultant in the performance of the contract.

The parties agree that 1% of the total compensation to the Consultant for performance of this Agreement is the specific consideration from the Department to the Consultant for the Consultant's indemnity agreement.

- B. The Consultant will have and maintain during the term of this Agreement, a professional liability insurance policy or policies, or an irrevocable letter of credit established pursuant to Chapter 675 and Section 337.106, Florida Statutes, with a company or companies authorized to do business in the State of Florida, affording professional liability coverage for the professional services to be rendered in accordance with this Agreement in the amount specified in the Agreement.
- C. Under the terms of this agreement, the plans, reports and recommendations of the Consultant will be reviewed by the Department for conformity with Department standards and agreement terms. However, review by the Department does not constitute detailed review or checking of design components and related details, or the accuracy with which designs are depicted on the plans.
- D. Acceptance of the work by the Department or Agreement termination does not constitute Department approval and will not relieve the Consultant of the responsibility for subsequent corrections of any errors and/or omissions and the clarification of any ambiguities. The Consultant shall make all necessary revisions or corrections resulting from errors and/or omissions on the part of the Consultant without additional compensation. If these errors and/or omissions are discovered during the construction of the project, they shall be corrected without additional compensation.

5. COMPLIANCE WITH LAWS:

- A. All final plans, documents, reports, studies and other data prepared by the Consultant shall bear the professional's seal/ signature, in accordance with the applicable Florida Statute that governs and Administrative Rules promulgated by the Department of Business and Professional Regulation, and guidelines published by the Department, in effect at the time of execution of this Agreement. In the event that changes in the Statute or Rules create a conflict with the requirements of the published guidelines, requirements of the Statute and/or Rules shall take precedence.
- B. Chapter 337.162 Florida Statutes applies as follows:
- (1) If the Department has knowledge or reason to believe that any person has violated the provisions of state professional licensing laws or rules, it will submit a complaint about the violations to the Department of Business and Professional Regulation. The complaint will be confidential.
 - (2) Any person who is employed by the Department and who is licensed by the Department of Business and Professional Regulation and who, through the course of his employment, has knowledge to believe that any person has violated the provisions of state professional licensing laws or rules will submit a complaint about the violations to the Department of Business and Professional Regulation. Failure to submit a complaint about the violations may be grounds for disciplinary action pursuant to Chapter 455 and the state licensing law applicable to that licensee. The complaint will be confidential.
 - (3) Any confidential information submitted to the Department of Business and Professional Regulation will remain confidential pursuant to Chapter 455 and applicable state law.

- C. The Consultant will comply with all federal, state and local laws and ordinances applicable to the work or payment for work thereof, and will not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the performance of work under this Agreement.
- D. The Consultant warrants that the Consultant has not employed or retained any company or person, other than a bona fide employee working solely for the Consultant, to solicit or secure this Agreement, and that he has not paid or agreed to pay any person, company, corporation, individual, or firm any fee, commission, percentage, gift or any other consideration, contingent upon or resulting from the award or making of this Agreement. It is understood and agreed that the term "fee" shall also include brokerage fee, however denoted. For the breach or violation of this Paragraph, the Department shall have the right to terminate this Agreement without liability, and, at its discretion, to deduct from the contract price, or otherwise recover, the full amount of such fee, commission, percentage, gift or consideration.
- E. The Consultant shall comply with Chapter 119, Florida Statutes. Specifically, the Consultant shall:
 - (1) Keep and maintain public records required by the Department to perform the service.
 - (2) Upon request from the Department's custodian of public records, provide the Department with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes, or as otherwise provided by law.
 - (3) Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the Agreement term and following completion of the Agreement if the Consultant does not transfer the records to the Department.
 - (4) Upon completion of the Agreement, transfer, at no cost, to the Department, all public records in possession of the Consultant or keep and maintain public records required by the Department to perform the service. If the Consultant transfers all public records to the Department upon completion of the Agreement, the Consultant shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the Consultant keeps and maintains public records upon completion of the Agreement, the Consultant shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the Department, upon request from the Department's custodian of public records, in a format that is compatible with the information technology systems of the Department.

Failure by the Consultant to comply with Chapter 119, Florida Statutes, shall be grounds for immediate unilateral cancellation of this Agreement by the Department.

IF THE CONSULTANT HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONSULTANT'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS AGREEMENT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT:

District 6
305-470-5435
D6prcustodian@dot.state.fl.us
Florida Department of Transportation
District 6 - Office of General Counsel
1000 NW 111 Avenue
Miami, FL 33172-5800

- F. The Consultant agrees that it will make no statements, press releases or publicity releases concerning this Agreement or its subject matter or otherwise disclose or permit to be disclosed any of the data or other information obtained or furnished in compliance with this Agreement, or any particulars thereof, during the period of the Agreement, without first notifying the Department and securing its consent in writing. The Consultant also agrees that it will not publish, copyright or patent any of the data developed under this Agreement, it being understood that such data or information is the property of the Department.
- G. Consultant covenants and agrees that it and its employees will be bound by the standards of conduct provided in applicable Florida Statutes and applicable rules of the Department of Business and Professional Regulation as they relate to work performed under this Agreement. Consultant further covenants and agrees that when a former state employee is employed by the Consultant, the Consultant will require that strict adherence by the former state employee to Florida Statutes 112.313(9) and 112.3185 is a condition of employment of said former state employee. These statutes will by reference be made a part of this Agreement as though set forth in full. Consultant agrees to incorporate the provisions of this paragraph in any subcontract into which it might enter with reference to the work performed pursuant to this Agreement.
- H. A person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to a public entity, may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit bids on leases of real property to a public entity, may not be awarded or perform work as a contractor, supplier, subconsultant/subcontractor, or consultant under a contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in Section 287.017, for CATEGORY TWO for a period of 36 months from the date of being placed on the convicted vendor list.
- I. The Department will consider the employment by any contractor of unauthorized aliens a violation of Section 274A(e) of the Immigration and Nationality Act. Such violation will be cause for unilateral cancellation of this Agreement, by the Department, if the Consultant knowingly employs unauthorized aliens.
- J. DISCRIMINATION: An entity or affiliate who has been placed on the discriminatory vendor list may not submit a bid on a contract to provide goods or services to a public entity, may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit bids on leases of real property to a public entity, may not award or perform work as a contractor, supplier, subconsultant/subcontractor, or consultant under contract with any public entity, and may not transact business with any public entity.
- K. The Consultant agrees to comply with the Title VI Nondiscrimination Contract Provisions, Appendices A and E, available at <http://www.dot.state.fl.us/procurement/index.shtml>, incorporated herein by reference and made a part of this Agreement.
- L. The contractor/consultant/vendor agrees to comply with section 20.055(5), Florida Statutes, and to incorporate in all subcontracts the obligation to comply with section 20.055(5), Florida Statutes.

6. TERMINATION AND DEFAULT

- A. The Department may terminate this Agreement in whole or in part at any time the interest of the Department requires such termination, as follows:
 - (1) If the Department determines that the performance of the Consultant is not satisfactory, the Department may notify the Consultant of the deficiency with the requirement that the deficiency be corrected within a specified time; but not less than 10 days. Otherwise the Agreement will be terminated at the end of such time or thirty (30) days whichever is sooner.
 - (2) If the Department requires termination of the Agreement for reasons other than unsatisfactory performance of the Consultant, the Department will notify the Consultant of such termination, with instructions as to the effective date of work stoppage or specify the stage of work at which the Agreement is to be terminated.

- (3) If the Agreement is terminated before performance is completed, the Consultant will be paid for the work satisfactorily performed. Payment is to be on the basis of substantiated costs, not to exceed an amount which is the same percentage of the contract price as the amount of work satisfactorily completed is a percentage of the total work called for by the Agreement.
- B. The Department reserves the right to cancel and terminate this Agreement in the event the Consultant or any employee or agent of the Consultant is convicted for any crime arising out of or in conjunction with any work being performed by the Consultant for or on behalf of the Department, without penalty. It is understood and agreed that in the event of such termination, all tracings, plans specifications, computer files, maps, and data prepared or obtained under this Agreement will immediately be turned over to the Department. The Department reserves the right to terminate or cancel this Agreement in the event the Consultant will be placed in either voluntary or involuntary bankruptcy or an assignment be made for the benefit of creditors. The Department further reserves the right to suspend the qualifications of the Consultant to do business with the Department upon any such conviction.
- C. A Consultant is ineligible to enter into a contract with the Department for goods or services of any amount if, at the time of entering into such contract, the Consultant is on the Scrutinized Companies that Boycott Israel List, created pursuant to Section 215.4725, Florida Statutes, or is engaged in a boycott of Israel. Section 287.135, Florida Statutes, also prohibits companies from entering into a contract for goods or services of \$1 million or more that are on either the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector Lists which were created pursuant to s. 215.473, Florida Statutes. If the Department determines the Consultant submitted a false certification under Section 287.135 of the Florida Statutes, the Department shall either terminate the Contract after it has given the Consultant notice and an opportunity to demonstrate the Department's determination of false certification was in error pursuant to Section 287.135 of the Florida Statutes, or maintain the Contract if the conditions of Section 287.135 of the Florida Statutes are met.

7. ASSIGNMENT AND SUBCONSULTANTS/SUBCONTRACTORS

- A. The Consultant will maintain an adequate and competent professional staff so as to enable Consultant to timely perform under this Agreement and must be authorized to do business within the State of Florida and may associate with it such subconsultants/subcontractors, for the purpose of its services hereunder, without additional cost to the Department, other than those costs negotiated within the limits and terms of this Agreement. The Consultant is fully responsible for satisfactory completion of all subcontracted work. The Consultant, however, will not sublet, assign or transfer any work under this Agreement to other than subconsultants/subcontractors specified in the Agreement without the written consent of the Department.
- B. The Consultant must state in all subcontracts that services performed by any such subconsultant/subcontractor will be subject to the Professional Consultant Work Performance Evaluation System as defined in Chapter 14-75, Florida Administrative Code.
- C. The following provision is hereby incorporated in and made a part of this Agreement when the services provided herein do not involve the expenditure of Federal funds:

It is expressly understood and agreed that any articles which are the subject of, or required to carry out this contract will be purchased from the Corporation identified under Chapter 946, Florida Statutes, in the same manner and under the same procedures set forth in Section 946.515(2) and (4), Florida Statutes; and for purposes of this contract the person, firm, or other business entity carrying out the provisions of this contract will be deemed to be substituted for this agency insofar as dealings with such Corporation.

The Corporation referred to in the above paragraph is Prison Rehabilitative Industries and Diversified Enterprises, Inc. Available pricing, products, and delivery schedules may be obtained by contacting:

PRIDE Enterprises
12425 28th Street North Suite 300
St Petersburg, Florida 33716

8. MISCELLANEOUS

- A. All words used herein in the singular form will extend to and include the plural. All words used in the plural form will extend to and include the singular. All words used in any gender will extend to and include all genders.
- B. In the event that a court of valid jurisdiction finally determines that any provision of this Agreement is illegal or unenforceable, this Agreement will be construed as not containing such provision, and all other provisions which are otherwise lawful will remain in full force and effect, and to this end the provisions of this Agreement are declared to be severable.
- C. There are no understandings or agreements except as herein expressly stated.
- D. This Agreement will be governed by and construed in accordance with the laws of the State of Florida.
- E. In any legal action related to this Agreement, instituted by either party, Consultant hereby waives any and all privileges and rights it may have under chapter 47 and Section 337.19, Florida Statutes, relating to venue, as it now exists or may hereafter be amended, and any and all such privileges and rights it may have under any other statute, rule or case law, including, but not limited to those grounded on convenience. Any such legal action may be brought in the appropriate Court in any county chosen by the Department and in the event that any such legal action is filed by Consultant, Consultant hereby consents to the transfer of venue to the county chosen by the Department upon the Department filing a motion requesting the same.
- F. Consultant:
1. shall utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the Consultant during the term of the contract; and
 2. shall expressly require any subconsultants/subcontractors performing work or providing services pursuant to the state contract to likewise utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the subconsultant/subcontractor during the contract term; and
 3. shall adhere to requirements in section 448.095, Florida Statutes.
- G. The Department may grant the Consultant's employees or subconsultants/subcontractors access to the Department's secure networks as part of the project. In the event such employees' or subconsultants'/subcontractors' participation in the project is terminated or will be terminated, the Consultant shall notify the Department's project manager no later than the employees' or subconsultants'/subcontractor's separation date from participation in the project or immediately upon the Consultant acquiring knowledge of such termination of employees' or subconsultants'/subcontractors' participation in the project, whichever occurs later.

9. TERMS FOR FEDERAL AID CONTRACTS (APPENDIX I):

The following terms apply to all contracts in which it is indicated in Section 6.B of the Standard Professional Services Agreement that the services involve the expenditure of federal funds: During the performance of this Agreement, the Consultant, for itself, its assignees and successors in interest agrees as follows:

- A. It is understood and agreed that all rights of the Florida Department of Transportation relating to inspection, review, approval, patents, copyrights, and audit of the work, tracing, plans, specifications, maps, data, and cost records relating to this Agreement shall also be reserved and held by authorized representatives of the United States of America.
- B. It is understood and agreed that, in order to permit federal participation, no supplemental agreement of any nature may be entered into by the parties hereto with regard to the work to be performed hereunder without the approval of the U.S. Department of Transportation (hereinafter "USDOT"), notwithstanding anything to the contrary in this Agreement.
- C. Compliance with Regulations: The Consultant shall comply with the regulations relative to nondiscrimination

in Federally-assisted programs of the USDOT, Title 49, Code of Federal Regulations, Part 21, as they may be amended from time to time, (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this Agreement.

- D. **Nondiscrimination:** The Consultant, with regard to the work performed during the Agreement, shall not discriminate on the basis of race, color, national origin, sex, age, disability, religion or family status in the selection and retention of subconsultants/subcontractors, including procurements of materials and leases of equipment. The Consultant shall not participate either directly or indirectly in the discrimination prohibited by section 21.5 of the Regulations, including employment practices when the Agreement covers a program set forth in Appendix B of the Regulations.
- E. **Solicitations for subconsultants/subcontractors, including Procurements of Materials and Equipment:** In all solicitations made by the Consultant, either by competitive bidding or negotiation for work to be performed under a subcontract, including procurements of materials and leases of equipment, each potential subconsultant/subcontractor or supplier shall be notified by the Consultant of the Consultant's obligations under this Agreement and the Regulations relative to nondiscrimination on the basis of race, color, national origin, sex, age, disability, religion or family status.
- F. **Information and Reports:** The Consultant will provide all information and reports required by the Regulations, or directives issued pursuant thereto, and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Florida Department of Transportation, Federal Highway Administration, Federal Transit Administration, Federal Aviation Administration, and/or Federal Motor Carrier Safety Administration to be pertinent to ascertain compliance with such Regulations, orders and instructions. Where any information required of the Consultant is in the exclusive possession of another who fails or refuses to furnish this information, the Consultant shall so certify to the Florida Department of Transportation, Federal Highway Administration, Federal Transit Administration, Federal Aviation Administration, and/or the Federal Motor Carrier Safety Administrations appropriate, and shall set forth what efforts it has made to obtain the information.
- G. **Sanctions for Noncompliance:** In the event of the Consultant's noncompliance with the nondiscrimination provisions of this Agreement, the Florida Department of Transportation shall impose such contract sanctions as it or the Federal Highway Administration, Federal Transit Administration, Federal Aviation Administration, and/or Federal Motor Carrier Safety Administration may determine to be appropriate, including, but not limited to,
- (1) withholding of payments to the Consultant under the Agreement until the Consultant complies and/or
 - (2) cancellation, termination or suspension of the Agreement, in whole or in part.
- H. **Incorporation or Provisions:** The Consultant shall include the provisions of Paragraph C through I in every subcontract, including procurements of materials and leases of equipment unless exempt by the Regulations, or directives issued pursuant thereto. The Consultant will take such action with respect to any subcontract or procurement as the Florida Department of Transportation, Federal Highway Administration, Federal Transit Administration, Federal Aviation Administration, and/or the Federal Motor Carrier Safety Administration may direct as a means of enforcing such provisions, including sanctions for noncompliance. In the event a Consultant becomes involved in, or is threatened with, litigation with a subconsultant/subcontractor or supplier as a result of such direction, the Consultant may request the Florida Department of Transportation to enter into such litigation to protect the interests of the Florida Department of Transportation, and, in addition, the Consultant may request the United States to enter into such litigation to protect the interests of the United States.
- I. **Compliance with Nondiscrimination Statutes and Authorities:** Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d et seq., 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin); and 49 CFR Part 21; The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects); Federal-Aid Highway Act of 1973, (23 U.S.C. § 324 et seq.), (prohibits discrimination on the basis of sex); Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 et seq.), as amended, (prohibits discrimination on the basis of disability); and 49 CFR Part 27; The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 et seq.), (prohibits discrimination on the basis of age); Airport and Airway Improvement Act of 1982, (49 USC § 471, Section 47123), as amended,

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

- J. Interest of Members of Congress: No member of or delegate to the Congress of the United States shall be admitted to any share or part of this Agreement or to any benefit arising therefrom.
- K. Interest of Public Officials: No member, officer, or employee of the public body or of a local public body during his tenure or for one year thereafter shall have any interest, direct or indirect, in this Agreement or the proceeds thereof. For purposes of this provision, public body shall include municipalities and other political subdivisions of States; and public corporations, boards, and commissions established under the laws of any State.
- L. Participation by Disadvantaged Business Enterprises ("DBE"): The Consultant shall agree to abide by the following statement from 49 CFR 26.13(b). The statement that follows shall be included in all subsequent agreements between the Consultant and any subconsultant/subcontractor:
- "The Consultant, sub recipient or subconsultant/subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this Agreement. The Consultant shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the Consultant to carry out these requirements is a material breach of this Agreement, which may result in termination of this Agreement or other such remedy as the recipient deems appropriate."
- Pursuant to 49 CFR 26.11(c), the Consultant shall submit the bid opportunity list at the time of contract execution, and shall enter DBE commitment and payment information in the Florida Department of Transportation Equal Opportunity Compliance (EOC) system. The Consultant shall request access to the EOC system using Form No. 275-021-30.
- M. It is mutually understood and agreed that the willful falsification, distortion or misrepresentation with respect to any facts related to the project(s) described in this Agreement is a violation of the Federal Law. Accordingly, United States Code, Title 18, Section 1020, is hereby incorporated by reference and made a part of this Agreement.
- N. It is understood and agreed that if the Consultant at any time learns that the certification it provided the Florida Department of Transportation in compliance with 49 CFR, Section 26.51, was erroneous when submitted or has become erroneous by reason of changed circumstances, the Consultant shall provide immediate written notice to the Florida Department of Transportation. It is further agreed that the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transaction" as set forth in 49 CFR, Section 29.510, shall be included by the Consultant in all lower tier covered transactions and in all aforementioned federal regulation.
- O. The Florida Department of Transportation hereby certifies that neither the Consultant nor the Consultant's representative has been required by the Florida Department of Transportation, directly or indirectly as an express or implied condition in connection with obtaining or carrying out this Agreement, to

- (1) employ or retain, or agree to employ or retain, any firm or person, or
- (2) pay, or agree to pay, to any firm, person, or organization, any fee, contribution, donation, or consideration of any kind;

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

P. The Consultant hereby certifies that it has not:

- (1) employed or retained for a commission, percentage, brokerage, contingent fee, or other consideration, any firm or person to solicit or secure this Agreement (except a bona fide employee or Agency); or
- (2) agreed, as an express or implied condition for obtaining this Agreement, to employ or retain the services of any firm or person in connection with carrying out this Agreement; or
- (3) paid, or agreed to pay, to any firm, organization or person any fee contribution, donation, or consideration of any kind for, or in connection with, procuring or carrying out the Agreement (except a bona fide employee or Agency).

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

EXHIBIT A

SCOPE OF SERVICES **District-Wide Traffic Operations/Studies Consultant**

Stage III

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SCOPE OF SERVICES

District-Wide Traffic Operations / Studies Consultant

OBJECTIVE

The general purpose of this consultant contract is to provide the Department with professional traffic engineering services through the development of various traffic operations and safety studies that will be identified for intersections, arterials, etc., and related improvement recommendations and evaluations.

All reports/studies are to be signed and sealed by a professional engineer registered in Florida whose area of specialty is traffic engineering. The Department must approve the studies to fulfill the requirements of the contract. As part of this approval process, a preliminary or draft report is to be submitted for Department review before submitting the final signed and sealed document. The Department's Project Manager will determine the submittal dates for the draft and final reports.

Authorization to perform the required services shall be conveyed to the Consultant through a **Task Work Order for Professional Services (TWO)** issued by the Department's Project Manager. The Task Work Order specify the limits of the study area, the desired task activities to be performed, the estimated completion date, the products to be submitted to the Department, and the total price to be paid to the Consultant for services rendered and approved. Each Task Work Order issued by the Department's Project Manager shall serve as the formal authorization, effective the date of the Letter of Authorization or a subsequent date if so specified.

SERVICES

The Consultant shall provide engineering services to satisfy the Department's stated contract objectives as further described in the following overall service types and tasks.

PROJECT MANAGEMENT

This service type includes management activities conducted by the Consultant to ensure the satisfactory completion of the contract requirements. Project management is a continuous service rendered throughout the duration of the contract and includes scheduling, monitoring, documenting and reporting activities. These activities will be used to assist in the Department's review of the Consultant's conformance to the scope of services. For this contract, project management will be divided into three (3) areas; 1) schedule/status reports, 2) meetings and 3) project records/files. This service will be paid as part of the individual TWO.

SCHEDULE/STATUS REPORTS

The Consultant shall submit, when requested by the Department's project manager, a project schedule for each study location within one week after receiving the "**Task Work Order**". This project schedule will address the establishment of time frames for completing the applicable task activities outlined in the Task Work Order. The Consultant shall also meet with the project manager monthly or prepare monthly status reports of the Contract's progress as directed by the Department's project manager. This status report shall include, but not be limited to, a discussion of technical/contract administration problems encountered and resolved, updates to and variations from the project schedule(s), and a current comparison of contract expenditures by task activity to include anticipated and actual billing costs to the Department for work satisfactorily completed. Two (2) copies of the monthly status report shall be delivered to the Department by the tenth day of the following month.

The Department shall provide prompt review and comments of the monthly status report as needed, and provide guidance in the resolution of any problems or schedule variation.

Products

- I) Project schedules with updates
- II) Monthly status reports

MEETINGS

Periodic meetings, no less than every other month, relating to the performance of contract services and tasks, will be necessary throughout the duration of the contract. The Consultant shall prepare minutes of each meeting to include "action" items developed and/or assigned. These minutes shall be distributed to all attendees within one week after the meeting.

Product

- I) Meeting minutes

CONTRACT RECORDS AND FILES

The Consultant shall maintain the records and files for the work required in this contract. The records and files shall contain all correspondence to and from the Consultant related to the completion of work. This also includes any other materials, traffic data, or information that the Consultant has obtained or has been sent/ given to the Consultant. The records and files shall include all TWO completed to date and shall be delivered to the Department every four months. This submittal shall include each TWO in PDF format, condition diagram in CADD format, and crash data in excel format.

The Department shall forward to the Consultant copies of all correspondence, materials, traffic data and other information received/directed to others if related to the work in this contract and appropriate for the contract files.

Product

- I) Contract records and files

SERVICE TYPES 1 thru 11 - Development of Traffic Operations and Safety Studies Reports

This service area will include the development of the five (5) basic types of safety and traffic operations studies plus composite studies, miscellaneous, and public involvement:

- I) Qualitative Assessments (service type 1)
- II) Signal Warrant Analysis (service type 2)
- III) Intersection Analysis (service type 3)
- IV) Arterial Analysis (service type 4)
- V) Left Turn Phase Warrant Analysis (service type 5)
- VI) Composite Studies (service type 6)
- VII) Other traffic engineering related studies (service type 7)
- VIII) Public Involvement (service type 8)
- IX) Fatal Crash Reviews (service type 9)
- X) Speed Zone Studies (service type 10)
- XI) Technical Memo (service type 11)

Each of these studies is to involve the performance of discrete work tasks and subtasks by a qualified traffic engineer. Additional or supplemental tasks as determined by the Department's Project Manager might also be required.

All reports shall be signed and sealed by a professional engineer registered in Florida. The following discussion of the study types with associated work tasks is provided.

SERVICE TYPE 1 - QUALITATIVE ASSESSMENT

Task 1A - Qualitative Assessment - (Intersection)

A qualified traffic engineer of the firm, experienced in the traffic engineering discipline, and registered in the state of Florida (PTOE Certified Preferred) shall visit the location under study during the morning and evening peak traffic periods or other period as specified by the Department's project manager (crash peak), to make qualitative assessments of the intersection operation. Such factors as queue lengths, delays, vehicular conflicts or any other operational characteristics critical to evaluate the need for intersection improvements, signal control, and

left turn phase, etc. shall be noted. During the field review safety conditions must also be observed and recorded.

The Consultant shall also examine the physical features to document evidence of high-crash conditions and observe traffic movements for high-risk maneuvers. In addition, the Consultant will review geometries and traffic control devices for deficiencies related to abnormal crash patterns, and identify potential driver expectancy problems. The Consultant will complete a standard Field Observation Report form or equivalent form approved by the Project Manager.

Photographs shall be taken of all intersection approaches with emphasis on obtaining visual information that would be of value to the Department during any subsequent project plan preparation activities. For example, utility conflicts, right of way constraints, obstructions, unusual geometries, deficient pavement conditions or markings, etc. should be photographed and/or otherwise detailed as appropriate. Photos and/or detailed graphics (CADD format) shall be included in the conceptual recommendation report.

The Consultant shall collect hourly traffic count data on each approach to the intersection for a minimum period of 72 hours during typical weekday traffic conditions or as otherwise specified. Traffic count data should be recorded by automatic traffic recorders (ATR) furnished by the Consultant. In addition, the Consultant shall collect fifteen-minute peak-hour turning movement counts (two hours in the morning and two hours in the afternoon or other peak periods during which warranting volumes might exist) and pedestrian volume shall be taken for a total of four (4) hours encompassing the morning and afternoon peak periods and representative off-peak periods as needed. The consultant shall review the traffic count data and the results of this qualitative assessment shall be incorporated in an official recording of field review minutes.

The Consultant must also review a minimum of three years of crash history of the intersection. This review includes the preparation of crash summary sheets and collision diagrams. The crash summary shall at a minimum include the classification of crashes by type, time of day, day of the week, and month. Injury severity must also be documented in the summary as well as weather and lighting conditions under which the crash occurred. Consultant shall calculate the safety ratio and confidence level for the spot under study and thus determine if the location is a high crash location.

Finally, the consultant shall also recommend to the Department the need for any improvements and/or further study if necessary.

Task 1A Products

- I) Assessment of intersection safety and operation in report form (Three draft copies and three final copies signed and sealed)
- II) 72 hour approach volume counts
- III) Four-hour turning movement counts/with pedestrian volume

- IV) Recommendations for improvements and/or further study if necessary
- V) Crash summary review (include crash summary sheets & collision diagrams)
- VI) PDF format report on a CD

Task 1B - Qualitative Assessment - (Arterial)

The Qualitative Assessment (Arterial) analysis will be conducted along a study section that for the purpose of this contract is assumed for an urban section to be one mile in length with 4 signals or less, or a two (2) mile rural section with not more than two signals. A qualified traffic engineer of the firm, experienced in the traffic engineering discipline, and registered in the state of Florida (PTOE Certified Preferred), shall visit the arterial under study during the morning and evening peak traffic period, or other period as specified by the Department's Project Manager, in order to make qualitative assessments of arterial operation, particularly in terms of queue lengths, delays, travel speeds, high crash segments, high crash spots, access, conflicts or any other operational characteristics that should be considered in evaluating the need for safety or operational improvements.

The Consultant must also review a minimum of three years of crash history of the arterial. This review includes the preparation of crash summary sheets. The crash summary shall at a minimum include the classification of crashes by type, time of day, day of the week, and month. Injury severity must also be documented in the summary as well as weather and lighting conditions under which the crash occurred. Consultant shall calculate the safety ratio and confidence level for the spots within the study area and for the segment and thus determine if spots/segment is high crash locations.

The Consultant shall also evaluate the arterial's conformance to current access management criteria. The evaluation shall include an assessment of the nonconforming locations that may be affecting safety and/or level of service. It should also include any recommendations to rectify the nonconformance if warranted.

The Consultant shall perform standard travel time and delay studies along the subject arterial using the manual method or the computerized. Both of which are demonstrated in the Manual on Uniform Traffic Studies (MUTS). The Department's Project Manager must approve other state-of-the-art techniques.

Travel time and delay studies shall be conducted in each direction of travel during the morning and evening peak traffic periods and also during a daytime off-peak period. A minimum of six (6) runs shall be made for each direction and time period. From the travel time and delay data, a speed profile shall be developed for each condition. The profiles shall be supplemented with a written analysis of the location and determination of possible causes of the measured delays and constrained

running speeds.

Photographs shall be taken of any geometric, traffic or traffic control aspect about which the Department's Project Manager should be aware. The Consultant shall recommend to the Department the need for any improvements and/or further study if necessary.

Task 1B Products

- I) Assessment of the arterial safety and operation (Three draft copies and three final copies signed and sealed)
- II) Travel time and delay profiles
- III) Travel time and delay analysis
- IV) Summarized data & most prominent delay location
- V) Crash summary review (include crash summary sheets)
- VI) Recommendation for improvements and/or further study if necessary
- VII) PDF format report on a CD

SERVICE TYPE 2 - SIGNAL WARRANT ANALYSIS

Task 2A - Signal Warrant Analysis

The Signal Warrant Analysis is the study used to evaluate a candidate location for possible signalization or signal removal. The Manual of Uniform Traffic Control Devices (2009, MUTCD) lists nine (9) minimum warrants that are to be evaluated as appropriate for the location. As an absolute minimum, the Signal Warrant Analysis will include the following activities.

Subtask 2A (a) Intersection Inventory

The Consultant shall conduct a field inventory of each intersection under study and prepare a detailed condition diagram on standard Department form contained in the MUTS or in another format approved by the Department. Condition diagrams should be created using CADD (DGN format) and shall include intersection geometry, lane use/arrangements, and identification of all traffic control devices including pedestrian features, and other roadway or roadside elements that contribute to the quality of intersection operation or safety such as bus stops, school zones, sight distance obstructions, etc. within 300 feet. It shall also include any roadway features, which may be impacted by signal installation or proposed alternatives.

Subtask 2A (a) Product

- i) Condition diagram

Subtask 2A (b) Crash Analysis

The consultant shall analyze the crash data, collision diagrams and identify abnormal crash characteristics or patterns. The Consultant will develop a list of possible causes and countermeasures for each abnormal crash pattern. These causes must be site specific, identified during field review of the location under study. The Consultant's engineer will quantify the abnormal crash history whenever possible using scientifically based methods such as expected value analysis, safety ratio, confidence level, statewide crash rates, or other statistical method.

Subtask 2A (b) Products

- i) Crash analysis (include crash summary sheets & collision diagrams)
- ii) Abnormal crash characteristics/patterns
- iii) Possible crash causes and countermeasures for each abnormal pattern

Subtask 2A (c) Warrant Analysis/Recommendations in Report Format

The analysis of the collected data and the evaluation of the applicable warrants described in the MUTCD, and the Department's Manual of Uniform Traffic Studies (MUTS) shall form the basis for the report. From the analysis and in consideration of accepted traffic engineering practice, the Consultant shall formulate a recommendation as to whether or not a signal is warranted and justified and should be considered for installation or removal.

(Special Note: It is expected that engineering judgment will be exercised in making final recommendations for installation of a traffic signal. Consideration should be given to such factors as spacing of adjacent signals, impact of the new signal on arterial operation, acceptable gaps in the mainline traffic, etc. Alternatives to signal installation should also be considered). Also if applicable include other recommendations such as pavement markings, signage, channelization, etc. Attached to this report, in the form of appendices or figures (as appropriate), shall be the completed Departmental Warrant Analysis forms, Condition Diagrams, Collision Diagrams, and other products of Subtasks as described above.

Subtask 2A (c) Products

- i) Three (3) draft copies and three (3) final copies signed and sealed of signal warrant analysis report
- ii) Technician worksheets
- iii) PDF format report on a CD

SERVICE TYPE 3 - INTERSECTION ANALYSIS

Task 3A - Intersection Safety and Operational Analysis

The Intersection Analysis is the tool by which an intersection is evaluated, after observation and data analysis, to determine the need as well as

opportunity for safety and operational improvements. For the purposes of contract negotiations, all intersection analyses shall be assumed to be performed at intersections under signal control. The Consultant is expected to consider intersection geometry, channelization, signal timing and phasing, display and operations, crash history, and delays as well as any other factors that impact the safety and operation of the intersection. Recommendations for improvement shall be evaluated for their effectiveness. A minimum of three (3) alternatives will be evaluated. The "Do Nothing" alternative may be included but not counted as one of the three alternatives. As a minimum, an Intersection Analysis will include the following activities.

Subtask 3A (a) Intersection Inventory

The Consultant shall conduct a field inventory of each intersection under study and prepare a detailed condition diagram on standard Department form contained in the MUTS or in another format approved by the Department. Condition diagrams should be created using CADD (DGN format) and shall include intersection geometry, lane use/arrangements, and identification of all traffic control devices including pedestrian features, and other roadway or roadside elements that contribute to the quality of intersection operation or safety such as bus stops, school zones, sight distance obstructions, etc. within 300 feet. It shall also include any roadway features, which may be impacted by an alternative.

Subtask 3A (a) Product

- i) Condition diagram

Subtask 3A (b) Crash Analysis

The consultant shall analyze the crash data, collision diagrams and identify abnormal crash characteristics or patterns. The Consultant will develop a list of possible causes and countermeasures for each abnormal crash pattern. These causes must be site specific, identified during field review of the location under study. The Consultant's engineer will quantify the abnormal crash history whenever possible using scientifically based methods such as expected value analysis, safety ratio, confidence level, statewide crash rates, or other statistical method.

Subtask 3A (b) Products

- i) Collision Diagrams
- ii) Crash analysis (include crash summary sheets)
- iii) Abnormal crash characteristics/patterns
- iv) Possible crash causes and countermeasures for each abnormal pattern

Subtask 3A (c) Intersection Delay Study

An Intersection Delay Study shall be made for a total of four (4) hours encompassing the morning and evening peak traffic periods or other period as specified by the Department's Project Manager. This is to be collected for two (2) approaches (one lane group/one movement per approach) and collected simultaneously with the turning movement counts. This study shall be performed in accordance with the MUTS or other method approved by the Department's Project Manager. The study will provide some basic measures of delays, such as the average vehicle delay, presently existing at the intersection. This will cover both signalized and un-signalized intersections.

Subtask 3A (c) Products

- i) Intersection delay study
- ii) Technician's worksheets

Subtask 3A (d) Level of Service Analysis

Using methodology based on the 2010 HIGHWAY CAPACITY MANUAL (HCM 2010), the Consultant shall determine the existing and resulting level of service (LOS) for the existing and proposed alternatives or as directed by the Department. Level of service results obtained from running available software (HCS, SIGNAL 2000, etc) must be calibrated using field measured data such as delay or saturation flow rate. In some cases, as determined by Department's Project Manager, traffic simulation through the use of the CORSIM model may be required. This task will be negotiated separately.

An operational analysis will be used for critical intersection(s); the appropriate analysis as authorized by the Department's Project Manager will be utilized.

Subtask 3A (d) Products

- i) Level of service for existing condition
- ii) Level of service for optimized existing conditions
- iii) Level of service of proposed conditions
- iv) Summary of proposed recommendations

Subtask 3A (e) Recommendations for Improvements

From the results of the previous tasks, appropriate analysis, and any supplemental work tasks authorized by the Department's Project Manager, the Consultant shall make conceptual recommendations for optimizing the intersection operation - from both a safety and operational standpoint. The Consultant shall provide sketches, created in CADD (DGN format) with detailed measurements as appropriate, of existing conditions as well as proposed conditions for the improvement alternatives identified.

All proposed intersection improvements should be evaluated for their overall and peak period effectiveness. The Consultant shall describe the expected number and type of crashes & vehicular delays reduced by each improvement. As part of this effort the consultant shall evaluate the design criteria, design variances/exceptions, constructability and impacts (right of Way, drainage, permits, utilities, environmental, access management, American with Disabilities Act, etc.) of the alternatives.

Subtask 3A (e) Products

- i) Proposed improvement sketches
- ii) Analysis of effectiveness for each Improvement

Subtask 3A (f) Development of Preliminary Cost Estimates, Project Benefits

The Consultant shall determine a preliminary cost estimate (which will include PE, CEI and contingencies; also R/W if available) of the improvement alternatives proposed using recent Department historical cost data or other method as approved by the Department's Project Manager. The cost estimate shall make a distinction between the cost of the safety and operational improvements separately, so that safety and operational benefits can be clearly identified. Therefore, separate cost estimates for operational and safety improvements shall be submitted. The Consultant shall also determine the project/user safety and operational benefits resulting from implementation of the improvements identified. Project/user benefits will include such items as crash reduction, reduction in number of stops and delays and savings in fuel consumption. Nationally recognized references (such as those published by U.S.D.O.T.) shall be used to ascertain these benefits with the approval from the Department's Project Manager. The Consultant shall develop a safety benefit/cost ratio, an operational benefit/cost ratio and a total benefit/cost ratio for each of the proposed alternatives.

Subtask 3A (f) Products

- i) Cost estimates for proposed improvements
 - Safety
 - Operational
- ii) Benefit/cost ratios
 - Safety
 - Operational
 - Total

Subtask 3A (g) Report

The products of previous subtasks within this study shall be analyzed collectively. The consultant shall then form an Intersection Analysis report. The report shall recommend, in consideration of accepted traffic engineering practice and optimal project/user benefits, intersection improvements to include but not be limited to geometry and/or capacity

enhancements, improved channelization and positive guidance, improved signal operations, which may include display adjustments or phasing and timing adjustments, and reduced fixed object and sight distance hazards. Attached to this report, in the form of appendices or figures (as appropriate), shall be the products of subtasks described above.

Subtask 3A (g) Products

- i) Three (3) draft copies and three (3) final copies signed and sealed of intersection analysis report.
- ii) PDF format report on a CD

SERVICE TYPE 4 - ARTERIAL ANALYSIS

Task 4A - Arterial Safety and Operational Analysis

The Arterial Analysis will be conducted along a study section that for the purpose of this contract is assumed for an urban section to be one mile in length with 4 signals or less, or a two (2) mile rural section with not more than two signals. The analysis will form the basis for recommended improvements intended to control access, reduce travel time, delays and queues, enhance safety, manage and/or reduce conflicts, enhance positive guidance, and improve overall operational and traffic flow characteristics. A minimum of three (3) alternatives will be evaluated. The do nothing alternative may be included but not counted as one of the three alternatives. As a minimum, an Arterial Analysis will include these subtask activities:

Subtask 4A (a) Traffic Counts

The Consultant shall collect hourly 72 hours approach counts on all approaches at one intersection within the study limits during typical weekday traffic conditions or as otherwise specified. In addition, the Consultant shall collect four (4) hours of fifteen-minute peak-hour turning movement counts (two hours in the morning and two hours in the afternoon or other peak periods during which such volumes might exist) and pedestrian volume shall be taken for a total of four (4) hours encompassing the morning and afternoon peak periods and representative off-peak periods as needed. The Department's Project Manager may supplement the traffic data collection at additional intersections within the study limits

Subtask 4A (a) Products

- i) 72-hour approach volume counts
- ii) Four-hour turning movement counts/with pedestrian counts

Subtask 4A (b) Arterial Inventory

The Consultant shall conduct a field inventory of the arterial portion under study and prepare a detailed condition diagram on standard Department form contained in the MUTS or in another format approved by the Department. Condition diagrams should be created using CADD (DGN format) and shall include intersection geometry, lane use/arrangement, and identification of all traffic control devices including pedestrian features, and other roadway or roadside elements that contribute to the quality of intersection operation or safety such as bus stops, school zones within 300 feet, sight distance obstructions, etc. The inventory will also include a summary of phasing, splits, offsets, etc. for each signal. Intersections not in conformance with MUTCD or Departmental standards shall be identified detailing the nonconforming condition. For each signalized intersection within the study area, the distance in all directions to the next signalized intersection shall be measured and recorded to the nearest hundredth of a mile.

Subtask 4A (b) Products

- i) Condition diagram
- ii) Supplemental inventory information

Subtask 4A (c) Crash Analysis

The consultant shall analyze the crash data, collision diagrams and identify abnormal crash characteristics or patterns. The Consultant will develop a list of possible causes and countermeasures for each abnormal crash pattern. These causes must be site specific, identified during field review of the location under study. The Consultant's engineer will quantify the abnormal crash history whenever possible using scientifically based methods such as expected value analysis, safety ratio, confidence level, statewide crash rates, or other statistical method.

Subtask 4A (c) Products

- i) Crash analysis (include crash summary sheets & collision diagrams)
- ii) Abnormal crash characteristics/patterns
- iii) Possible crash causes and countermeasures for each abnormal pattern

Subtask 4A (d) Arterial Analysis/Signal Optimization

Using methodology based on the 2010 HIGHWAY CAPACITY MANUAL (HCM 2010), the Consultant shall determine the roadway's existing and proposed level of service (LOS) for the existing conditions and for each of the proposed alternatives. An operational analysis will be used for the arterial(s). For urban and suburban streets with signal spacing less than two miles, the methodology outlined in *chapter 16* of the 2010 HIGHWAY

CAPACITY MANUAL (HCM 2010) shall be used. For two-lane and multilane highways, the methodologies outlined in *chapter 14 or 15* (whichever is applicable) of the 2010 HIGHWAY CAPACITY MANUAL (HCM 2010) shall be used.

This analysis shall also include LOS analysis for the individual intersections within the arterial under study, (*chapters 18 and 19 of the HIGHWAY CAPACITY MANUAL (HCM 2010) for signalized and un-signalized intersections, respectively*).

The consultant may also be required, when requested by the Department's project manager, to use the CORSIM model to evaluate the existing and proposed alternatives, (this task will be negotiated separately). The Consultant may also be required to use Transyt 7F or Synchro for signal system optimization; or in the case of a diamond interchange, PASSER III. The consultant shall analyze various traffic signal control alternatives and determine the optimal strategy using the measure of effectiveness produced by the program as a guide. Controller type, phasing, cycle length, and splits shall be determined for two periods of the day. In developing the optimum control parameters, the Consultant shall take into consideration the Metro-Dade or Monroe County system requirements (i.e. cycle length, minimum greens, etc). Optimization of the signal operation shall be evaluated for each candidate geometric modification and each potential combination of modifications.

Subtask 4A (d) Products

- i) Level of service for existing condition, optimized existing conditions, and proposed alternatives (Arterial and individual intersections)
- ii) Summary of proposed recommendations
- iii) Optimal signal control parameters
- iv) Revised controller timing sheets
- v) CORSIM input and output files (When requested by the Department's project manager)

Subtask 4A (e) Recommendations for Improvements

From the results of the previous tasks, appropriate analysis, and any supplemental work tasks authorized by the Department's Project Manager, the Consultant shall make conceptual recommendations for optimizing the operation of the arterial, from both a safety and operational standpoint. The Consultant shall provide sketches, created in CADD (DGN format) with detailed measurements as appropriate, of existing conditions as well as proposed conditions for the improvement alternatives identified. The Consultant shall describe the expected number and type of crashes and vehicular delays reduced by each improvement type. As part of this effort the consultant shall evaluate the design criteria, design variances/exceptions, constructability and impacts (Right of Way, drainage, permits, utilities, environmental, access

management, American with Disabilities Act, etc.) of the alternatives.

Subtask 4A (e) Products

- i) Proposed improvement sketches
- ii) Analysis of effectiveness for each improvement

Subtask 4A (f) Development of Preliminary Cost Estimates, Project Benefits

The Consultant shall determine a preliminary cost estimate (which will include PE, CEI and contingencies; also R/W if available), of the proposed improvement using recent Department historical cost data or other method as approved by the Department's Project Manager. The cost estimate shall make a distinction between the cost of the safety and operational improvements separately, so that safety and operational benefits can be clearly identified. Therefore, separate cost estimates for operational and safety improvements shall be submitted. The Consultant shall also determine the project/user safety and operational benefits resulting from implementation of the improvements identified. Project/user benefits will include such items as crash reduction, reduction in number of stops and delays and savings in fuel consumption. Nationally recognized references (such as those published by U.S.D.O.T.) shall be used to ascertain these benefits with the approval from the Department's Project Manager. The Consultant shall develop a safety benefit/cost ratio, an operational benefit/cost ratio and a total benefit/cost ratio for each of the proposed alternatives.

Subtask 4A (f) Products

- i) Cost Estimates for Proposed Improvements
 - Safety
 - Operational
- ii) Benefit/Cost Ratios
 - Safety
 - Operational
 - Total

Subtask 4A (g) Report

The products of previous subtasks within this study shall be analyzed collectively. The consultant shall then form an Arterial Analysis report. The report shall recommend, in consideration of accepted traffic engineering practice and optimal project/user benefits, a coordinated sequence of improvements to enhance motorist safety (by reduction in crashes and their severity) and/or increase the efficiency of traffic flow along the arterial corridor. The sketches for the existing conditions as well as proposed improvements shall be included in the report. Recommended improvements shall be based upon consideration of all relevant corridor elements (including the crash history) and shall be directed at improving access, circulation, travel time, delays, stops, motorist safety, and fuel consumption. Emphasis should be given to those projects having low cost

and high impact.

Subtask 4A (g) Products

- i) Three (3) draft copies and three (3) final copies signed and sealed of arterial analysis report.
- ii) PDF format report on a CD

SERVICE TYPE 5- LEFT TURN PHASE WARRANT ANALYSIS

Task 5A - Left Turn Phase Warrant Analysis

The Left Turn Phase Warrant Analysis is the study used to evaluate a location for a possible protected left turn signal phase at an existing signalized intersection. Although the Manual on Uniform Traffic Control Devices (2009, MUTCD) provides no left turn phasing warrants, the Traffic Control Devices Handbook (Section 4C-1) offers suggested guidelines for separate left turn phasing. As an absolute minimum, the Left Turn Phase Warrant Analysis will include the following activities.

Subtask 5A (a) Delay Study

An Intersection Delay Study shall be conducted to include two (2) approaches (one lane group/one movement per approach). The study will include a total of four (4) hours, two (2) hours each for the morning and afternoon peak periods, unless otherwise specified by the Department's Project Manager. This study shall be performed in accordance with the MUTS or other method approved by the Department's Project Manager. The study will provide measures of delays for the left turn vehicle movements only. If the vehicle delay cannot be measured for the left turn movements (i.e. when no exclusive left turn lane provided) then delay for the whole approach shall be collected.

Subtask 5A (a) Products

- i) Delay Study
- ii) Technician's worksheets

Subtask 5A (b) Intersection Inventory

The Consultant shall conduct a field inventory of the intersection under study and prepare a detailed condition diagram on standard Department form contained in the MUTS or in another format approved by the Department. Condition diagrams should be created using CADD (DGN format) and shall include intersection geometry, lane use/arrangements, and identification of all traffic control devices including pedestrian features, and other roadway or roadside elements that contribute to the quality of intersection operation or safety such as bus stops, school zones, sight distance obstructions, etc. within 300 feet.

Subtask 5A (b) Product

- i) Condition Diagram

Subtask 5A (c) Crash Analysis

The consultant shall analyze the crash data, collision diagrams and identify abnormal crash characteristics or patterns. The Consultant will develop a list of possible causes and countermeasures for each abnormal crash pattern. These causes must be site specific, identified during field review of the location under study. The Consultant's engineer will quantify the abnormal crash history whenever possible using scientifically based methods such as expected value analysis, safety ratio, confidence level, statewide crash rates, or other statistical method.

Subtask 5A (c) Products

- i) Crash analysis (include crash summary sheets & collision diagrams)
- ii) Abnormal crash characteristics/patterns
- iii) Possible crash causes and countermeasures for each abnormal pattern

Subtask 5A (d) Level of Service Analysis

Using methodology based on the 2010 HIGHWAY CAPACITY MANUAL (HCM 2010), the Consultant shall determine the existing level of service for the morning and afternoon peak periods. If a left turn phase is warranted or recommended then the Consultant shall determine the level of service with the proposed phasing and timing. If a left turn phase is not warranted nor recommended then the Consultant shall optimize the existing phasing and timing in order to improve the operation of the intersection.

Subtask 5A (d) Products

- i) Level of Service for existing conditions
- ii) Level of Service for optimized existing conditions
- iii) Level of Service of proposed conditions
- iv) Summary of proposed recommendations

Subtask 5A (e) Report

The products of previous subtasks within this study shall be analyzed collectively. The consultant shall then perform a left turn phase warrant analysis. All appropriate recommendations shall be included in the report.

Subtask 5A (e) Products

- i) Three (3) draft copies and three (3) final copies signed and

- sealed of left turn phase warrant analysis report
- ii) PDF format report on a CD

SERVICE TYPE 6 - SUPPLEMENTAL TASKS

Task 6 - Supplemental Tasks

The activities outlined below as subtasks can be performed as supplements to and in support of the Qualitative Assessment, Signal Warrant Analysis, Intersection Analysis, Arterial Analysis, and/or Left Turn Phase Warrant Analysis. These supplemental tasks may alternatively be required to be performed separately or together to form a specialized or composite study, thus enabling the Department to utilize the services of the Consultant in solving a variety of traffic safety and operational problems.

Subtask 6A (a) 72-Hour Traffic Counts

The Consultant shall collect hourly traffic count data broken down into 15-minute increments on each approach to the intersection of a minimum period of 72 hours during typical weekday traffic conditions. Automatic devices furnished by the Consultant shall record count data.

Subtask 6A (a) Product

- i) 72-hour Volumes (per intersection)

Subtask 6A (b) 7 Day Traffic Counts

The Consultant shall collect hourly traffic count data broken down into 15-minute increments on each approach to the intersection for a period of seven (7) days. Automatic devices furnished by the Consultant shall record count data.

Subtask 6A (b) Product

- i) 7 Day Volumes (per intersection)

Subtask 6A (c₁) Turning Movement Counts

The Consultant shall perform four (4) hour turning movement counts for all approaches as directed by the Department's Project Manager. Fifteen minute turning movement volumes (to include trucks, but tabulated separately) and pedestrian volume shall be taken during the same four (4) hours, two (2) hours each for the morning and afternoon peak periods or as specified by the Department's Project Manager.

Subtask 6A (c₁) Products

- i) Four (4) hours turning movement volumes (per intersection)
- ii) Four (4) hours pedestrian volumes (per intersection)

Subtask 6A (c₂) 6-Hour Turning Movement Counts

The Consultant shall perform six hour turning movement counts for all approaches as directed by the DPM. Fifteen minute turning movement counts (to include trucks, but tabulated separately) and pedestrian counts shall be taken during the same six hours, for each peak period or as specified by the DPM.

Subtask 6A (c₂) Products

- i. Six hour turning movement counts (per intersection).
- ii. Six hour pedestrian counts (per intersection).

Subtask 6A (c₃) 8-Hour Turning Movement Counts

The Consultant shall perform eight hour turning movement counts for all approaches as directed by the DPM. Fifteen minute turning movement counts (to include trucks, but tabulated separately) and pedestrian volume shall be taken during the same eight hours as specified by the DPM.

Subtask 6A (c₃) Products

- i. Eight-hour turning movement counts (per intersection).
- ii. Eight-hour pedestrian counts (per intersection).

Subtask 6A (d) Intersection Inventory

The Consultant shall conduct a field inventory of each intersection under study and prepare a detailed condition diagram on standard Department form contained in the MUTS or in another format approved by the Department. Condition diagrams should be created using CADD (DGN format) and shall include intersection geometry, lane use/arrangements, and identification of all traffic control devices including pedestrian features, and other roadway or roadside elements that contribute to the quality of intersection operation or safety such as bus stops, school zones, sight distance obstructions, etc. within 300 feet. It shall also include any roadway features that may be impacted by any proposed alternatives.

Subtask 6A (d) Product

- i) Condition Diagram

Subtask 6A (e) Crash Analysis

The consultant shall analyze the crash data, collision diagrams and identify abnormal crash characteristics or patterns. The Consultant will develop a list of possible causes and countermeasures for each abnormal

crash pattern. These causes must be site specific, identified during field review of the location under study. The Consultant's engineer will quantify the abnormal crash history whenever possible using scientifically based methods such as expected value analysis, safety ratio, confidence level, statewide crash rates, or other statistical method.

Subtask 6A (e) Products

- i) Crash analysis
- ii) Abnormal crash characteristics/patterns
- iii) Possible crash causes and countermeasures for each abnormal pattern

Subtask 6A (f) Travel Time and Delay Study

The Consultant shall perform standard travel time and delay studies along the subject arterial using the manual method or the computerized, both of which are demonstrated in the Manual on Uniform Traffic Studies (MUTS). The Department's Project Manager must approve other state-of-the-art techniques.

Travel time and delay studies shall be conducted in each direction of travel during the morning and evening peak traffic periods and also during a daytime off-peak period. A minimum of six (6) runs shall be made for each direction and time period. Travel time and delay studies will be conducted along a study section which for the purpose of this contract is assumed to be an urban section to be one mile in length with 4 signals or less, or a two (2) mile rural section with not more than two (2) signals. From the travel time and delay data, a speed profile shall be developed for each condition. The profiles shall be supplemented with a written analysis of the location and determination of possible causes of the measured delays and constrained running speeds.

Subtask 6A (f) Products

- i) Travel time and delay profiles
- ii) Travel time and delay analysis
- iii) Summarized data & most prominent delay location

Subtask 6A (g) Intersection Delay Study

An Intersection Delay Study shall be conducted to include two (2) approaches (one lane group/one movement per approach). The study will include a total of four (4) hours, two (2) hours each for the morning and afternoon peak periods, unless otherwise specified by the Department's Project Manager. This study shall be performed in accordance with the MUTS or other method approved by the Department's Project Manager. The study will provide some basic measures of delays, such as the average vehicle delay, presently existing at the intersection. This will cover both signalized and un-signalized

intersections.

Subtask 6A (g) Products

- i) Intersection delay study
- ii) Technician's worksheets

Subtask 6A (h) Queue Analysis

The Consultant shall collect data/measure existing queue lengths during typical weekday AM and PM peak periods at all intersection approaches. Field observations are to be compared with calculated queue using the methods outlined in Institute of Transportation Engineers (ITE) Traffic Engineering Handbook, or other method to be approved by the Department's Project Manager.

Subtask 6A (h) Products

- i) Existing queue length data
- ii) Queue length predictions for improvement alternatives
- iii) Potential improvements
- iv) Technician worksheets

Subtask 6A (i) Vehicle Gap Measurements

The Consultant shall measure the gaps between vehicles at specified locations in accordance with the MUTS and shall record and summarize the data on standard Department forms contained in MUTS.

Subtask 6A (i) Products

- i) Vehicle gap measurements
- ii) Technician's worksheets

Subtask 6A (j) Conflict Analysis

The Conflict Analysis shall be consistent with methodology as presented in the ITE Manual of Transportation Engineering Studies. The Consultant shall field observe and record all conflicts and their frequencies. Conflict types are to include but not limited to: slow vehicle, lane change, and left-turn all directions, angle, U-turn, right-turn all direction, etc. The analysis shall be both quantitative and qualitative. Due to the subjective nature of this type of analysis, the Consultant shall make efforts to ensure the use of one highly qualified traffic engineer, registered in the state of Florida (PTOE Certified Preferred) with practical/operational experience for all conflict observations. There are to be four thirty minute periods for observation and collection of data; AM period, mid-day period, PM period, and one off peak period.

Subtask 6A (j) Products

- i) Conflict summaries
- ii) Conflict diagram
- iii) Summary of significant conflicts

Subtask 6A (k) Level of Service Analysis/Optimization (Intersections)

Using a methodology based on the 2010 HIGHWAY CAPACITY MANUAL (HCM 2010), the Consultant shall determine the existing and proposed level of service for the existing conditions and the proposed improvement projects as directed by the Department. An operational analysis will be used for critical intersection(s). The results of this subtask may be included as an Appendix to the Conceptual Study Report. Additionally, the Consultant shall optimize the signal timing for existing and proposed conditions.

Subtask 6A (k) Products

- i) Level of Service for existing conditions
- ii) Level of Service for optimized existing conditions
- iii) Level of Service of proposed alternatives
- iv) Summary of proposed recommendations

Subtask 6A (l) Arterial Analysis/ Traffic Signal Optimization

Using methodology based on the 2010 HIGHWAY CAPACITY MANUAL (HCM 2010), the Consultant shall determine the roadway's existing and proposed level of service (LOS) for the existing conditions and for each of the three proposed alternatives. An operational analysis will be used for the arterial(s). For urban and suburban streets with signal spacing less than two miles, the methodology outlined in chapter 16 of the 2010 HIGHWAY CAPACITY MANUAL (HCM 2010) shall be used. For two-lane and multilane highways, the methodologies outlined in chapter 14 or 15 (whichever is applicable) of the HIGHWAY CAPACITY MANUAL (HCM) shall be used.

This analysis shall also include LOS analysis for the individual intersections within the arterial under study, (chapters 18 and 19 of the HIGHWAY CAPACITY MANUAL (HCM) for signalized and un-signalized intersections respectively).

The Consultant shall use Transyt 7F or Synchro for signal system optimization; or in the case of a diamond interchange, PASSER III. The consultant may also be required, when requested by the Department's project manager, to use the CORSIM model to evaluate the existing and the three proposed alternatives, (this task will be negotiated separately). The consultant shall analyze various traffic signal control alternatives and determine the optimal strategy using the measure of effectiveness produced by the program as a guide. Controller type, phasing, cycle length, and splits shall be determined for two periods of the day. In developing the optimum control parameters, the Consultant shall take into consideration the Metro-Dade or Monroe County system requirements (i.e. cycle length, minimum greens, etc). Optimization of the

signal operation shall be evaluated for each candidate geometric modification and each potential combination of modifications.

Subtask 6A (l) Products

- i) Analysis of effectiveness for existing and the alternatives
- ii) Optimal signal control parameters
- iii) Summary of proposed recommendations
- iv) Revised controller timing sheets
- v) CORSIM input and output file (when requested by the project manager as part of the analysis)

Subtask 6A (m) Pedestrian Group Size and Counts

The consultant shall collect pedestrian counts and group size data in accordance with the Departments Manual on Uniform Traffic Studies (MUTS) during the morning (2 hours) and evening (2 hours) peak traffic periods or other period as specified by the Department's project manager (crash peak).

Subtask 6A (m) Product

- i) Pedestrian group size and counts

Subtask 6A (n) Spot Speed Study

The Consultant will obtain speed data for both directions of traffic by means of detection and relay devices or radar or other method with approval of Departments Project Manager. The speed parameters to be determined are: 85th percentile speed, average speed, speed variance, and pace.

Subtask 6A (n) Products

- i) 85th percentile speed
- ii) Average speed
- iii) Speed variance
- iv) Pace

Subtask 6A (o) Sight Distance Study

The Consultant will measure available sight distance for one approach (stopping, passing, or intersection) and compare it with appropriate criteria (AASHTO, MUTCD, FDOT, etc.) Sight distances must be depicted graphically.

Subtask 6A (o) Products

- i) Measured sight distance

Subtask 6A (p) Highway Lighting Study

The Consultant will determine the adequacy of existing lighting systems and the need for new, additional or improved lighting systems. The Consultant will choose a lighting study technique (AASHTO Criteria, NCHRP Report No. 152 Method, Light Meter, etc.) and get the Project Manager's approval before usage.

Subtask 6A (p) Product

- i) Lighting evaluation, adequacy, and recommendation

Subtask 6A (q) Safe Curve Speed Study

The Consultant shall determine the need for maximum safe advisory speed signs and the maximum safe speed for a given curve, according to the Department's Manual of Uniform Traffic Studies (MUTS). The Consultant will record and summarize the data on standard Department forms contained in the MUTS or other equivalent forms approved by Project Manager.

Subtask 6A (q) Products

- i) Recommended advisory speed for curve
- ii) Technician worksheets

Subtask 6A (r) Collision Diagrams

The Consultant shall prepare collision diagrams for the study intersection for the last three (3) years. Collision diagrams shall be drawn using CADD (DGN format) on standard Department forms contained in the MUTS or another Department approved form. Collision diagrams for arterials will be negotiated separately.

Subtask 6A (r) Product

- i) Collision diagram

Subtask 6A (s) Crash Review

The Consultant shall review a minimum of three years of crash history of the intersection. This review includes the preparation of crash summary sheets. The crash summary shall at a minimum include the classification of crashes by type, time of day, day of the week, direction of travel, and month. Injury severity must also be documented in the summary as well as

weather and lighting condition under which the crash occurred. Consultant shall calculate the safety ratio and confidence level for the spot under study and thus determine if the location is a high crash location.

Subtask 6A (s) Product

- i) Crash summary review (include crash summary sheets)

Subtask 6A (t) Railroad Crossing Preemption Study

The purpose of this study is to investigate the need, and make recommendation, for signal pre-emption features for intersections located within 500 feet of railroad/ highway crossings. To determine if vehicle queues extend to the tracks, use queue length simulation program and verify the results by making observations in the field. The study should be conducted in accordance with the MUTCD and the Department's guidelines reflected in Topic No. 750-020-010-a.

Subtask 6A (t) Product

- i) Railroad/highway Crossing Pre-emption Study.

Subtask 6A (u) Parking Study

The purpose of this study is to investigate the safety impact of on-street parking and make recommendations for altering/ removing parking on a given segment of roadway. As part of this study, the Consultant will examine parking-related crashes; investigate the sight-restriction, if any, resulting from parking and parking occupancy rates and available alternative parking in the area.

Subtask 6A (u) Products

- i) Parking Study with Recommendations for Modification of parking, if any.

Subtask 6A (v) Intelligent Transportation Systems Studies for Safety Projects

The Consultant shall investigate the feasibility of implementing Intelligent Transportation Systems applications to address operational and safety issues at intersections or corridors. This study may include benefit cost analyses, feasibility studies of equipment installation, perceptions-reaction time evaluation, evaluation of equipment specifications.

SERVICE TYPE 7 - OTHER TRAFFIC ENGINEERING RELATED STUDIES

Task 7 - Other Traffic Engineering Studies

The consultant will be required to perform other traffic engineering related studies. When the need arises a scope of services will be developed and man-hours and fees will be negotiated separately. When requested by the Department's project manager the consultant shall submit a schedule of the tasks to be completed.

SERVICE TYPE 8 – PUBLIC INVOLVEMENT

Task 8 - Public Involvement

As part of any of the above studies, the consultant may be needed for public involvement activities. When the need arises a scope of services will be developed and man-hours and fees will be negotiated separately.

SERVICE TYPE 9 – FATAL CRASH REVIEW

Task 9A - Fatal Crash Review (Field Reviews)

The purpose of this study is to investigate and analyze the fatal crashes (for the purpose of this contract 5 fatal crashes are assumed) and their locations and make recommendations to improve the safety and operation of the locations. As part of this study, a qualified traffic engineer of the firm, experienced in the traffic engineering discipline, and registered in the state of Florida (PTOE Certified Preferred) shall study and investigate the fatal crash and its location and identify any geometric, roadside elements, fixed objects, or traffic control conditions, deficient pavement markings, necessary signage, etc. Photographs shall be taken to identify the various geometric and roadway conditions described earlier.

The Consultant must also review a minimum of three years of crash history of the intersection. This review includes the preparation of crash summary sheets. The crash summary shall at a minimum include the classification of crashes by type, time of day, and day of the week, and month. Injury severity must also be documented in the summary as well as lighting and weather conditions under which the crash occurred.

Based on the investigation of the fatal crash location and the crash review, the Consultant shall make recommendations to improve the safety and operation of the location.

Task 9A Products

- I) Fatal crash investigation report with recommendations
- II) Crash summary sheets

Task 9B - Fatal Crash Review (Office Reviews)

The purpose of this study is to investigate and analyze the fatal crash (for the purpose of this contract 10 fatal crashes are assumed) and make recommendations to improve the safety and operation of the locations. As part of this study, a qualified Traffic Engineer of the firm shall study the fatal crash report and review the photo logs provided by the Department.

The Consultant must also review a minimum of three years of crash history of the intersection. This review includes the preparation of crash summary sheets. The crash summary shall at a minimum include the classification of crashes by type, time of day, and day of the week, and month. Injury severity must also be documented in the summary as well as lighting and weather conditions under which the crash occurred.

Based on the crash review, the Consultant shall make recommendations to improve the safety and operation of the location.

Task 9B Products

- I) Fatal crash report with recommendations
- II) Crash summary sheets

SERVICE TYPE 10 – SPEED ZONE STUDY

Task 10 - Speed Zone Study

The purpose of the speed zone study is to establish speed limits along roadway corridors. The study will be conducted along a section that for the purpose of this contract is assumed for an urban section to be one mile in length, or a two (2) mile rural section. The analysis will form the basis for recommended speed limits that provide safe travel for conditions found to exist along the roadway corridor.

Subtask 10 (a) Spot Speed Study

The Consultant will obtain speed data by means of detection and relay devices or radar or other method with approval of Departments Project Manager. The spot speed study shall be conducted for a total of 3 locations. The study shall be conducted for both directions of travel. The speed parameters to be determined are: 85th percentile speed, average speed, speed variance, and pace.

Subtask 10 (a) Products

- i) 85th percentile speed

- ii) Average speed
- iii) Speed variance
- iv) Pace

Subtask 10 (b) Crash Review

The Consultant shall review a minimum of three years of crash history of the segment. This review includes the preparation of crash summary sheets and collision diagrams. The crash summary shall at a minimum include the classification of crashes by type, time of day, day of the week, direction of travel, and month. Injury severity must also be documented in the summary as well as weather and lighting condition under which the crash occurred. Consultant shall calculate the safety ratio and confidence level for the spots within the study area and for the segment and thus determine if spots/segment is high crash locations.

Subtask 10 (b) Product

- i) Collision diagrams
- ii) Crash summary review (include crash summary sheets)

Subtask 10 (c) Assessment of Geometric Conditions

The Consultant will obtain existing plans and/or proposed improvement plans from the Department. The consultant shall review the plans provided and assess the existing and/or proposed conditions and their impact on the speed limits.

Furthermore, a qualified traffic engineer of the firm, experienced in the traffic engineering discipline, and registered in the state of Florida (PTOE Certified Preferred) shall visit the location under study and observe conditions that would have an affect on the speed limits posed along the corridor. These observations should include at minimum, number of signalized intersections, number of connecting roadways and driveways, lateral clearance, pavement condition, presence of pedestrians and parking, visibility, land use, level of roadside development, and posted speed limits.

Subtask 10 (c) Product

- i) Assessment of factors affecting speed limits
- ii) Recommendation for speed limits

SERVICE TYPE 11 – TECHNICAL MEMO

Task 11 – Technical Memo

Subtask 11(a) Field Review

A qualified traffic engineer of the firm, experienced in the traffic engineering discipline, and registered in the state of Florida (PTOE Certified Preferred) shall visit the location under study during a period specified by the Department's Project Manager to make a judgment on the current level of traffic operations and safety.

The Consultant shall also examine the physical features to document evidence of high-crash conditions and observe traffic movements for high-risk maneuvers. In addition, the Consultant will review geometries and traffic control devices for deficiencies related to abnormal crash patterns, and identify potential driver expectancy problems.

Photographs shall be taken to clarify any unusual findings during the field review. For example, utility conflicts, right of way constraints, obstructions, unusual geometries, deficient pavement conditions or markings, etc. should be photographed and/or otherwise detailed as appropriate. Photos and/or detailed graphics shall be included in the memo.

Subtask 11(b) Crash Review

The Consultant shall also review a minimum of three years of crash history for the location, and note any patterns which would indicate any facility safety deficiencies. Consultant shall also calculate the confidence level for the location under study and thus determine if it is a high crash location.

Subtask 11(c) Technical Memo

The products of previous subtasks within this study shall be analyzed collectively. The consultant shall then form a technical memo, not to exceed five (5) pages. The maximum turn around time for a draft technical memo will be two (2) weeks. The memo shall recommend, in consideration of accepted traffic engineering practice and optimal project/user benefits, a recommendation for any supplemental work tasks. The memo shall contain the following:

Task 11 Products

- i) Location map/aerial photographs
- ii) Summary of field review
- iii) Photographs taken in the field (if required)
- iv) Review of crash data with confidence level analysis
- v) Analysis

vi) Conclusion/recommendations

SERVICE TYPE 12 -HIGH CRASH SITE SAFETY STUDY

The high crash site safety study is a methodology for prioritizing the review of the District-wide Intersection High Crash List based upon three years of crash data. The various highway sections are prioritized to determine the order in which each one would be studied. This is a study process which incorporates three levels of analysis. A description of each level of analysis follows:

Subtask 12 (a) District-wide High Crash List Development

The Consultant shall develop a prioritized District-wide High Crash List. The Department will provide the Consultant with a list of potential District High Crash Sites generated from its database and the total numbers of severity 4 and 5 crashes at each high crash site in the list. The consultant will then perform a "filtering" process of the potential high crash sites by removing those locations where there is a pending or on-going construction and eliminating those locations that were studied in the previous year high crash list. The Department will provide the Consultant with the Work Program and the Pavement Condition Survey in order to perform this process. With the "filtered" high crash list, the consultant will group the high crash sites by section based on roadway identification number and geometric proximity. Once locations are grouped, the severity level for each section will be calculated. Then, the Consultant will rank each section based upon severity level.

Subtask 12(a) Products

i) High crash list ranked by severity index

Subtask 12(b) Level 1 High Crash Location Studies

From the approved District-wide High Crash List, the consultant will perform systematic office safety review starting with the highest section priority to determine any evidence that suggests the need for further study. The level 1 investigation consists on identifying crash patterns at the high crash locations, and formulating a probable cause for those crash patterns. Each location within a section will be investigated. In performing these safety studies, the Department will make the following data available to the Consultant: video logs, crash reports in GIS format, Miami-Dade County mapping and pertinent internal correspondence. It will be

the Consultant's responsibility to obtain access to Miami-Dade County's signal timing database via the County's password secured system. If in Monroe County, the Consultant shall obtain signal timing from the appropriate maintaining agency. The Consultant will generate a report for each highway section that is studied. This report will include the following: a description of the Highway Section that provides information relating to the study limits, type of facility, Average Annual Daily Traffic (AADT), access management classification, land use, travel lane configuration, any special traffic/roadway/geometric features and a tabulation of the individual high crash sites that comprise the Highway Section; an analysis of each high crash site which will include a description of existing roadway and traffic conditions, an aerial map of the location with a tabulation of three year crash summaries by crash type, an expected value analysis (expected value will be determined for surface and crash type), a discussion of existing and/or abnormal crash patterns and their probable causes, and a recommendation as to the need for further study. Where expected values can not be determined at a high crash site because of its configuration (i.e. expressway ramps or one-way traffic flow), an analysis of existing crash history and probable causes of significant crash patterns will still be provided. It is noted that the Consultant may request the Department approval to conduct field reviews at individual high crash sites in order to better ascertain the potential causes of abnormal or existing crash patterns.

Subtask 12 (b) Products

- i) Investigation of aerial photography, video logs, and signal Timings
- ii) Crash Analysis
- iii) Expected Value Analysis to determine abnormal crash characteristics/patterns
- iv) Possible crash causes and countermeasures for each abnormal pattern
- v) Three draft copies and three final copies signed and sealed of safety study
- vi) PDF format report on a CD

Subtask 12 (c) Level 2 Preliminary Safety Review

Level 2 high crash location investigation follows the Level 1 investigation. The level 2 analysis will verify through field reviews of the study locations and review of the hard copy police reports for level 1 crash data if the probable cause cannot be discarded as a contributory cause. In

addition, it will be formulated a probable cause of the abnormal crash pattern if it was not identified in the level 1 analysis performed in the previous level. Also an analysis of the latest crash history will be performed to evaluate the crash trends.

Subtask 12 (c) Products

1. Field Reviews: Perform a one hour field review of each of the study locations in order to identify any operational or geometric conditions that may be contributory to the abnormal crash pattern.

Sub-Tasks/Deliverables

Field review observations

2. Review of Hard Copy Police Reports: Review hard copy police reports of the abnormal crash pattern to determine if any roadway conditions were contributory to the abnormal crash pattern. Formulate probable cause for the abnormal crash pattern if it was not identified in the Level 1 Study.

Sub-Tasks/Deliverables

Identify probable cause

Verify probable cause

3. Develop Recommendations: Develop recommendations for level 3 study or document that additional study is not needed based on the analysis performed.

Sub-Tasks/Deliverables

Recommendations

4. Review Skid Numbers: Review the latest report from the Skid Hazard Reporting System to determine if low skid numbers are a contributory cause of the abnormal crash pattern.

5. Collision Diagrams: This task will be performed according to the scope of services for task 6A(r).

6. Report: Document the analysis and recommendations in report format for each section. Provide three draft reports and three signed and sealed final reports per study section.

Please note that any tasks not described in this scope of services will be negotiated as part of the final submittal.

Subtask 12 (d) Level 3 Additional Studies

Based upon the Department's approval of recommendations from the Level 2 analyses, additional studies may be performed at specific high crash sites. Such studies would be conducted in accordance with the Service Type as described in the existing District-wide Traffic Operations/Safety Studies Scope of Services (See Service Type 3).

Subtask 12 (d) Products

1. (See Service Type 3).

SERVICE TYPE 13 - TRAFFIC OPERATIONS SAFETY REVIEWS + BEFORE & AFTER STUDIES

The objective of these studies is to provide the Department with professional services for conducting needed Rehabilitation, Resurfacing and Reconstruction (3R) safety reviews, as well as, before and after safety studies. The safety review's result, safety review memorandums produced by the Consultant, will provide valuable input for the projects for which they are required. Meanwhile, the before and after safety studies will be used to track the effectiveness of previously implemented safety improvements. A description of each type of study follows:

Subtask (a) Study Type 1-3R Safety Review

The purpose of this study is to identify traffic safety concerns and recommend countermeasures for locations that will be subject to a 3R project. These recommendations will be used in the preparation of the plans packages documents. Established unit price per 3R safety review shall be considered full compensation for all tasks required to perform it. The Department's Safety Project Manager shall have the final say on the expected content of the completed 3R safety review. All recommendations must meet current FDOT Standards and specifications, the guidelines contained in the FDOT Plans Preparation Manual (latest edition), and the Florida's Design Standards for Resurfacing, Restoration, and Rehabilitation.

1.1 Basis of Measurement

For the Purpose of this contract, a location shall be considered any length over which a design project will take place. Fees shall be broken down

according to the following: length (1.5 miles or less, greater than 1.5 miles), number of signalized intersections (5 intersections or fewer on urban settings, and 6 or more in urban settings; 2 or less in rural settings, and 3 or more in rural settings), and the distance of the subject location with respect to the Department's Headquarters.

1.2 Period of Performance

The normal period of performance allowed for completion of a safety review shall be three (3) weeks. Each additional project location in a work order shall add 3 days to the allowed performance period. The Department's Project Manager may allow additional time beyond the normal period as other conditions may warrant.

1.3 Scope of Work

This section specifies the work to be performed by the Consultant, the responsibilities of the Consultant, and those of the Department, as well as, the work task products to be developed by the Consultant, and delivered to the Department.

Item 1 – Department's Design Project Manager Coordination

The Consultant shall be responsible for coordinating all aspects of the safety review with the concerning Department's Design Project Manager. The Consultant responsibilities include obtaining detailed information regarding the scope of the project, its limits, and providing additional safety information to the Design Project Manager when requested. The Consultant shall also coordinate with the Design Project Manager to attend meetings regarding the project where safety issues are expected to be discussed; the consultant shall take notes and address any concerns presented during the meetings. The consultant shall be responsible for producing a brief "meeting notes" report and submit it to the Department's Project Manager.

Item 1 Products:

- i) Minutes Report.

Item 2 – Data analysis

The Consultant shall be responsible of gathering and analyzing all data deemed necessary for the performance of the Safety Review. The data to be reviewed shall include, but is not limited to, the Department's Segment and Spot High Crash Lists, the summary of the latest 3 years of available crash data, individual crash report for fatal crashes occurring during the same 3 year review period, and the scope of work for the project. Additional items, that may be required as part of the data analysis, might include the preparation of collision diagrams, and the review of individual crash reports, etc.

Item 2 Products:

- i) Tables/ Figures summarizing the analysis

Item 3 – Location Safety Assessment

The Consultant shall be responsible for field reviewing the project location and identifying safety concerns associated with geometric alignment, roadway condition, sight distance, peak hour driver behavior, traffic signals, signing and marking, other traffic control devices and pedestrian, bicycle safety concerns. The consultant shall also report any fixed object located within the control zone.

Item 3 Products:

- i) Field Notes

Item 4 – Potential Improvements

The Consultant shall be responsible for producing recommendations that will address each one of the identified safety concerns. All recommendations must meet current FDOT Standards and specifications with the guidelines contained in the FDOT Plans Preparation Manual (latest edition) and the Florida's Design Standards for Resurfacing Restoration and Rehabilitation. The Consultant shall be responsible for discussing all recommendations with the Design Project Manager before submission of the Final Memorandum to the Department's Project Manager.

Item 4 Products:

- i) Potential Improvements

Item 5 – Preparation and Submission of Memo First Draft Report:

Subsequent to completion of Items 1, 2, 3, and 4, the Consultant shall prepare a draft memo. Two draft copies shall be submitted to the Department for review. The memo shall include, as a minimum, the following information:

- a) The section number, state road number, its beginning and ending mile post, the project's financial ID, and the Design Project Manager's name.
- b) Crash data in table format approved by the Department Project Manager of the latest three (3) years available. The table shall include, among other information, crashes by type of weather and lighting condition, average daily traffic, and total number of fatal crashes. The consultant shall review, in detail, each fatal crash, and provide recommendations to potentially avoid/prevent similar events. A sample table will be provided by the Department.
- c) Identification of safety concerns associated with geometric alignment, roadway condition, sight distance, traffic signals, signing and marking, and other traffic control devices.
- d) A set of recommendations targeting each one of the identified safety concerns. These recommendations must be implemented through the scope of the 3R project, and must meet current FDOT standards and specifications. They must also be in agreement with the guidelines contained in the FDOT Plans Preparation Manual (latest edition) and the Florida's Design Standards for Resurfacing, Restoration and Rehabilitation.

Final Memo:

Following the draft report, and only after having addressed any comments that might have emerged from any of the interested parties, the consultant shall prepare a Final Memorandum. A PDF electronic file shall be submitted to the Department's Project Manager. The Final PDF file shall be submitted to the satisfaction of the Department's Project Manager.

Item 5 Products:

- i) Three Draft Reports
- ii) Three copies of Final Report signed and sealed.
- iii) PDF format report on a CD.

Item 6 – Scope Meeting

The Consultant shall be responsible for attending scope meetings concerning the 3R project in representation of the Department's Safety Program Manager. The consultant shall provide input regarding safety concerns and improvements, and take notes regarding safety related issues discussed at the meeting. The notes taken by the Consultant shall be submitted to the Department Project Manager within five (5) business days.

Item 6 Products:

- i) Meeting Notes

Item 7 – Maintenance of the Department's Safety Review Tracking Database

The Consultant shall be responsible for updating and maintaining the Department's schedule (currently kept in Primavera software) used for tracking the design projects for which a safety review will be needed. The Consultant shall be responsible for prioritizing the safety review per the Primavera scheduling system. This list shall be submitted to the Department's Project Manager, who will issue a work order(s) to perform the necessary work. The Primavera schedule includes, among other things, information regarding the percentage completion of the safety review, forecasted start, actual start, forecasted finish, and actual finish date for the safety review. The consultant will be responsible for updating and maintaining the safety review activities only. The Consultant shall be responsible for updating and maintaining a Safety Review Database. As a minimum the following fields must be included and maintained in the database regarding each Safety Review: FM number, Date Requested to Consultant, State Road, State Section, Status, Beginning Mile Post (BMP), Ending Mile Post (EMP) Description, FDOT Project Manager, Year Completed, Consultant, Comments, Draft / Final. Any additional fields the consultant believes will assist in tracking the work performed, consultant's performance, and ongoing safety reviews might be added upon approval by the Department Project Manager. For the purposes of this database the consultant is required to use software under license agreement with the Department, this will allow the Department use of the Database even after the services provided by the consultant have ended.

Item 7 Products:

- i) Update Database

Subtask (b) Study Type 2-Before and After Safety Studies

The objective of these studies is to evaluate the effectiveness of implemented safety improvements at specific locations. The findings from these studies will allow the Department Project Manager to track the performance of previously implemented safety improvements; it will also provide guidance in the selection of safety improvements for future safety projects. The Consultant shall be responsible for analyzing geometric conditions after implementation of improvements.

2.1 Basis of Measurement

For the purpose of this contract, a location shall be considered any length over which the implementation of the safety improvement(s) under study took place. Fees shall be broken down according to the following factors: number of signalized intersections, median openings, and distance from headquarters.

2.2 Period of performance

The normal period of performance allowed for completion of a Before & After Safety Study shall be three (3) weeks. Each additional location in a work order shall add two (2) weeks to the allowed performance period. The Department's Project Manager may allow additional time beyond the normal period as other conditions may warrant.

2.3 Scope of Work

This section specifies the work to be performed by the Consultant, the responsibilities of the Consultant, and those of the Department, as well as, the work products to be developed by the Consultant, and delivered to the Department.

Item 1 – Geometric Analysis

The Consultant shall be responsible for analyzing geometric conditions

after the improvements under study took place.

Item 2 – Crash Analysis

The Consultant shall be responsible for preparing collision diagrams for the after conditions, and analyzing crash data of the before and after improvements. Three (3) years of crash data before and three (3) years after the improvements took place shall constitute the minimum period of analysis to be used in Before & After studies. Under exceptional conditions, the Department Project Manager shall allow for the elaboration of a Before & After studies covering shorter periods of time. The period of time during which the improvements were being implemented shall not be included in the crash data analysis. The Consultant shall be responsible for identifying and analyzing crash patterns, if any. Crash pattern recognition shall not be limited to those likely caused by geometric conditions; it shall also include those occurring periodically over time i.e. seasonal, nighttime, weekend crashes, etc.

Item 2 Products:

- i) Collision Diagrams
- ii) Crash Analysis
- iii) Abnormal Crash Patterns

Item 3 – Before & After Safety Analysis

The consultant shall be responsible for analyzing the effectiveness of the implemented safety improvements in reducing the targeted crash pattern, as well as, the impact those improvements had in other type of crashes. The consultant shall prepare a Benefit Cost analysis for the After conditions and compare it with that included in the project which recommended the implemented improvements.

Item 3 Products:

- i) Prepare a B/C Analysis Comparison Report.

Item 4 – Before & After Operational Analysis

The consultant shall analyze the impact the implemented improvements had in the operation of the transportation facility. To this end, the consultant is free to select any traffic analysis/simulation software that might provide a sound analysis of the facility under study.

Item 4 Products:

- i) Prepare an Operational Analysis Report.

Item 5 – Preparation and Submission of Report

First Draft Report: Subsequent to completion of tasks 1, 2, 3 and 4, the consultant shall prepare a draft report. Two paper copies of the draft report along with its respective PDF electronic file shall be submitted to the Department's Project Manager for review. The report shall as a minimum include the following information:

- a) State Section number, State Road number, beginning and ending mile post.
- b) Geometric analysis for the before and after conditions. Schematic diagrams of the before and after conditions shall be included as part of this section. Should pictures for the Before conditions exist, they shall be included and compared with similar pictures for the After conditions.
- c) Crash data analysis for the specified period. Collision diagrams, one per year, or as otherwise requested by the Department's Project Manager shall be included as part of this section.
- d) Before & After Safety Analysis.
- e) Before and After Operational analysis. The software output shall be included as part of this section.
- f) Conclusions

Final Report: only after having successfully addressed any comments that might have emerged from the first draft to the satisfaction of the Department's project Manager, the Consultant shall submit three signed and sealed copies of the Final report, along with its respective PDF electronic file.

Item 5 Products:

- i) Three copies of Draft Report.
- ii) Three copies of Final Report, signed and sealed
- iii) PDF format report on a CD.

Subtask (c) Study type 3.-Miscellaneous/Other Services

Any items or tasks that are not outlined in the above study types would be considered additional services and would be provided as requested and authorized by the department.

The fee for any of these services will be negotiated separately, but will be

at the hourly rates agreed to in the contract.

Subtask (d) General Requirements

4.1. Department Responsibilities

The Department will furnish the following:

- a) Copy of the before study
- b) Three (3) years of after crash data.

4.2 Issuance of Work Orders

Authorization to perform study type shall be conveyed to the Consultant through a written work order. The work order shall specify the type of studies to be conducted, the limits of each location, the pre-established unit price for the location and the date on which study reports are to be submitted to the Department. Each work order issued by the Traffic Operations' Project Manager shall serve as formal notice to proceed, and it will be effective on the date of execution or on a subsequent date, if specified.

SERVICE TYPE 14 – ENGINEERING SUPPORT STAFF

The Consultant should provide technical/engineering staff to the Department capable of assisting in the performance of a diverse range of Traffic Safety/Operations Studies and other important work assignments as may be determined by the Department Project Manager (DPM) during the period of the Letter of Authorization. The Consultant might be required to assign a full-time staff person(s) to work under the direct management and supervision of the DPM, which shall be based in the District Six Traffic Operations Office. Working hours for the assigned staff person(s) shall be under the Department's normal working hours unless modified by the DPM and approved by the Consultant's Project Manager.

EXHIBIT "B"

METHOD OF COMPENSATION

1.0 PURPOSE

This exhibit defines the method and limits of compensation to be made to the Consultant for the services described in Exhibit "A", Scope of Services, and the method by which payments will be made.

2.0 COMPENSATION

For satisfactory completion of services authorized under this Agreement, the Department will pay the Consultant a Total Maximum Limiting Amount not to exceed **\$1,500,000.00**. This is a Districtwide miscellaneous task assignment type agreement. The Department will furnish the Consultant a task work order specifying the services to be performed and the fees to be paid for each project assigned under this agreement. Total contract fees for this Agreement are subject to applicable contract limits established in Rule Chapter 14-75, Florida Administrative Code. The Department will confirm funds availability prior to issuing a task work order to the Consultant.

The Department shall request Consultant services on an as-needed basis. There is no guarantee that any or all the services described in Exhibit "A" of this Agreement will be assigned during the term of this Agreement. Further, the Consultant is providing these services on a non-exclusive basis. The Department may, at its option, elect to have any of the services set forth herein performed by other consultants or Department staff.

The total amount of this agreement is expected to be funded by multiple appropriations. The State of Florida's performance and obligation to pay under this contract is contingent upon appropriation by the Legislature. Currently **\$300,000.00** of the total amount has been approved. Therefore, it is agreed that the Consultant will not be obligated to perform services nor incur costs which would result in exceeding the funding currently approved, nor will the Department be obligated to reimburse the Consultant for costs or make fee payments in excess of currently established funding. The Department will provide written authorization if and when subsequent appropriations are approved and encumbered for this contract, or when funding authorization decreases occur.

At the Department's option, additional financial project numbers and associated funding may be added and authorized by task work order execution contingent upon legislative appropriation and budget approval and subject to contractual limits.

It shall be the responsibility of the CONSULTANT to ensure at all times that sufficient funding remains within the amount established for each assignment to complete authorized services. Changes to the amounts established for each work order shall require an amendment to the work order.

The following firms are each subject to a contract fee limit up to but less than \$500,000 for the term of the Agreement: **Hagen Consulting Services, LLC**. This contract fee limitation may be removed at such time as the subconsultant firm submits an FDOT approved overhead audit performed by an independent CPA.

2.1 Summary of Compensation

Fees for each task work order will be negotiated either as a lump sum amount (fixed price), a limiting amount (cost reimbursement), or as a combination lump sum and limiting amount. Where lump sum amounts are established, fees will be negotiated in accordance with Section 2.2. Where limiting amount fees are established, compensation will be in accordance with Section 2.2. Compensation for direct expense costs may be included in task work order fees, in accordance with Section 2.2.

This Agreement does not involve the purchase of Tangible Personal Property, as defined in Section 273.02 Florida Statutes.

2.2 Details of Compensation

Lump Sum Elements

For task work order compensation elements established as lump sum, the Department may compensate the Consultant in accordance with one or more of the following methods of payment:

LS1- At Completion of Task

(LS-1) The Consultant will receive payment upon completion and acceptance by the Department of the subject task required under this agreement.

LS-2- % of Completion of Services

(LS-2) The Consultant will receive progress payments for services based on the percentage of services that have been completed and accepted by the Department during the billing period.

LS-6- Defined Unit Amount per Invoice, Balance at End

(LS-6) The Consultant will receive progress payments for services at the defined unit rate provided in Table 6. Any balance remaining upon completion and approval of services will be due at that time.

Limiting Amount/Cost Reimbursable Elements

For task work order compensation elements established as limiting amounts, the Department will compensate the Consultant, subject to the total established limiting amount, for all reasonable, allocable and allowable costs incurred in the categories defined below. The reasonableness, allocability and allowability of compensation sought under this agreement is expressly made subject to the terms of this Agreement; Federal Acquisition Regulations; Office of Management and Budget Circulars A-21, A-87, A-102, A-110; and any pertinent Federal and State Law.

Loaded Labor Rates- (LA-4)

Subject to the established limiting amount, the Consultant will be compensated for these services based on the rates provided in Table 6 of Section 5.0. No additional multipliers will be applied to these rates. For units of work, payment for such services will be based on approved units incurred during the billing period. For labor rates, payment for such services shall be based on approved time incurred during the billing period. No additional multipliers shall be applied to these rates. The following firms loaded labor rates are inclusive of Contract Duration Adjustment Factor:

Choice Engineering Consultants, Inc.

C.H. Perez & Associates Consulting Engineers, Inc.

Florida Transportation Engineering, Inc.

Hagen Consulting Services, LLC

HBC Engineering Company

2.3 Optional Services

Optional services will not be performed unless needed. If these services are determined to be necessary by the Department, a letter of authorization will be provided to the Consultant prior to commencement of work. Fees for each Letter of Authorization will be negotiated based on the rates established in Section 5.0 Compensation Rates and will be authorized either as a lump sum amount (fixed price), a limiting amount (cost reimbursement), or as a combination lump sum and limiting amount. Where lump sum amount(s) are established, fees will be negotiated in accordance with Section 2.2. Where limiting amount fees are established, compensation will be in accordance with Section 2.2.

3.0 INVOICING PROCEDURE

The Consultant will be eligible for progress payments under this agreement at monthly intervals or when individual tasks or mileposts defined in this agreement are completed or reached.

Invoices for this agreement will be prepared by the Consultant and submitted through the Department's web-enabled Consultant Invoice Transmittal System (CITS) Internet application.

The invoices will be supported by such information as may be required by Department procedures to substantiate the charges being invoiced. The Consultant will maintain for this purpose a job cost accounting system that is acceptable to the Department.

If requested by the Department, the final invoice for this agreement will be accompanied by a certified job cost summary report generated by the Consultant's accounting system. The report will include at a minimum the total number of hours and salary cost actually charged to the project, the total miscellaneous direct expense, and total sub-consultant cost charged to the project.

The Consultant will report sub-consultant payments through the Department's Equal Opportunity Compliance System (EOC) on the Internet. Failure to submit sub-consultant payment information may be cause for rejection of the invoice. For additional information on how to enter payment information into the Department's EOC system please refer to following link: <https://www.fdot.gov/equalopportunity/eoc.shtm> Within thirty days after receipt of final payment, the Consultant will report final sub-consultant payments through the Equal Opportunity Compliance System. The Consultant will pay all sub-consultants their proportionate share of payments received from the Department within thirty days of the Consultant's receipt of payment from the Department.

The Department will render a decision on the acceptability of services within **5** working days of receipt of either the services, invoice, or progress report, whichever is later. The Department reserves the right to withhold payments for work not completed, or work completed unsatisfactorily, or work that is deemed inadequate or untimely by the Department. Any payment withheld will be released and paid to the Consultant promptly when work is subsequently performed.

4.0 PROJECT CLOSEOUT

4.1 Final Audit

If requested, the Consultant will permit the Department to perform an audit of the records of the Consultant and any or all sub-consultants to support the compensation paid the Consultant. The audit will be performed as soon as practical after completion and acceptance of the contracted services. In the event funds paid to the Consultant under this Agreement are subsequently properly disallowed by the Department because of accounting errors or charges not in conformity with this Agreement, the Consultant agrees that such disallowed amounts are due to the Department upon demand. Further, the Department will have the right to deduct, from any payment due the Consultant under any other contract, any amount due the Department.

4.2 Certificate of Completion

A Certificate of Completion will be prepared for execution by both parties stating the total compensation due the Consultant, the amount previously paid, and the difference.

Upon execution of the Certificate of Completion, the Consultant will either submit a termination invoice for an amount due or refund for overpayment, provided the net difference is not zero.

5.0 COMPENSATION RATES

The following tables are provided for definition of contractual rates. Table numbers not listed are not included in this document.

Table 6 – Loaded Labor Rates

**TABLE 6
LOADED LABOR RATES**

No multipliers will be added to these rates

CONSULTANT	ITEM	UNIT	RATE
Choice Engineering Consultants, Inc.	Dade County-Task 1A_Qualitative Assessment (Intersection)	Task	\$ 9,440.71
	Dade County-Task 1B_Qualitative Assessment (Intersection)	Task	\$ 11,505.27
	Dade County-Task 2_Signal Warrant Analysis	Task	\$ 8,960.93
	Dade County-Task 3_Intersection Analysis	Task	\$ 19,375.45
	Dade County-Task 4_Arterial Analysis	Task	\$ 38,249.40
	Dade County-Task 5_Left Turn Phase Warrant Analysis	Task	\$ 9,889.34
	Dade County-Task 6A (a)_72-Hour Traffic Counts	Task	\$ 1,062.03
	Dade County-Task 6A (b)_7-Day Traffic Count	Task	\$ 1,166.11
	Dade County-Task 6A (c1)_4-Hour Turning Movement Counts	Task	\$ 933.66
	Dade County-Task 6A (c2)_6-Hour Turning Movement Counts	Task	\$ 1,236.65
	Dade County-Task 6A (c3)_8-Hour Turning Movement Counts	Task	\$ 1,539.64
	Dade County-Task 6A (d)_Intersection Invent/Condit Diagram	Task	\$ 1,456.09
	Dade County-Task 6A (e)_Crash Analysis	Task	\$ 2,352.54
	Dade County-Task 6A (f)_Travel Time Delay Study	Task	\$ 724.47
	Dade County-Task 6A (g)_Intersection Delay Study (4hrs)	Task	\$ 838.08
	Dade County-Task 6A (h)_Queue Analysis	Task	\$ 768.95
	Dade County-Task 6A (i)_Vehicle Gap Measurements	Task	\$ 767.24
	Dade County-Task 6A (j)_Conflict Analysis	Task	\$ 2,243.39
	Dade County-Task 6A (k)_Lvl of Service Analysis/Optimization	Task	\$ 1,399.99
	Dade County-Task 6A (l)_Arterial Analysis/Traff Sign Optimiz	Task	\$ 2,553.82
	Dade County-Task 6A (m)_Pedestrian Group Size and Counts	Task	\$ 622.36
	Dade County-Task 6A (n)_Spot Speed Study	Task	\$ 773.85
	Dade County-Task 6A (o)_Sight Distance Study	Task	\$ 2,195.35
	Dade County-Task 6A (q)_Safe Curve Speed Study	Task	\$ 773.85
	Dade County-Task 6A (r)_Collision Diagrams	Task	\$ 1,028.03
	Dade County-Task 6A (s)_Crash Review	Task	\$ 1,060.89
	Dade County-Task 10_Speed Zone Study	Task	\$ 5,756.54
	Dade County-Task 11_Technical Memo	Task	\$ 3,400.24
	Designer Home	HOUR	\$ 126.22
	Engineer 1 Home	HOUR	\$ 199.93
	Engineer 2 Home	HOUR	\$ 263.63
	Engineering Intern Home	HOUR	\$ 125.07
	Engineering Technician Home	HOUR	\$ 88.96
	Project Manager 2 Home	HOUR	\$ 190.61
	Project Manager 3 Home	HOUR	\$ 263.63
	Senior Designer Home	HOUR	\$ 149.09
	Senior Engineer 1 Home	HOUR	\$ 225.26
	Monroe County-Task 1A_Qualitative Assessment (Intersection)	Task	\$ 11,146.35
	Monroe County-Task 1B_Qualitative Assessment (Arterial)	Task	\$ 14,178.87
	Monroe County-Task 2_Signal Warrant Analysis	Task	\$ 9,760.65
	Monroe County-Task 3_Intersection Analysis	Task	\$ 21,179.83
	Monroe County-Task 4_Arterial Analysis	Task	\$ 41,951.72
	Monroe County-Task 5_Left Turn Phase Warrant Analysis	Task	\$ 11,400.64
	Monroe County-Task 6A (a)_72-Hour Traffic Counts	Task	\$ 1,357.36
	Monroe County-Task 6A (b)_7-Day Traffic Count	Task	\$ 1,458.25
	Monroe County-Task 6A (c2)_6-Hour Turning Movement Counts	Task	\$ 1,567.01
	Monroe County-Task 6A (c3)_8-Hour Turning Movement Counts	Task	\$ 1,870.00
	Monroe County-Task 6A (d)_Intersection Invent/Condit Diagram	Task	\$ 1,767.60
Monroe County-Task 6A (e)_Crash Analysis	Task	\$ 2,097.74	
Monroe County-Task 6A (f)_Travel Time Delay Study	Task	\$ 1,054.83	
Monroe County-Task 6A (g)_Intersection Delay Study (4hrs)	Task	\$ 1,168.44	
Monroe County-Task 6A (h)_Queue Analysis	Task	\$ 1,099.31	

Choice Engineering Consultants, Inc.	Monroe County-Task 6A (i) Vehicle Gap Measurements	Task	\$ 1,103.97
	Monroe County-Task 6A (j) Conflict Analysis	Task	\$ 3,124.47
	Monroe County-Task 6A (k) Lvl of Service Analysis/Optimiz	Task	\$ 1,272.59
	Monroe County-Task 6A (l) Arterial Analysis/Traf Sign Optimi	Task	\$ 2,362.72
	Monroe County-Task 6A (m) Pedestrian Group Size and Counts	Task	\$ 959.09
	Monroe County-Task 6A (n) Spot Speed Study	Task	\$ 1,110.58
	Monroe County-Task 6A (o) Sight Distance Study	Task	\$ 2,306.30
	Monroe County-Task 6A (q) Safe Curve Speed Study	Task	\$ 1,110.58
	Monroe County-Task 6A (r) Collision Diagrams	Task	\$ 964.33
	Monroe County-Task 6A (s) Crash Review	Task	\$ 933.49
	Monroe County-Task 6A (c1) 4-Hour Turning Movement Counts	Task	\$ 1,264.02
	Monroe County-Task 10 Speed Zone Study	Task	\$ 6,665.10
	Monroe County-Task 11 Technical Memo	Task	\$ 4,162.68
C.H. Perez & Associates Consulting Engineers, Inc.	Engineer 1 Home	HOUR	\$ 129.07
	Engineering Technician Home	HOUR	\$ 69.50
	Project Manager 2 Home	HOUR	\$ 184.38
	Senior Engineer 1 Home	HOUR	\$ 182.96
	Senior Engineering Technician Home	HOUR	\$ 82.26
Florida Transportation Engineering, Inc.	Chief Engineer 1 Home	HOUR	\$ 211.10
	Engineer 1 Home	HOUR	\$ 143.76
	Engineering Intern Home	HOUR	\$ 127.71
	Secretary/Clerical Home	HOUR	\$ 72.12
	Senior Engineer 1 Home	HOUR	\$ 205.78
	Senior Engineering Technician Home	HOUR	\$ 73.46
	Transportation Data Analyst Home	HOUR	\$ 186.05
Hagen Consulting Services, LLC	Senior Engineer 2 Home	HOUR	\$ 248.03
HBC Engineering Company	Senior Engineer 2 Home	HOUR	\$ 318.89
	Transportation Data Analyst Home	HOUR	\$ 173.89
	Transportation Data Technician Home	HOUR	\$ 146.06

2022 FLORIDA PROFIT CORPORATION ANNUAL REPORT

DOCUMENT# P15000022359

Entity Name: CHOICE ENGINEERING CONSULTANTS, INC.

Current Principal Place of Business:

12855 SW 132ND STREET
200
MIAMI, FL 33186

Current Mailing Address:

12855 SW 132ND STREET
200
MIAMI, FL 33186 US

FEI Number: 47-3395906

Certificate of Status Desired: Yes

Name and Address of Current Registered Agent:

FRANCIS, CARLOS
8960 SW 120TH STREET
MIAMI, FL 33176 US

The above named entity submits this statement for the purpose of changing its registered office or registered agent, or both, in the State of Florida.

SIGNATURE: _____

Electronic Signature of Registered Agent

Date

Officer/Director Detail :

Title	P	Title	VP
Name	FRANCIS, CARLOS	Name	AGUILAR, RAFAEL S
Address	8960 SW 120TH STREET	Address	16034 SW 44 LANE
City-State-Zip:	MIAMI FL 33176	City-State-Zip:	MIAMI FL 33185

I hereby certify that the information indicated on this report or supplemental report is true and accurate and that my electronic signature shall have the same legal effect as if made under oath; that I am an officer or director of the corporation or the receiver or trustee empowered to execute this report as required by Chapter 807, Florida Statutes; and that my name appears above, or on an attachment with all other like empowered.

SIGNATURE: CARLOS FRANCIS

PRINCIPAL

01/04/2022

Electronic Signature of Signing Officer/Director Detail

Date

