

**EXHIBIT "A"**

**CONSTRUCTION ENGINEERING AND INSPECTION**

**SCOPE OF SERVICES**

**FOR**

**INSPECTION STAFF**

**Project Description**

**Financial Project ID(s):**

**Federal Project No.:**

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**SCOPE OF SERVICES**  
**CONSTRUCTION ENGINEERING AND INSPECTION**

**1.0 PURPOSE:**

This scope of services describes and defines the Construction Engineering and Inspection (CEI) services which are required on various construction projects in District Five listed below. The services to be provided under this agreement will be provided on an as needed basis using Task Work Order issued by the Department. The Task Work Order will define the project on which the services will be provided and the date the services are authorized to begin.

**2.0 SCOPE:**

Provide services as defined in this Scope of Services, the referenced Department manuals, and procedures.

The projects for which the services are required are:

Financial Project IDs:  
Descriptions:  
County:

Other projects that may be added to this contract.

Services provided by the Consultant shall comply with Department manuals, procedures, and memorandums in effect as of the date of execution of the Agreement unless otherwise directed in writing by the Department. Such Department manuals, procedures, and memorandums are found at the State Construction Office's website.

On a single Construction Contract, it is a conflict of interest for a professional firm to receive compensation from both the Department and the Contractor either directly or indirectly.

Consultant staff will be required to travel and shall have and maintain a valid State of Florida Driver's License. The license for each consultant staff member must be submitted to the Department prior to beginning any of the services under this agreement. The license will be reviewed by the Department on an annual basis.

Consultant staff will be required to travel to construction work sites, as well as other locations to perform the duties and responsibilities under this agreement. Consultant employee's will be required to drive Department vehicles and shall sign and execute the Department's Certification of Acceptable Driving Record, Form 375-040-39. Other projects developing within the geographical area of \_\_\_\_\_ county(ies) may be added at the Department's discretion. Ensure performance of the staff assigned to the contract. Remove or discipline staff as requested by the Department to ensure a satisfactory and professionally run program.

**3.0 LENGTH OF SERVICE:**

The services for each Construction Contract shall begin upon issuance of a Task Work Order and written notification to proceed by the Department.

While no personnel shall be assigned until written notification by the Department has been issued, the Consultant shall be ready to assign personnel within two weeks of notification.

**4.0 DEFINITIONS:**

- A. Agreement: The Professional Services Agreement between the Department and the Consultant setting forth the obligations of the parties thereto, including but not limited to the performance of the work, furnishing of services, and the basis of payment.
- B. Contractor: The individual, firm, or company contracting with the Department for performance of work or furnishing of materials.
- C. Construction Contract: The written agreement between the Department and the Contractor setting forth the obligations of the parties thereto, including but not limited to the performance of the work, furnishing of labor and materials, and the basis of payment.
- D. Construction Project Manager: The Department employee assigned to manage the Construction Engineering and Inspection Contract and represent the Department during the performance of the services covered under this Agreement.
- E. Construction Training/Qualification Program (CTQP): The Department program for training and qualifying technicians in Aggregates, Asphalt, Concrete, Earthwork, and Final Estimates Administration. Program information is available at CTQP website.
- F. Consultant: The Consulting firm (if applicable) under contract to the Department for administration of Construction Engineering and Inspection services.
- G. Consultant Project Administrator: The employee assigned by the Consultant (if applicable) to be in charge of providing Construction Contract administration services for one or more Construction Projects.
- H. Consultant Senior Project Engineer: The Engineer assigned by the Consultant (if applicable) to be in charge of providing Construction Contract administration for one or more Construction Projects. This person may supervise other Consultant employees and act as the lead Engineer for the Consultant.
- I. District Construction Engineer: The administrative head of the District's Construction Offices.
- J. District Contract Compliance Manager: The administrative head of the District Contract Compliance Office.
- K. District Consultant CEI Manager: The Department employee assigned to administer the Consultant Construction Engineering and Inspection (CCEI) Program in the District.

Financial Project ID (s): xxxxxx-x-xx-xx

- L. District Director of Transportation Operations: The Director of Construction, Maintenance, Traffic Operations, Materials, and Safety.
- M. District Final Estimates Manager: The administrative head of the District Final Estimates Office.
- N. District Professional Services Administrator: The Administrative Head of the Professional Services Office.
- O. District Secretary: The Chief Executive Officer in each of the Department's eight (8) Districts.
- P. Engineer of Record: The Engineer noted on the Construction plans as the responsible person for the design and preparation of the plans.
- Q. Operations Engineer: The Engineer assigned to a particular County or area to administer Construction and Maintenance Contracts for the Department.
- R. Public Information Office: The Department's office assigned to manage the Public Information Program.
- S. Resident Compliance Specialist: The employee assigned by the Department to oversee project specific compliance functions.
- T. Resident Engineer: The Engineer assigned to a particular County or area to administer Construction Contracts for the Department.

**5.0 ITEMS TO BE FURNISHED BY THE DEPARTMENT TO THE CONSULTANT:**

- A. The Department, on an as needed basis, will furnish the following Construction Contract documents for each project. These documents may be provided in either paper or electronic format.
  - 1. Construction Plans,
  - 2. Specification Package,
  - 3. Copy of the Executed Construction Contract, and
  - 4. Utility Agency's Approved Material List (if applicable).
- B. The Department will allow connection to the FDOT Network by the Consultant through either dialup communications, authorized Virtual Private Network (VPN) or approved leased lines. Appropriate approvals must be received from the Department prior to their use.
- C. The Department will furnish and support the software packages for SiteManager.

**6.0 ITEMS FURNISHED BY THE CONSULTANT:**

**6.1 Department Documents:**

All applicable Department documents referenced herein shall be a condition of this Agreement. All Department documents, directives, procedures, and standard forms are available through the Department's Internet website. Most items can be purchased through the following address. All others can be acquired through the District Office or on-line at the Department's website.

Florida Department of Transportation  
Maps and Publication Sales  
605 Suwannee Street, MS 12  
Tallahassee, Florida 32399-0450  
Telephone No. (850) 488-9220

<http://www.dot.state.fl.us/construction/>

**6.2 Office Automation:**

Provide all software and hardware necessary to efficiently and effectively carry out the responsibilities under this Agreement.

Provide each inspection staff with a laptop computer running SiteManager application through Citrix connection using a mobile broadband connection at the jobsite.

All computer coding shall be input by Consultant personnel using equipment furnished by them.

Ownership and possession of computer equipment and related software, which is provided by the Consultant, shall remain at all times with the Consultant. The Consultant shall retain responsibility for risk of loss or damage to said equipment during performance of this Agreement. Field office equipment should be maintained and operational at all times.

Current technical specifications for office automation can be viewed at:

<http://www.dot.state.fl.us/Construction/DesignBuild/ConsultantCEI/OfficeAutomation.shtm>

**6.3 Vehicles:**

Vehicles will be equipped with appropriate safety equipment and must be able to effectively carry out requirements of this Agreement. Vehicles shall have the name and phone number of the consulting firm visibly displayed on both sides of the vehicle.

**6.4 Field Equipment:**

Supply survey, inspection, and testing equipment essential to perform services under this Agreement; such equipment includes non-consumable and non-expendable items.

Hard hats shall have the name of the consulting firm visibly displayed.

Equipment described herein and expendable materials under this Agreement will remain the property of the Consultant and shall be removed at completion of the work.

Handling of nuclear density gauges shall be in compliance with their license.

Retain responsibility for risk of loss or damage to said equipment during performance of this Agreement. Field office equipment shall be maintained and in operational condition at all times.

**6.5 Licensing for Equipment Operations:**

Obtain proper licenses for equipment and personnel operating equipment when licenses are required. The license and supporting documents shall be available for verification by the Department, upon request.

Radioactive Materials License for use of Surface Moisture Density Gauges shall be obtained through the State of Florida Department of Health.

**7.0 LIAISON RESPONSIBILITY OF THE CONSULTANT STAFF:**

The Department's Construction Project Manager or Project Engineer/Project Administrator will be in Responsible Charge and will receive inspection reports and other correspondence from assigned consultant inspection staff related to its responsibilities under this Agreement.

Submit all administrative items relating to Invoice Approval, Personnel Approval, and User IDs to the Construction Project Manager for review and approval.

**8.0 PERFORMANCE OF THE CONSULTANT:**

During the term of this Agreement the Department will review the Consultant operations to determine compliance with this Agreement. Cooperate and assist Department representatives in conducting the reviews. If deficiencies are indicated, remedial action shall be implemented immediately. Department recommendations and Consultant responses/actions are to be properly documented by the Consultant. No additional compensation shall be allowed for remedial action taken by the Consultant to correct deficiencies. Remedial actions and required response times may include but are not necessarily limited to the following:

- A. Further subdivide assigned inspection responsibilities, reassign inspection personnel, or assign additional inspection personnel.
- B. Immediately replace personnel whose performance has been determined by the Consultant and/or the Department to be inadequate.
- C. Immediately increase the frequency of monitoring and inspection activities in phases of work that are the Consultant's responsibility.
- D. Increase the scope and frequency of training of the Consultant personnel.

**9.0 REQUIREMENTS OF THE CONSULTANT:**

**9.1 General:**

It shall be the responsibility of the Consultant staff to administer, monitor, and inspect the Construction Contract such that the project is constructed in reasonable conformity with the plans, specifications, and special provisions for the Construction Contract.

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Observe the Contractor's work to determine the progress and quality of work. Identify discrepancies, report significant discrepancies to the Department, and direct the Contractor to correct such observed discrepancies.

Inform the Construction Project Manager or Project Engineer/Project Administrator assigned to the project of any significant omissions, substitutions, defects, and deficiencies noted in the work of the Contractor.

## **9.2 On-site Inspection:**

Monitor the Contractor's on-site construction activities and inspect materials entering into the work in accordance with the plans, specifications, and special provisions for the Construction Contract to determine that the projects are constructed in reasonable conformity with such documents. Maintain detailed accurate records of the Contractor's daily operations and of significant events that affect the work. The Department will monitor off-site activities and fabrication unless otherwise stipulated by this Agreement.

Monitor and inspect Contractor's Work Zone Traffic Control Plan and review modifications to the Work Zone Traffic Control Plan, including Alternate Work Zone Traffic Control Plan, in accordance with the Department's procedures. Consultant employees performing such services shall be qualified in accordance with the Department's procedures.

**EDITOR'S COMMENT: Delete the following paragraph for construction contracts that do not require the construction of permanently submerged structural members.**

Perform underwater bridge construction inspections of bridges with permanently submerged structural members in compliance with CPAM Section 10.6, Underwater Bridge Construction Inspection.

**EDITOR'S COMMENT: Delete the following paragraph if construction contracts do not contain provisions for Witness and Hold Point Inspections.**

Inspect the Construction Contract with Financial Project Numbers xxxxxx-x-52-xx in accordance with Article 5-9.1.1 of the Construction Contract Special Provisions as it pertains to the Witness Points and Hold Points specifications.

## **9.3 Sampling and Testing:**

Perform sampling and testing of component materials and completed work in accordance with the Construction Contract documents. The minimum sampling frequencies set out in the Department's Materials Sampling, Testing and Reporting Guide shall be met. In complying with the aforementioned guide, provide daily observation of the Contractor's Quality Control activities and perform the sampling and testing of materials and completed work items for verification and acceptance.

The Department will perform inspection and sampling of materials and components at locations remote from the project site and the Department will perform testing of materials normally done in a laboratory remote from the project site.

Determine the acceptability of all materials and completed work items on the basis of either test results or verification of a certification, certified mill analysis, DOT label, DOT stamp, etc.

The Department will monitor the effectiveness of the Consultant's testing procedures through observation and independent assurance testing.

Sampling, testing and laboratory methods shall be as required by the Department's Standard Specifications, Supplemental Specifications or as modified by the Special Provisions of the Construction Contract.

Documentation reports on sampling and testing performed by the Consultant shall be submitted during the same week that the construction work is done.

Transport samples to be tested in a Department laboratory to the appropriate laboratory or appropriate local FDOT facility.

Input verification testing information and data into the Department's database using written instructions provided by the Department.

#### **9.4 Engineering Services:**

Assist in coordinating the Construction Contract inspection activities of all parties other than the Contractor involved in completing the construction project.

Services shall include maintaining the required level of observation of Contractor activities. Maintain complete, accurate records of all activities and events relating to the project and properly document all project changes. The following services shall be performed:

- (1) Attend a pre-service meeting for the Agreement in accordance with CPAM. Provide appropriate staff to attend and participate in the pre-service meeting. At the time of this meeting submit the FDOT Computer Security Access Request for use of FDOT Data Center Facilities and access to the Department's computer systems to the Construction Project Manager for approval.
- (2) Schedule and attend a Final Estimate informational meeting with the District Construction Final Estimates Office. Provide appropriate staff to attend and participate in this meeting.
- (3) The Department will provide Public Information Services.

### **10.0 PERSONNEL:**

#### **10.1 General Requirements:**

Provide qualified personnel necessary to efficiently and effectively carry out its responsibilities under this Agreement. Method of compensation for personnel assigned to this project is outlined in Exhibit "B."

**Unless otherwise agreed to by the Department, the Department will not compensate straight overtime or premium overtime unless approved in advance of the work.**

**10.2 Personnel Qualifications:**

Provide competent personnel qualified by experience and education. Submit in writing to the Construction Project Manager the names of personnel proposed for assignment to the project, including a detailed resume for each containing at a minimum: salary, education, and experience. The Consultant Action Request form for personnel approval shall be submitted to the Construction Project Manager at least two weeks prior to the date an individual is to report to work.

Personnel identified in the Consultant technical proposal are to be assigned as proposed and are committed to performing services under this Agreement. Personnel changes will require written approval from the Department. Staff that has been removed shall be replaced by the Consultant within one week of Department notification.

Before the project begins, all project staff shall have a working knowledge of the current CPAM and must possess all the necessary qualifications/certifications for fulfilling the duties of the position they hold. Cross training of the Consultant's project staff is highly recommended to achieve a knowledgeable and versatile project inspection team but shall not be at any additional cost to the Department and should occur as workload permits. Visit the training page on the State Construction Office website for training dates.

Minimum qualifications for the Consultant personnel are set forth as follows. Exceptions to these minimum qualifications will be considered on an individual basis. The District Construction Engineer or designee will have the final approval authority on such exceptions.

***EDITOR'S COMMENT: Delete qualifications for positions that are not applicable to this Agreement.***

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**CEI PROJECT ADMINISTRATOR/PROJECT ENGINEER** - A Civil Engineering degree and registered in the State of Florida as a professional engineer (or if registered in another state, have the ability to obtain registration in Florida within six (6) months).

For CC2 bridge structures, a Civil Engineering degree and registered in the State of Florida as a professional engineer (or if registered in another state, have the ability to obtain registration in Florida within six (6) months) plus five (5) years general bridge construction experience, two (2) years of which must have been with the type of CC2 bridge construction project for which CEI services are being provided by this. Additionally, a minimum of one (1) year of experience as the Project Administrator in primary control of the type of CC2 construction project for which CEI services are being provided by this scope. As an exception, only one (1) year of PTS bridge experience will be required for registered project administrators. Post-tensioning experience is not required for precast prestressed concrete flat slab superstructures but successful completion of an FDOT accredited grouting and post-tensioning course is required. To be in primary control, a Project Administrator must have supervised two or more inspectors as well as two or more support staff (Office Manager, Compliance Officer, and Secretary) and must have been directly responsible for all CEI services assigned.

CPTS years of experience must have included a minimum of twelve (12) months experience in each of the following areas: (1) casting yard operations and related surveying; (2) segment erection and related surveying, post-tensioning (PT) of tendons and grouting of prestressing steel.

CPTCB years of experience must include monitoring of the following: girder erection, safe use of girder erection cranes, stabilization of girders after erection, false work for temporary girder support, and PT and grouting operations.

PTS years of experience must include monitoring of the following: installation of PT ducts and related hardware and post-tensioning and grouting of strands or be the level of experience that meets the criteria for CPTS or CPTCB bridges.

MB years of experience must have been in MB mechanical and/or electrical construction.

The project Administrator will perform Quality Assurance reviews and monitor the performance of the assigned inspectors on a quarterly basis of all project records prepared by CEI staff assigned to a project. Prepare a report of the Quality Assurance Review for approval of the Project Manager. Review should address inspector compliance with Department specifications, procedures, and accuracy of data being collected. Must have the following:

QUALIFICATIONS:

FDOT Advanced MOT

CTQP Final Estimates Level II

CERTIFICATIONS:

None

OTHER:

Attend CTQP Quality Control Manager Course and pass the examination.

Attend a FDOT accredited post-tensioning training course and pass the examination (for post-tensioned CC2 projects)

Attend a FDOT accredited grouting training course and pass the examination (for post-tensioned CC2 projects)

Complete the Critical Structures Construction Issues, Self Study Course, and submit the mandatory Certification of Course Completion form (for structures projects)

A Master's Degree in Engineering may be substituted for one (1) year of engineering experience

**CEI SENIOR INSPECTOR/-** High school graduate or equivalent plus four (4) years of experience in construction inspection, two (2) years of which shall have been in bridge and/or roadway construction inspection.

Must have the following as required by the scope of work for the project:

QUALIFICATIONS:

CTQP Concrete Field Technician Level I

CTQP Concrete Field Inspector Level II (Bridges)

CTQP Asphalt Roadway Level I

Financial Project ID (s): xxxxxx-x-xx-xx

CTQP Asphalt Roadway Level II  
CTQP Earthwork Construction Inspection Level I  
CTQP Earthwork Construction Inspection Level II  
CTQP Pile Driving Inspection  
CTQP Drilled Shaft Inspection (required for inspection of all drilled shafts including miscellaneous structures such as sign structures, lighting structures, and traffic signal structures)  
CTQP Grouting Technician Level I  
CTQP Post-Tensioning Technician Level I  
IMSA Traffic Signal Technician Level I  
FDOT Intermediate MOT  
CTQP Final Estimates Level I

**CERTIFICATIONS:**

Nuclear Radiation Safety

**OTHER:**

Complete the Critical Structures Construction Issues, Self Study Course, and submit the mandatory Certification of Course Completion form (for structures projects).

Responsible for performing highly complex technical assignments in field surveying and construction layout, making, and checking engineering computations, inspecting construction work, and conducting field tests and is responsible for coordinating and managing the lower level inspectors. Work is performed under the general supervision of the Construction Project Manager.

**CEI INSPECTOR/ENGINEER INTERN** - High school graduate or equivalent plus two (2) years experience in construction inspection, one (1) year of which shall have been in bridge and/or roadway construction inspection, plus the following:

Must have the following as required by the scope of work of the project:

**QUALIFICATIONS:**

CTQP Concrete Field Inspector Level I  
CTQP Asphalt Roadway Level I  
CTQP Earthwork Construction Inspection Level I  
CTQP Pile Driving Inspection  
CTQP Drilled Shaft Inspection (required for inspection of all drilled shafts including miscellaneous structures such as sign structures, lighting structures, and traffic signal structures)  
IMSA Traffic Signal Technician Level I  
CTQP Final Estimates Level I  
FDOT Intermediate MOT

**CERTIFICATIONS:**

Nuclear Radiation Safety  
Florida Stormwater, Erosion, and Sedimentation Control Training and Certification Program for Inspectors and Contractors

**OTHER:**

Complete the Critical Structures Construction Issues, Self Study Course, and submit the mandatory Certification of Course Completion form (for structures projects).

Or a Civil Engineering degree with the ability to earn additional required qualifications within one year. (Note: Engineer Intern classification requires E.I.T. certificate.)

Responsible for performing assignments in assisting Senior Inspector in the performance of their duties. Receive general supervision from the Senior Inspector who reviews work while in progress. Civil Engineering graduates must obtain certifications within the first year of working as an inspector or Engineer Intern. Exceptions will be permitted on a case-by-case basis so long as qualifications and certifications are appropriate for specific inspection duties.

**CEI INSPECTORS AIDE** - High School graduate or equivalent and able to perform basic mathematical calculation and follow simple technical instructions. Duties are to assist higher-level inspectors. Must obtain FDOT Intermediate MOT within the first six months of the assignment.

### **10.3 Staffing:**

Once authorized, the Consultant shall provide appropriate staffing as authorized throughout the duration of construction and completion of the final estimate. Responsible personnel, thoroughly familiar with all aspects of construction and final measurements of the various pay items, shall be available to resolve disputed final pay quantities until the Department has received a regular acceptance letter.

Construction inspection forces will be required of the Consultant while the Contractor is working, subject to the oversight of the Consultant Engineer assigned responsibility for Quality Assurance reviews as described above.

## **11.0 AGREEMENT MANAGEMENT:**

### **11.1 General:**

- (1) With each monthly invoice submittal, the Consultant Engineer (CEI Project Administrator) will provide a Status Report for the Agreement. This report will provide the Consultant Engineer's accounting of the additional Agreement calendar days allowed to date, an estimate of the additional calendar days anticipated to be added to the original schedule time, an estimate of the Agreement completion date, and an estimate of the Consultant funds expiration date per the Agreement schedule for the prime Consultant and for each subconsultant. The Consultant Engineer will provide a printout from the Equal Opportunity Reporting System showing the previous month's payments made to subconsultants. Invoices not including this required information may be rejected.
- (2) When the Consultant Engineer identifies a condition that will require an amendment to the Agreement, the Consultant Engineer will communicate this need to the Construction Project Manager for acceptance. Upon acceptance, prepare and submit an Amendment Request (AR), and all accompanying documentation to the Construction Project Manager for approval and further

Financial Project ID (s): xxxxxx-x-xx-xx

processing. The AR is to be submitted at such time to allow the Department 12 weeks to process, approve, and execute the AR. The content and format of the AR and accompanying documentation shall be in accordance with the instructions and format to be provided by the Department.

- (3) The Consultant Engineer is responsible for performing follow-up activities to determine the status of each Amendment Request submitted to the Department.

#### **11.2 Invoicing Instructions:**

Monthly invoices shall be submitted to the Department in a format and distribution schedule defined by the Department, no later than the 20th day of the following month.

If the monthly invoice cannot be submitted on time, notify the Department prior to the due date stating the reason for the delay and the planned submittal date. Once submitted, the Consultant Project Principal or Senior Project Engineer shall notify the Construction Project Manager via e-mail of the total delay in calendar days and the reason(s) for the delay(s).

All invoices shall be submitted to the Department in electronic and hard copy formats in accordance with District Construction and Consultant Invoice Transmittal System (CITS) procedures. The Construction Project Manager must receive hard copy documentation within three (3) workdays of electronic submittal or the electronic submittal will be rejected. (Saturday, Sunday, and Department holidays are not considered workdays).

All charges to the individual project will end no later than thirty (30) calendar days following final acceptance; or where all items of work are complete and conditional/partial acceptance is issued; unless authorized in writing by the Department.

A Final Invoice will be submitted to the Department no later than the 60<sup>th</sup> day following Final Acceptance of the individual project or as requested by the Department.

#### **12.0 OTHER SERVICES:**

Upon written authorization by the District Construction Engineer or designee, the Consultant will perform additional services in connection with the project not otherwise identified in this Agreement. The following items are not included as part of this Agreement, but may be required by the Department to supplement the Consultant services under this Agreement.

- A. Provide inspection services in addition to those provided for in this Agreement.
- B. Provide services determined necessary for the successful completion and closure of the Construction Contract.

**13.0 CONTRADICTIONS:**

In the event of a contradiction between the provisions of this Scope of Services and the Consultant's proposal as made a part of their Agreement, the provisions of the Scope of Services shall apply.

**14.0 THIRD PARTY BENEFICIARY**

It is specifically agreed between the parties executing this Agreement that it is not intended by any of the provisions of any part of the Agreement to create in the public or any member thereof, a third party beneficiary hereunder, or to authorize anyone not a party to this Agreement to maintain a claim, cause of action, lien or any other damages or any relief of any kind pursuant to the terms or provisions of this Agreement.

**LIST OF PROJECT SPECIFIC POSITIONS**

\*Do not include these positions as an attachment to Scope of Services. These positions are to be pulled forth and added to Article 10.2 as needed.

**CEI ASPHALT PLANT INSPECTOR**- High School Graduate or equivalent plus one (1) year experience in the surveillance and inspection of hot mix asphalt plant operations and have the following:

**QUALIFICATIONS:**

- CTQP Asphalt Plant Level I
- CTQP Asphalt Plant Level II

**CEI BRIDGE SENIOR INSPECTOR (PAINTING/ LEAD ABATEMENT/ STRUCTURAL STEEL REPAIR):**

**CERTIFICATIONS:**

- NACE Level III Certified or BCI Level II Certified
- SSPC C-3 Lead Paint Removal
- AWS Certified Welding Inspector (CWI) familiar with ANSI/AASHTO/AWS Bridge Welding Code

**CEI BRIDGE INSPECTOR (PAINTING/ LEAD ABATEMENT/ STRUCTURAL STEEL REPAIR):**

**CERTIFICATIONS:**

- NACE Level I or BCI Level I
- SSPC C-3 Lead Paint Removal
- AWS Certified Welding Inspector (CWI) familiar with ANSI/AASHTO/AWS Bridge Welding Code

**GEOTECHNICAL TECHNICIAN for Pile Foundations**- Qualified CTQP Pile Driving Inspector, knowledgeable in pile installation in conjunction with dynamic load tests with a minimum of three (3) years of experience on at least two (2) Department bridge projects: for projects with Embedded Data Collectors (EDCs), certified EDC monitoring equipment operator.

**GEOTECHNICAL TECHNICIAN for Drilled Shaft Foundations**- Qualified CTQP Drilled Shaft Inspector, knowledgeable in drilled shaft installation with a minimum of three (3) years of experience on at least two (2) Department bridge projects.

**CEI SENIOR ITS INSPECTOR**- High School graduate or equivalent plus four (4) years of experience in construction inspection, two (2) years of which shall have been in ITS construction inspection plus the following:

**QUALIFICATIONS:**

- Fiber Installation Inspection and OTDR Fiber Testing
- DMR Operation and Testing
- Controller Operation and Testing
- CCTC Installation, Operation and Testing
- Familiarity with Existing Communication Equipment and Switches

**CERTIFICATIONS:**

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IMSA Level II

Or a Civil Engineering Degree and one (1) year of ITS CEI experience.

Responsible for performing highly complex technical assignments in fields surveying and construction layout, making and checking engineering computations, inspecting construction work and conducting field tests and is responsible for coordinating and managing the lower level inspectors. Work is performed under the general supervision of the Project Administrator.

**CEI ITS INSPECTOR**- High School Graduate or equivalent plus two (2) years of experience in construction inspection, one (1) year of which shall have been in ITS construction inspection, plus the following:

**QUALIFICATIONS:**

Fiber Installation Inspection and OTDR Fiber Testing

DMR Operation and Testing

Controller Operation and Testing

CCTC Installation, Operation and Testing

Familiarity with Existing Communication Equipment and Switches

**CERTIFICATIONS:**

None

Or a Civil Engineering Degree

Responsible for performing assignments in assisting Senior Inspector in the performance of their duties. Receive general supervision from the Senior Inspector who reviews work while in progress. Civil Engineering graduates must obtain certifications within the first year of working as an inspector or Engineer Intern. Exceptions will be permitted on a case-by-case basis so long as qualifications and certifications are appropriate for specific inspection duties.

**SYSTEMS TECHNICIAN**- High School Graduate plus five (5) years of experience in Electronic Systems and/or Traffic Engineering technician level work, detailed experience and training in the use of Otter's and other equipment related to fiber optic communication testing. Requires certification of this training or equivalent training.

**CEI LANDSCAPE INSPECTOR**- High School Graduate or equivalent plus five (5) years of commercial or roadway landscape construction experience or F.D.L.C. Certification plus two (2) years of commercial or roadway landscape construction experience or a degree in a related field plus three (3) years of commercial or roadway landscape construction experience. The individual must be skilled at plant identification, classification, and grades and standards for nursery plants as established by the manual "Grades and Standards for Nursery Plants" by the Florida Department of Agriculture and Consumer Services. The individual must be knowledgeable of current industry standards for landscape installation, including plans reading and irrigation system construction. The individual must have the ability to read and interpret contract documents. The individual will receive general supervision from the Senior Inspector who reviews work while in progress.

**PUBLIC INFORMATION OFFICER**- High School Graduate or equivalent and be knowledgeable in public information and/or advertising involving mass circulation or distribution of literature, mass advertising or other similar activities and performed such work for at least three (3) years.

**CEI SENIOR INSPECTOR BUILDING STRUCTURES**- High School Graduate plus eight (8) years of experience in construction inspection with four (4) years of experience in performing highly complex

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technical assignments in field surveying and construction layout, making and checking engineering computations, inspecting construction work and conducting fields tests. Senior Building Structures Inspector must be fully knowledgeable of all aspects of the building construction to include masonry work and familiarization with the local and State building codes and ordinances. Work is performed under the general supervision of the Project Engineer.

**CEI BUILDING INSPECTOR/ ELECTRICAL**- High School Graduate plus five (5) years experience as a qualified building inspector or general contractor. Experience shall be actual field experience as a qualified building inspector or job superintendent. Inspector must be fully knowledgeable of all local and State building codes and ordinances.

**CEI UTILITY COORDINATOR**- High School Graduate or equivalent and be knowledgeable of Department's Standards, policies, procedures, and agreements and shall have a minimum of four (4) years of experience performing utility coordination in accordance with Department's Standards, policies, procedures and agreements.