

**INVITATION FOR BIDS**

**FOR**

**SADLER ROAD & U.S. 441 INTERSECTION IMPROVEMENTS PROJECT FPID:  
441400-1-58-01 FAN: D518-087-B**

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**Mail or Hand Deliver**

**ORIGINAL BID FORM (MARKED "ORIGINAL") & THREE (3) COMPLETE COPIES**

**BY 2:00 PM – July 11, 2019**

**To:**

**BOARD OF COUNTY COMMISSIONERS  
ORANGE COUNTY, FLORIDA  
INTERNAL OPERATIONS CENTRE II  
PROCUREMENT DIVISION  
400 E. SOUTH STREET- 2<sup>nd</sup> FLOOR  
ORLANDO, FLORIDA 32801**

**Bid Opening:**

**July 11, 2019 - 2:00 PM**

**Internal Operations Centre II  
Procurement Division Conference Room, Second Floor  
Orlando, Florida 32801**

**Non - Mandatory Pre-Bid Conference – June 21, 2019 1:30 PM  
Public Works Complex, Conference Room 322  
4200 S. John Young Parkway, Orlando, FL 32839  
Interested bidders are encouraged to attend.**

**THIS INVITATION FOR BIDS (IFB) IS A FEDERALLY FUNDED PROJECT**

**NOTICE TO BIDDERS/OFFERORS**

To ensure that your bid/proposal is responsive, you are urged to request clarification or guidance on any issues involving this solicitation before submission of your response. Your point-of-contact for this solicitation is Carol Hewitt [Carol.Hewitt@ocfl.net](mailto:Carol.Hewitt@ocfl.net) or at (407) 836-5598.

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**PART B NOTICE  
INVITATION FOR BIDS NO. Y19-701-CH**

**SADLER ROAD & U.S. 441 INTERSECTION IMPROVEMENTS PROJECT FPID:  
441400-1-58-01 FAN: D518-087-B**

Sealed bid offers (Original Bid Form and three (3) complete copies) for furnishing the above will be accepted up to **2:00 PM, July 11, 2019** in the Procurement Division; Internal Operations Centre II, 400 E. South Street; 2nd Floor, Orlando, FL 32801. Bids will be opened shortly thereafter in the Procurement Division Conference Room, 2<sup>nd</sup> Floor; Internal Operations Centre II.

Bid Documents are available in the following formats:

1. Complete bid documents may be obtained from the Procurement Division, Internal Operations Centre II, 400 E. South Street, 2<sup>nd</sup> floor, Orlando, FL 32801. Phone (407) 836-5635. The documents are available for a cost of **\$15** non-refundable.
2. A printed copy of the basic solicitation documents and a CD containing the construction plans are available for a cost of **\$10** per CD non-refundable.
3. Complete bid documents **including construction plans** are now available for downloading from the internet at **orangecountyfl.net**.

A Non-Mandatory Pre-Bid Conference will be held on June 21, 2019 1:30 PM, Public Works Complex, Conference Room 322, 4200 S. John Young Parkway, Orlando, FL 32839. Interested bidders are encouraged to attend.

SCOPE OF WORK: This project includes construction of an eastbound right turn lane on Sadler Road onto southbound US 441 for a total length approximately 0.155 miles. Roadway improvements include road widening, milling and resurfacing with asphaltic concrete structural course and friction course. Type F concrete curb and gutter, type B stabilization, soil cement base, clearing and grubbing, excavation, embankment and grading, groundwater treatment and disposal, a 6-inch thick concrete driveway, 4-inch thick concrete sidewalk, sod, pipe handrail, mailbox relocation, and signing and pavement markings. Signalization work includes involving loop detector assembly and modification of traffic controller assembly.

Drainage improvements include concrete pipe culvert, mitered end sections, concrete ditch pavement, curb inlets, ditch bottom inlets, closed flume inlets, and ditch regrading.

All pedestrian features are to adhere to current ADA standards. Utility coordination is required. Coordination with will be needed with FM 437333-1 US 441 Resurfacing from Jones Avenue to Wadsworth Avenue.

**PROJECT LOCATION:** Sadler Road and US 441 Intersection, Orange County, Florida.

**THIS INVITATION FOR BIDS IS A FEDERALLY FUNDED PROJECT**

Bidders are required to be currently pre-qualified with the Florida Department of Transportation (FDOT) in at least two of the major classes of work required for this project. The documentation required to be submitted with the sealed Bids shall include qualifying documentation from FDOT for the work types shown in Part C, Section 31, titled References. Failure to submit proof of the FDOT pre-qualification for the major classes of work listed in Section 31 shall render the Bid non-responsive.

Carrie Mathes, MPA, CFCM, CPPO, C.P.M., CPPB, APP  
Manager, Procurement Division



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## PART C - INSTRUCTIONS TO BIDDERS

### 1. GENERAL:

The term County used herein refers to the Board of County Commissioners, Orange County, Florida, or its duly authorized representative. The term Bidder used herein refers to the manufacturer, dealer or business organization submitting a bid to the County in response to this Invitation for Bids.

### 2. PREPARATION AND SUBMISSION OF BIDS:

- a. Form of Proposal: Each Bidder shall submit the bid in four parts (original Bid Form, marked original, with attachments and three (3) copies of the Bid Form and all attachments) and indicate the base bid price and any alternative(s) that may be included in the proper space(s).

The estimated total base bid is the sum of all pay item totals and the County reserves the right to correct errors in pay item totals arising from incorrect extensions. See "Bid Errors", Item 5.

- b. All bids, proposals or quotations, unless otherwise specified, must be delivered in a sealed envelope, either mailed or hand carried, to the Procurement Division, Orange County Internal Operations Centre II, 400 E. South Street, 2<sup>nd</sup> Floor, Orlando, Florida 32801, prior to the bid opening time as specified in Part B. Bids received after the date and time specified will be returned unopened. The time/date stamp clock located in the Procurement Division shall serve as the official authority to determine lateness of any bids.

Respondents are cautioned that they are responsible for delivery to the specific location cited above. Therefore, if your bid, proposal or quotation is delivered by an express mail carrier or by any other means, it is your responsibility to ensure delivery to the above address. This office will not be responsible for deliveries made to any place other than the specified address.

The delivery of said bid to the Procurement Division prior to the time and date stated in Part A is solely and strictly the responsibility of the Bidder. The County shall not be responsible for delays in delivery to the Procurement Division caused by the United States Postal Service or courier service, delivery to any other County Office or delays caused by any other occurrence. The bid delivery time will be scrupulously observed. Under no circumstances will bid proposals delivered after the delivery time specified be considered.

**The decision to refuse to consider a bid or proposal that was received beyond the date/time established in the solicitation shall not be the basis for a protest pursuant to the Orange County Code (Procurement Ordinance).**

Bidders should indicate on the sealed envelope the following:

1. Invitation for Bids Number
  2. Hour and Date of Opening
  3. Name of Bidder
  4. Return Address of the Bidder
- c. Bids will be publicly opened in the Procurement Division Conference Room, 2<sup>nd</sup> Floor of the Orange County Internal Operations Centre II, 400 E. South Street; Orlando, Florida.
- d. All bid proposals must be manually and duly signed by an authorized corporate officer, principal, or partner (as applicable) with their signature in full. When a firm is a Bidder, the bid proposals shall be signed in the name of the firm by one or more of the partners. When a corporation is a Bidder, the officer signing shall set out the corporate name in full beneath which he shall sign his name, give title of his office and affix the corporate seal. Anyone signing the bid proposal as agent must file with it legal evidence of their authority to do so. Bidders who are nonresident corporations shall furnish to the County a duly certified copy of their permit to transact business in the State of Florida along with the Bid Proposal. Failure to promptly submit this evidence or qualification to do business in the State of Florida may be basis for rejection of the Bid Proposal.
- e. The Bidder is solely responsible for reading and completely understanding the requirements and the specifications of the solicitation.
- f. Bid proposals may be withdrawn by written request dispatched by the Bidder and received by the Manager of the County Procurement Division before the time for receiving bids has expired. Negligence on the part of the Bidder in preparing a bid proposal is not grounds for withdrawal or modification of a bid proposal after such bid proposal has been opened by the County. A Bidder may not withdraw or modify a bid proposal after the appointed bid proposal opening and such bid proposal must be in force for **ninety (90)** days after the bid opening. Bidders may not assign or otherwise transfer their bid proposals.
- g. At the time and place fixed for the opening of bid proposals (see above), every bid proposal properly delivered within the time fixed for receiving bid proposals will be opened and publicly read aloud, irrespective of any irregularities found therein. Bidders and other persons interested may be present, in person or by representative.
- h. A Bid, Payment and Performance Bond are a requirement of the IFB when the bid/contract amount exceeds \$100,000.

Submission of an original Bid Bond (copy not acceptable) completed and signed by all required parties and submitted on the form provided in Attachment M to the Bid Proposal (Part D), or in the alternative, a Certified Check, or a Cashier's Check shall be required to accompany each bid proposal in a stated dollar amount of not less than ten (10%) percent of the sum of the computed total amount of the Bidder's Base Bid proposal. Submittal of a Bid Bond less than 10% of the bid sum shall result in rejection of the bid. **Failure to submit the Bid Bond on the form provided in Attachment M to the Bid Proposal (Part D) shall result in rejection of the bid.**

In order to be acceptable to the County, the Surety company issuing the Bid Bond as called for in this Invitation for Bids, shall meet and comply with the minimum standards described in Part C, Section 19, "Qualifications of Surety Companies". **Failure to submit a Bid Bond from a Surety Company meeting these minimum standards shall result in rejection of the bid.**

Certified checks or cashier's checks shall be drawn on a solvent bank or trust company to the order of the Board of County Commissioners, Orange County, Florida and shall have all necessary documentary revenue stamps attached, if required by law. Personal checks are not acceptable to the County. See Section 19, "Qualifications of Surety Companies" for additional requirement.

- i. A Pre-Bid conference will be held at the time and location shown in the Notice, Part B of this Bid package.
- j. No oral interpretation of the meaning of the plans, specifications, or other Contract documents shall be considered binding. Every request for interpretation shall be in writing addressed to **Carol Hewitt, Email address: [carol.hewitt@ocfl.net](mailto:carol.hewitt@ocfl.net)**. To be given consideration, such requests must be received Ten (10) days prior to bid opening.

Any and all such interpretations and any supplemental instructions will be in the form of a written addendum which, if issued, will be available for downloading from the Internet at [orangecountyfl.net](http://orangecountyfl.net). All addenda so issued shall become part of the Contract Documents and receipt shall be acknowledged on the Bid Form, Part D or by completion of the applicable information on the addendum and returning it not later than the date and time for receipt of the bid.

- k. Before submitting bid proposals, Bidders must carefully examine the site of the proposed work and make all necessary investigations to inform themselves thoroughly as to all difficulties involved in the completion of all work required pursuant to the mandates and requirements of this bid package.

No plea of ignorance of conditions or difficulties that may hereafter exist, or of conditions or difficulties that may be encountered in the execution of the work pursuant to this bid package as a result of failure to make the necessary examinations and investigations will be accepted as an excuse for any failure or omission on the part of the successful Bidder (Contractor) to fulfill, in every detail, all of the requirements of the Contract Documents, nor will they be accepted as a basis for any claims whatsoever for extra compensation or for an extension of time.

- I. **Firms and/or individuals that assisted in the development or drafting of the specifications, requirements, statements of work, or solicitation documents contained herein are excluded from competing for this solicitation.**

This shall not be applicable to firms and/or individuals providing responses to a publicly posted Request for Information (RFI) associated with a solicitation.

**3. DISADVANTAGE BUSINESS ENTERPRISE PROGRAM**

**REFER TO VOLUME III LAP DIVISION 1 SPECIFICATIONS, WAGE RATES AND FDOT FORMS**

**4. FEDERAL REQUIREMENTS:**

**REFER TO VOLUME III LAP DIVISION 1 SPECIFICATIONS, WAGE RATES AND FDOT FORMS**

**5. BID ERRORS:**

Where bid forms have erasures or corrections, each erasure or correction must be initialed in ink by the Bidder. In case of unit price bid items, if an error is committed in the extension of an item, the unit price as shown in the Official Bid Form will govern. Errors between any sum, computed by the Bidder, and the correct sum thereof will be resolved in favor of the correct sum. Any discrepancy between words and numbers will be resolved in favor of the written words.

**6. DEVIATIONS:**

Bidders are hereby advised that Orange County will only consider bid Proposals that meet the specifications and other requirements imposed upon them by this bid package. In instances where a deviation is stated in the bid form, said bid will be subject to rejection by the County in recognition of the fact that said bid Proposal does not meet the exact requirements imposed upon the Bidder by the Contract Documents.

**7. SUBSTITUTE MATERIAL AND EQUIPMENT:**

The Contract, if awarded, will be on the basis of material and equipment described in the Drawings or specified in the Specifications without consideration of possible substitute or "or-equal" items. Whenever materials or equipment or patented processes are specified or described in the Contract Documents by naming a trade name, manufacturer, supplier or proprietary item or catalog number, the naming of the item is intended to establish the type, function and quality required and to establish a basis for bidding.

Substitute materials or equipment may be considered after a Contract for the Work is executed if sufficient information is supplied by Contractor to allow Project Manager to evaluate the proposed substitution, unless the naming of the item is followed by words indicating that no substitution is permitted. The procedure for submittal of any such application by Contractor and consideration by Project Manager is set forth in the General Conditions.

In the event that substitute materials or equipment are used and are less costly than the originally specified material or equipment, then the difference in cost of the item shall benefit the County and Contractor in equal proportions.

Applications for substitute materials and equipment shall only be evaluated after the Contract is executed. The Base Bid and Alternates shall reflect the costs for the materials and equipment named or specified only.

**8. REQUESTED INFORMATION AND DESCRIPTIVE LITERATURE:**

Bidders must furnish all requested information in the spaces provided on the bid form or attachments thereto. Additionally, where required pursuant to the provisions of this bid package, Bidders must submit with their bid proposal cuts, sketches, descriptive literature and/or complete specifications relative to the items proposed and offered.

**9. AWARD OF CONTRACT/REJECTION OF BIDS:**

The Board of County Commissioners will award a Contract to the low, responsive and responsible Bidder, price and other factors considered. The County will award one Contract for this requirement. The Board of County Commissioners, in its sole discretion, reserves the right to reject any and all bids and to waive any informality concerning bid proposals whenever such rejection or waiver is in the best interest of the County. The ability of a Bidder to obtain a performance bond and a payment bond shall not be regarded as the sole test of such Bidder's competency or responsibility. Nothing contained herein shall place a duty upon the County to reject bids or award a Contract based upon anything other than its sole discretion as described herein.

**10. POSTING OF RECOMMENDED AWARD AND PROTESTS:**

The recommended award will be posted for review by interested parties at the Procurement Division and at <http://apps.ocfl.net/OrangeBids/AwardsRec/default.asp> prior to submission through the appropriate approval process and will remain posted for a period of five full business days.

Failure to file a protest to the Procurement Division Manager by 5:00 PM on the fifth full business day after the posting date shall constitute a waiver of bid/proposal protest proceedings.

Additional information relative to protests can be found at:

<http://www.orangecountyfl.net/VendorServices/VendorProtestProcedures.aspx>

A lobbying blackout period shall commence upon issuance of the solicitation until the Board selects the successful Bidder. For procurements that do not require Board approval, the blackout period commences upon solicitation issuance and concludes upon Contract award. Additional information relative to lobbying can be found at:

<http://www.orangecountyfl.net/OpenGovernment/LobbingAtOrangeCounty.aspx>

The Board of County Commissioners may void any Contract where the County Mayor, one or more County Commissioners, or a County staff person has been lobbied in violation of the blackout period restrictions of Ordinance No. 2002-15.

**11. CONTRACT DOCUMENTS:**

The Contract Documents shall include the documents stated in the Contract (Titles, Subtitles, Headings, Running Headlines, Table of Contents and Indexes are used merely for convenience purposes).

**12. MODIFICATION/ALTERATION OF SOLICITATION AND OR CONTRACT DOCUMENTS**

Modification or alteration of the documents contained in this solicitation or the contract resulting from this solicitation shall only be made upon receipt of prior written consent of the County.

**13. LAWS AND REGULATIONS:**

The Bidder's attention is directed to the fact that all applicable Federal and State laws, municipal and County ordinances, and the rules and regulations of all authorities having jurisdiction over any part of the project shall apply to the solicitation and Contract throughout, and they will be deemed to be included in the solicitation/Contract the same as though herein written.

**14. REQUIRED DISCLOSURE:**

Bidder shall disclose all material facts with its bid submission pertaining to any felony conviction or any pending felony charges in the last three (3) years anywhere in the United States against (i) Bidder, (ii) any business entity related to or affiliated with Bidder, or (iii) any present or former executive employee, officer, director,



stockholder, partner or owner of Bidder or of any such related or affiliated entity. This disclosure shall not apply to any person or entity who is a stockholder, owning less than 20% of the outstanding shares of a Bidder whose stock is publicly owned and traded.

The Bidder shall also disclose any civil conviction or pending civil litigation involving Contract performance during the last three (3) years anywhere in the United States against the Bidder, or against any business controlled by or affiliated with Bidder.

The Board of County Commissioners may reject, at its sole discretion, any Bidder the Commission finds to lack, or whose present or former executive employees, officers, directors, stockholders, partners or owners are found by the Commission to lack honesty, integrity, or moral responsibility. The Commission's finding may be based on the disclosure required herein, the County's own investigation, public records, or any other reliable source of information. The Commission may also reject any Bidder failing to make the disclosure required herein. By submitting a bid, Bidder recognizes and accepts that the Board of County Commissioners may reject any bid at its sole discretion and the Bidder waives any claim it might have for damages or other relief arising from the rejection of its bid or resulting directly or indirectly from the rejection of its bid based on these grounds or from the disclosure of any pertinent information relating to the reasons for rejection of its bid.

**15. EXECUTION OF WRITTEN CONTRACT:**

The successful Bidder will be required to sign a written Contract which has been made a part of this bid package and identified as the Contract. Said written Contract will evidence in written form the agreement between the parties pursuant to the award having been theretofore made by the County to this Bidder; said signing to be accomplished within sixty (60) days after receipt of Notice of Award (Board Date).

The County will issue an "Official Notice to Proceed" on the project within ninety (90) days after contract award (the date the contract is signed by all relevant parties). In the event the Official Notice to Proceed has not been issued by the County within the 90-day period above, the Contractor shall have the option to rescind the Contract or continue with the Contract as originally bid.

**16. LICENSING REQUIREMENTS:**

The following licensing requirements shall apply when the applicable Florida statute mandates specific licensing for Contractors engaged in the type of work covered by this solicitation.

- a. State of Florida, Department of Professional Regulation, Construction Industries Licensing Board and licensed by other federal, state, regional, county or municipal agencies having jurisdiction over the specified construction work.
- b. Said licenses **shall** be in the Bidder's name as it appears on the Official Bid Form. Bidder shall supply appropriate license numbers, with expiration dates, as part of their bid. Failure to hold and provide proof of proper



licensing, certification and registration **shall** be grounds for rejection of the bid.

- c. Bidder shall provide copies of all applicable licenses with their Bid Proposal.
- d. Subcontractors contracted by the Prime Contractor shall be licensed in their respective fields to obtain construction permits from the County. Said license must be in the name of the subcontractor listed on Attachment C, Subcontractor/Supplier Page, herein.

**17. SECURITY FORFEITURE:**

When bid security has been required (Part C, Section 2, Paragraph h.): If, within sixty (60) days after issuance of Notice of Award of a Contract, the successful Bidder refuses or otherwise neglects to execute the required written Contract and fails to furnish the required Performance Bond and Payment Bond, the amount of the Bidder's bid security (Cashier's Check or Bid Bond) shall be forfeited and the same shall be retained by the County. No plea of mistake in the bid or misunderstanding of the conditions of forfeiture shall be available to the Bidder for the recovery of his bid security or as a defense to any action.

**18. PERFORMANCE BONDS AND PAYMENT BONDS:**

When the contract amount exceeds \$100,000 a Payment Bond and a Performance Bond issued in a sum equal to one hundred (100%) percent of the total awarded Contract amount by a Surety company considered satisfactory by the County according to the criteria in Section 19 will be required from the successful Bidder for purposes of protecting the County from lawsuits for non-payment of debts as might be incurred during the successful Bidder's performance under such Contract, and insuring the faithful performance of the obligations imposed by the resulting Contract.

The Payment Bond and the Performance Bond forms are included in the Contract Documents and said forms must be properly executed by the Surety Company and successful Bidder within ten (10) days after receipt of notification from the County of its award of the Contract.

**The Contractor shall record the payment and performance bonds in Orange County public records as required by Florida Statutes, Chapter 255.05. Before commencing the work the Contractor shall provide to the Manager of the Procurement Division a certified copy of the recorded bonds. No payment will be made to the contractor until the contractor has provided a copy of the recorded bonds.**

**19. QUALIFICATIONS OF SURETY COMPANIES:**

In order to be **ACCEPTABLE** to the County, the Surety company issuing **the Bid Bond, the Performance Bond and the Payment Bond**, as called for in this Invitation for Bids, shall meet and comply with the following minimum standards:

- a. Surety must be admitted to do business in the State of Florida and shall comply with the provisions of Florida Statute 255.05.

- b. Surety must be listed on the U.S. Department of Treasury Fiscal Service, Bureau of Government Financial Operations, Federal Register, Part V, latest revision, entitled: "Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies".
- c. All bonds shall be originals and issued or countersigned by a producing agent with satisfactory evidence of the authority of the person or persons executing such bond shall be submitted with the bond. Attorneys-in-fact who sign bonds or other Surety instruments must attach with each bond or Surety instrument a signed, certified and effectively dated copy of their power of attorney. Agents of Surety companies must list their name, address and telephone number on all bonds.
- d. The life of the bonds shall extend twelve (12) months beyond the date of Final Completion and shall contain a waiver of alteration to the terms of the Contract, extensions of time and/or forbearance on the part of the County.
- e. **Surety must have financial standing having a rating from A.M. Best Company (or other equivalent rating company) equal to or better than A- Class VI.**
- f. Should the Bid, Payment and Performance Bonds be issued by co-sureties, each surety listed on the bond shall meet the requirements in paragraphs a. – e. above. In addition, each surety shall submit a power of attorney and all signatures of the co-sureties representatives shall be notarized. The "lead" surety shall be identified for the purposes of underwriting and claims management.

**FAILURE TO MEET ANY OF THE REQUIREMENTS CONTAINED ABOVE SHALL RESULT IN REJECTION OF THE BID.**

**20. TRENCH SAFETY ACT:**

Pursuant to Chapters 553.60 & 553.64 Florida Statutes, "Trench Safety Act", any person submitting a bid/proposal is required to complete the form entitled: COMPLIANCE WITH FLORIDA TRENCH SAFETY ACT (Chapter 553.60.553.64 Florida Statute), if applicable, and return the form with the Official Bid Form, (Part D, Attachment D). This is not a pay item. The purpose of this form is to gather information on the costs associated with trench safety measures and to insure that the bidder has considered these costs and included them in the Base Bid. Failure to complete this form may result in the Bid being declared nonresponsive

**21. DRUG-FREE WORKPLACE FORM:**

The Drug-Free Workplace Form is attached in Part E and shall be completed and submitted with your bid.

**22. BID TABULATION AND RECOMMENDED AWARD:**

Bid files may be examined during normal working hours, thirty (30) days after bid opening, or upon recommendation for award, whichever occurs first. Bidders desiring to view these documents are urged to schedule an appointment. For information concerning this bid, please contact the Procurement Division at the address listed above or by calling (407) 836-5635. Please specify the bid number for which you are inquiring. Bid opening results will be available at <http://apps.ocfl.net/orangebids/bidresults/results.asp>. Unsuccessful bidders will not be notified, unless a request is submitted in accordance with this paragraph.

**23. INDEMNIFICATION FOR TORT ACTIONS/LIMITATION OF LIABILITY:**

The provisions of Florida Statute 768.28 applicable to Orange County, Florida apply in full to this Contract. Any legal actions to recover monetary damages in tort for injury or loss of property, personal injury, or death caused by the negligent or wrongful act or omission of any employee of the County acting within the scope of his/her office or employment are subject to the limitations specified in this statute. No officer, employee or agent of the County acting within the scope of his/her employment or function shall be held personally liable in tort or named as a defendant in any action for any or damage suffered as a result of any act, event, or failure to act.

The County shall not be liable in tort for the acts or omissions of an officer, employee, or agent committed while acting outside the course and scope of his/her employment. This exclusion includes actions committed in bad faith or with malicious purpose, or in a manner exhibiting wanton and willful disregard of human rights, safety, or property.

**24. OCCUPATIONAL SAFETY AND HEALTH ACT (O.S.H.A.):**

In instances where such is applicable due to the nature of the bid matter with which this bid package is concerned, all material, equipment, etc., as proposed and offered by Bidders must meet and conform to all O.S.H.A. requirements; the Bidder's signature upon the bid proposal form (Part D) being by this reference considered a certification of such fact.

**25. PUBLIC ENTITY CRIME STATEMENT (FS 287.133):**

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, subcontractor, or any entity in excess of the threshold amount provided in Florida State Statutes Section 287.017 for CATEGORY TWO for a period of 36 months from the date of being placed on the convicted vendor list.

**26. SUBCONTRACTOR/SUPPLIER INFORMATION:**

Bidders must list all proposed subcontractors and suppliers to be used. Contractor shall not change any subcontractors without just cause and approval by the County.

**27. SUBCONTRACTOR'S PAST PERFORMANCE:**

Bidder is responsible for verifying subcontractor's satisfactory performance on previous Orange County projects. Failure to do so may impact Bidder's responsibility determination.

**28. SCRUTINIZED COMPANIES**

- A. By executing this Agreement, the Contractor certifies that it is eligible to bid on, submit a proposal for, or enter into or renew a contract with the County for goods or services pursuant to Section 287.135, Florida Statutes.
- B. Specifically, by executing this Agreement, the Contractor certifies that it is **not** on the Scrutinized Companies that Boycott Israel List, created pursuant to Section 215.4725, Florida Statutes, or is engaged in a boycott of Israel.
- C. Additionally, if this Agreement is for an amount of one million dollars (\$1,000,000) or more, by executing this Agreement, the Subrecipient certifies that it is **not**:
  - 1. On the "Scrutinized Companies with Activities in Sudan List" or the "Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List," created pursuant to Section 215.473, Florida Statutes; and/or
  - 2. Engaged in business operations in Cuba or Syria.
- D. The County reserves the right to terminate this Agreement immediately should the Contractor be found to:
  - 1. Have falsified its certification of eligibility to bid on, submit a proposal for, or enter into or renew a contract with the County for goods or services pursuant to Section 287.135, Florida Statutes; and/or
  - 2. Have become ineligible to bid on, submit a proposal for, or enter into or renew a contract with the County for goods or services pursuant to Section 287.135, Florida Statute subsequent to entering into this Agreement with the County.
- E. If this Agreement is terminated by the County as provided in subparagraph 4(a) above, the County reserves the right to pursue any and all available legal remedies against the Contractor, including but not limited to the remedies as described in Section 287.135, Florida Statutes.
- F. If this Agreement is terminated by the County as provided in subparagraph 4(b) above, the Contractor shall be paid only for the funding-applicable work completed as of the date of the County's termination.

G. Unless explicitly stated in this Section, no other damages, fees, and/or costs may be assessed against the County for its termination of the Agreement pursuant to this Section.

**29. DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION**

REFER TO VOLUME III LAP DIVISION 1 SPECIFICATIONS, WAGE RATES AND FDOT FORMS

**30. REFERENCES:**

Bidder shall supply (with the bid form) a list of three (3) similar projects successfully completed **by the Bidder, as a Prime Contractor** within the last ten (10) years immediately preceding the due date for bids in response to this Invitation for Bids. Failure to provide this information may be cause for rejection of the bid.

**Similar Projects:**

“Similar projects” for the purpose of this Invitation for Bid has been defined as: a road or intersection improvement project in which the construction has been successfully completed within the ten (10) years immediately preceding the due date for bids in response to this Invitation for Bids and shall contain the following elements:

**Project Elements:**

1. Construction of an urban roadway intersection having a minimum length of 0.25 miles and a roadway construction cost, which excludes any utility work, equal to or greater than two hundred thousand dollars (\$200,000). For purposes of this Invitation for Bid, “urban” is defined as projects which traverse an urbanized area which may have multiple intersecting streets and connecting driveways.
2. Preparation of roadway as-builts.
3. Construction of roadway stormwater conveyance system (must include at least 100 feet of 18” or larger pipe installation).
4. Coordination with utility companies.

**Bidder shall submit projects that show previous successful project experience with the project elements for a total of three (3) examples for each element. All elements are not required to be in the same project.**

**In addition to the above similar project elements, all Bidders are required to be currently pre-qualified with the Florida Department of Transportation (FDOT) in at least two of the following major classes of work required for this project, one of which must be FLEXIBLE PAVING. The documentation required to be submitted with the sealed Bids shall include qualifying documentation from FDOT for the work types shown below:**

FENCING FLEXIBLE  
PAVING GRADING  
GRASSING, SEEDING AND SODDING  
HOT PLANT MIXED-BITUM COURSES  
PORTLAND CEMENT  
PAVEMENT MARKING

**Florida Law (Chapter 337.14 F.S.) And Rules of the State of Florida, Department of Transportation, (Chapter 14-22, F.A.C.) require contractors to be prequalified with the Department in order to bid for the performance of road, bridge, or public transportation construction contracts greater than \$250,000.00.**

**Failure to submit proof of the FDOT pre-qualification for the major classes of work listed in Paragraph 30 shall render the Bid non-responsive.**

**EACH SIMILAR PROJECT LISTED SHALL BE LISTED WITH COMPLETE INFORMATION AS SPECIFICALLY PROVIDED ON THE REFERENCE FORM (ATTACHMENT E). THE SPECIFIC INFORMATION ON REFERENCES MUST BE PROVIDED ON THE REFERENCE FORM. DO NOT ATTACH LISTINGS OF REFERENCE INFORMATION. FAILURE TO PROVIDE REFERENCE INFORMATION AS REQUESTED MAY RESULT IN THE REJECTION OF YOUR BID.**

The determination of whether a bidder is responsible or not shall be at the sole discretion of the County. Although the County may request submission of a minimum number of similar projects for evaluation, the County's determination of a bidder's responsibility shall not be solely based on the number of similar projects submitted.

The contact person listed as a reference shall be someone who has personal knowledge of the Bidder's performance during the referenced project. Contact persons must have been informed that they are being used as a reference and that the County will be calling or emailing them.

**31. BID AND RELATED COSTS:**

By submission of a bid, the Bidder agrees that all costs associated with the preparation of his/her bid will be the sole responsibility of the Bidder. The Bidder also agrees that the County bears no responsibility for any costs associated with the preparation of the bid and/or any administrative or judicial proceedings resulting from the solicitation process.

**32. SOLICITATION CANCELLATIONS**

Orange County reserves the right, and the Manager of the Procurement Division, has the absolute and sole discretion to cancel a solicitation at any time prior to approval of the award by the Board of County Commissioners when such approval is required. The decision to cancel a solicitation cannot be the basis for a protest pursuant to the Orange County Code.

**33. LICENSES/PERMITS/FEES:**

**A. In compliance with the Public Bid Disclosure Act, Section 218.80, Florida Statutes, each permit, license, and/or fee applicable to this work/project (before and during construction) that will either be paid by the Contractor or by the Orange County Board of County Commissioners as specified below:**

The Contractor shall procure and pay for the following permits, licenses and/or fees:

**NPDES, Dewatering, MOT (\$128)**

The cost of the permits, licenses and/or fees listed above shall be included in the bid price except where noted otherwise in the specifications or other bid documents.

B. Licenses, permits and fees which may be required by the State of Florida, State Agencies or by other local governmental entities or agencies other than Orange County Board of County Commissioners:

The Contractor shall procure and pay for all permits and licenses, charges and fees and give all notices necessary and incidental to the due and lawful prosecution of the work.

The cost of all permits, fees, etc. shall be included in the bid price except where noted otherwise in the specifications or other bid documents.

C. The Orange County Government Fee Directory, incorporated herein by reference, contains a list of licenses, permits and fees that may apply to this project.

The fee directory link "Fees" is available at:

<http://www.orangecountyfl.net/portals/0/resource%20library/open%20government/FeeDirectory.pdf>

Bidders shall review all applicable licenses, permits and fees and contact the applicable agency if there are any questions.

#### **34. BID ACCEPTANCE PERIOD**

Any bid submitted in response to this Invitation for Bids shall remain in effect for a period of 90 days after bid opening. Upon request of the County, the bidder at its sole option may extend this period.

#### **35. EQUAL OPPORTUNITY**

Refer to Volume III, LAP DIVISION I SPECIFICATIONS, WAGE RATE AND FDOT FORMS



### 36. ETHICS COMPLIANCE

The following forms are included in this solicitation as attachments F and G and shall be completed and submitted as indicated below:

- a. Orange County Specific Project Expenditure Report -The purpose of this form is to document any expenses incurred by a lobbyist for the purposes described in Section 2-351, Orange County Code.

This form shall be completed and submitted with any bid, proposal or other response to an Orange County solicitation.

The bidder, proposer or responder to the solicitation shall not be awarded a contract unless this form has been completed and submitted.

Any questions concerning this form shall be addressed to the senior contract administrator for this solicitation.

- b. **Relationship Disclosure Form – The purpose of this form is to document any relationships between a bidder, proposer or responder to an Orange County solicitation and the Mayor or any other member of the Orange County Board of County Commissioners.** This form shall be completed and submitted with the applicable bid, proposal or response to an Orange County solicitation.

No contract award will be made unless this form has been completed and submitted. Any questions concerning this form shall be addressed to the senior contract administrator identified in this solicitation. Also, a listing of the most frequently asked questions concerning this form is attached for your information.

### 37. TOBACCO FREE CAMPUS

All Orange County operations under the Board of County Commissioners shall be tobacco free. This policy shall apply to parking lots, parks, break areas and worksites. It is also applicable to contractors and their personnel during contract performance on county-owned property. Tobacco is defined as tobacco products including, but not limited to, cigars, cigarettes, e-cigarettes, pipes, chewing tobacco and snuff. Failure to abide by this policy may result in civil penalties levied under Chapter 386, Florida Statutes and/or contract enforcement remedies.

### 38. VERIFICATION OF EMPLOYMENT STATUS

Prior to the employment of any person under this contract, the Contractor 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 Contractor during the contract term, and an express requirement that Contractors include in such subcontracts the requirement that subcontractors performing work or providing services pursuant to the state contract utilize the E-Verify system to verify the employment eligibility of all new employees hired by the subcontractor during the contract term. For more information on this process, please refer to United States Citizenship and Immigration Service site at:



<http://www.uscis.gov/portal/site/uscis>.

**Only those employees determined eligible to work within the United States shall be employed under this contract.**

By submission of a bid in response to this solicitation, the Contractor affirms that all employees in the above categories shall undergo e-verification before placement on this contract. The Contractor shall commit to comply with this requirement by completing the E-Verification certification, attached to this solicitation.

**39. PROPRIETARY INFORMATION**

In accordance with Chapter 119 of the Florida Statutes (Public Records Law), and except as may be provided by other applicable State or Federal Law, all proposers should be aware that Request for Proposals or Invitation for Bids and the responses thereto are in the public domain. **Proposers must identify specifically** any information contained in their response which they consider confidential and/or proprietary and which they believe to be exempt from disclosure, **citing specifically the applicable exempting law.**

**40. MOBILIZATION:**

Mobilization is defined as construction start-up costs required for performance of preparatory work and operations in mobilizing for beginning work on the project. Such costs are necessary for the movement of personnel, equipment, supplies and incidentals to the project site and for the establishment of temporary offices, buildings, safety equipment, first aid supplies, sanitary and other facilities. Include the cost of bonds, insurance and any other preconstruction expense necessary for the start of work. Mobilization costs are not part of the physical construction.

The Contractor shall retain adequate documentation to support all mobilization costs. The County may at its discretion verify reasonableness of actual mobilization costs and make an equitable adjustment to contract price if deemed necessary.

The total cost of mobilization shall not exceed 10% of the Estimated Total Base Bid. For purposes of calculation of maximum allowable mobilization, the "Estimated Total Base Bid" is defined as the total of all line items specified to be included in the mobilization calculation, exclusive of any alternates or options, and exclusive of the Mobilization line item.

Failure of the Bidder to comply with this limitation shall result in a reduction of the line item price for Mobilization; or, in the alternative, the bid may be found non-responsive, at the County's option.

**41. UNBALANCED PRICING**

A. Unbalanced pricing may increase performance risk and could result in payment of unreasonably high prices. Unbalanced pricing exists when,

despite an acceptable total evaluated price, the price of one or more contract line items is significantly over or understated as indicated by the application of cost or price analysis techniques.

The greatest risk associated with unbalanced pricing occur when–

1. Startup work and mobilization are separate line items;
  2. Base year quantities and option year quantities are separate line items ; or  
The evaluated price is the aggregate of estimated quantities to be ordered under separate line items of an indefinite-delivery contract.
- B. All offers with separately priced line items or subline items shall be analyzed to determine if the prices are unbalanced. If cost or price analysis techniques indicate that an offer is unbalanced, the Manager of the Procurement Division shall
1. Consider the risks to the County associated with the unbalanced pricing in determining the competitive range and in making the award decision; and
  2. Consider whether award of the contract will result in paying unreasonably high prices for contract performance.
  3. An offer may be rejected if the manager determines that the lack of balance poses an unacceptable risk to the County.

**42. UNIT PRICES**

Unless the Bid Item Schedule contained in Part D specifies otherwise, unit prices shall include all incidental Project costs, including but not limited to overhead and profit.

The Contract resulting from this solicitation is based on estimated quantities. The contractor shall only be paid for materials installed in the work in accordance with the applicable unit prices for the specific work element (line item). No payment shall be made for excess materials delivered to the jobsite and not incorporated into the work. Therefore, it shall be the contractor's responsibility to determine the quantities of materials necessary to perform the project to its completion.

**43. WORK AT ORANGE COUNTY CORRECTIONS COMPLEX:**

Not Applicable

**44. ACCESS TO RECORDS**

NOT APPLICABLE.

**45. DEPARTMENT OF HOMELAND SECURITY (DHS) SEAL, LOGO, AND FLAGS (**

NOT APPLICABLE.

46. **COMPLIANCE WITH FEDERAL LAW, REGULATIONS, AND EXECUTIVE ORDERS**

NOT APPLICABLE.

47. **NO OBLIGATION BY FEDERAL GOVERNMENT**

NOT APPLICABLE.

48. **PROGRAM FRAUD AND FALSE OR FRAUDULENT STATEMENTS OR RELATED ACTS**

NOT APPLICABLE.

\*\*\*\*\*

\* IFB NO. Y19-701 - CH

ISSUED: June 6, 2019

**OFFICIAL BID FORM**

**FOR**

**SADLER ROAD & U.S. 441 INTERSECTION IMPROVEMENTS PROJECT FPID:  
441400-1-58-01 FAN: D518-087-B**

\*\*\*\*\*

**Mail or Hand Deliver**

**ORIGINAL BID FORM AND THREE (3) COMPLETE COPIES**

**BY 2:00 PM - July 11, 2019**

**To:**

**BOARD OF COUNTY COMMISSIONERS  
ORANGE COUNTY, FLORIDA  
INTERNAL OPERATIONS CENTRE II  
PROCUREMENT DIVISION  
400 E. SOUTH STREET – 2<sup>nd</sup> FLOOR  
ORLANDO, FLORIDA 32801**

**Bid Opening:**

**July 11, 2019 - 2:00 PM**

**INTERNAL OPERATIONS CENTRE II  
PROCUREMENT DIVISION CONFERENCE ROOM, 2<sup>nd</sup> FLOOR  
ORLANDO, FLORIDA**

---

**COMPANY NAME**

---

**COMPLETE MAILING ADDRESS**

---

**CITY, COUNTY, STATE, ZIP CODE**

---

**TELEPHONE NUMBER**

---

**FAX NUMBER**

---

**CONTACT PERSON**

---

**E-MAIL ADDRESS**

---

**TIN#:** \_\_\_\_\_

---

**D-U-N-S#** \_\_\_\_\_

**NOTE: COMPANY NAME MUST MATCH LEGAL NAME ASSIGNED TO TIN AND  
D-U-N-S NUMBER. CURRENT W9 MUST BE SUBMITTED WITH BID/PROPOSAL**

\*\*\*\*\*

**PART D**

\*\*\*\*\*

**To the Board of County Commissioners  
Orange County, Florida**

The Undersigned, hereinafter called "Bidder", having visited the site of the proposed project and familiarized himself with the local conditions, nature and extent of the work, and having examined carefully the Contract Form, General Conditions, Supplementary Conditions, Plans and Specifications and other Contract Documents, with the Bond requirements herein, proposes to furnish all labor, materials, equipment and other items, facilities and services for the proper execution and completion of: **SADLER ROAD & U.S. 441 INTERSECTION IMPROVEMENTS PROJECT FPID: 441400-1-58-01 FAN: D518-087-B** in full accordance with the drawings and specifications prepared in accordance with the Contract Documents and, if awarded the Contract, to complete the said work within the time limits specified for the following ESTIMATED TOTAL BASE BID.

It is understood that this is a unit price Contract and the resultant Contract will contain estimated quantities, unit prices, extended totals and that the Estimated Total Base Bid is the sum of all pay item totals from the schedule of prices, Page D-3 – D-6.

The Contract resulting from this solicitation is based on estimated quantities. The contractor shall only be paid for materials installed in the work in accordance with the applicable unit prices for the specific work element (line item). No payment shall be made for excess materials delivered to the jobsite and not incorporated into the work. Therefore, it shall be the contractor's responsibility to determine the quantities of materials necessary to perform the project to its completion.

ESTIMATED TOTAL BASE BID:

\_\_\_\_\_ DOLLARS  
(In Words)

\$ \_\_\_\_\_

In the event the Contract is awarded to this Bidder, he/she will enter into a formal written agreement with the County in accordance with the accepted bid within sixty (60) calendar days after said Contract is submitted to him/her and will furnish to the County a Contract Payment and Performance Bond with good and sufficient sureties, satisfactory to the County, in the amount of 100% of the accepted bid. The Bidder further agrees that in the event of the Bidder's default or breach of any of the agreements of this proposal, the said bid deposit shall be forfeited as liquidated damages.

**Failure of the Bidder to provide pricing for all unit priced items and/or the Base Bid and ALL requested additive/deductive bid items, or alternate bids shall be cause for rejection of the bid as non-responsive.**

**Y19-701-CH; SADLER ROAD & US 441 INTERSECTION IMPROVEMENTS  
PROJECT FPID: 441400-1-58-01 FAN: D518-087-D  
SCHEDULE OF PRICES**

<b>NO</b>	<b>PAY ITEM NO.</b>	<b>PAY ITEM DESCRIPTION</b>	<b>UNITS</b>	<b>QUANTITIY</b>	<b>UNIT COST</b>	<b>COST</b>
1	101-1	MOBILIZATION	LS	1		
2	102-1	MAINTENANCE OF TRAFFIC	LS	1		
3	104-14	PREVENTION, CONTROL & ABATEMENT OF EROSION & WATER POLLUTION	LS	1		
4	110-1-1	CLEARING AND GRUBBING	LS	1		
5	120-9	EXCAVATION, EMBANKMENT AND GRADING	LS	1		
6	160-4	STABILIZATION TYPE B (MIN. LBR 40)(12")	SY	480		
7	270-10	SOIL CEMENT BASE (PRIMED) (10") (300 psi)	SY	350		
8	327-70-8	MILLING EXIST ASPH PAVT, 2.5" AVG DEPTH	SY	2136		
9	334-1-13	SUPERPAVE ASPHALTIC CONCRETE SP 12.5 (TRAFFIC C) (1")	SY	2136		
10	334-2-24	SUPERPAVE ASPHALTIC CONCRETE SP 12.5 (TRAFFIC C) (3.5")	SY	350		
11	337-7-6	ASPHALT. CONC. FRICTION COURSE FC-12.5 (1.5")	SY	2486		

**Y19-701-CH; SADLER ROAD & US 441 INTERSECTION IMPROVEMENTS  
PROJECT FPID: 441400-1-58-01 FAN: D518-087-D  
SCHEDULE OF PRICES**

12	425-1-311	INLETS, CURB, TYPE P-1, <10'	EA	1		
13	425-1-529	INLETS, DT BOT, TYPE C, MODIFY	EA	1		
14	425-1-910	INLETS (CLOSED FLUME)	EA	2		
15	430-175-118	PIPE CULVERT, ROUND, 18"S/CD (SRCP ONLY)	LF	98		
16	430-175-218	PIPE CULVERT, ELLIPTICAL, 14"x23"S/CD (SRCP ONLY)	LF	285		
17	430-982-625	MITERED END SECTION (14"x23" CD, ELLIPTICAL, 1:4)	EA	1		
18	515-1-1	PIPE HANDRAIL - GUIDERAIL, GALVANIZED STEEL	LF	301		
19	520-1-10	CONCRETE CURB AND GUTTER (TYPE F)	LF	749		
20	522-1	SIDEWALK CONCRETE, 4" THICK	SY	253		
21	522-2	CONCRETE DRIVEWAY, 6" THICK	SY	29		
22	524-1-2	CONCRETE DITCH PAVEMENT, NON REINFORCED, 4"	SY	35		
23	570-1-2	PERFORMANCE TURF, SOD	SY	752		
24	603-1	SIGNALIZATION	LS	1		

**Y19-701-CH; SADLER ROAD & US 441 INTERSECTION IMPROVEMENTS  
PROJECT FPID: 441400-1-58-01 FAN: D518-087-D  
SCHEDULE OF PRICES**

25	706-3	RETRO-REFLECTIVE PAVEMENT MARKER	EA	59		
26	710-90	PAINTED PAVEMENT MARKINGS-FINAL SURFACE	LS	1		
27	711-11-125	THERMOPLASTIC (STANDARD) (WHITE) (SOLID) (24")	LF	24		
28	711-11-141	THERMOPLASTIC (STANDARD) (6" WHITE, 6'-10' SKIP)	GM	0.016		
29	711-11-170	THERMOPLASTIC (STANDARD) (ARROW)	EA	8		
30	711-16-101	THERMOPLASTIC (STANDARD-OTHER SURFACES) (WHITE) (SOLID) (6")	GM	0.340		
31	711-16-201	THERMOPLASTIC (STANDARD-OTHER SURFACES) (YELLOW) (SOLID) (6")	GM	0.302		
32	900-1	AS-BUILT PLANS	LS	1		
34	900-3	GROUNDWATER TREATMENT AND DISPOSAL	DA	30.0		
<b>SUBTOTAL (Items 1-32,34)</b>						
<b>ALTERNATIVE BID 1</b>						



**Y19-701-CH; SADLER ROAD & US 441 INTERSECTION IMPROVEMENTS**

**PROJECT FPID: 441400-1-58-01 FAN: D518-087-D**

**SCHEDULE OF PRICES**

33	900-2	IDEMNIFICATION	LS	1	\$100.00	\$100.00
<b>GRAND TOTAL (Items 1-34)</b>						

The Bidder hereby agrees that there is attached:

- |     |   |     |                              |
|-----|---|-----|------------------------------|
| 1.  | Non-Collusion Affidavit, Attachment A   | Yes | _____                        |
| 2.  | Required Disclosure, Attachment B   | Yes | _____                        |
| 3.  | Schedule of Subcontracting, Attachment C  | Yes | _____                        |
| 4.  | Trench Safety Act Form, Attachment D  | Yes | _____                        |
| 5.  | Drug-Free workplace Form  | Yes | _____ N/A _____              |
| 6.  | Original Bid Form (marked "Original") & 3 complete copies with all attachments  | Yes | _____                        |
| 7.  | References, Attachment E  | Yes | _____                        |
| 8.  | Licenses  | Yes | _____                        |
| 9.  | Current W9  | Yes | _____ N/A _____              |
| 10. | Project Expenditure Report, Attachment F  | Yes | _____                        |
| 11. | Relationship Disclosure Form, Attachment G  | Yes | _____                        |
| 12. | Verification of Employment Status, Attachment H   | Yes | _____                        |
| 13. | Certification Regarding Lobbying For Contracts, Grants, Loans, And Cooperative Agreements Appendix A, 44 C.F.R. Part 18, Attachment I | Yes | _____                        |
| 14. | Affidavit of Compliance with 2 C.F.R. §200.321 (Or 45 C.F.R. §75.330 for Health and Human Services Funds) Requirements. Attachment J  | Yes | _____                        |
| 15. | Federal Debarment Certification Form, Attachment K,   | Yes | _____                        |
| 16. | Lease Employee Affidavit, Attachment L  | Yes | _____                        |
| 17. | <b>Bid Bond on Form, Attachment M</b> or Cashier's Check (10% of Base Bid)  | Yes | _____ N/A _____<br>N/A _____ |

**THE FOLLOWING FEDERAL FORMS FROM VOLUME III – LAP Division I Specifications, Wage Rates and FDOT Forms MUST BE INCLUDED WITH THE SEALED BID RESPONSE.**

18. Local Agency Program / Federal Aid Certification Yes \_\_\_\_\_
19. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion (375-030-32) Yes \_\_\_\_\_
20. Disclosure of Lobbying Activities (375-030-34) Yes \_\_\_\_\_
21. LAP Certifications of Current Capacity (525-010-46) Yes \_\_\_\_\_
22. Status of Contracts on Hand (525-010-46) Yes \_\_\_\_\_
23. Certification of Disclosure of Lobbying Activities (375-030-33) Yes \_\_\_\_\_
24. Non-Collusion Declaration of Compliance (575-060-13) Yes \_\_\_\_\_

**ACKNOWLEDGEMENT OF ADDENDA**

The Bidder shall acknowledge receipt of any addenda issued to the solicitation by completing the blocks below or by completion of the applicable information on the addendum and returning it not later than the date and time for receipt of the bid. Failure to acknowledge an addendum that has a material impact on the solicitation may negatively impact the responsiveness of your bid. Material impacts include but are not limited to changes to specifications, delivery time, performance period, quantities, bonds, letters of credit, insurance, qualifications, etc.

Addendum No. \_\_\_\_\_ Dated \_\_\_\_\_ Addendum No. \_\_\_\_\_ Dated \_\_\_\_\_

Addendum No. \_\_\_\_\_ Dated \_\_\_\_\_ Addendum No. \_\_\_\_\_ Dated \_\_\_\_\_

If awarded this construction Contract, the Bidder agrees to complete the work covered by this Contract as follows:

1. Work shall start at the project site within fourteen (14) days of the effective date of the Notice to Proceed.
2. Substantially complete in **110** consecutive calendar days from date of Official Notice to Proceed.

3. Final completion in **140** consecutive calendar days from date of Official Notice to Proceed.
4. Should the Successful Bidder fail to complete work as specified, the liquidated damage clause will apply (Part E, Contract).

The Bidder hereby agrees that the County reserves the right to waive informalities in any bid and to reject any or all bids, or to accept any bid that in its judgment will be for the best interest of the County.

**FLORIDA CONSTRUCTION INDUSTRIES LICENSING BOARD CERTIFICATION:**

\_\_\_\_\_  
(NAME OF HOLDER) (CERTIFICATE NO.)

\_\_\_\_\_  
(SIGNATURE OF BIDDER) (CERTIFICATE EXPIRATION DATE)

\_\_\_\_\_  
(NAME TYPED)

**IDENTIFICATION OF BUSINESS ORGANIZATION**

Complete and submit the following information:

Type of Organization

{ } Sole Proprietorship { } Partnership

{ } Joint Venture { } Corporation

State of Incorporation: \_\_\_\_\_

Principal Place of Business (Florida Statute Chapter 607):  
\_\_\_\_\_ City/County/State

**THE PRINCIPAL PLACE OF BUSINESS SHALL BE THE ADDRESS OF THE BIDDER'S PRINCIPAL OFFICE AS IDENTIFIED BY THE FLORIDA DIVISION OF CORPORATIONS**

**AUTHORIZED SIGNATORIES/NEGOTIATORS**

The bidder or proposer represents that the following principals are authorized to sign and/or negotiate Contracts and related documents to which the bidder or proposer will be duly bound. Principal is defined as an employee, officer or other technical or professional in a position capable of substantially influencing the development or outcome of an activity required to perform the covered transaction.

Name	Title	Telephone Number	E-Mail Address
_____	_____	_____	_____
_____	_____	_____	_____

IN WITNESS WHEREOF, THE BIDDER HAS HEREUNTO SET HIS SIGNATURE AND AFFIXED HIS SEAL THIS DAY OF \_\_\_\_\_, A.D. 20\_\_.

BY \_\_\_\_\_ (SEAL)

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

PRINT NAME AND TITLE \_\_\_\_\_

FEDERAL I.D.# \_\_\_\_\_

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**NON-COLLUSION AFFIDAVIT**

The undersigned being first duly sworn as provided by law, deposes and says:

1. This Affidavit is made with the knowledge and intent that it is to be filed with the Board of County Commissioners, Orange County, Florida and that it will be relied upon by said County, in any consideration which may give to and any action which it may take with respect to this Proposal.

2. The undersigned is authorized to make this Affidavit on behalf of,

\_\_\_\_\_  
(Name of Corporation, Partnership, Individual, etc.)

A \_\_\_\_\_, formed under the laws of \_\_\_\_\_ of which he is

\_\_\_\_\_  
(Sole Owner, Partner, President, etc.)

3. Neither the undersigned nor any other person, firm or corporation named in above Paragraph 2, nor anyone else to the knowledge of the undersigned, have themselves solicited or employed anyone else to solicit favorable action for this Proposal by the County, also that no head of any department or employee therein, or any officer of Orange County, Florida is directly interested therein.

4. This Proposal is genuine and not collusive or a sham; the person, firm or corporation named above in Paragraph 2 has not colluded, conspired, connived or agreed directly or indirectly with any bidder or person, firm or corporation, to put in a sham Proposal, or that such other person, firm or corporation, shall refrain from bidding, and has not in any manner, directly or indirectly, sought by agreement or collusion, or communication or conference with any person, firm or corporation, to fix the prices of said proposal or proposals of any other bidder; and all statements contained in the proposal or proposals described above are true; and further, neither the undersigned, nor the person, firm or corporation named above in Paragraph 3, has directly or indirectly submitted said proposal or the contents thereof, or divulged information or data relative thereto, to any association or to any member or agent thereof.

\_\_\_\_\_  
(AFFIANT)

**TAKEN, SWORN AND SUBSCRIBED TO BEFORE ME this \_\_\_\_ day of \_\_\_\_\_, 20\_\_.**

\_\_\_\_\_  
Notary Public

(SEAL)

\_\_\_\_\_  
(Print, Type or Stamp Commissioned Name of Notary Public)

Personally Known \_\_\_\_\_ or Produced Identification \_\_\_\_\_ Type of

Identification: \_\_\_\_\_

**REQUIRED DISCLOSURE**

The following Disclosure is of all material facts pertaining to any felony or civil conviction or any pending felony or civil charges in the last three (3) years in this State or any other State of the United States against 1) Bidder, 2) any business entity related to or affiliated with bidder, or 3) any present or former executive employee, officer, director, stockholder, partner or owner of bidder or of any such related or affiliated entity. This Disclosure shall not apply to any person or entity which is only a stockholder, which person or entity owns twenty percent (20) or less of the outstanding shares of a bidder whose stock is publicly owned and traded.

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BIDDER

**SCHEDULE OF SUBCONTRACTING, IFB NO. Y19-702-CH**

As specified in the General Terms and Conditions and in the Special Terms and Conditions, bidders are to present the details of subcontractor participation.

<b>Name Of Subcontractor</b>	<b>Address</b>	<b>Type of Work to be Performed</b>	<b>Percent and dollar amount of Contract Amount to be Subcontracted</b>

Company Name: \_\_\_\_\_



**COMPLIANCE WITH FLORIDA TRENCH SAFETY ACT (Chapters 553 and 556, Florida Statutes)**

Bidder hereby acknowledges that all costs for complying with the Florida Trench Safety Act are included in the various items of the Total Estimated Base Bid or Lump Sum Bid. For informational purposes only, the Bidder is required to further identify these costs in the summary below.

TRENCH SAFETY MEASURE (DESCRIPTION)	UNIT OF MEASURE (LF, SY)	UNIT (QUANTITY)	UNIT COST	EXTENDED COST
A) _____	_____	_____	\$ _____	\$ _____
B) _____	_____	_____	\$ _____	\$ _____
C) _____	_____	_____	\$ _____	\$ _____
D) _____	_____	_____	\$ _____	\$ _____
			TOTAL	\$ _____

**SIGNED:** \_\_\_\_\_

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

**THIS IS NOT A PAY ITEM:** The purpose of this form is to gather information on the costs associated with trench safety measures and to insure that the Bidder has considered these costs and included them in the Total Estimated Base Bid or Lump Sum Bid. Contractor will not receive additional payment if actual quantities differ from those estimated or if the Contractor uses a safety measure different than those listed.

(Failure to complete this form may result in the Bid being declared non-responsive.)

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**REFERENCES:** Bidder should supply (with the bid form) a list of three (3) similar projects successfully completed by the Bidder, as a Prime Contractor within the last ten (10) years immediately preceding the due date of bid submittal in response to this Invitation for Bids. Failure to provide this information may be cause for rejection of the bid.

**Similar Projects:**

“Similar projects” for the purpose of this Invitation for Bid has been defined as: a road or intersection improvement project which construction has been successfully completed within the eight (8) years immediately preceding the submittal date for proposal in response to this Invitation for Bids and shall contain the following elements:

**Project Elements:**

1. Construction of an urban roadway intersection having a minimum length of 0.25 miles and a roadway construction cost, which excludes any utility work, equal to or greater than two hundred thousand dollars (\$200,000). For purposes of this Invitation for Bid, “urban” is defined as projects which traverse an urbanized area which may have multiple intersecting streets and connecting driveways. **Construction of a Limited Access projects with an interchange is not allowed. Resurfacing, Restoration and Rehabilitation (RRR) projects shall not be considered to be similar projects.**
2. Preparation of roadway as-builts.
3. Construction of roadway stormwater conveyance system (must include at least 100 feet of 18” or larger pipe installation).
4. Coordination with utility companies.

**In addition to the above similar project elements, all Bidders are required to be currently pre-qualified with the Florida Department of Transportation (FDOT) in at least two of the following major classes of work required for this project, one of which must be FLEXIBLE PAVING. The documentation required to be submitted with the sealed Bids shall include qualifying documentation from FDOT for the work types shown below:**

FENCING FLEXIBLE  
PAVING GRADING  
GRASSING, SEEDING AND SODDING  
HOT PLANT MIXED-BITUM COURSES  
PORTLAND CEMENT  
PAVEMENT MARKING

**Bidder shall submit projects that show previous successful project experience with the project elements for a total of three (3) examples for each element. All elements are not required to be in the same project.**

**Florida Law (Chapter 337.14 F.S.) And Rules of the State of Florida Department of Transportation. (Chapter 14-22, F.A.C.) require contractors to be prequalified with the Department in order to bid for the performance of road, bridge, or public transportation construction contracts greater than \$250,000.00.**

**Failure to submit proof of the FDOT pre-qualification for the major classes of work listed in Paragraph 30 shall render the Bid non-responsive.**

**EACH SIMILAR PROJECT LISTED SHALL BE LISTED WITH COMPLETE INFORMATION AS SPECIFICALLY PROVIDED ON THE REFERENCE FORM (ATTACHMENT E). THE SPECIFIC INFORMATION ON REFERENCES MUST BE PROVIDED ON THE REFERENCE FORM. DO NOT ATTACH LISTINGS OF REFERENCE INFORMATION.**

**FAILURE TO PROVIDE REFERENCE INFORMATION AS REQUESTED MAY RESULT IN THE REJECTION OF YOUR BID.**

The determination of whether a bidder is responsible or not shall be at the sole discretion of the County. Although the County may request submission of a minimum number of similar projects for evaluation, the County's determination of a bidder's responsibility shall not be solely based on the number of similar projects submitted.

The contact person listed as a reference shall be someone who has personal knowledge of the Bidder's performance during the referenced project. Contact persons must have been informed that they are being used as a reference and that the County will be calling or emailing them.

1. Project Name \_\_\_\_\_  
Owner \_\_\_\_\_  
Contact \_\_\_\_\_  
Address \_\_\_\_\_

Telephone Number/Email Address \_\_\_\_\_

Contract Number and Amount # \_\_\_\_\_ \$ \_\_\_\_\_

Change Orders \$ \_\_\_\_\_

Final Contract \$ \_\_\_\_\_

Completed on Schedule? Yes \_\_\_ No \_\_\_ Date: \_\_\_\_\_

Project Description \_\_\_\_\_

2. Project Name \_\_\_\_\_  
Owner \_\_\_\_\_  
Contact \_\_\_\_\_  
Address \_\_\_\_\_

Telephone Number/Email Address \_\_\_\_\_

Contract Number and Amount # \_\_\_\_\_ \$ \_\_\_\_\_

Change Orders \$ \_\_\_\_\_

Final Contract \$ \_\_\_\_\_

Completed on Schedule? Yes \_\_\_ No \_\_\_ Date: \_\_\_\_\_

Project Description \_\_\_\_\_

3. Project Name \_\_\_\_\_  
Owner \_\_\_\_\_  
Contact \_\_\_\_\_  
Address \_\_\_\_\_

Telephone Number/Email Address \_\_\_\_\_

Contract Number and Amount # \_\_\_\_\_ \$ \_\_\_\_\_

Change Orders \$ \_\_\_\_\_

Final Contract \$ \_\_\_\_\_

Completed on Schedule? Yes \_\_\_ No \_\_\_ Date: \_\_\_\_\_

Project Description \_\_\_\_\_

4. Project Name \_\_\_\_\_

Owner \_\_\_\_\_

Contact \_\_\_\_\_

Address \_\_\_\_\_

Telephone Number/Email Address \_\_\_\_\_

Contract Number and Amount # \_\_\_\_\_ \$ \_\_\_\_\_

Change Orders \$ \_\_\_\_\_

Final Contract \$ \_\_\_\_\_

Completed on Schedule? Yes \_\_\_ No \_\_\_ Date: \_\_\_\_\_

Project Description \_\_\_\_\_

5. Project Name \_\_\_\_\_

Owner \_\_\_\_\_

Contact \_\_\_\_\_

Address \_\_\_\_\_

Telephone Number/Email Address \_\_\_\_\_

Contract Number and Amount # \_\_\_\_\_ \$ \_\_\_\_\_

Change Orders \$ \_\_\_\_\_

Final Contract \$ \_\_\_\_\_

Completed on Schedule? Yes \_\_\_ No \_\_\_ Date: \_\_\_\_\_

Project Description \_\_\_\_\_

6. Project Name

Owner

Contact

Address

Telephone Number/Email Address \_\_\_\_\_

Contract Number and Amount # \_\_\_\_\_ \$ \_\_\_\_\_

Change Orders \$ \_\_\_\_\_

Final Contract \$ \_\_\_\_\_

Completed on Schedule? Yes \_\_\_ No \_\_\_ Date: \_\_\_\_\_

Project Description

For Staff Use Only:

Initially submitted on \_\_\_\_\_

Updated On \_\_\_\_\_

Specific Project Expenditure Report (Revised November 5, 2010)

For use as of March 1, 2011

**SADLER ROAD & U.S. 441 INTERSECTION IMPROVEMENTS PROJECT FPID: 441400-1-58-01 FAN: D518-087-B**

Case or Bid No. Y19-701-CH

**ORANGE COUNTY SPECIFIC PROJECT EXPENDITURE REPORT**

**This lobbying expenditure form shall be completed in full and filed with all application submittals. This form shall remain cumulative and shall be filed with the department processing your application. Forms signed by a principal's authorized agent shall include an executed Agent Authorization Form.**

**This is the initial Form: \_\_\_\_\_**

**This is a Subsequent Form: \_\_\_\_\_**

**Part I**

**Please complete all of the following:**

Name and Address of Principal (legal name of entity or owner per Orange County tax rolls): \_\_\_\_\_

Name and Address of Principal's Authorized Agent, if applicable: \_\_\_\_\_

**List the name and address of all lobbyists, consultants, contractors, subcontractors, individuals or business entities who will assist with obtaining approval for this project. (Additional forms may be used as necessary.)**

1. Name and address of individual or business entity: \_\_\_\_\_  
Are they registered Lobbyist? Yes \_\_\_ or No \_\_\_
2. Name and address of individual or business entity: \_\_\_\_\_  
Are they registered Lobbyist? Yes \_\_\_ or No \_\_\_
3. Name and address of individual or business entity: \_\_\_\_\_  
Are they registered Lobbyist? Yes \_\_\_ or No \_\_\_
4. Name and address of individual or business entity: \_\_\_\_\_  
Are they registered Lobbyist? Yes \_\_\_ or No \_\_\_
5. Name and address of individual or business entity: \_\_\_\_\_  
Are they registered Lobbyist? Yes \_\_\_ or No \_\_\_
6. Name and address of individual or business entity: \_\_\_\_\_  
Are they registered Lobbyist? Yes \_\_\_ or No \_\_\_
7. Name and address of individual or business entity: \_\_\_\_\_  
Are they registered Lobbyist? Yes \_\_\_ or No \_\_\_
8. Name and address of individual or business entity: \_\_\_\_\_  
Are they registered Lobbyist? Yes \_\_\_ or No \_\_\_



*For Staff Use Only:*  
Initially submitted on \_\_\_\_\_  
Updated On \_\_\_\_\_

Specific Project Expenditure Report (Revised November 5, 2010)

For use as of March 1, 2011

**SADLER ROAD & U.S. 441 INTERSECTION IMPROVEMENTS PROJECT FPID: 441400-1-58-01 FAN: D518-087-B**

Case or Bid No. **Y19-701-CH**

**Company Name:** \_\_\_\_\_

**Part II  
Expenditures:**

For this report, an "expenditure" means money or anything of value given by the principal and/or his/her lobbyist for the purpose of lobbying, as defined in section 2-351, Orange County Code. This may include public relations expenditures including, but not limited to, petitions, fliers, purchase of media time, cost of print and distribution of publications. However, the term "expenditure" **does not** include:

- Contributions or expenditures reported pursuant to chapter 106, Florida Statutes;
- Federal election law, campaign-related personal services provided without compensation by individuals volunteering their time;
- Any other contribution or expenditure made by or to a political party;
- Any other contribution or expenditure made by an organization that is exempt from taxation under 26 U.S.C. s. 527 or s. 501(c)(4), in accordance with s.112.3215, Florida Statutes; and/or
- Professional fees paid to registered lobbyists associated with the project or item.

The following is a complete list of all lobbying expenditures and activities (including those of lobbyists, contractors, consultants, etc.) incurred by the principal or his/her authorized agent and expended in connection with the above-referenced project or issue. **You need not include de minimus costs (under \$50) for producing or reproducing graphics, aerial photographs, photocopies, surveys, studies or other documents related to this project.**

Date of Expenditure	Name of Party Incurring Expenditure	Description of Activity	Amount Paid
<b>TOTAL EXPENDED THIS REPORT</b>			\$

*For Staff Use Only:*

Initially submitted on \_\_\_\_\_

Updated On \_\_\_\_\_

**SADLER ROAD & U.S. 441 INTERSECTION IMPROVEMENTS PROJECT FPID: 441400-1-58-01 FAN: D518-087-B**

Case or Bid No. **Y19-701-CH**

**Company Name:** \_\_\_\_\_

**Part III  
ORIGINAL SIGNATURE AND NOTARIZATION REQUIRED**

I hereby certify that information provided in this specific project expenditure report is true and correct based on my knowledge and belief. I acknowledge and agree to comply with the requirement of section 2-354, of the Orange County code, to amend this specific project expenditure report for any additional expenditure(s) incurred relating to this project prior to the scheduled Board of County Commissioner meeting. I further acknowledge and agree that failure to comply with these requirements to file the specific expenditure report and all associated amendments may result in the delay of approval by the Board of County Commissioners for my project or item, any associated costs for which I shall be held responsible. In accordance with s. 837.06, Florida Statutes, I understand and acknowledge that whoever knowingly makes a false statement in writing with the intent to mislead a public servant in the performance of his or her official duty shall be guilty of a misdemeanor in the second degree, punishable as provided in s. 775.082 or s. 775.083, Florida Statutes.

Date: \_\_\_\_\_

Signature of  Principal or  Principal's Authorized Agent

*(check appropriate box)*

**PRINT NAME AND TITLE:** \_\_\_\_\_

STATE OF \_\_\_\_\_ :

COUNTY OF \_\_\_\_\_ :

I certify that the foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_ by \_\_\_\_\_ He/she is personally known to me or has produced \_\_\_\_\_ as identification and did/did not take an oath.

Witness my hand and official seal in the county and state stated above on the \_\_\_\_\_ day of \_\_\_\_\_, in the year \_\_\_\_\_.

(Notary Seal)

\_\_\_\_\_  
Signature of Notary Public

Notary Public for the State of \_\_\_\_\_

My Commission Expires: \_\_\_\_\_

Staff signature and date of receipt of form \_\_\_\_\_

Staff reviews as to form and does not attest to the accuracy or veracity of the information provided herein.

## **FREQUENTLY ASKED QUESTIONS (FAQ) ABOUT THE SPECIFIC PROJECT EXPENDITURE REPORT**

*Updated 3-1-11*

### **WHAT IS A SPECIFIC PROJECT EXPENDITURE REPORT (SPR)?**

A Specific Project Expenditure Report (SPR) is a report required under Section 2-354(b) of the Orange County Lobbying Ordinance, codified at Article X of Chapter 2 of the Orange County Code, reflecting all lobbying expenditures incurred by a principal and his/her authorized agent(s) and the principal's lobbyist(s), contractor(s), subcontractor(s), and consultant(s), if applicable, for certain projects or issues that will ultimately be decided by the Board of County Commissioners (BCC).

Matters specifically exempt from the SPR requirement are ministerial items, resolutions, agreements in settlement of litigation matters in which the County is a party, ordinances initiated by County staff, and some procurement items, as more fully described in 2.20 of the Administrative Regulations.

Professional fees paid by the principal to his/her lobbyist for the purpose of lobbying need not be disclosed on this form. (See Section 2-354(b), Orange County Code.)

### **WHO NEEDS TO FILE THE SPR?**

The principal or his/her authorized agent needs to complete and sign the SPR and warrant that the information provided on the SPR is true and correct.

A principal that is a governmental entity does not need to file an SPR.

### **HOW ARE THE KEY RELEVANT TERMS DEFINED?**

*Expenditure* means "a payment, distribution, loan, advance, reimbursement, deposit, or anything of value made by a lobbyist or principal for the purpose of lobbying. This may include public relations expenditures (including but not limited to petitions, flyers, purchase of media time, cost of print and distribution of publications) but does not include contributions or expenditures reported pursuant to Chapter 106, Florida Statutes, or federal election law, campaign-related personal services provided without compensation by individuals volunteering their time, any other contribution or expenditure made by or to a political party, or any other contribution or expenditure made by an organization that is exempt from taxation under 26 U.S.C. s. 527 or s. 501(c)(4)." (See Section 112.3215, Florida Statutes.) Professional fees paid by the principal to his/her lobbyist for the purpose of lobbying are not deemed to be "expenditures." (See Section 2-354, Orange County Code.)

*Lobbying* means seeking "to encourage the approval, disapproval, adoption, repeal, rescission, passage, defeat or modification of any ordinance, resolution, agreement, development permit, other type of permit, franchise, vendor, consultant, contractor, recommendation, decision or other foreseeable action of the [BCC]," and "include[s] all communications, regardless of whether initiated by the lobbyist or by the person being lobbied, and regardless of whether oral, written or electronic." (See Section 2-351, Orange County Code.) Furthermore, *lobbying* means communicating "directly with the County Mayor, with any other member of the [BCC], or with any member of a procurement committee." (See Section 2-351, Orange County Code.) *Lobbying* also means communicating "indirectly with the County Mayor or any other member of the [BCC]" by communicating with any staff member of the Mayor or any member of the BCC, the county administrator, any deputy or assistant county administrator, the county attorney, any county department director, or any county division manager. (See Section 2-351, Orange County Code.) *Lobbying* does not include the act of appearing before a Sunshine Committee, such as the Development Review Committee or the Roadway Agreement Committee other than the BCC.

*Principal* means “the person, partnership, joint venture, trust, association, corporation, governmental entity or other entity which has contracted for, employed, retained, or otherwise engaged the services of a lobbyist.” *Principal* may also include a person, partnership, joint venture, trust, association, corporation, limited liability corporation, or other entity where it or its employees do not qualify as a lobbyist under the definition set forth in Section 2-351 of the Orange County Code but do perform lobbying activities on behalf of a business in which it has a personal interest.

**DOES THE SPR NEED TO BE UPDATED IF INFORMATION CHANGES?**

Yes. It remains a continuing obligation of the principal or his/her authorized agent to update the SPR whenever any of the information provided on the initial form changes.

**WHERE DO THE SPR AND ANY UPDATES NEED TO BE FILED?**

The SPR needs to be filed with the County Department or County Division processing the application or matter. If and when an additional expenditure is incurred subsequent to the initial filing of the SPR, an amended SPR needs to be filed with the County Department or County Division where the original application, including the initial SPR, was filed.

**WHEN DO THE SPR AND ANY UPDATES NEED TO BE FILED?**

In most cases, the initial SPR needs to be filed with the other application forms. The SPR and any update must be filed with the appropriate County Department or County Division not less than seven (7) days prior to the BCC hearing date so that they may be incorporated into the BCC agenda packet. (See Section 2-354(b), Orange County Code.) When the matter is a discussion agenda item or is the subject of a public hearing, and any additional expenditure occurs less than 7 days prior to BCC meeting date or updated information is not included in the BCC agenda packet, the principal or his/her authorized agent is obligated to verbally present the updated information to the BCC when the agenda item is heard or the public hearing is held. When the matter is a consent agenda item and an update has not been made at least 7 days prior to the BCC meeting or the update is not included in the BCC agenda packet, the item will be pulled from the consent agenda to be considered at a future meeting.

**WHO WILL BE MADE AWARE OF THE INFORMATION DISCLOSED ON THE SPR AND ANY UPDATES?**

The information disclosed on the SPR and any updates will be a public record as defined by Chapter 119, Florida Statutes, and therefore may be inspected by any interested person. Also, the information will be made available to the Mayor and the BCC members. This information will accompany the other information for the principal’s project or item.

**CONCLUSION:**

We hope you find this FAQ useful to your understanding of the SPR. Please be informed that in the event of a conflict or inconsistency between this FAQ and the requirements of the applicable ordinance governing specific project expenditure reports, the ordinance controls.

Also, please be informed that the County Attorney’s Office is not permitted to render legal advice to a principal, his/her authorized agent, or any other outside party. Accordingly, if after reading this FAQ the principal, his/her authorized agent or an outside party has any questions, he/she is encouraged to contact his/her own legal counsel.

*For Staff Use Only:*

OC CE FORM 2P

Date Submitted \_\_\_\_\_

FOR PROCUREMENT-RELATED ITEMS (November 5, 2010) Date Updated \_\_\_\_\_

For use after March 1, 2011

Bid Number **Y19-701-CH**

**RELATIONSHIP DISCLOSURE FORM**

**FOR USE WITH PROCUREMENT ITEMS, EXCEPT THOSE WHERE THE COUNTY IS THE PRINCIPAL OR PRIMARY APPLICANT**

For procurement items that will come before the Board of County Commissioners for final approval, this form shall be completed by the bidder, offerer, quoter or respondent and shall be submitted to the Procurement Division by the bidder, offerer, quoter or respondent.

In the event any information provided on this form should change, the applicant must file an amended form on or before the date the item is considered by the appropriate board or body.

**Part I**

**INFORMATION ON APPLICANT (BIDDER, OFFEROR, QUOTER, PROPOSER, OR RESPONDENT):**

Legal Name of Applicant: \_\_\_\_\_

Business Address (Street/P.O. Box, City and Zip Code):

\_\_\_\_\_  
\_\_\_\_\_

Business Phone ( ) \_\_\_\_\_

Facsimile ( ) \_\_\_\_\_

**INFORMATION ON APPLICANT'S AUTHORIZED AGENT, IF APPLICABLE:**

**(Agent Authorization Form also required to be attached)**

Name of Applicant's Authorized Agent:  
\_\_\_\_\_

Business Address (Street/P.O. Box, City and Zip Code):

\_\_\_\_\_  
\_\_\_\_\_

Business Phone ( ) \_\_\_\_\_

Facsimile ( ) \_\_\_\_\_

*For Staff Use Only:*

OC CE FORM 2P

Date Submitted \_\_\_\_\_

FOR PROCUREMENT-RELATED ITEMS (November 5, 2010) Date Updated \_\_\_\_\_

For use after March 1, 2011

Bid Number **Y19-701-CH**

**Company Name:** \_\_\_\_\_

**Part II**

**IS THE APPLICANT A RELATIVE OF THE MAYOR OR ANY MEMBER OF THE BCC?**

\_\_\_ YES \_\_\_ NO

**IS THE MAYOR OR ANY MEMBER OF THE BCC THE APPLICANT'S EMPLOYEE?**

\_\_\_ YES \_\_\_ NO

**IS THE APPLICANT OR ANY PERSON WITH A DIRECT BENEFICIAL INTEREST IN THE OUTCOME OF THIS MATTER A BUSINESS ASSOCIATE OF THE MAYOR OR ANY MEMBER OF THE BCC?**

\_\_\_ YES \_\_\_ NO

If you responded "YES" to any of the above questions, please state with whom and explain the relationship:

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(Use additional sheets of paper if necessary)

For Staff Use Only:

OC CE FORM 2P

Date Submitted \_\_\_\_\_

FOR PROCUREMENT-RELATED ITEMS (November 5, 2010) Date Updated \_\_\_\_\_

For use after March 1, 2011

Bid Number **Y19-701-CH**

Company Name: \_\_\_\_\_

**Part III**

**ORIGINAL SIGNATURE AND NOTARIZATION REQUIRED**

I hereby certify that information provided in this relationship disclosure form is true and correct based on my knowledge and belief. If any of this information changes, I further acknowledge and agree to amend this relationship disclosure form prior to any meeting at which the above-referenced project is scheduled to be heard. In accordance with s. 837.06, Florida Statutes, I understand and acknowledge that whoever knowingly makes a false statement in writing with the intent to mislead a public servant in the performance of his or her official duty shall be guilty of a misdemeanor in the second degree, punishable as provided in s. 775.082 or s. 775.083, Florida Statutes.

\_\_\_\_\_  
Signature of Applicant

Date: \_\_\_\_\_

Print Name and Title of Person completing this form: \_\_\_\_\_

STATE OF \_\_\_\_\_ :  
COUNTY OF \_\_\_\_\_ :

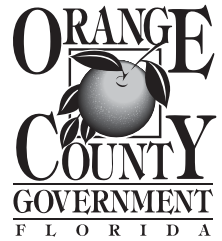
I certify that the foregoing instrument was acknowledged before me this \_\_\_\_ day of \_\_\_\_\_, 20\_\_ by \_\_\_\_\_. He/she is personally known to me or has produced \_\_\_\_\_ as identification and did/did not take an oath.

Witness my hand and official seal in the county and state stated above on the \_\_\_\_ day of \_\_\_\_\_, in the year \_\_\_\_\_.

(Notary Seal) \_\_\_\_\_  
Signature of Notary Public  
Notary Public for the State of \_\_\_\_\_  
My Commission Expires: \_\_\_\_\_

Staff signature and date of receipt of form

Staff reviews as to form and does not attest to the accuracy or veracity of the information provided herein.



**AGENT AUTHORIZATION FORM  
FOR PROCUREMENTS IN ORANGE COUNTY, FLORIDA**

**I/WE, (PRINT BIDDER, OFFEROR, QUOTER OR RESPONDENT NAME)**

\_\_\_\_\_, DO HEREBY AUTHORIZE TO ACT AS MY/OUR AGENT  
(PRINT AGENT'S NAME), \_\_\_\_\_, TO EXECUTE ANY PETITIONS OR

OTHER DOCUMENTS NECESSARY TO AFFECT THE **CONTRACT APPROVAL PROCESS** MORE SPECIFICALLY  
DESCRIBED AS FOLLOWS, **IFB NO. Y19- 701-CH, SADLER ROAD & U.S. 441 INTERSECTION  
IMPROVEMENTS PROJECT FPID: 441400-1-58-01 FAN: D518-087-B**, AND TO APPEAR ON MY/OUR  
BEHALF BEFORE ANY ADMINISTRATIVE OR LEGISLATIVE BODY IN THE COUNTY CONSIDERING THIS **CONTRACT**  
AND TO ACT IN ALL RESPECTS AS OUR AGENT IN MATTERS PERTAINING TO THIS **CONTRACT**.

**Date:** \_\_\_\_\_  
**Signature of Bidder, Offeror, Quoter or Respondent**

**STATE OF** \_\_\_\_\_ :  
**COUNTY OF** \_\_\_\_\_ :

I certify that the foregoing instrument was acknowledged before me this \_\_\_\_ day of \_\_\_\_\_, 20\_\_ by \_\_\_\_\_. He/she is personally known to me or has produced \_\_\_\_\_ as identification and did/did not take an oath.

Witness my hand and official seal in the county and state stated above on the \_\_\_\_ day of \_\_\_\_\_, in the year \_\_\_\_\_.

(Notary Seal) \_\_\_\_\_  
**Signature of Notary Public**  
**Notary Public for the State of** \_\_\_\_\_

**My Commission Expires:** \_\_\_\_\_



**FREQUENTLY ASKED QUESTIONS (FAQ)**  
**ABOUT THE**  
**RELATIONSHIP DISCLOSURE FORM**  
*Updated 6-28-11*

**WHAT IS THE RELATIONSHIP DISCLOSURE FORM?**

The Relationship Disclosure Form (form OC CE 2D and form OC CE 2P) is a form created pursuant to the County's Local Code of Ethics, codified at Article XIII of Chapter 2 of the Orange County Code, to ensure that all development-related items and procurement items presented to or filed with the County include information as to the relationship, if any, between the applicant and the County Mayor or any member of the Board of County Commissioners (BCC). The form will be a part of the backup information for the applicant's item.

**WHY ARE THERE TWO RELATIONSHIP DISCLOSURE FORMS?**

Form OC CE 2D is used only for development-related items, and form OC CE 2P is used only for procurement-related items. The applicant needs to complete and file the form that is applicable to his/her case.

**WHO NEEDS TO FILE THE RELATIONSHIP DISCLOSURE FORM?**

Form OC CE 2D should be completed and filed by the owner of record, contract purchaser, or authorized agent. Form OC CE 2P should be completed and filed by the bidder, offeror, quoter, or respondent, and, if applicable, their authorized agent. In all cases, the person completing the form must sign the form and warrant that the information provided on the form is true and correct.

**WHAT INFORMATION NEEDS TO BE DISCLOSED ON THE RELATIONSHIP DISCLOSURE FORM?**

The relationship disclosure form needs to disclose pertinent background information about the applicant and the relationship, if any, between, on the one hand, the applicant and, if applicable, any person involved with the item, and on the other hand, the Mayor or any member of the BCC.

In particular, the applicant needs to disclose whether any of the following relationships exist: (1) the applicant is a business associate of the Mayor or any member of the BCC; (2) any person involved with the approval of the item has a beneficial interest in the outcome of the matter *and* is a business associate of the Mayor or any member of the BCC; (3) the applicant is a relative of the Mayor or any member of the BCC; or (4) the Mayor or any member of the BCC is an employee of the applicant. (See Section 2-454, Orange County Code.)

**HOW ARE THE KEY RELEVANT TERMS DEFINED?**

*Applicant* means, for purposes of a development-related project, the owner, and, if applicable, the contract purchaser or owner's authorized agent. *Applicant* means, for purposes of a procurement item, the bidder, offeror, quoter, respondent, and, if applicable, the authorized agent of the bidder, offeror, quoter, or respondent.

*Business associate* means any person or entity engaged in or carrying on a business enterprise with a public officer, public employee, or candidate as a partner, joint venture, corporate shareholder where the shares of such corporation are not listed on any national or regional stock exchange, or co-owner of property. In addition, the term includes any person or entity engaged in or carrying on a business enterprise, or otherwise engaging in common investment, with a public officer, public employee, or candidate as a partner, member, shareholder, owner, co-owner, joint venture partner, or other investor, whether directly or indirectly, whether through a Business Entity or through interlocking Parent Entities, Subsidiary Entities, or other business or investment scheme, structure, or venture of any nature. (See Section 112.312(4), Florida Statutes, and Section 2-452(b), Orange County Code.)

*Employee* means any person who receives remuneration from an employer for the performance of any work or service while engaged in any employment under any appointment or contract for hire or apprenticeship, express or implied, oral or written, whether lawfully or unlawfully employed, and includes, but is not limited to, aliens and minors. (See Section 440.02(15), Florida Statutes.)

*Relative* means an individual who is related to a public officer or employee as father, mother, son, daughter, brother, sister, uncle, aunt, first cousin, nephew, niece, husband, wife, father-in-law, mother-in-law, son-in-law, daughter-in-law, brother-in-law, sister-in-law, stepfather, stepmother, stepson, stepdaughter, stepbrother, stepsister, half brother, half sister, grandparent, great grandparent, grandchild, great grandchild, step grandparent, step great grandparent, step grandchild, step great grandchild, person who is engaged to be married to the public officer or employee or who otherwise holds himself or herself out as or is generally known as the person whom the public officer or employee intends to marry or with whom the public officer or employee intends to form a household, or any other natural person having the same legal residence as the public officer or employee. (See Section 112.312(21), Florida Statutes.)

**DOES THE RELATIONSHIP DISCLOSURE FORM NEED TO BE UPDATED IF INFORMATION CHANGES?**

Yes. It remains a continuing obligation of the applicant to update this form whenever any of the information provided on the initial form changes.

**WHERE DO THE RELATIONSHIP DISCLOSURE FORM AND ANY SUBSEQUENT UPDATES NEED TO BE FILED?**

For a development-related item, the Relationship Disclosure Form and any update need to be filed with the County Department or County Division where the applicant filed the application. For a procurement item, the Relationship Disclosure Form and any update need to be filed with the Procurement Division.

**WHEN DO THE RELATIONSHIP DISCLOSURE FORM AND ANY UPDATES NEED TO BE FILED?**

In most cases, the initial form needs to be filed when the applicant files the initial development-related project application or initial procurement-related forms. However, with respect to a procurement item, a response to a bid will not be deemed unresponsive if this form is not included in the initial packet submitted to the Procurement Division.

If changes are made after the initial filing, the final, cumulative Relationship Disclosure Form needs to be filed with the appropriate County Department or County Division processing the application not less than seven (7) days prior to the scheduled BCC agenda date so that it may be incorporated into the BCC agenda packet. When the matter is a discussion agenda item or is the subject of a public hearing, and an update has not been made at least 7 days prior to BCC meeting date or is not included in the BCC agenda packet, the applicant is obligated to verbally present such update to the BCC when the agenda item is heard or the public hearing is held. When the matter is a consent agenda item and an update has not been made at least 7 days prior to the BCC meeting or the update is not included in the BCC agenda packet, the item will be pulled from the consent agenda to be considered at a future meeting.

**WHO WILL REVIEW THE INFORMATION DISCLOSED ON THE RELATIONSHIP DISCLOSURE FORM AND ANY UPDATES?**

The information disclosed on this form and any updates will be a public record as defined by Chapter 119, Florida Statutes, and may therefore be inspected by any interested person. Also, the information will be made available to the Mayor and the BCC members. This form and any updates will accompany the information for the applicant's project or item.

However, for development-related items, if an applicant discloses the existence of one or more of the relationships described above and the matter would normally receive final consideration by the Concurrency Review Committee or the Development Review Committee, the matter will be directed to the BCC for final consideration and action following committee review.

**CONCLUSION:**

We hope you find this FAQ useful to your understanding of the Relationship Disclosure Form. Please be informed that if the event of a conflict or inconsistency between this FAQ and the requirements of the applicable ordinance or law governing relationship disclosures, the ordinance or law controls.

Also, please be informed that the County Attorney's Office is not permitted to render legal advice to an applicant or any other outside party. Accordingly, if the applicant or an outside party has any questions after reading this FAQ, he/she is encouraged to contact his/her own legal counsel.

**THIS PAGE INTENTIONALLY LEFT BLANK**

**E VERIFICATION CERTIFICATION**

**IFB NO. Y19-701-CH**

**NAME OF CONTRACTOR:** \_\_\_\_\_ (referred to herein as  
“Contractor”)

**ADDRESS OF CONTRACTOR:**

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The undersigned does hereby certify that the above named contractor:

1. Is registered and is using the E-Verify system; or
2. Does not have any employees and does not intend to hire any new employees during the period of time that the contractor will be providing services under the contract and consequently is unable to register to use the E-Verify system; or
3. Employs individuals that were hired prior to the commencement of providing labor on the contract and does not intend to hire any new employees during the period of time that the contractor will be providing labor under the contract, and consequently is unable to use the E-Verify system.

The undersigned acknowledges the use of the E-Verify system for newly hired employees is an ongoing obligation for so long as the contractor provides labor under the contract and that the workforce eligibility of all newly hired employees will be properly verified using the E-Verify system.

**In accordance with Section 837.06, Florida Statutes, Contractor acknowledges that whoever knowingly makes a false statement in writing with the intent to mislead a public servant in the performance of his or her official duties shall be guilty of a misdemeanor in the second degree, punishable as provided in Section 775.082 or Section 775.083, Florida Statutes.**

**AUTHORIZED SIGNATURE:** \_\_\_\_\_

**NAME:** \_\_\_\_\_

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

**DATE:** \_\_\_\_\_

**CERTIFICATION REGARDING LOBBYING FOR CONTRACTS,  
GRANTS, LOANS, AND COOPERATIVE AGREEMENTS  
APPENDIX A, 44 C.F.R. PART 18**

(To be submitted with each bid or offer exceeding \$100,000)

The undersigned [Contractor] certifies, to the best of his or her knowledge, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form- LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
3. The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31, U.S.C. § 1352 (as amended by the Lobbying Disclosure Act of 1995). Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The Contractor, \_\_\_\_\_, certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. § 3801 *et seq.*, apply to this certification and disclosure, if any.

\_\_\_\_\_  
Signature of Contractor's Authorized Official

\_\_\_\_\_  
Name and Title of Contractor's Authorized Official

\_\_\_\_\_  
Date

**AFFIDAVIT OF COMPLIANCE**  
**WITH 2 CFR §200.321 REQUIREMENTS**  
**(OR 45 C.F.R. §75.330 FOR HEALTH AND HUMAN SERVICES FUNDS)**

I, \_\_\_\_\_, in my capacity as \_\_\_\_\_,  
(First and Last Name) (Company Title/Position)

am authorized to sign on behalf of, and fully bind, \_\_\_\_\_  
(Company Name)

(the "Prime Contractor"). Accordingly, on behalf of the Prime Contractor, I swear to, and affirm, the following:

- \_\_\_\_ 1. Qualified small and minority businesses, and women's business enterprises,  
(Initial) were, and will continue to be, placed on all of the Prime Contractor's solicitation lists.
  
- \_\_\_\_ 2. The Prime Contractor solicited, and will continue to solicit, small and minority  
(Initial) businesses, and women's business enterprises, when they were/are potential sources.
  
- \_\_\_\_ 3. Based on the Prime Contractor's experience and expertise, the total  
(Initial) requirements of the project were, and will continue to be, divided – when economically feasible – into smaller tasks or quantities to permit maximum participation by small and minority businesses, and women's business enterprises.
  
- \_\_\_\_ 4. The Prime Contractor has and/or will establish delivery schedules that will  
(Initial) encourage participation of small and minority business, and women's business enterprises.
  
- \_\_\_\_ 5. The Prime Contractor has and/or will use the services and assistance, as  
(Initial) appropriate, of such organizations as the Small Business Administration and the Minority Business Development Agency of the Department of Commerce.
  
- \_\_\_\_ 6. I understand that if the Prime Contractor fails to submit the documentation  
(Initial) required in SECTION 1, GENERAL TERMS AND CONDITIONS, SMALL AND MINORITY BUSINESS ENTERPRISE (MBE), WOMEN BUSINESS ENTERPRISES (WBE), AND LABOR SURPLUS AREA FIRMS of these bid documents as attachments to this Affidavit of Compliance, that the Prime Contractor's bid will be considered non-responsive.
  
- \_\_\_\_ 7. I affirm that all the **documentation attached** to this Affidavit of Compliance  
(Initial) reflect true and accurate records that have not in any way been altered.

\_\_\_\_ 8. I understand that, should the Prime Contractor be the awarded the contract that  
(Initial) this affidavit will continue to be considered binding for the duration of the  
project.

\_\_\_\_ 9. I understand that false statements on this Affidavit of Compliance may result  
(Initial) in criminal prosecution for a felony of the third degree as provide for in  
§92.525(3), Florida Statutes.

**I swear and affirm** that the above and foregoing representations are true and correct to the  
best of my information, knowledge, and belief.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Official Title

**STATE OF** \_\_\_\_\_)

**COUNTY OF** \_\_\_\_\_)

The foregoing instrument was acknowledged before me this \_\_\_\_ day of \_\_\_\_\_  
20\_\_, by \_\_\_\_\_ of \_\_\_\_\_, a \_\_\_\_\_  
(Name of officer or agent, Title) (Name of company) (State)  
corporation, on behalf of the corporation.

(Seal)

\_\_\_\_\_  
Signature Notary Public

Print, Type/Stamp Name of Notary

Personally Known [ ] or Produced Identification [ ]

Type of Identification Produced: \_\_\_\_\_



**FEDERAL DEBARMENT CERTIFICATION FORM**

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**Certification Regarding Debarment, Suspension, Ineligibility and  
Voluntary Exclusion Lower Tier Covered Transactions**

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This certification is required by the regulations implementing Executive Order 12549, Debarment and Suspension (1986) and Executive Order 12689, Debarment and Suspension (1989) at 2 C.F.R. Part 180.

**(BEFORE COMPLETING CERTIFICATION, READ THE INSTRUCTIONS ON  
THE WHICH ARE AN INTEGRAL PART OF THE CERTIFICATION)**

- (1) The prospective recipient of Federal assistance funds certifies, by Response, that it is in compliance with the requirements of 2 C.F.R. Part 180 and that neither it, its principals, nor its subcontractors are presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
  
- (2) Where the prospective recipient of Federal assistance funds is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this Response.

**ATTESTATION**

By signing this report, I certify to the best of my knowledge and belief that the foregoing is true, complete, and accurate. I am aware that any false, fictitious, or fraudulent information, or the omission of any material fact, may subject me to criminal, civil or administrative penalties for fraud, false statements, false claims or otherwise. (U.S. Code Title 18, Sections 3729-3730 and 3801-3812).

Company Name

---

Name and Title of Authorized Representative

---

---

Signature

---

Date

ATTACHMENT K

## **FEDERAL DEBARMENT CERTIFICATION FORM (CONTINUED)**

### **Instructions for Certification**

1. By signing and submitting this Response, the prospective recipient of Federal assistance funds is providing the certification as set out below.
2. The certification in this class is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective recipient of Federal assistance funds knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the Department of Labor (DOL) may pursue available remedies, including suspension and/or debarment.
3. The prospective recipient of Federal assistance funds shall provide immediate written notice to the person to which this Response is submitted if at any time the prospective recipient of Federal assistance funds learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
4. The prospective recipient of Federal assistance funds agrees by submitting this Response that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the DOL.
5. The prospective recipient of Federal assistance funds further agrees by submitting this Response that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transactions," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.

## LEASED EMPLOYEE AFFIDAVIT

CONTRACT #Y \_\_\_\_\_

I affirm that an employee leasing company provides my workers' compensation coverage. I further understand that my contract with the employee leasing company limits my workers' compensation coverage to enrolled worksite employees only. My leasing arrangement does not cover un-enrolled worksite employees, independent contractors, uninsured sub-contractors or casual labor exposure.

**I hereby certify that 100% of my workers are covered as worksite employees with the employee leasing company. I certify that I do not hire any casual or uninsured labor outside the employee leasing arrangement. I agree to notify the County in the event that I have any workers not covered by the employee leasing workers' compensation policy. In the event that I have any workers not subject to the employee leasing arrangement, I agree to obtain a separate workers' compensation policy to cover these workers. I further agree to provide the County with a certificate of insurance providing proof of workers' compensation coverage prior to these workers entering any County jobsite.**

I further agree to notify the County if my employee leasing arrangement terminates with the employee leasing company and I understand that I am required to furnish proof of replacement workers' compensation coverage prior to the termination of the employee leasing arrangement.

I certify that I have workers' compensation coverage for all of my workers through the employee leasing arrangement specified below:

Name of Employee Leasing Company: \_\_\_\_\_

Workers' Compensation Carrier: \_\_\_\_\_

A.M. Best Rating of Carrier: \_\_\_\_\_

Inception Date of Leasing Arrangement: \_\_\_\_\_

I further agree to notify the County in the event that I switch employee-leasing companies. I recognize that I have an obligation to supply an updated workers' compensation certificate to the County that documents the change of carrier.

Name of Contractor: \_\_\_\_\_

Signature of Owner/Officer: \_\_\_\_\_

Title: \_\_\_\_\_ Date: \_\_\_\_\_

**BID BOND**

**BOND NUMBER** \_\_\_\_\_

STATE OF FLORIDA)  
SS  
COUNTY OF ORANGE)

**KNOW ALL MEN BY THESE PRESENTS**, that we, \_\_\_\_\_, as Principal, and \_\_\_\_\_, as Surety, are held firmly bound unto Orange County, Florida, in the penal sum of: \$ \_\_\_\_\_ Dollars **(Ten percent {10%} of base bid if no amount entered)**  
**(Total Sum Written in Words)**

lawful money of the United States, for the payment of which sum well and truly to be made, we bound ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

**THE CONDITION OF THIS OBLIGATION IS SUCH**, that whereas the Principal has submitted the attached Bid, dated the \_\_\_\_\_ day of \_\_\_\_\_, **20\_\_**, for a Contract entitled: **SADLER ROAD & U.S. 441 INTERSECTION IMPROVEMENTS PROJECT FPID: 441400-1-58-01 FAN: D518-087-B, IFB Y19-701-CH.**

**NOW THEREFORE**, if the Principal shall withdraw said Bid prior to the date of opening the same, or shall within ten (10) days after the prescribed forms are presented to him for signature, enter in a written Contract with Orange County, Florida, in accordance with the Bid as accepted, and give a Performance Bond and a Payment Bond with good and sufficient Surety or sureties as may be required, for the faithful performance and proper fulfillment of such Contract and for prompt payment of all persons furnishing labor or materials in connection therewith, or in the event of the failure to enter into such Contract and give such Bonds within the time specified, if the Principal shall pay the County the difference between the amount specified in said Bid and the amount for which the County may procure the required work and/or supplies, provided the latter amount to be in excess of the former, then the above obligations shall be void and of no effect; otherwise to remain in full force and virtue.

**IN WITNESS WHEREOF**, the above written parties have executed this instrument under their several seals this the \_\_\_\_\_ day of \_\_\_\_\_, **20\_\_**, the name and corporate seal of each corporate party being affixed and these presents duly signed by its undersigned, pursuant to authority of its governing body.

**CONTRACTOR-PRINCIPAL:**

**SURETY:**

\_\_\_\_\_  
**NAME OF BUSINESS ENTITY**

\_\_\_\_\_  
**NAME OF SURETY**

\_\_\_\_\_  
**SIGNATURE**  
**(SEAL)**

\_\_\_\_\_  
**SIGNATURE: SURETY AGENT**  
**(SEAL)**

\_\_\_\_\_  
**TYPE NAME AND TITLE**

\_\_\_\_\_  
**TYPE NAME AND TITLE**

\_\_\_\_\_  
**BUSINESS ADDRESS**

\_\_\_\_\_  
**BUSINESS ADDRESS**

\_\_\_\_\_  
**TELEPHONE**

\_\_\_\_\_  
**TELEPHONE**

**NAIC NUMBER:** \_\_\_\_\_

Licensed Florida Insurance Agent? Yes \_\_\_\_\_ No \_\_\_\_\_

License Number: \_\_\_\_\_

STATE OF \_\_\_\_\_)

COUNTY OF \_\_\_\_\_) SS

CITY OF \_\_\_\_\_)

Before me, a Notary Public duly commissioned, qualified and acting personally, appeared:

\_\_\_\_\_

to me well known, who being by me first duly sworn upon oath says that he is Attorney-in-Fact for

\_\_\_\_\_

as Surety, and that he has been authorized by said Surety to execute the foregoing Bid Bond on behalf of the Principal (Contractor) named therein in favor of the owner.

Subscribed and sworn to before me this the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
Notary Public

\_\_\_\_\_  
(Print, Type or Stamp Commissioned Name of Notary Public)

Personally Known \_\_\_\_\_ or Produced Identification \_\_\_\_\_

Type of Identification: \_\_\_\_\_

**In accordance with Part C, Section 19 and Part F Article 8 of the Invitation for Bids, if applicable, list the Lead Surety.**

\_\_\_\_\_  
LEAD SURETY

\_\_\_\_\_  
AGENT FOR SURETY

\_\_\_\_\_  
BY:

\_\_\_\_\_  
Signature

\_\_\_\_\_  
SURETY ADDRESS:

\_\_\_\_\_  
AGENCY ADDRESS:

\_\_\_\_\_  
PHONE

\_\_\_\_\_  
PHONE

\_\_\_\_\_  
PHONE

\_\_\_\_\_  
PHONE

**BOARD OF COUNTY COMMISSIONERS  
ORANGE COUNTY, FLORIDA  
UNIT PRICE CONSTRUCTION CONTRACT**

**CONTRACT:**

Made between the Board of County Commissioners, Orange County, Florida (hereinafter called County), represented by the Manager of the Procurement Division executing this Contract, and:

>

**Federal Identification Number: >**

A Corporation formed under the laws of the State of Florida, hereinafter called Contractor.

The Contractor shall perform all the Work required by the Contract Documents for the proper execution and completion of **SADLER ROAD & U.S. 441 INTERSECTION IMPROVEMENTS PROJECT FPID: 441400-1-58-01 FAN: D518-087-B** in full accordance with the drawings and as elaborated in the specifications of **Invitation for Bids No. Y19-701-CH** which is made a part of this Contract as completely as if set forth herein.

I

**AMOUNT OF CONTRACT:**

The County shall pay the Contractor in current funds, and in accordance with the progress payment schedule as stated herein, for the performance of the Work, subject to additions and deductions by Change Order as provided in the Contract Documents, the Estimated Contract Amount of >(\$>) at the unit prices set forth in the Invitation for Bids Official Bid Form, Part D.

**MAXIMUM CONTRACT AMOUNT:**

The Contractor shall provide written notification to the County's Project Manager when 90% of the total contract amount has been reached. The Contractor shall not proceed beyond 100% of the total contract amount unless duly authorized by a written change order.

**ESTIMATED QUANTITIES:**

This Contract is based on estimated quantities. The contractor shall only be paid for materials installed in the work in accordance with the applicable unit prices for the specific work element (line item). No payment shall be made for excess materials delivered to the jobsite and not incorporated into the work. Therefore, it shall be the

contractor's responsibility to determine the quantities of materials necessary to perform the project to its completion.

**II**  
**ASBESTOS FREE MATERIALS:**

Project is to be constructed with asbestos free materials. A written, notarized statement on company letterhead is to be submitted with the final payment request. Final payment shall be withheld until such statement is submitted. Contractor shall agree that if materials containing asbestos are subsequently discovered at any future time to have been included in the construction done by the Contractor or any of its Subcontractors or agents and were not specified in the design or required by the Contract document, Contractor shall be liable for all costs related to the abatement of such asbestos and damages or claims against the County.

**III**  
**ADMINISTRATIVE DATA:**

Progress Payments: Based upon Applications for Payment submitted to the Project Manager by the Contractor and Certificates for Payment issued by the Project Manager the County shall make progress payments on account of the Contract Amount to the Contractor as provided in the Contract Documents as follows:

Not later than 30 days following approval of an application for Payment, ninety percent (90%) of the portion of the Contract Amount properly allocable to labor, materials and equipment incorporated in the Work and ninety percent (90%) of the portion of the Contract Amount properly allocable to materials and equipment suitably stored at the site or at some other location agreed upon in writing, for the period covered by the application for payment, less the aggregate of previous payments made by the Owner.

When the completion of the Work ascertained as payable exceeds fifty percent (50%) of the total contract amount the retainage percentage withheld shall be reduced to 5%. Upon Final completion of the entire Work, a sum sufficient to increase the total payments to one hundred percent (100%) of the Contract Amount, less such amounts as the Owner shall determine for all incomplete work and unsettled claims as provided in the Contract Documents.

Should the Contractor fail to substantially complete all Work under this Contract and make the project available for beneficial use on or before the date stipulated for Substantial Completion (or such later date as may result from extension of time granted by County), he shall pay and/or the County may retain from the compensation otherwise to be paid to the Contractor, as liquidated damages, the sum of **\$1,241.00** for each consecutive calendar day that terms of the Contract remain unfulfilled beyond date allowed by the Contract, which sum is agreed upon as a reasonable and proper measure of damages which County will sustain per diem by failure of Contractor to complete work within time as stipulated; it being recognized by County and Contractor that the injury to County which could result from a failure of Contractor to complete on schedule is uncertain and cannot be computed exactly. In no way shall costs for liquidated damages be construed as a penalty on the Contractor. For each consecutive

calendar day that the work remains incomplete after the date established for Final Completion, the County will retain from the compensation otherwise to be paid to the Contractor the sum of **\$1,241.00**. This amount is the mutually agreed upon minimum measure of damages the County will sustain by failure of the Contractor to complete all remedial work, correct deficient work, clean up the project and other miscellaneous tasks as required to complete all Work specified and this amount of liquidated damages is in addition to the liquidated damages prescribed above for failure to timely achieve Substantial Completion.

**IV**  
**CONTRACT DOCUMENTS:**

This Contract entered into this date by the Board of County Commissioners hereinafter called the County, represented by the Manager of the Procurement Division executing this Contract and the individual, partnership or corporation named above, hereinafter called the Contractor. Witnesseth that the parties hereto do mutually agree as follows:

The Contractor shall furnish all labor, equipment and materials and perform the Work described for the amount stated above in strict accordance with the General Conditions, Supplementary Conditions/Special Provisions, Plans and Specifications and other Contract Documents, all of which are made a part hereof and designated as follows:

- a. Orange County Invitation for Bids/Project Manual, **IFB No. Y19-701-CH dated June 6, 2019**, (which contains the Invitation for Bids, Notice, Instruction to Bidders, Bid Form and Attachments, this Contract, General Conditions, Supplementary Conditions / Special Provisions, and Specifications);
- b. Drawings bearing the title "**Construction Plans, SADLER ROAD & U.S. 441 INTERSECTION IMPROVEMENTS PROJECT FPID: 441400-1-58-01 FAN: D518-087-B**".
- c. Addendum No.> dated >;
- d. >'s Bid Proposal dated **July 11, 2019**;
- e. Payment/Performance Bond;
- f. Certificates of Insurance;

**V**  
**PRIORITY OF DOCUMENTS:**

The order of precedence of items and documents is as follows:

Construction Contract  
Permits  
Supplemental Conditions/Special Provisions



General Conditions  
Specifications/Technical Provisions  
Drawings/Plans  
Road Design, Structures, and Traffic Operations Standards (If applicable)  
Florida Department of Transportation Standard Specifications for Road and Bridge  
Construction (If applicable)  
Bid Proposal  
Instructions to Bidders

## **VI**

### **TIME OF COMMENCEMENT AND FINAL COMPLETION:**

- a. Work to commence within fourteen (14) days of Official Notice to Proceed date and shall be completed, unless amended by written Change Order or Amendment executed by both parties to this Contract.
- b. Substantial Completion of the Work shall be achieved not later than 110 consecutive calendar days from date of Official Notice to Proceed.
- c. Final Completion of the Work shall be achieved not later than **140** consecutive calendar days from date of Official Notice to Proceed.

## **VII**

### **DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION:**

By executing this agreement the Bidder affirms that it is in compliance with the requirements of 2 C.F.R. Part 180 and that neither it, its principals, nor its subcontractors are presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

## **VIII**

### **COMPLIANCE WITH DISADVANTAGE BUSINESS ENTERPRISE:**

Refer to Volume III, LAP Division I Specifications, Wage Rates and FDOT Forms.

**IX**  
**MISCELLANEOUS PROVISIONS:**

- a. Terms used in this Contract that are defined in the General Conditions shall have the meanings designated in those conditions.
- b. No price adjustments shall be made on this contract to the bid price of any products or materials including but not limited to gasoline, diesel or other fuels, and bituminous materials, including asphalt due to fluctuations in market prices, changes in suppliers or any other reason.
- c. County and Contractor each binds himself, his partners, successors, assigns and legal representatives to the other party hereto, his partners, successors, assigns, and legal representatives in respect to all covenants, agreements, and obligations contained in the Contract Documents.
- d. The laws of the State of Florida shall govern this Contract. Any and all legal action necessary to enforce the provisions of this Contract will be held in Orange County, Florida. Venue for any litigation involving this Contract shall be the Ninth Circuit Court in and for Orange County, Florida.
- e. No member, officer or employee of the County or of the locality during his tenure or for 2 years thereafter shall have any interest, direct or indirect, in this contract or the proceeds thereof. The awarded contractor shall also insert the above provision in each of his/her subcontracts.
- f. The awarded contractor shall comply with and incorporate in all subcontracts all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401-7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. 1251-1387).
- g. The parties agree to comply with s.20.055(5), Florida Statutes, and to incorporate in all subcontracts the obligation to comply with s.20.055(5), Florida Statutes.

**X**  
**FORCE MAJEURE - EMERGENCY RESPONSE**  
**CONTRACTS**

1. The Contractor shall not be held responsible for any delay and/or failure in performance of any part of this contract to the extent such delay or failure is caused by explosion, war, embargo, government requirement, civil or military authority, act of God, or other similar causes beyond the Contractor's control so long as the Contractor's delay is not caused by the Contractor's own fault or negligence. That notwithstanding, the Contractor shall notify the County in writing within \_\_\_\_\_ (#) hours after the beginning of any such cause that would affect its performance hereunder and the County reserves the right to request additional information that supports the validity of the Contractor's Force Majeure claim. Failure to notify the County in a timely manner of any claim of Force Majeure made pursuant to this section is cause for termination of this contract.
  
2. If the Contractor's performance is delayed pursuant to this section for a period exceeding \_\_\_\_\_ (#) calendar days from the date the County receives the required Force Majeure notice, the County shall have the right to terminate this contract thereafter and shall only be liable to the Contractor for any work performed and validated (if required for payment hereunder) prior to the date of the County's contract termination.
  
3. If the Contractor's performance is delayed pursuant to this section, the County may, upon written request of the Contractor, agree to equitably adjust the provisions of this contract, including price, performance, and delivery, as may be affected by such delay. However, this provision shall not be interpreted to limit the County's right to terminate for convenience.

**XI FHWA FORM 1273**

FHWA FORM 1273 is hereby incorporated into the Contract.

**BOARD OF COUNTY COMMISSIONERS  
ORANGE COUNTY, FLORIDA**

**BY** \_\_\_\_\_ **BY** \_\_\_\_\_  
Carrie Mathes, MPA, CFM, CPPO, C.P.M. **Signature**  
CPPB, APP, Manager, Procurement Division

**DATE** \_\_\_\_\_ **Type or Print Name** \_\_\_\_\_  
(For County use only)

**Corporate  
Seal**

\_\_\_\_\_  
**(COMPANY NAME)** **(DATE)**

BY: \_\_\_\_\_ (Authorized Signatory)  
\_\_\_\_\_  
(Name)  
\_\_\_\_\_  
(Title)

**Corporate  
Seal**

**REQUIRED CONTRACT PROVISIONS  
FEDERAL-AID CONSTRUCTION CONTRACTS**

- I. General
- II. Nondiscrimination
- III. Nonsegregated Facilities
- IV. Davis-Bacon and Related Act Provisions
- V. Contract Work Hours and Safety Standards Act Provisions
- VI. Subletting or Assigning the Contract
- VII. Safety: Accident Prevention
- VIII. False Statements Concerning Highway Projects
- IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
- X. Compliance with Governmentwide Suspension and Debarment Requirements
- XI. Certification Regarding Use of Contract Funds for Lobbying

**ATTACHMENTS**

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

**I. GENERAL**

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under Title 23 (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services). The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in bid proposal or request for proposal documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors.

**II. NONDISCRIMINATION**

The provisions of this section related to 23 CFR Part 230 are applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR 60, 29 CFR 1625-1627, Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding \$10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR 60, and 29 CFR 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), and Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR 230, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

**1. Equal Employment Opportunity:** Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630, 29 CFR 1625-1627, 41 CFR 60 and 49 CFR 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under

this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract.

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training."

**2. EEO Officer:** The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

**3. Dissemination of Policy:** All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

**4. Recruitment:** When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

**5. Personnel Actions:** Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

**6. Training and Promotion:**

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are

applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

**7. Unions:** If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

**8. Reasonable Accommodation for Applicants / Employees with Disabilities:** The contractor must be familiar

with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established there under. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

**9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment:** The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors and suppliers and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

#### **10. Assurance Required by 49 CFR 26.13(b):**

a. The requirements of 49 CFR Part 26 and the State DOT's U.S. DOT-approved DBE program are incorporated by reference.

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

**11. Records and Reports:** The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women;

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on [Form FHWA-1391](#). The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor



will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

### III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more.

The contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location, under the contractor's control, where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

### IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding \$2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size). The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. Contracting agencies may elect to apply these requirements to other projects.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 "Contract provisions and related matters" with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

#### 1. Minimum wages

a. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions

of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b. (1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is utilized in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(3) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. The Wage and Hour Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or



will notify the contracting officer within the 30-day period that additional time is necessary.

(4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

c. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

d. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program. Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

## 2. Withholding

The contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract, or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the contracting agency may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

## 3. Payrolls and basic records

a. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-

Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

b.(1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at <http://www.dol.gov/esa/whd/forms/wh347instr.htm> or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency..

(2) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(i) That the payroll for the payroll period contains the information required to be provided under §5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under §5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;

(ii) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(2) of this section.

(4) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

c. The contractor or subcontractor shall make the records required under paragraph 3.a. of this section available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the FHWA may, after written notice to the contractor, the contracting agency or the State DOT, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

#### 4. Apprentices and trainees

##### a. Apprentices (programs of the USDOL).

Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly

rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

##### b. Trainees (programs of the USDOL).

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration.

The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration.

Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

d. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

**5. Compliance with Copeland Act requirements.** The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

**6. Subcontracts.** The contractor or subcontractor shall insert Form FHWA-1273 in any subcontracts and also require the subcontractors to include Form FHWA-1273 in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

**7. Contract termination: debarment.** A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

**8. Compliance with Davis-Bacon and Related Act requirements.** All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

**9. Disputes concerning labor standards.** Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

**10. Certification of eligibility.**

a. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

c. The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

**V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT**

The following clauses apply to any Federal-aid construction contract in an amount in excess of \$100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

**1. Overtime requirements.** No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

**2. Violation; liability for unpaid wages; liquidated damages.** In the event of any violation of the clause set forth in paragraph (1.) of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1.) of this section, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1.) of this section.

**3. Withholding for unpaid wages and liquidated damages.** The FHWA or the contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2.) of this section.

**4. Subcontracts.** The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1.) through (4.) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1.) through (4.) of this section.

## VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term "perform work with its own organization" refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions:

(1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;

(2) the prime contractor remains responsible for the quality of the work of the leased employees;

(3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and

(4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is

evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

5. The 30% self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements.

## VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C.3704).

## VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:



"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

## **IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT**

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

By submission of this bid/proposal or the execution of this contract, or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any person who is or will be utilized in the performance of this contract is not prohibited from receiving an award due to a violation of Section 508 of the Clean Water Act or Section 306 of the Clean Air Act.

2. That the contractor agrees to include or cause to be included the requirements of paragraph (1) of this Section X in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements.

## **X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION**

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost \$25,000 or more – as defined in 2 CFR Parts 180 and 1200.

### **1. Instructions for Certification – First Tier Participants:**

a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this

covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default.

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

\* \* \* \* \*

## **2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:**

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

(1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency;

(2) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification; and

(4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

### **2. Instructions for Certification - Lower Tier Participants:**

(Applicable to all subcontracts, purchase orders and other lower tier transactions requiring prior FHWA approval or estimated to cost \$25,000 or more - 2 CFR Parts 180 and 1200)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which

this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the

department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

\* \* \* \* \*

**Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:**

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

\* \* \* \* \*

**XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING**

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000 (49 CFR 20).

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

**ATTACHMENT A - EMPLOYMENT AND MATERIALS PREFERENCE FOR APPALACHIAN DEVELOPMENT HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS ROAD CONTRACTS**

This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

a. To the extent that qualified persons regularly residing in the area are not available.

b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.

c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.



**PERFORMANCE BOND**

**BOND NUMBER** \_\_\_\_\_

**KNOW ALL MEN BY THESE PRESENTS** that

**Name of Contractor** \_\_\_\_\_

**Address** \_\_\_\_\_

**Phone Number** \_\_\_\_\_

**Corporation, Partnership or Individual** \_\_\_\_\_

hereinafter referred to as the Contractor, as Principal, and

**Name of Surety** \_\_\_\_\_

**Address** \_\_\_\_\_

**Phone Number** \_\_\_\_\_

hereinafter called SURETY, as SURETY, are held and firmly bound unto Orange County, 400 East South Street, Orlando, FL 32801, (407)836-5635 a Political Subdivision of the State of Florida as Obligee, hereinafter referred to as Owner, in the full and just sum of \$ \_\_\_\_\_, lawful money of the United States of America, to the payment of which sum, well and truly to be made, the Contractor and SURETY bind themselves, their representatives, and each of their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

**WHEREAS**, the Contractor has entered into **Contract No. Y19-701** with the "County", also referred to herein as the OWNER, for the project entitled: **SADLER ROAD & U.S. 441 INTERSECTION IMPROVEMENTS PROJECT FPID: 441400-1-58-01 FAN: D518-087-B, Sadler Road and U.S. 441 Intersection in Orange County, Florida** with conditions and provisions as are further described in the aforementioned Contract, which Contract is by reference made a part hereof for the purpose of explaining this bond.

General description of the Work: **This project includes construction of an eastbound right turn lane on Sadler Road onto southbound US 441 for a total length approximately 0.155 miles. Roadway improvements include road widening, milling and resurfacing with asphaltic concrete structural course and friction course, Type F concrete curb and gutter, type B stabilization, soil cement base, clearing and grubbing, excavation, embankment and grading, groundwater treatment and disposal, a 6-inch thick concrete driveway, 4-inch thick concrete sidewalk, sod, pipe handrail, mailbox relocation, and signing and pavement markings. Signalization work includes involving loop detector assembly and modification of traffic controller assembly. Drainage improvements include concrete pipe culvert, mitered end sections, concrete ditch pavement, curb inlets, ditch bottom inlets, closed flume inlets, and ditch regrading. All pedestrian features are to adhere to current ADA standards. Local funds will be used for Indemnification. Utility coordination is required. Coordination with will be needed with FM 437333-1 US 441 Resurfacing from Jones Avenue to Wadsworth Avenue.**

**NOW, THEREFORE**, the condition of this obligation is such that if Contractor shall fully, promptly and faithfully perform said Contract and all obligations thereunder, including all obligations imposed by the Contract documents (which includes the Notice to Bidders, Instruction to Bidders, Proposal and Bid Form, General and Supplementary Conditions, Detail Specifications, Form(s) of Contract Bond(s), Plans and Specifications and such amendments thereof as may be made as provided for therein), then this obligation shall be void; otherwise it shall remain in full force and effect.

1. The undersigned shall indemnify and save harmless said Owner against and from all costs, expenses and damages, including litigation costs and attorney's fees arising out of, or in connection with the neglect, default or want of care or skill, including patent infringement on the part of said Contractor, his agents, servants or employees in the execution or performance of said Contract.

**The applicable provisions of Section 255.05 and 713.01 Florida Statutes apply to this bond.**

2. Whenever Contractor shall be, and declared by Owner to be in default under the Contract, the Owner having performed Owner's obligations thereunder, the SURETY may promptly remedy the default or shall promptly:
  - A. Complete the Contract in accordance with its terms and conditions; or
  - B. Obtain a bid or bids for completing the Contract in accordance with its terms and conditions, and upon determination by SURETY of the lowest responsible bidder, or, if the Owner elects, upon determination by the Owner and the SURETY jointly of the lowest responsible bidder, arrange for a Contract between such bidder and the Owner. SURETY shall make available as the work progresses (even though there should be a default or a succession of defaults under the Contract or Contracts of completion arranged under this Paragraph) sufficient funds to pay the costs of completion, including other costs and damages for which the SURETY may be liable hereunder, the amount set forth in the first paragraph hereof.
3. Any changes in or under the Contract Documents and compliance or noncompliance with any formalities connected with the Contract or the changes shall not affect SURETY'S obligation under this bond. Any increase in the total Contract amount as authorized by the Owner shall accordingly increase the SURETY'S obligation by the same dollar amount of said increase. The Principal shall be responsible for notification to SURETY of all such changes.
4. The undersigned expressly acknowledges its obligations and liabilities for liquidated damages suffered by the Owner under the provisions of the Contract Documents.
5. The undersigned, covenant and agree that no change, extension of time, exercise of options for Contract renewals, changes to Contract amounts, alterations or additions to the terms of the Contract or the work to be performed thereunder, or the specifications accompanying the same shall in any way affect their obligation on this bond, and the SURETY does hereby expressly waive notice of any such change, extension of time, change to Contract amount, alteration, or addition. Moreover, no alterations or additions to this bond form shall be binding unless specifically agreed to in writing by the parties.
6. The Contractor shall save the Owner harmless from any and all damages, expenses and costs which may arise by virtue of any defects in said work or materials within a period of one (1) year from the date of Final Completion of the Project.

Signed and sealed this the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

CONTRACTOR, AS PRINCIPAL

WITNESS:

\_\_\_\_\_ BY: \_\_\_\_\_  
 Firm Name  
 Signature  
 \_\_\_\_\_  
 Type Name and Title

SURETY

AGENT FOR SURETY

NAIC Number: \_\_\_\_\_

Signature

BY: \_\_\_\_\_ AGENCY ADDRESS: \_\_\_\_\_

SURETY ADDRESS: \_\_\_\_\_

\_\_\_\_\_ PHONE \_\_\_\_\_

Licensed Florida Insurance Agent? Yes \_\_\_\_\_ No \_\_\_\_\_

License Number: \_\_\_\_\_

STATE OF \_\_\_\_\_)

COUNTY OF \_\_\_\_\_) SS

CITY OF \_\_\_\_\_)

Before me, a Notary Public duly commissioned, qualified and acting personally, appeared:

to me well known, who being by me first duly sworn upon oath says that he is Attorney-in-Fact for

as Surety, and that he has been authorized by said Surety to execute the foregoing Performance Bond on behalf of the Principal (Contractor) named therein in favor of the owner.

Subscribed and sworn to before me this the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

Notary Public

(Print, Type or Stamp Commissioned Name of Notary Public)

Personally Known \_\_\_\_\_ or Produced Identification \_\_\_\_\_

Identification: \_\_\_\_\_ Type of \_\_\_\_\_

In accordance with Part C, Section 19 and Part F Article 8 of the Contract, if applicable, list the Lead Surety.

LEAD SURETY \_\_\_\_\_

AGENT FOR SURETY \_\_\_\_\_

Signature

BY: \_\_\_\_\_

AGENCY ADDRESS: \_\_\_\_\_

SURETY ADDRESS: \_\_\_\_\_

PHONE \_\_\_\_\_

**P A Y M E N T B O N D**

**BOND NUMBER** \_\_\_\_\_

**KNOW ALL MEN BY THESE PRESENTS** that

**Name of Contractor** \_\_\_\_\_

**Address** \_\_\_\_\_

**Phone Number** \_\_\_\_\_

**Corporation, Partnership or Individual** \_\_\_\_\_

Thereinafter called Contractor, as Principal, and

**Name and Address of Surety** \_\_\_\_\_

hereinafter called SURETY, as SURETY, are held and firmly bound unto Orange County, 400 East South Street, Orlando, FL 32801, (407) 836-5635 a Political Subdivision of the State of Florida as Obligee, in the full and just sum of \$ \_\_\_\_\_, lawful money of the United States of America, to the payment of which sum, well and truly to be made, the Contractor and SURETY bind themselves, their representatives, and each of their heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

**WHEREAS**, the Contractor has entered into **Contract No. Y19-701** with the "County", also referred to herein as the OWNER, for the project entitled: **SADLER ROAD & U.S. 441 INTERSECTION IMPROVEMENTS PROJECT FPID: 441400-1-58-01 FAN: D518-087-B, Sadler Road and U.S. 441 Intersection in Orange County, Florida** with conditions and provisions as are further described in the aforementioned Contract, which Contract is by reference made a part hereof for the purpose of explaining this bond.

**General description of the Work:** This project includes construction of an eastbound right turn lane on Sadler Road onto southbound US 441 for a total length approximately 0.155 miles. Roadway improvements include road widening, milling and resurfacing with asphaltic concrete structural course and friction course, Type F concrete curb and gutter, type B stabilization, soil cement base, clearing and grubbing, excavation, embankment and grading, groundwater treatment and disposal, a 6-inch thick concrete driveway, 4-inch thick concrete sidewalk, sod, pipe handrail, mailbox relocation, and signing and pavement markings. Signalization work includes involving loop detector assembly and modification of traffic controller assembly. Drainage improvements include concrete pipe culvert, mitered end sections, concrete ditch pavement, curb inlets, ditch bottom inlets, closed flume inlets, and ditch regrading. All pedestrian features are to adhere to current ADA standards. Utility coordination is required. Coordination will be needed with FM 437333-1 US 441 Resurfacing from Jones Avenue to Wadsworth Avenue.

**NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS** such that if Contractor shall promptly make payments to all claimants for any and all labor and material used or reasonably required for use or furnished in connection with the performance of said Contract, and shall perform all other covenants and obligations of this bond, then this obligation shall be void; otherwise it shall remain in full force and effect.

1. The undersigned shall promptly make payment to all persons supplying services, labor, material or supplies used directly or indirectly by said Contractor, or any subcontractor(s) or sub-subcontractor(s), in the prosecution of the work provided for in said Contract.
2. Subject to the Owner's priority, claimants covered by Section 713.01 of the Florida Statutes shall have a direct right of action against the Principal and SURETY under this obligation, after written notice of the performance of labor or delivery of materials or supplies, and non-payment therefore. Any claimant who seeks to recover against the Principal or SURETY under this obligation must also satisfy the notice requirement and time limitations of Section 255.05 of the Florida Statutes, as amended.
3. The undersigned, covenant and agree that no change, extension of time, exercise of options for Contract renewals, change to Contract amounts, alterations or additions to terms of the Contract or the work to be performed thereunder, or the specifications accompanying the same shall in any way affect their obligation on this bond and the SURETY does hereby expressly waive notice of any such change, extension of time, exercise of options for Contract renewal, changes to Contract amount, alternations or additions. Moreover, no alterations or additions to this bond form shall be binding unless specifically agreed to in writing by the parties.

**The applicable provisions of Sections 255.05 and Florida Statutes apply to this bond.**

4. Any changes in or under the Contract Documents and compliance or noncompliance with any formalities connected with the Contract or the changes shall not affect SURETY'S obligation under this bond. Any increase in the total Contract amount as authorized by the Owner shall accordingly increase the SURETY'S obligation by the same dollar amount of said increase. The Principal shall be responsible for notification to SURETY of all such changes.

Signed and sealed this the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_

CONTRACTOR, AS PRINCIPAL:

WITNESS:

\_\_\_\_\_  
Firm Name

\_\_\_\_\_  
Signature

BY: \_\_\_\_\_  
Signature

\_\_\_\_\_  
Type Name and Title

SURETY: \_\_\_\_\_

AGENT FOR SURETY: \_\_\_\_\_

NAIC Number: \_\_\_\_\_

BY: \_\_\_\_\_  
Signature

BY: \_\_\_\_\_

AGENCY ADDRESS: \_\_\_\_\_

SURETY ADDRESS \_\_\_\_\_

PHONE NO. \_\_\_\_\_

Licensed Florida Insurance Agent? Yes \_\_\_\_\_ No \_\_\_\_\_

License Number: \_\_\_\_\_

STATE OF \_\_\_\_\_)

COUNTY OF \_\_\_\_\_) SS

CITY OF \_\_\_\_\_)

---

Before me, a Notary Public duly commissioned, qualified and acting personally, appeared:

\_\_\_\_\_ to me well known, who being by me first duly sworn upon oath says that he is Attorney-in-Fact for \_\_\_\_\_

as Surety, and that he has been authorized by said Surety to execute the foregoing Payment Bond on behalf of the Principal (Contractor) named therein favor of the owner.

Subscribed and sworn to before me this the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

\_\_\_\_\_  
Notary Public

\_\_\_\_\_  
(Print, Type or Stamp Commissioned Name of Notary Public)

Personally Known \_\_\_\_\_ or Produced Identification (Type) \_\_\_\_\_

**In accordance with Part C, Section 19 and Part F Article 8 of the Contract, if applicable, list the Lead Surety.**

LEAD SURETY _____	AGENT FOR SURETY _____
_____	Signature _____
BY: _____	AGENCY ADDRESS: _____
SURETY ADDRESS: _____	_____
_____	PHONE _____

**(THIS FORM MUST BE UTILIZED IN ALL FINAL PAY APPLICATIONS)**

**FINAL RELEASE OF LIEN**

**KNOW ALL MEN BY THESE PRESENTS**, that for and in consideration of the sum of monies, set out in the accompanying Estimate Statement No. \_\_\_\_\_, final, which quantity, the receipt of which is hereby acknowledged, is accepted as full and complete compensation for all work done, materials furnished and damages or claims arising under Orange County Contract No. Y19-701, entitled:

SADLER ROAD & U.S. 441 INTERSECTION IMPROVEMENTS PROJECT FPID:  
441400-1-58-01 FAN: D518-087-B

By:

\_\_\_\_\_

Contractor

(SEAL)

STATE OF \_\_\_\_\_

COUNTY OF \_\_\_\_\_

The foregoing instrument was acknowledged before this \_\_\_\_\_ day of

\_\_\_\_\_ 20\_\_\_\_\_, by \_\_\_\_\_.

Personally Known \_\_\_\_\_ OR Produced Identification \_\_\_\_\_

Type of identification Produced \_\_\_\_\_

**CHANGE ORDER REQUEST  
PURCHASE ORDER / DELIVERY ORDER / CONTRACT**

\*Vendor Code: \_\_\_\_\_ \*Vendor Name: \_\_\_\_\_ \*Date: \_\_\_\_\_

\*Change Order Request No.: \_\_\_\_\_ \*Document No.: \_\_\_\_\_ Contract No. \_\_\_\_\_

\*Department: \_\_\_\_\_ \*Contact/Phone No.: \_\_\_\_\_

**ACCOUNTING LINE CHANGE ONLY:**

Accounting Line From: \_\_\_\_\_ Amount: \_\_\_\_\_

Accounting Line To: \_\_\_\_\_ Amount: \_\_\_\_\_

**COMMODITY LINE NUMBER ADD:**

Comm. Line No.: \_\_\_\_\_ Commodity Code: \_\_\_\_\_ Quantity: \_\_\_\_\_ Unit of Measure: \_\_\_\_\_

Unit Cost: \_\_\_\_\_ Description: \_\_\_\_\_ MA Line No. \_\_\_\_\_

Accounting Line: \_\_\_\_\_ Amount: \_\_\_\_\_

**COMMODITY LINE NUMBER INCREASE / DECREASE / DELETE:**

Comm. Line No. \_\_\_\_\_ Increase Qty By: \_\_\_\_\_ Decrease Qty By: \_\_\_\_\_ Increase Unit Cost By: \_\_\_\_\_

Decrease Unit Cost By: \_\_\_\_\_ Accounting Line: \_\_\_\_\_

Delete: \_\_\_\_\_ (check only if you want to delete this line number).

**CANCELLATION:**

\_\_\_\_\_ Please cancel Purchase Order / Delivery Order

Original sent to vendor: \_\_\_\_\_ Yes \_\_\_\_\_ No

**\*JUSTIFICATION (Required for all transactions):**

\_\_\_\_\_

Enter Retainage for line number(s) \_\_\_\_\_ in the amount of \_\_\_\_\_ %

*Original PO/DO/Contract Award/Encumbrance <u>circle one</u>	Contract Amount	Encumbered/De-Encumbered Amount
	\$ _____	\$ _____
*Net Dollars for Previous Change Orders (Addition/Subtraction) <u>circle one</u>	\$ _____	\$ _____
*Net Dollars for This Change Order (Addition/Subtraction) <u>circle one</u>	\$ _____	\$ _____
*Total Dollars	\$ _____	\$ _____

By signing this agreement, the Contractor hereby releases the County, its agents, and employees from any and all liabilities under this contract for further equitable adjustments and/or claims associated with this change order.

\*Vendor/Contractor Authorization: \_\_\_\_\_ Date: \_\_\_\_\_

\*Departmental Approval: \_\_\_\_\_ Date: \_\_\_\_\_

\*Purchasing & Contracts Approval: \_\_\_\_\_ Date: \_\_\_\_\_

<p><b><u>For Purchasing Use Only</u></b> Track Change Order: <u>  </u> Yes <u>  </u> No Change Award Amount to: \$ _____</p> <p>Add the following text to the PO/DO: _____</p>
--



**CHANGE ORDER REQUEST CONTINUATION SHEET Document No.:** \_\_\_\_\_  
**PURCHASE ORDER / DELIVERY ORDER / CONTRACT**

**ACCOUNTING LINE CHANGE ONLY:**

Accounting Line From: \_\_\_\_\_ Amount: \_\_\_\_\_  
Accounting Line To: \_\_\_\_\_ Amount: \_\_\_\_\_  
Accounting Line Add: \_\_\_\_\_ Amount: \_\_\_\_\_  
Accounting Line From: \_\_\_\_\_ Amount: \_\_\_\_\_  
Accounting Line To: \_\_\_\_\_ Amount: \_\_\_\_\_  
Accounting Line Add: \_\_\_\_\_ Amount: \_\_\_\_\_

**COMMODITY LINE NUMBER ADD:**

Comm. Line No.: \_\_\_\_\_ Commodity Code: \_\_\_\_\_ Quantity: \_\_\_\_\_ Unit of Measure: \_\_\_\_\_  
Unit Cost: \_\_\_\_\_ Description: \_\_\_\_\_ MA Line No. \_\_\_\_\_  
Accounting Line: \_\_\_\_\_ Amount: \_\_\_\_\_  
Comm. Line No.: \_\_\_\_\_ Commodity Code: \_\_\_\_\_ Quantity: \_\_\_\_\_ Unit of Measure: \_\_\_\_\_  
Unit Cost: \_\_\_\_\_ Description: \_\_\_\_\_ MA Line No. \_\_\_\_\_  
Accounting Line: \_\_\_\_\_ Amount: \_\_\_\_\_  
Comm. Line No.: \_\_\_\_\_ Commodity Code: \_\_\_\_\_ Quantity: \_\_\_\_\_ Unit of Measure: \_\_\_\_\_  
Unit Cost: \_\_\_\_\_ Description: \_\_\_\_\_ MA Line No. \_\_\_\_\_  
Accounting Line: \_\_\_\_\_ Amount: \_\_\_\_\_

**COMMODITY LINE NUMBER INCREASE / DECREASE / DELETE:**

Comm. Line No. \_\_\_\_ Increase Qty By: \_\_\_\_\_ Decrease Qty By: \_\_\_\_\_ Increase Unit Cost By: \_\_\_\_  
Decrease Unit Cost By: \_\_\_\_\_ Accounting Line: \_\_\_\_\_  
Delete: \_\_\_\_ (check only if you want to delete this line number).  
Comm. Line No. \_\_\_\_ Increase Qty By: \_\_\_\_\_ Decrease Qty By: \_\_\_\_\_ Increase Unit Cost By: \_\_\_\_  
Decrease Unit Cost By: \_\_\_\_\_ Accounting Line: \_\_\_\_\_  
Delete: \_\_\_\_ (check only if you want to delete this line number).  
Comm. Line No. \_\_\_\_ Increase Qty By: \_\_\_\_\_ Decrease Qty By: \_\_\_\_\_ Increase Unit Cost By: \_\_\_\_  
Decrease Unit Cost By: \_\_\_\_\_ Accounting Line: \_\_\_\_\_  
Delete: \_\_\_\_ (check only if you want to delete this line number).

*Departmental Approval: _____	Date: _____
Purchasing & Contracts Approval: _____	Date: _____

## CONSENT OF SURETY AND INCREASE OF PENALTY

**BOND NUMBER** \_\_\_\_\_

<b>1.CONTRACT#</b>	<b>2.MODIFICATION#</b>	<b>3.DATED</b>
<b>4.The Surety consents to the foregoing Contract notification and agrees that its bond or bonds shall apply and extend to the Contract as modified or amended. The principal and Surety further agree that on or after the execution of this consent, the penalty of the performance bond or bonds is increased by _____dollars (\$ _____) and the penalty of the payment bond or bonds is increased by _____dollars (\$ _____). However, the increase of the liability of each co-Surety resulting from this consent shall not exceed the sums shown below.</b>		
<b>5.NAME OF SURETY</b>	<b>6.INCREASE IN LIABILITYLIMIT UNDER PERFORMANCE BOND</b>	<b>7.INCREASE IN LIABILITYLIMIT UNDER PAYMENT BOND</b>
<b>a. SURETY ADDRESS</b>	<b>b. SIGNATURE</b>  <b>c. TYPED NAME AND TITLE</b>  <b>d. DATE THIS CONSENT EXECUTED</b>	

SURETY

FLORIDA RESIDENT AGENT FOR SURETY

\_\_\_\_\_  
Signature

BY: \_\_\_\_\_ AGENCY

ADDRESS: \_\_\_\_\_

SURETY ADDRESS: \_\_\_\_\_

\_\_\_\_\_ PHONE \_\_\_\_\_

Signature

\_\_\_\_\_  
Type Name and Title

\_\_\_\_\_  
Business Address

\_\_\_\_\_  
License Number

\_\_\_\_\_  
Telephone Number (Include Area Code)

STATE OF \_\_\_\_\_)

COUNTY OF \_\_\_\_\_) SS

CITY OF \_\_\_\_\_)

Before me, a Notary Public duly commissioned, qualified and acting personally, appeared:

\_\_\_\_\_

to me well known, who being by me first duly sworn upon oath says that he is Attorney-in-Fact for

\_\_\_\_\_

as Surety, and that he has been authorized by said Surety to execute the foregoing Performance Bond on behalf of the Principal (Contractor) named therein in favor of the owner.

Subscribed and sworn to before me this the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
Notary Public

\_\_\_\_\_  
(Print, Type or Stamp Commissioned Name of Notary Public)

Personally Known \_\_\_\_\_ or Produced Identification \_\_\_\_\_

## DRUG-FREE WORKPLACE FORM

The undersigned vendor, in accordance with Florida Statute 287.087 hereby certifies that \_\_\_\_\_ does:

Name of Business

1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
2. Informs employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, employee assistance programs and the penalties that may be imposed upon employees for drug abuse violations.
3. Gives each employee engaged in providing the commodities or contractual services that are under bid a copy of the statement specified in Paragraph 1.
4. In the statement specified in Paragraph 1, notifies the employees that, as a condition of working on the commodities or contractual services that are under bid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of Chapter 893 or of any controlled substance law of the United States or any State, for a violation occurring in the workplace no later than five (5) days such conviction.
5. Imposes a sanction on, or requires the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community, by any employee who is so convicted.
6. Makes a good faith effort to continue to maintain a drug-free workplace through implementation of Paragraphs 1 thru 5.

**As the person authorized to sign this statement, I certify that this firm complies fully with the above requirements.**

\_\_\_\_\_  
Bidder's Signature

\_\_\_\_\_  
Date

## PART F

### GENERAL CONDITIONS

#### **ARTICLE 1 - CONTRACT**

The Contract Documents are identified in the Contract, Part E. Titles, Subtitles, Headings, Running Headlines, Table of Contents, and Indexes are printed in the Contract Documents merely for convenience.

#### **ARTICLE 2 - DEFINITIONS**

The words and expressions (or pronouns used in their stead) defined in this Article shall, wherever they appear in the Contract Documents, be construed as follows unless a different meaning is clear from the context.

**"Addenda"** shall mean any additional Contract provisions issued in writing by the County prior to receipt of Bid.

**"Bid Proposal"** shall mean the offer or proposal of the Bidder submitted on the Official Bid Form and Attachments setting forth the prices for the Work to be performed.

**"Bidder"** shall mean any person, firm or corporation submitting a Bid for the Work.

**"Board of County Commissioners"** shall mean the Board of County Commissioners, Orange County, Florida, or their duly authorized representative(s).

**"Change Order"** shall mean a written order to the Contractor, signed by the County, authorizing an addition, deletion or revision in the Work, or an adjustment in the Contract Amount or the Contract Time issued after execution of the Contract.

**"Contract"** shall mean the written agreement between the County and the Contractor covering the Work to be performed; the Contract will be attached to and made a part of the Contract Documents.

**"Contractor"** shall mean successful bidder (and vice versa), whether a corporation, firm, individual or any combination thereof, and its (or their) successors, personal representatives, executors, administrators and assigns.

**"Contract Amount"** shall mean the total monies payable to the Contractor under the Contract Documents. The term "Contract Price" where used in the Contract Documents refers to the Contract Amount.

**"Contract Float"** shall mean the number of days that an activity or a sequence of activities does not necessarily have to start or end on the scheduled dates to maintain the schedule, or as a minimum, the number of days that an activity may be delayed from its early start date without delaying completion of the Work beyond the Contract Time for Substantial Completion or Final Acceptance.

**"Contract Time"** will mean the number of calendar days stated in the Agreement for the completion of the Work.

**"County"** shall mean the Board of County Commissioners, Orange County, Florida, or their duly authorized representative(s), for whom the Work is being performed.

**"Day "** shall mean one calendar day when used in the Contract Documents.

**"Defective Work"** shall mean (a) Work that is unsatisfactory, deficient or damaged, does not conform to the Contract Documents, or does not meet the requirements of any inspection, test or approval, or (b) Work associated with punch list items that the Contractor fails to complete within a reasonable time after issuance of the punch list by the Project Manager.

**"Drawings"** shall mean only those drawings specifically referred to as such in these documents or in any Addenda. Drawings issued after the execution of the Contract to explain further, to illustrate, or to show changes in the Work will be known as "Supplementary Drawings" and shall be binding upon the Contractor with the same force as the Drawings.

**"Final Acceptance"** shall mean acceptance of the Work by the County upon the expiration of the correction period required by the Contract Documents.

**"Final Completion"** shall mean acceptance of the Work by the County as evidenced by its signature upon Final Certificate of Completion and approval thereof by the Board of County Commissioners. The Final Certificate of Completion shall be signed only after the County has assured itself by tests, inspection or otherwise that all of the provisions of the Contract have been carried out to its satisfaction.

**"Notice"** shall mean written Notice. Notice shall be served upon the Contractor either personally or by leaving the said Notice at his residence or with his Agency in charge of the Work, or addressed to the Contractor at the residence or place of business given in the Bid and deposited in a postpaid wrapper in any post box regularly maintained by the United States Post Office.

**"Notice of Award"** shall mean the written notice of award of the Contract given by the County to the apparent successful Bidder.

**"Notice to Proceed"** shall mean the written notice given by the County to Contractor fixing the date the Contract Times will commence to run.

**"Professional"** shall mean the professional independent Architectural/Engineering firm designated to assist the County in the work by a prior agreement entered into by the County and the said firm. The terms "Engineer" and "Architect", where used in the Contract Documents, refer to the Professional.

**"Project"** shall mean the entire improvement of which this Contract forms a part.

**"Project Manager"** shall be the duly authorized representative of the County during the construction period.

**“Record Schedule”** shall mean the time table of predicted tasks, milestones, task durations, deadlines and the start and end dates of the Work indicated in a Progress Schedule accepted by the County and provided to the County prior to the first progress payment. County acceptance of a revised and/or updated Progress Schedule will result in a revised Record Schedule, if so noted in the County’s written acceptance, that will be used to evaluate progress and delays occurring after the acceptance of the revised Record Schedule.

**"Shop Drawings"** shall mean all drawings, diagrams, illustrations, brochures, schedules and other data which are prepared by the Contractor, a Subcontractor, a manufacturer, supplier or distributor and which illustrate the equipment, material and/or some portion of the Work.

**"Site"** shall mean the area upon or in which the Contractor’s operations are carried on and such other areas adjacent thereto as may be designated as such by the Project Manager.

**"Specifications"** shall mean parts of the Contract Documents identified as "Specifications" and organized into Divisions. The specifications include general requirements and technical descriptions of materials, equipment, construction systems, standards and workmanship. The term "Technical Provisions" where used in the Contract Documents refers to the Specifications.

**"Subcontractor"** shall mean any person, firm or corporation other than employees of the Contractor who or which contracts with the Contractor to furnish, or actually furnishes labor, materials and/or equipment for the Work.

**"Substantial Completion"** shall mean the completion of the Work by the Contractor to the point where the County may make beneficial use of the Work.

**"Surety"** shall mean any corporation that executes, as Surety, the Contractor's Bid Bond, Payment Bond and Performance Bonds securing the performance of this Contract.

**"Work"** shall mean any and all obligations, duties and responsibilities necessary to the successful completion of the construction assigned to or undertaken by the Contractor under the Contract Documents, including the furnishing of all labor, materials, equipment, and other incidentals.

### **ARTICLE 3 -ASSIGNMENT OF CONTRACT**

The Contractor may not make any assignment of the contractual agreement between the parties, in whole or in part, without prior written authorization as may be given by the County, at its sole discretion.

No assignment by a party hereto of any rights under or interests in the Contract Documents will be binding on another party hereto without written consent of the party sought to be bound; and specifically but without limitation, monies that may become due and monies that are due may not be assigned without such consent (except to the extent that the effect of this restriction may be limited by law), and unless specifically stated to the

contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under the Contract Documents.

#### **ARTICLE 4 - QUALIFICATIONS OF SUBCONTRACTORS AND SUPPLIERS**

The Project Manager will notify the Contractor in writing if the Project Manager, after due investigation, has reasonable objection to any Subcontractor or Supplier on the Subcontractor or Supplier Page, Bid Form Attachment C. If the Project Manager has reasonable objection to any Subcontractor or Supplier, the Contractor shall submit another acceptable one to the County. No increase in Contract Amount or Contract Time will be allowed under this article, unless Contractor can prove substantial increase due to the change, in which case Contractor may request an equitable adjustment to the Contract Amount or Contract Time. If Contractor requests an equitable adjustment as a result of a requested change, Contractor shall make available to the County all documents necessary, as requested by the County, to substantiate such adjustment.

The failure of the Project Manager to make objections to any Subcontractor or Supplier on the list shall not constitute a waiver of any right of the County to reject defective Work, material or equipment; or work, material or equipment not in conformance with the requirements of the Contract Documents. Should the Contractor desire to add, change or delete a Subcontractor or Supplier previously listed, the Contractor shall submit written justification for said change to the Project Manager for approval prior to the new Subcontractor or Supplier performing any Work on the Project.

#### **ARTICLE 5 - STARTING THE WORK**

The Contractor will start the Work within **fourteen (14)** calendar days of the official "Notice to Proceed" date. The Contract Time shall commence on the effective date of the "Notice to Proceed."

**Preconstruction Conference:** Within 20 days after the effective date of the Contract, but before Contractor starts the Work at the site, a conference attended by Contractor, Project Manager, Professional and others as appropriate will be held to discuss such topics as may include, but not limited to; schedules, procedures for handling Shop Drawings and other submittals and for processing Applications for Payment, maintenance of traffic, initiation of coordination with affected utilities, agreement upon the Notice to Proceed date, and to establish a working understanding among the parties as to the Work.

#### **ARTICLE 6 - INTERPRETATION AND INTENT OF THE CONTRACT DOCUMENTS**

It is the intent of the Specifications and Drawings to describe the complete Work to be constructed in accordance with the Contract Documents. However, the County makes no representation or warranty of any nature whatsoever to the Contractor concerning such documents. The Contract Documents are complementary; what is called for by one is as binding as if called for by all. If the Contractor finds a conflict, error or discrepancy in the Contract Documents, he will call it to the Project Manager's attention in writing before proceeding with the Work affected thereby. Any work that may reasonably be inferred from the Specifications or Drawings as being required to produce the intended result shall be supplied whether or not it is specifically called for. Work, materials or equipment described in words which so applied have a well known



technical or trade meaning shall be deemed to refer to such recognized standards. In case of conflict, the more stringent requirements shall take precedence and govern.

Written clarifications or interpretations (which shall be consistent with or reasonably inferable from the Contract Documents) will be issued in response to a Contractor Request for Interpretation (RFI) or as the Project Manager or Professional may otherwise determine necessary. If the Contractor believes a written clarification or interpretation justifies an increase in Contract Amount or Contract Time, the Contractor shall make a claim for such increase in accordance with Article 13 of the General Conditions. If the Contractor is authorized by the County to proceed with the Work involved before full agreement is reached on (a) whether any increases are due at all, or (b) the extent of any such increases (if any are determined to be due), the Contractor shall furnish daily to the Project Manager, or Professional, actual cost records.

## **ARTICLE 7 - REFERENCE POINTS**

**Availability of Lands:** The County will furnish, as indicated in the Contract Documents and not later than the date when needed by the Contractor, the lands upon which the Work is to be done, rights-of-way for access thereto and such other lands which are designated for the use of the Contractor. Easements for permanent structures or permanent changes in existing facilities will be obtained by the County unless otherwise specified in the Contract Documents. If the Contractor believes that any delay in the County's furnishing these lands or easements entitles him to an extension of the Contract Time, he may make a claim therefore as provided in Article 13. The Contractor will provide for all additional lands and access thereto that may be required for temporary construction facilities or storage of materials and equipment. The Project Manager will, upon request, furnish to the Contractor copies of all available boundary surveys and subsurface test.

**Unforeseen Subsurface Conditions:** The Contractor will promptly notify the Project Manager in writing of any subsurface or latent physical conditions at the site which may differ materially from those indicated in the Contract Documents. The Project Manager will promptly investigate those conditions and advise the Contractor in writing if further surveys or subsurface tests are necessary. Promptly thereafter, if needed, the Project Manager will obtain the necessary additional surveys and tests and furnish copies to the Contractor. If the Project Manager finds that the results of such surveys or tests indicate subsurface or latent physical conditions differing significantly from those indicated in the Contract Documents, a Change Order shall be issued incorporating the necessary revisions, in accordance with Article 12.

**Reference Points:** The Contractor shall be responsible for all field survey work coincidental with completion of this Work as specified herein. All survey work shall be done under the supervision of a Registered Professional Surveyor and Mapper. The County shall furnish, one time, a set of permanent reference markers along the line of work to form the basis for the above Contractor's survey.

All **Section Corners** and **Quarter Section** corners falling within the limits of this Work shall be perpetuated by a Florida Registered Surveyor and Mapper.

- A. All such corners falling within or on the boundaries of this project shall have reference ties made, certified to and submitted to the County Surveyor, Orange County, Florida, prior to the commencing of construction.
- B. Upon completion of construction and prior to Final Completion, certified corner records shall be submitted to the Department of Natural Resources in compliance with Florida Statutes, Chapter 177.507 and a copy of said certified corner record shall also be submitted to the Orange County Surveyor. Said corner records shall reflect the corner as perpetuated and which shall meet these minimum standards.
  - 1. If the corner falls in asphalt or concrete construction, the corner shall be a 2 1/4" metal disc marked according to standard government practices and set in concrete no less than 18" in depth and shall be encased in an adjustable 5 1/4" diameter or larger valve box raised to the finished surface of construction.
  - 2. If the corner falls at any other location, it shall be a 4" x 4" concrete monument no less than 23" long with a 2 1/4" metal disc marked according to standard government practices. The top of said monument shall be set flush with the ground ( $\pm 0.5'$  depending on conditions).
- C. Any U.S.C. and G.S. monument within limits of construction are to be protected. If monuments are in danger of damage, the Contractor shall contact the Project Manager and the Orange County Surveyor prior to the commencing of construction.
- D. Payment for all necessary survey work shall be included in the bid as part of other items of work.

## **ARTICLE 8 – BONDS, INSURANCE AND INDEMNIFICATION**

**Payment and Performance Bonds:** The CONTRACTOR shall execute and deliver to the County the Payment and Performance Bonds (see Part C, 2-h) included herein as security for the faithful performance and completion of the Work and payment for all materials and labor furnished or supplied in connection with all Work included in the Contract Documents. These Bonds shall be in amounts at least equal to the Contract Amount, shall name the County as obligee and shall be in such form and by sureties of financial standing having a rating from A.M. Best Company (or other equivalent rating company) equal to or better than A- VI and must be included on the approved list of sureties issued by the United States Department of Treasury. Prior to execution of the Contract Documents the County may require the Contractor to furnish such other Bonds, in such form and with such sureties as it may require. If such Bonds are required by written instructions given prior to opening of Bids, the premium shall be paid by the Contractor. If the Contract Amount is increased by Change Order, it shall be the Contractor's responsibility to insure that the Payment and Performance Bonds be amended accordingly and a copy of the amendment is forwarded to the County.

**The Contractor shall record the payment and performance bonds in Orange County public records as required by Florida Statutes, Chapter 255.05. Before commencing the work the Contractor shall provide to the Manager of the Procurement Division a certified copy of the recorded bonds. No payment will be made to the contractor**

**until the contractor has provided a copy of the recorded bonds.**

**If the Surety on any bond furnished by Contractor is declared bankrupt or becomes insolvent or its right to do business is terminated in any State where any part of the Work is located or it ceases to meet the requirements imposed by the Contract Documents, the Contractor shall within five (5) days thereafter substitute another Bond with another Surety both of which shall be acceptable to the County.**

**Insurance Requirements:**

Contractor agrees to maintain on a primary basis and at its sole expense, at all times throughout the duration of this Contract the following types of insurance coverage with limits and on forms (including endorsements) as described herein. These requirements, as well as the County's review or acceptance of insurance maintained by Contractor is not intended to and shall not in any manner limit or qualify the liabilities assumed by Contractor under this Contract. Contractor is required to maintain any coverage required by federal and state workers' compensation or financial responsibility laws including but not limited to Chapter 324 and 440, Florida Statutes, as may be amended from time to time. Insurance carriers providing coverage shall be authorized and/or eligible to do business in the State of Florida and shall possess a current A.M. Best's Financial Strength Rating of A- Class VIII.

The Contractor shall require and ensure that each of its subcontractors maintain insurance until the completion of their work under any contract associated with this Contract. Failure of the Contractor to maintain insurance coverage for itself or for any other persons or entities for whom it is responsible or to ensure that its subcontractors maintain coverage shall not relieve the Contractor of any contractual responsibility, obligation or liability.

**If the CONTRACTOR intends to bid on this Contract as a Joint Venture then all insurance coverage required herein shall include the Joint Venture as "named insured". If the Joint Venture has no employees then this requirement is waived for workers' compensation. The Joint Venture shall also purchase discontinued completed operations coverage for any claims made after the dissolution of the Joint Venture. This coverage shall be for a period of two years following final completion of the project or continuing service contract.**

The minimum types and amounts of insurance inclusive of any amount provided by an umbrella or excess policy, shall be as follows:

- Workers' Compensation – The Contractor shall maintain coverage for its employees with statutory workers' compensation limits, and no less than the limits indicated in the Schedule of Limits (see below) for Employers' Liability. Said coverage shall include a waiver of subrogation in favor of the County. The County will not accept elective exemptions. Any contractor using an employee leasing company shall complete the Leased Employee Affidavit (Attachment L).

Required Endorsements:

Waiver of Subrogation- WC 00 03 13 or its equivalent (Exhibit F)

Commercial General Liability – The Contractor shall maintain coverage issued on an ISO form CG 00 01 or its equivalent, with a limit of liability of not less than the limits indicated in the Schedule of Limits (see below). Contractor further agrees coverage shall not contain any endorsement(s) excluding or limiting Product/Completed Operations, Independent Contractors, Contractual Liability, or Separation of Insureds. The General Aggregate limit shall either apply separately to this Contract or shall be at least twice the required occurrence limit.

All projects with a Contract Amount greater than \$20,000,000 shall be written on a Designated Premises or Projects basis (Exhibit A). Commercial umbrella and excess coverage shall include liability coverage for damage to the Contractor's completed work equivalent to that provided under ISO Form CG 00 01 04 13.

Required Endorsements:

Additional Insured- CG 20 10 04 13 and CG 20 37 04 13 or its equivalent (Exhibits D and E)

Waiver of Subrogation- CG 24 04 05 09 or its equivalent (Exhibit H)

Note: If blanket endorsements are being submitted please include the entire endorsement. The policy number to which the endorsement applies shall be indicated directly on the endorsement.

Business Automobile Liability - The Contractor shall maintain coverage for all owned; non-owned and hired vehicles issued on ISO form CA 00 01 or its equivalent, with limits of not less than the limits indicated in the Schedule of Limits (see below). In the event the Contractor does not own automobiles the Contractor shall maintain coverage for hired and non-owned auto liability, which may be satisfied by way of endorsement to the Commercial General Liability policy or separate Business Auto Liability policy.

~~Required Endorsements:~~

~~MCS 90 for operations governed under Sections 29 & 30 of the Motor Carrier Act of 1980~~

~~Schedule of Limits:~~

<del>Contract Amount</del>	<del>Workers' Comp/ Employers' Liability</del>	<del>General Liability</del>	<del>Automobile Liability</del>
<del>Up to \$10 million</del>	<del>Statutory/\$500,000</del>	<del>\$1,000,000</del>	<del>\$1,000,000</del>
<del>\$10 - \$20 million</del>	<del>Statutory/\$1,000,000</del>	<del>\$5,000,000</del>	<del>\$5,000,000</del>
<del>Over \$20 million</del>	<del>To Be Determined by the County</del>		

Pollution Legal Liability - The Contractor agrees to maintain Contractor's Pollution Legal Liability with a limit of not less than one million (\$1,000,000) per occurrence on a per-project basis.

- ~~Builders' Risk~~ – If this Contract includes: (1) construction of a new above-ground structure or structures, (2) any addition, improvement, alteration, or repair to an existing structure or structures, or (3) the installation of machinery or equipment into an existing structure or structures, the Contractor shall maintain builders' risk insurance providing coverage to equally protect the interests of the County, the Professional, the Contractor and subcontractors of any tier. Coverage shall be written on a completed value form (Exhibit B) in an amount at least equal to 100% of the estimated completed value of the project plus any subsequent modifications of that sum.

~~The coverage shall be written on an "all-risk" basis and shall, at a minimum cover the perils insured under the ISO CP 10 30 Special Causes of Loss Form (Exhibit C) and shall include property in transit and property stored on or off premises, which shall become part of the project. The Contractor agrees not to maintain a wind or flood sub-limit less than 25% of the estimated completed value of the project. The Contractor agrees any flat deductible(s) shall not exceed \$25,000, and any wind percentage deductible (when applicable) shall not exceed five percent (5%). The coverage shall not be subject to automatic termination of coverage in the event the project/building is occupied in whole or in part, or put to its intended use, or partially accepted by the County. If such restriction exists the Contractor shall request that the carrier endorse the policy to amend the automatic termination clause to only terminate coverage if the policy expires, is cancelled, the County's interest in the project ceases, or the project is accepted and insured by the County.~~

- ~~Professional Liability~~ – If the construction method is "design-build" the Contractor agrees to maintain Professional Liability on a per project basis. The Contractor agrees to provide coverage with limits and deductibles as prescribed below.

<u>Project Cost</u>	<u>Minimum Limit</u>	<u>Maximum Deductible</u>
<del>\$0-1,000,000</del>	<del>50% of project cost subject to a minimum of \$100,000/occurrence</del>	<del>10% of project cost or \$25,000, whichever is smaller</del>
<del>\$1,000,000-5,000,000</del>	<del>\$1,000,000</del>	<del>\$100,000</del>
<del>over \$5,000,000</del>	<del>Determined by the County</del>	

For policies written on a "Claims-Made" basis the Contractor agrees to maintain a retroactive date prior to or equal to the effective date of this contract. In the event the policy is canceled, non-renewed, switched to occurrence form, or any other event which triggers the right to purchase a Supplemental Extended Reporting Period (SERP) during the life of this contract the Contractor agrees to purchase the SERP with a minimum reporting period of not less than two years. Purchase of the SERP shall not relieve the Contractor of the obligation to provide replacement coverage.

The Contractor shall be responsible for all risk of loss whether insured or not until final acceptance of the project by the County. The Contractor agrees to be fully and solely responsible for any costs or expenses resulting from a coverage deductible, co-insurance penalty, including any loss not covered because of the application of said deductible, co-insurance penalty, or coverage exclusion or limitation. The County has the right to request that the Contractor procure and maintain a surety bond for any deductible amounts that exceed any amount stated herein in such amount and on such form that are acceptable to the County.

The County reserves the right, but not the responsibility to periodically review any and all policies of insurance and to reasonably adjust the limits and/or types of coverage required herein, from time to time throughout the term of this Contract. In such event, the County shall provide the Contractor written notice of such adjustments and the Contractor shall comply within thirty (30) days of receipt thereof. Any request for an exception to these insurance requirements must be submitted in writing to the County for approval.

The Contractor agrees to specifically include the County as an Additional Insured on the Commercial General Liability policy with a CG 20 37 – Additional Insured - Owners, Lessees or Contractors-Completed Operations (Exhibit D) or CG 20 10 – Additional Insured-Owners, Lessees or Contractors-Scheduled Person or Organization Endorsement, or their equivalent (Exhibit E). The Contractor shall also specifically include the County as an Additional Insured on any Commercial Umbrella or Excess policies unless the County is automatically defined under the policy as an Additional Protected Person. Additionally, the Contractor agrees to specifically include the County as an Additional Insured under the Contractor's Pollution Liability coverage (when applicable). The name of the organization identified in each Additional Insured endorsement's schedule shall read Orange County Board of County Commissioners.

The Contractor agrees by entering into this written Contract to provide a Waiver of Subrogation in favor of the County, Contractor, Professional, and sub-contractors of any tier for each required policy providing coverage during the life of this Contract. When required by the insurer, or should a policy condition not permit an endorsement, the Contractor agrees to notify the insurer and request that the policy(ies) be endorsed with a Waiver of Transfer of Rights of Recovery Against Others, or an equivalent endorsement. This Waiver of Subrogation requirement shall not apply to any policy, which includes a condition that specifically prohibits such an endorsement or voids coverage should the Contractor enter into such an agreement on a pre-loss basis.

**Before execution of this Contract by the County and the start of any Work and for the duration of this Contract, the Contractor shall provide the COUNTY with current certificates of insurance evidencing all required coverage. The certificates shall clearly indicate that the Contractor has obtained insurance of the type, amount and classification as required for strict compliance with this insurance section. No material change or cancellation of the insurance shall be effective without thirty (30) days prior written notice to the COUNTY. Certificates shall specifically reference the project title and contract number. The certificate holder shall read:**



Orange County Board of County Commissioners c/o  
Procurement Division  
400 E. South Street  
Orlando, Florida 32801

Prior to commencement of any Work performed by subcontractors (if any), the Contractor shall obtain certificates of insurance evidencing coverage from each of its subcontractors and shall furnish within five days, copies of said certificates upon request by the County. In addition to the certificate(s) of insurance the Contractor shall also provide a blanket or specific additional insured endorsement and all waivers of subrogation or transfer of rights of recovery endorsements for each policy.

Failure of the County to demand such certificate or other evidence of full compliance with these insurance requirements or failure of the County to identify a deficiency from evidence provided will not be construed as a waiver of the Contractor's obligation to maintain such insurance.

**Indemnification:**

To the fullest extent permitted by law, the Recipient's Contractor shall indemnify and hold harmless the Recipient, the State of Florida, Department of Transportation, and its officers and employees, from liabilities, damages, losses and costs, including, but not limited to, reasonable attorney's fees, to the extent caused by the negligence, recklessness or intentional wrongful misconduct of the contractor and persons employed or utilized by the contractor in the performance of this Contract.

This indemnification shall survive the termination of this contract. Nothing contained in this paragraph is intended to, nor shall it constitute a waiver of the State of Florida and the Recipient's sovereign immunity.

## **ARTICLE 9 - CONTRACTOR'S RESPONSIBILITIES**

**Supervision and Superintendence** - The Contractor will supervise and direct the work efficiently and with his best skill and attention. He will be solely responsible for the means, methods, techniques, sequences and procedure of construction, unless otherwise specified. The Contractor will be responsible to see that the finished Work complies accurately with the Contract Documents. The Contractor will keep on the site at all times during its progress a competent, resident superintendent who shall not be replaced without written notice to the Project Manager. The superintendent will be the Contractor's representative at the site and shall have authority to act on behalf of the Contractor. All communications given to the superintendent shall be as binding as if given to the Contractor.

The Project Manager may require in writing that the Contractor remove from the Work any of Contractor's personnel that the Project Manager determines to be incompetent, careless or otherwise objectionable.

No claims for an increase in Contract Amount or Contract Time based on the Project Manager's use of this provision will be valid. Contractor shall indemnify and hold the County harmless from and against any claim by Contractor's personnel on account of the use of this provision.

**Labor, Materials and Equipment** - The Contractor will provide competent, suitable, qualified personnel to lay out the Work and perform construction as required by the Contract Documents. He will at all times maintain good discipline and order at the site. The Contractor will furnish all materials, equipment, labor, transportation, construction equipment and machinery, tools, appliances, fuel, power, light, heat, telephone, water and sanitary facilities and incidentals necessary for the execution, testing, initial operation and completion of the Work.

All materials and equipment will be new except as otherwise provided in the Contract Documents. If required by the Project Manager, the Contractor will furnish satisfactory evidence as to the kind and quality of materials and equipment furnished.



All materials and equipment shall be applied, installed, connected, erected, used, cleaned and conditioned in accordance with the instructions of the applicable manufacturer, fabricator or processors except as otherwise provided in the Contract Documents.

**Substitute Material or Equipment** - If it is indicated in the Specifications that the Contractor may furnish or use a substitute that is equal to any material or equipment specified, and if the Contractor wishes to furnish or use a proposed substitute, he will within thirty (30) days after the award of the Contract make written application to the Project Manager for acceptance of such a substitute, certifying in writing that the proposed substitute will perform adequately the duties imposed by the general design, be similar and of equal substance to that specified and be suited to the same use and capable of performing in an efficient and economic manner as that specified. The application will include sufficient information to allow the Project Manager to evaluate the substitutions. The application will state the extent, if any, to which the review, acceptance, furnishing and installation of the proposed substitute will prejudice Contractor's completion of the Work within the Contract Time(s). If the cost of the review of the substitution is greater than that of the originally specified item, the Contractor will reimburse the County for all costs. County may require Contractor to furnish at Contractor's expense a special performance guarantee or other Surety with respect to any substitute. The benefit of lower cost items shall be shared between the County and Contractor as specified in the Instructions to Bidders. No substitute shall be ordered or installed without the written acceptance of the Project Manager who shall be the sole judge of acceptability.

**Concerning Subcontractors** - The Contractor will not employ any Subcontractor, other person or organization of the types referred to in Article 4 (whether initially or as a substitute) against whom the County or the Project Manager may have reasonable objections, nor will the Contractor be required to employ any Subcontractor against whom he has reasonable objection.

The Contractor will not make any substitution for any Subcontractor who has been accepted by the Project Manager, unless the County and the Project Manager determine that there is good cause for doing so.

The Contractor will be fully responsible for all acts and omissions of his Subcontractors and of persons directly or indirectly employed by them and of persons for whose acts any of them may be liable to the same extent that they are employed by him. Nothing contained in the Contract Documents shall create, nor be interpreted to create, privity or any other contractual relationship whatsoever between the County and any Subcontractor or any person except the Contractor, or any obligation on the part of the County to payor to see to the payment of any monies due any Subcontractor, except as may otherwise be required by law. The County may furnish to any Subcontractor, to the extent practicable, evidence of amounts paid to the Contractor on account of specific Work done. The divisions and sections of the Specifications and the identifications of any Drawings shall not control the Contractor in dividing the Work among Subcontractors or delineating the Work to be performed by any specific trade.

The Contractor agrees to bind specifically every Subcontractor to the applicable terms and conditions of the Contract Documents for the benefit of the County.

All Work performed for the Contractor by Subcontractors shall be pursuant to an appropriate agreement between the Contractor and the Subcontractor which shall contain provisions that waive all rights the contracting parties may have against one another for damages caused by fire or other perils covered by insurance held by the County as trustee. The Contractor will pay each Subcontractor a share of any insurance monies received by the Contractor under this insurance.

**Patent Fees And Royalties** - The Contractor will pay all license fees and royalties and assume all costs incident to the use of any invention, design, process or device which is the subject of patent rights or copyrights held by others.

**Utilities** - The Contractor will pay all public utility charges except as provided for in the Contract Documents.

**Laws and Regulations** - The Contractor will give all notices and comply with all laws, ordinances, rules and regulations applicable to the work. If the Contractor observes that the Specifications or Drawings are at variance therewith, he will give the Project Manager prompt written notice thereof, and any necessary changes shall be adjusted by an appropriate Change Order. If the Contractor performs any Work knowing it to be contrary to such laws, ordinances, rules and regulations and without such notice to the Project Manager, he will bear all costs arising therefrom; however, it shall not be his primary responsibility to make certain that the Drawings and Specifications are in accordance with such laws, ordinances, rules and regulations.

**Use Of Premises** - The Contractor will confine his equipment, the storage of materials and equipment, and the operations of his workers to the areas permitted by law, ordinances, permits or the requirements of the Contract Documents and shall not unreasonably encumber the premises with materials or equipment.

The Contractor shall confine the operation of workmen and equipment, and the storage of materials and equipment to the County's property or to other non-County property or in public right-of-way areas indicated on the Contract Drawings as including work to be done pursuant to the Contract documents. In the event the Contractor desires to have access to the project site, or perform work or operations pertaining to the Contract on, over or from non-County property adjacent to the project site, the Contractor shall obtain written authorization to do so from the respective adjacent property owner(s) prior to using such property. Such written authorization shall include a provision whereby the property owner agrees to hold the County harmless, and to defend the County, in the event of any liability,

loss, injury, or claim incurred as a result of the Contractors work or operations involving the use of the adjacent non-County property.

The County shall be provided with a notarized, certified copy of such written authorization(s) before the Contractor commences work or operations or use of such property in connection with work or operations pursuant to this Contract.

**Record Drawings** - The Contractor will keep one record copy of all Specifications, Drawings, Addenda, Change Orders and Shop Drawings at the site in good order, and annotated and/or marked on a current basis to indicate the progress of the work done and to show all changes made during the construction process or conditions varying from the Bid Documents. These shall be available to the Project Manager for inspection throughout construction and shall be delivered to the Project Manager upon completion of the Work, but prior to final payment.

**Safety And Protection** - The Contractor will be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the Work. He will take all necessary precautions for the safety of and will provide the necessary protection to prevent damage, injury or loss to:

- A. All employees on the Project and other persons who may be affected thereby:
- B. All the Work and all materials or equipment to be incorporated therein, whether in storage on or off the site; and
- C. Other property at the site or adjacent thereto including trees, shrubs, lawns, walks, pavements, roadways, structures and utilities not designated for removal, relocation or replacement in the course of construction.

The Contractor will comply with all applicable laws, ordinances, rules, regulations and orders of any public body or public or private utility service organization having jurisdiction for the safety of persons or property or to protect them from damage, injury or loss. He will erect and maintain, as required by the conditions and the progress of the Work, all necessary safeguards for safety and protection and, in addition, he will comply with all applicable recommendations of the Manual of Accident Prevention in Construction of the Associated General Contractors of America, Inc., and the Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD) and subsequent revisions and addenda as published by the U.S. Department of Transportation, Federal Highway Administration and adopted by the Florida Department of Transportation. He will notify owners of adjacent utilities when prosecution of the Work may affect them.

All damage, injury or loss to any property or all damage, disruption, discontinuance or other loss to any utility system or roadways referred to in Paragraph B. and C. caused directly or indirectly, in whole or in part by the Contractor, any Subcontractor, anyone directly or indirectly employed by any of them, or anyone for whose acts any of them may be liable, will be remedied by the Contractor, except damage or loss attributable to the fault of the Drawings or the Specifications or to the acts or omissions of the County, and not attributable, directly or indirectly, in whole or in part, to the fault of negligence of the Contractor. The Contractor must also comply with the guidelines set forth in the Orange County Safety & Health Manual. The manual can be accessed on-line at the address below:

<http://www.orangecountyfl.net/VendorServices/OrangeCountySafetyandHealthManual.aspx>

The Contractor will designate a responsible member of his organization whose duty shall be the prevention of accidents at the site. **This person shall be the Contractor's superintendent unless otherwise designated in writing by the Contractor to the Project Manager.**

**Emergencies** - In emergencies affecting the safety of persons, the Work or property at the site or adjacent thereto, the Contractor, without special instruction or authorization from the Project Manager, is obligated to act at his discretion to prevent threatened damage, injury or loss. He will give the Project Manager prompt written notice of any significant changes in the Work or deviations from the Contract Documents caused thereby, and a Change Order shall thereupon be issued covering the changes and deviations involved. If the Contractor believes that additional Work done by him in an emergency which arose from causes beyond his control entitles him to an increase in the Contract Amount or an extension of the Contract Time, he may make a claim therefore as provided in Article 13.

**Shop Drawing and Samples** - After checking and verifying all field measurements, the Contractor will submit to the Project Manager for review, in accordance with the accepted schedule of Shop Drawing submission, five copies (or at the Project Manager's option, one reproducible copy) of all Shop Drawings, which shall have been checked by and stamped with the approval of the Contractor and identified as the Project Manager may require. The data shown on the Shop Drawings will be complete with respect to dimensions, design criteria, materials of construction and the like to enable the project manager to review the information as required.

The Contractor will also submit to the Project Manager for review with such promptness as to cause no delay in the Work, all samples required by the Contract Documents. All samples shall be checked by and stamped with the approval of the Contractor, identified clearly as to material, manufacturer, any pertinent numbers and the use for which intended.

At the time of each submission, the Contractor will in writing call to the Project Manager's attention to any deviations that the Shop Drawing or sample may have from the requirements of the Contract documents.

The Project Manager will review with reasonable promptness and take appropriate action with regard to Shop Drawings and samples, but its review shall be only for general conformance with the design concept of the Project and for compliance with the information given in the Contract Documents. The acceptance of a separate item as such will not indicate approval of the assembly in which the item functions.

The Contractor will make any corrections required by the Project Manager and will return the required number of corrected copies of Shop Drawings and re-submit new samples until accepted.

The Contractor's stamp of approval on any Shop Drawing or sample shall constitute a representation to the Project Manager that the Contractor has either determined and verified all quantities, dimensions, field construction criteria, materials, catalog numbers and similar data or he assumes full responsibility for doing so, and that he has reviewed or coordinated each Shop Drawing or sample with the requirements of the Work and Contract Documents.

**No Work requiring a Shop Drawing or sample submission shall be commenced until the submission has been accepted by the Project Manager.** A copy of each accepted Shop Drawing and each accepted sample shall be kept in good order by the Contractor at the site and shall be available to the Project Manager.

The Project Manager's acceptance of Shop Drawings or samples shall not relieve the Contractor from his responsibility for any deviations from the requirements of the Contract Documents, unless the Contractor has in writing called the Project Manager's attention to such deviation at the time of submission and the County and the Project Manager have given written acceptance to the specific deviation; nor shall any acceptance by the Project Manager relieve the Contractor from responsibility for errors or omissions in the Shop Drawing.

Each Shop Drawing or sample submittal or substitution request by the Contractor shall contain a reference identifying the applicable, specific Section of the Specifications to which it pertains. Submittals failing to comply with this provision shall be rejected and returned to the Contractor without review.

Each Shop Drawing or sample submittal or substitution request shall include the following stamped certification by the Contractor:

"The General Contractor has reviewed the Shop Drawing, sample or substitution submitted herewith and has determined and hereby certifies that in all respects this submittal is in full compliance and conformance with the Contract specifications, drawings and all other Contract requirements pertaining thereto".

Failure of the Contractor to include the above stated specification reference number or certification of compliance shall result in the rejection of the submittal. The Contractor will also submit within five (5) days of Contract Award to the Project Manager for acceptance all samples required by the Contract Documents. All samples will have been checked by and stamped with the approval of the Contractor, identified clearly as to material, manufacturer, any pertinent numbers and the use for which intended.

In the event that the Contractor, or anyone working for or on behalf of the Contractor on this project, should commence or do any work requiring submission of a Shop Drawing or sample, or involving a substitution or an "or-equal" request without having such submittal accepted by the County in writing, then the Contractor is advised that any and all such work will be done at its risk and is subject to rejection and/or removal at the Contractor's expense and at no additional cost to the County if applicable Shop Drawing, sample, substitution, "or-equal" or other submittal is not accepted.

Further, the Contractor will not receive "progress" or "final" payment for any and all work commenced or done which requires, but has not received acceptance of Shop Drawings, samples, substitution requests, or "or-equal" requests or any other required submittal, nor will the Contractor receive "progress" or "final" payment for any and all work that has been determined by the Professional or the County's Project Manager not to be in compliance or conformance with the established Contract requirements, Contract change orders, written directives, written clarifications provided to the Contractor, or accepted Shop Drawings, accepted samples, accepted substitutions, or accepted "or-equals".

**Cleaning Up** - The Contractor will keep the premises free from accumulations of waste materials, rubbish and other debris resulting from the Work; at the completion of the Work he will remove all waste materials, rubbish and debris from and about the premises as well



as all tools, construction equipment and machinery, and surplus materials, and will leave the site clean and ready for occupancy by the County.

The Contractor will restore to their original condition those portions of the Site not designated for alteration by the Contract Documents. If at any time during construction of this project, the Contractor fails to clean up on a daily basis, the County may do so. All costs associated with the County's cleanup activities on behalf of the Contractor shall be deducted from amounts due to the Contractor.

## **ARTICLE 10 – WORK BY OTHERS AND UTILITY COORDINATION**

**Work by Others** – The County may perform additional work related to the project by itself, or it may let other direct contracts which shall contain general conditions similar to these. The Contractor will afford the other contractors who are parties to such direct contracts (or the County, if it is performing the additional work itself), reasonable opportunity for the introduction and storage of materials and equipment and the execution of work, and shall properly connect and coordinate his Work with theirs.

Should the contract entail relocation of facilities not a part of this Contract, the Contractor will coordinate and cooperate with the applicable entity responsible for this portion of the work.

If any part of the Contractor's Work depends (for proper execution of results) upon work of any such other Contractor (or the County), the Contractor will inspect and promptly report to the Project Manager in writing any defects, deficiencies or delays in such work that render it unsuitable for such proper execution and results.

The Contractor's failure to report shall constitute an acceptance of the other work, except as to defects, deficiencies and delays which may appear in the other work after the execution of the work.

The Contractor will do all cutting, fitting and patching of his Work that may be required to make its several parts come together properly, and fit it to receive or be received by such other work. The Contractor will not endanger any work of others by cutting, excavating or otherwise altering such other work and will only cut or alter such other work with the written consent of the Project Manager.

If the performance of additional work by other Contractors or the County is not noted in the contract documents prior to the execution of the Contract, written notice thereof shall be given to the Contractor prior to starting any such additional work. If the Contractor believes that the performance of such additional work by the County or others involves him in additional expense or entitles him to an extension of the Contract Time, he may make a claim therefore as provided in Article 13.

**Utility Coordination** – Section 337.401 (1), Florida Statutes and other applicable law allows utility owners to install and maintain along, above, under, across or on any road or right-of-way any electric transmission or distribution facilities, telephone, telegraph, pole lines, poles, railway structures, ditches, sewers, water, heat, gas mains, pipelines, fences, gasoline tanks and pumps, waterlines, gas lines, wire lines, utility service connections, water and gas meter boxes, valve boxes, light standards, cable lines,

cable ways, signals, signal boxes, and all other utility installations, improvements and utility appurtenances to be installed and maintained in the right-of-way.

The Contractor understands and agrees that the lands upon which the Work is to be performed consists of prior existing right-of-way, as well as, recently acquired right-of-way. The Contractor acknowledges and agrees that utility installations and appurtenances are located within the limits of the planned construction Work. The utility installations and appurtenances may be in conflict with the Contractor's Work or require relocation or adjustments. All utility conflict resolutions, relocations, or adjustments are to be moved by the utility owners at their expense, unless otherwise provided in the Contract documents.

The Contractor, by submission of a bid, agrees that prior to bid he has studied, performed field inspections, and evaluated all potential utility conflicts, the locations of permanent and temporary utility appurtenances in their present and relocated positions as may be shown on the plans. The Contractor acknowledges and agrees that the Contractor's bid has considered all potential utility conflicts, the locations of permanent and temporary utility appurtenances in their present and relocated positions including those shown on the plans, not shown on the plans, and those identified during the Contractor's pre-bid study or that should have been identified during the Contractor's field inspections, and evaluation of the limits of the planned construction Work.

The design Professional may show surface or subsurface utility conflicts, relocations, or adjustments in the drawings and plans. The surface and subsurface utility information shown in the drawings and plans was obtained and used by the design Professional to establish design criteria for the design plans. The accuracy as to location and the identification of all surface or subsurface utility information is not warranted or guaranteed and is not to be construed as part of the construction plans governing the construction Work. The Contractor shall solely make his own determinations as to surface and subsurface conditions.

The Contractor shall be solely responsible for utility coordination including all utility conflict resolutions, relocations, and adjustments. The concept of "utility coordination" means that the Contractor shall, at a minimum:

- A. Investigate both subsurface and aboveground conditions to identify potential conflicts far enough in advance of his planned construction operations to allow the Contractor to coordinate with utility owners and responsible parties any necessary conflict resolutions, relocations, or adjustments such that they can occur without delay to the Contractor's operations and Progress Schedule.
- B. Conduct regularly scheduled Utility Coordination Meetings with all affected utilities, and shall maintain detailed minutes of the discussions.
- C. Contact all utility owners in advance of any needed conflict resolutions, relocations, or adjustments.
- D. Contact the Project Manager as to all Contractor scheduled utility conflict resolutions, relocations, or adjustments.

- E. Schedule all work to be performed by the utility owners related to utility conflict resolutions, relocations, or adjustments.
- F. Schedule all work to be performed by the utility owners so as not to delay or disrupt in any way the Contractor's own performance of the Contractor's Performance Schedule.
- G. Assure the proper connection of the Contractor's Work with the work of the utility owners.
- H. Assure that the schedule, contacts, and proper connections between the Contractor's Work and the utility owner's work harmonize the work of both in a common action to achieve resolution of utility conflicts, relocations, and adjustments.
- I. Contractor shall, at no cost to the County, adjust the project schedule to allow the work to proceed in such a manner that delays to the progress of the work are minimized.

As discussed more fully in Article 17, delays to the Contractor's Progress Schedule resulting from the resolution of utility conflicts, relocations, and adjustments to utilities will not be considered as the basis for granting a change in Contract Amount or Contract Time.

**Any work completed by Orange County will not be eligible for reimbursement.**

#### **ARTICLE 11 - PROJECT OWNER STATUS DURING CONSTRUCTION**

The Contractor shall provide the following information to all subcontractors and suppliers:

County's Representatives - The Project Owner shall be the Board of County Commissioners. The Board shall be represented by the Project Manager listed below during the construction period:

Manager, Public Works Highway Construction Division, or designee  
Address: 4200 South John Young Parkway, Orlando, FL 32839  
Phone: 407-836-7998  
Email: Julie.Naditz@ocfl.net

#### **ARTICLE 12 - CHANGES IN THE WORK**

Without invalidating the Contract, the County may, at any time or from time to time, order additions, deletions or revisions in the Work authorized by written Change Orders or directive. Upon receipt of a Change Order, the Contractor will proceed with the work involved. All such work shall be executed under the applicable conditions of the Contract documents. If any Change Order causes an increase or decrease in the Contract Amount or any extension or shortening of the Contract Time, an equitable adjustment will be made as provided in Article 13.



Additional Work performed by the Contractor without authorization of a Change Order will not entitle him to an increase in the Contract Amount or any extension of the Contract Time, except in the case of an emergency as provided in Article 9.

It is the Contractor's responsibility to notify his Surety of any changes affecting the general scope of the Work or change of the Contract Amount and the amount of the applicable bonds shall be adjusted accordingly, and an amended bond document furnished to the County.

In the event the County directs the Contractor to make a change in the Work, and if the County and the Contractor do not arrive at a mutually acceptable increase or decrease in the Contract Amount, the Contractor shall not use any such lack of mutual acceptance as a basis or cause to stop or otherwise delay the progress or the execution and completion of any of the work ordered, directed or required pursuant to the Contract Documents.

If the Contractor believes an event or situation has occurred which justifies a change in the Contract Amount or Contract Time, he shall deliver a written notice to the Project Manager. Each such written notice shall be delivered promptly, and in any event no later than 15 days after the Contractor first discovered the occurrence. The Contractor shall be deemed to have waived the right to collect any and all costs incurred more than 15 days prior to the date of delivery of the written notice, and shall be deemed to have waived the right to seek an extension of the Contract Time with respect to any delay in the Progress Schedule which accrued more than 15 days prior to the date of delivery of the written notice.

Any such notice shall include sufficient detail to explain the basis of entitlement to a claim for an adjustment to the Contract Amount or Contract Time. When requested by the Project Manager, the Contractor shall furnish any additional information and details as may be required to determine the facts or allegations involved, which shall be provided within fifteen (15) days of the request unless a longer time period is allowed by the Project Manager.

The Contractor shall prepare proposals detailing proposed adjustments to Contract Amount and/or Contract Time in accordance with Article 13 and submit them to the Project Manager within 15 days of the County's issuance of a proposed Change Order or the Contractor's submitting a written notice of a change or claim for an adjustment to the Contract Amount or Contract Time. Contractor's proposals shall be irrevocable for a period of at least sixty (60) days after receipt by the County. Any delay in the submittal of a complete, adequate and acceptable proposal will not justify an increase in Contract Amount or Contract Time. Contractor agrees that it shall give the County access to any and all of Contractor's and Subcontractors' books, records and other materials relating to proposed Change Orders and other claims for adjustment to Contract Amount or Contract Time.

### **ARTICLE 13 - CHANGE OF CONTRACT AMOUNT AND CONTRACT TIME**

**Contract Amount** - The Contract Amount constitutes the total compensation payable to the Contractor for performing the Work. All duties, responsibilities and obligations assigned to or undertaken by the Contractor shall be at his expense without change in the Contract Amount. The Contract Amount may only be changed by written Change Order issued by the County. Any claim for an increase in the Contract Amount shall be in writing

and delivered to the Project Manager within fifteen (15) days of the occurrence of the event giving rise to the claim.

All claims for adjustment in the Contract Amount shall be determined by the Project Manager. However, no claim for an adjustment to the Contract Amount will be considered for unforeseeable causes that were beyond the fault or negligence of the Contractor or his Subcontractors or supplier such as acts of God, floods, riots, etc. This restriction does not restrict submission of claims for additional Contract Time due to events of this nature. Any change in the Contract Amount shall be incorporated in a Change Order.

Proposals or Claims Substantiating Adjustments; Limitations:

- A. Contractor proposals or claims shall cover all aspects of the Work involved and shall be fully documented and itemized as to all costs, quantities and charges for overhead and profit. Amounts for Subcontractors or Suppliers at any tier shall be similarly supported. When determining Subcontractors' costs, the methods to be Used shall be those used for the Contractor's costs, except that the term "Subcontractor" shall replace the term "Contractor," context permitting.
- B. Where the change in Contract Amount arises from changes in the time required to perform any Work, or where a change in Contract Time is sought, the Contractor's itemized estimates shall detail all productivity and production data, and include an analysis of the Record Schedule demonstrating the schedule status just before and after the occurrence of events on which the request is based (thereby showing the extent of delay resulting from the event involved) and any measures taken or planned to mitigate the impacts.
- C. Neither the Contract Time nor Contract Amount shall be changed due to a delay in Contractor's early completion date until all the corresponding Contract Float available in the Record Schedule at the start of the delay is used and performance of the specified Work extends necessarily beyond that Contract Time. The Contractor shall not recover from the County (a) acceleration costs incurred to overcome delays which warrant extensions in Contract Time but exclude changes in Contract Amount, (b) escalation costs for any part of the Work having Contract Float or not delayed beyond the late dates in the Record Schedule, or (c) delay costs not expressly allowed in General Conditions Article 13 as supplemented.
- D. Changes in Contract Amount for extensions in Contract Time shall exclude costs that are unaffected or do not relate to the extension in Contract Time, such as: (a) operating costs of construction equipment assigned to the Work on a continuing basis, (b) operating costs and owned/rental costs of construction equipment (crane used for specific lifts, concrete pump used for specific pours, etc.), and (c) fully paid site facilities, tools, etc.

The value of any Work covered by a Change Order or of any claim for an increase or decrease in the Contract Amount shall be determined in one of the following ways:

- A. Where the Work involved is covered by unit prices contained in the Contract Documents, by application of unit prices to the quantities of the items involved.

If the quantities originally contemplated are so changed in a proposed Change Order, that application of the Unit Prices to the quantities proposed will cause substantial inequity to the County or the Contractor, the applicable unit price(s) shall be equitably adjusted by mutual agreement.

- B. By mutual acceptance of a lump sum.
- C. By cost and mutually acceptable fixed amount for overhead and profit.
- D. If the value of work covered by a Change Order cannot be established or mutually agreed to utilizing any of the above three methods, the value shall be determined by the County on the basis of an estimate of the out-of-pocket cost and percentages that are acceptable to the County for overhead and profit. The out-of-pocket cost shall only include those direct costs which are needed to perform the work such as labor (including payroll taxes, fringe benefits, labor burden and workers' insurance), materials, equipment, and other incidental out-of-pocket construction costs directly involved in the work, including but not limited to small tools, expendables and material costs but shall not include project management or project supervisory costs unless the Change Order includes an increase in the Contract time.

**Methods for Determining Adjustments in Contract Amount:**

- A. If the County directs the Contractor to proceed with the Work involved pursuant to actual out-of-pocket costs plus contractual allowances for overhead and profit and states a Not-to-exceed price, Contractor claims for costs, overhead or profit beyond the Not-to-exceed price shall be invalid, unless, prior to incurring those costs, overhead or profit Contractor provides written notice and County increases the Not-to-exceed price in writing..
- B. If payment for the Work involved is to be determined by a court of law, it is agreed by the Contractor that the actual out-of-pocket cost and overhead and profit method contained in the General and Supplemental Conditions shall represent an appropriate method for determining the cost and overhead and profit for the Work involved.
- C. In computing Cost of the Work involved in a Change Order or claim, costs shall be allowable only to the extent costs (a) are consistent with those prevailing in the Orlando Metropolitan Statistical Area (which includes Orange, Seminole, Lake and Osceola Counties) and with applicable criteria set forth in 48 CFR Part 31 (federal contract cost principles and procedures), (b) include only the appropriate items for labor, material or equipment, construction equipment and special cost items specified in General Conditions Articles 13.

In such case, the Contractor will submit in the form prescribed by the County an itemized cost breakdown together with supporting data.

The amount of credit to be allowed by the Contractor to the County for any such change which results in a net decrease in cost, will be the amount of the actual net decrease as determined by the County. When both additions and credits are involved in any one change, the combined overhead and profit shall be figured on the basis of the net increase, if any.

To be eligible for consideration, the Contractor's written claim for a change in the Contract price, including claim(s) from sub-contractors, shall include an itemized cost breakdown with supporting data as described below:

- A. For labor: Provide written documentation from the Contractor and Subcontractors or others as appropriate in the form of a detailed breakdown by each labor classification involved indicating the number of hours of Work involved and the hourly payroll rate applicable to each to substantiate the basis and amount of the direct labor cost. The direct labor cost may be increased to provide an allowance for indirect payroll costs (labor burden), such as payroll taxes, fringe benefits, and workers insurance after all premium discounts, rebates and other appropriate reductions have been taken.

Allowable labor costs shall be limited to craft labor (including foremen) in the direct employ of the Contractor (or Subcontractor) assigned to the site and engaged in furnishing and incorporating materials or equipment in the Work involved in the Change Order or Claim.

When determining actual payroll costs, daily time sheets certified by the Contractor and verified by the Project Manager along with certified payroll records shall be the valid records.

- B. For material, supplies, equipment, furnishings, etc., to be installed or included in the Work: Provide written documentation from the Contractor and Subcontractors, suppliers, etc., to substantiate the basis and amount of the various cost items involved. Material costs shall reflect the Contractor's reasonably anticipated net actual cost after consideration of trade discounts and volume rebates.
- C. For construction equipment: Provide written documentation in the form of a detailed breakdown by each construction equipment category indicating, the applicable unit rates (i.e., \$'s per hour, \$'s per day etc.,) and the number of hours, days, etc. to substantiate the basis and amount of the construction equipment out-of-pocket costs.
- D. Special cost items (any out-of-pocket cost items not considered to be material, labor or construction equipment as set forth above including but not limited to small tools and expendables): Provide written documentation in the form of a detailed breakdown or itemization of the costs, fees, charges, hours, hourly rates, etc., to clarify, document and substantiate the basis and amount of the out-of-pocket cost. Special cost items due to the Work or a delay involved in a Change Order or Claim may include a proportion of the following indirect costs, to the extent those indirect costs increase or decrease on account of (a) the Cost of the Work involved for labor, Subcontractor or Supplier furnished materials or equipment, or (b) an extension in Contract Time as follows (provided that no cost shall be paid for holidays or weather days during the delay):
  1. Payroll costs for the Contractor's full-time superintendent and payroll costs for other personnel in the employ of the Contractor resident (engaged in activities) at the site if those costs arise solely from an extension in Contract Time; Costs of small tools and expendables (less market value if not

consumed) of items individually valued at less than \$1,000.00 that are not owned by the workers, if the Contractor provides an itemized list of items required for the performance of the Work involved; however, no such costs shall be allowed over 4% of the direct labor costs, unless the Contractor furnishes detailed data sufficient to allow verification that a higher percentage is appropriate for the Work involved;

2. Costs of office and temporary facilities at the site, including utilities, fuel and sanitary facilities, telephone and internet service at the site, materials, supplies, equipment, other minor expenses (e.g. expressage and petty cash), if those costs arise solely from an extension in Contract Time;
3. Costs of consultants not in the direct employ of the Contractor, if those costs are or were authorized by the County before proceeding with the Work involved;
4. Taxes on the Work involved, and for which the Contractor is liable; and royalty payments and charges and fees for permits, if any of them relate solely to the Work involved;
5. Physical losses, damages and expenses to the Work, not compensated by property insurance, or otherwise to be sustained by the Contractor in the prosecution of the Work (except losses and damages within the deductible amounts of property insurance, if any), but only if the losses, damages and expenses result from the fault or negligence of the County, or
6. Bond premiums and insurance premiums not included as part of the indirect labor cost, if they relate solely to the Work involved.

E. Construction Equipment Costs:

For equipment owned by Contractor (or Subcontractor) or rented or leased from lessors associated with or owned by them, allowable costs shall be limited to equipment required for the Work involved in a Change Order or claim with individual replacement values exceeding \$1,000.00. Transportation, loading/unloading, installation, dismantling and removal costs shall be allowed only if prior written consent is obtained from the Project Manager, and if the equipment is, or was, transported to the site solely for the Work involved. Shipping costs will be allowed only if the equipment is not available in the Orlando Metropolitan Statistical Area.

Contractor shall be entitled to ownership and operation costs of the equipment based on the Contractor's normal accounting practices, but in no event shall equipment ownership or operation costs exceed the applicable hourly rates listed in a mutually acceptable current cost reference guide. For multiple shifts, the equipment rate shall not exceed the shift Work adjustments recommended in the agreed upon cost reference guide.

Equipment costs shall be computed using the same accounting and estimating rules and prices, whether related to added or deleted Work, and shall cease when the equipment is no longer needed for the Work involved.

2. For equipment rented or leased from lessors not associated with or owned by the Contractor (or Subcontractor), the Contractor shall be entitled to rental or lease rates, but in no event shall the rates or hourly operating costs exceed applicable rates established in the "Rental Rate Blue Book" (latest edition). The equipment rate for second or third shifts shall not exceed fifty percent (50%) of the base rate. Hourly rates for equipment previously in use at the site for at least a month shall be based on the monthly rate divided by 176 hours. Equipment previously in use for only one week or not previously in use at the site shall not be invoiced to the County at rates higher than the following schedule correlating equipment usage to payment category:

Less than 8 hours	Hourly Rate
1 day but less than 7 days	Daily Rate
1 week but less than 30 days	Weekly Rate
30 days or more (when in use)	Monthly Rate

3. Rented (or owned) equipment idled by actions of the County *for* reasons under the sole control of the County shall be paid as rented equipment (or as one-half of owned equipment), provided the idle period exceeds what is normal for such equipment and occurs during normal working hours.

When determining actual construction equipment costs, daily logs of the equipment, operators and actual usage, verified by the Project Manager, shall be the valid records.

With respect to the allowances for overhead and profit the following schedule shall be used in determining the total cost of any Work covered by a Change Order or of any claim for an increase or decrease in the Contract price:

- A. For the Contractor, for Work (i.e., the cost of labor, materials and construction equipment as described above) performed by the Contractor's own forces; 15% of the cost.
- B. For the Contractor, for the Work performed by the Contractor's Subcontractor; 7 ½% of the amount due the Subcontractor.
- C. For each Subcontractor involved, for Work performed by that Subcontractor's own forces 7 ½% of the cost.
- D. For each Subcontractor, for Work performed by the Subcontractor's Sub-Subcontractor's 5% of the amount due the Sub-Subcontractor.
- E. Cost to which overhead and profit is to be applied shall be determined in accordance with provisions of this Article 13.



- F. The Cost of the Work involved in a Change Order or claim shall not include any of the following costs (considered administrative costs or contingencies covered by the overhead and profit):
1. Payroll costs and other compensation of (a) executives, general and administrative managers, estimators, claim consultants, attorneys, accountants, labor relation coordinators, contract and subcontract administrators, purchasers, expeditors and other administrative staff, whether employed at the site or in the Contractor's (or Subcontractor's) principal or branch offices; and (b) project managers, construction managers, engineers, architects, schedulers, detailers, safety personnel, clerks and other administrative staff employed in his principal or branch offices;
  2. Costs in the preparation of Change Orders or claims (whether or not ultimately authorized by the County);
  3. Costs of engineers, architects, accountants, consultants, attorneys and others, in the direct employ of the Contractor or otherwise, utilized for services related to a controversy or claim about the acceptability of the Work;
  4. Any part of the Contractor's capital expenses, including interest on capital for the Work involved, lost interest on unpaid retainage, and charges for delinquent payments;
  5. Any other expenses of the Contractor's principal and branch offices, including storage and yard facilities; and any costs not specifically and expressly allowed in General Conditions Article 13 as supplemented.

If deemed necessary, the overhead and profit allowance schedule shown above may be adjusted by the Project Manager.

**Cash Allowances** - It is understood that the Contractor has included in the Contract Amount any allowances so named in the Contract Documents and shall cause the Work so covered to be done by such Suppliers or Subcontractors and for such sums within the limit of the allowances as the County may accept. Prior to final payment, the Contract Amount shall be adjusted as required and an appropriate Change Order issued. The Contractor agrees that the original Contract amount includes such sums as he deems proper for cost and profit on account of cash allowances. No demand for additional cost or profit in connection therewith will be allowed.

**Change of Contract Time** - The Contract Time may only be changed by written Change Order. Any claim for an extension in the Contract Time shall be in writing and include an analysis of the Progress Schedule as further described in the Specifications, and shall be delivered to the Project Manager within fifteen (15) days of the occurrence of the event giving rise to the claim.

All claims for adjustment in the Contract Time shall be determined by the Project Manager. Any change in the Contract Time resulting from any such claim shall be incorporated in a Change Order.

The Contract Time may be extended for an amount equal to time lost due to unforeseeable causes beyond the control of the Contractor (and his Subcontractors and Suppliers) if he makes a claim therefore. Such delays shall include, but not be restricted to, acts or neglect by any separate Contractor employed by the County; fires; floods; labor disputes; epidemics or acts of God.

All time limits stated in the Contract Documents are of the essence to the Contract. The stated time limits are agreed to be adequate to complete the work, including the procurement, manufacture and delivery of all material and equipment required, and account for any and all potential impact, delays, disruptions and costs that may be expected.

#### **ARTICLE 14 - CONDITION OF MATERIALS AND PACKAGING:**

In instances where the Specifications, (Part H) make this subject applicable (and unless otherwise indicated), all goods and items offered for sale and/or shipped by the Contractor pursuant to the requirements imposed upon said Contractor by this bid package, will be new and in first class condition; all related containers being new and suitable for storage and shipment; all prices including the cost of standard commercial packaging. Contractors will be solely responsible for making any and all claims against carriers as concerns missing or damaged items.

#### **ARTICLE 15 - ASBESTOS FREE MATERIALS:**

Project is to be constructed with asbestos free materials. A written, notarized statement on company letterhead is to be submitted with the final payment request. Final payment shall be withheld until such statement is submitted.

Contractor shall agree that if materials containing asbestos are subsequently discovered at any future time to have been included in the construction done by the Contractor or any of its Subcontractors or agents and were not specified in the design or required by the Contract document, Contractor shall be liable for all costs related to the abatement of such asbestos and damages or claims against the County.

#### **ARTICLE 16 - WARRANTY AND GUARANTEE ACCEPTANCE OF DEFECTIVE WORK**

Warranty and Guarantee - The Contractor warrants and guarantees to the County that all materials and equipment will be new unless otherwise specified and that all Work will be of good quality, free from faults or defects and in accordance with the requirements of the Contract Documents including any required inspections, tests or approvals. All unsatisfactory Work, all faulty Work, and all Work not conforming to the requirements of the Contract Documents or such inspections, tests or approvals shall be considered defective. Prompt notice of all defects shall be given to the Contractor. All defective Work, whether or not in place, may be rejected, corrected or accepted as provided in this Article. All warranty and guarantee coverage periods shall commence from the Final Completion date of the project as determined by the Project Manager. The coverage commencement date of warranties and guarantees shall, in accordance with the provisions stated above, be entered on each warranty or guarantee document.

However, in the event the coverage commencement date entered on the warranty or guarantee document is not in accordance with the provisions stated above, the coverage commencement date shall nonetheless be the date determined by applying the p r o v i s i o n s stated above.



**Tests and Inspections** - If the Contract Documents, laws, ordinances, rules, regulations or order of any public authority having jurisdiction require any Work to specifically be inspected, tested or approved by someone other than the Contractor, the Contractor will give the Project Manager timely notice of readiness therefore. The Contractor will furnish the Project Manager with the required certificates of inspection, testing or approval. All such tests will be in accordance with the methods prescribed by the American Society for Testing Materials or such other applicable organizations as may be required by law or the Contract Documents.

If any such Work required to be inspected, tested or approved is covered without written approval of the Project Manager, it must, if requested by the Project Manager, be uncovered for observation at the Contractor's expense. The cost of all such inspections, tests and approvals shall be borne by the Contractor unless otherwise provided. Neither observations by the Contractor nor inspections, tests or approvals by persons other than the Contractor shall relieve the Contractor from his obligations to perform the Work in accordance with the requirements of the Contract Documents.

**Access To The Work** - The Project Manager and his representative and other representatives of the County and the Professional will at all times have access to the Work. The Contractor will provide proper facilities for such access and observation of the Work and also for any inspection or testing thereof by others.

**Uncovering Work** - If any Work is covered contrary to the request of the Project Manager it must, if requested by the Project Manager be uncovered for observation and replaced at the Contractor's expense. If any Work has been covered which the Project Manager has not specifically requested to observe prior to its being covered, or if the Project Manager considers it necessary or advisable that covered Work be inspected or tested by others, the Contractor, at the Project Manager's request, will uncover, expose or otherwise make available for observation, inspection or testing as the Project Manager may require, that portion of the Work in question, furnishing all necessary labor, material and equipment. If it is found that such Work is defective, the Contractor will bear all the expense of such uncovering, exposure, observation, inspection and testing, and of satisfactory reconstruction. If, however, such Work is not found to be defective, the Contractor will be allowed an increase in the Contract amount or an extension of the Contract Time, or both, directly attributable to such uncovering, exposure, observation, inspection, testing and re-construction, if he makes a claim therefore as provided in Article 13.

**Notice to Cure** - If the County determines the Work is defective or deficient; if the Contractor fails to supply sufficient skilled workers or suitable materials or equipment; if the Contractor fails to make prompt payments to Subcontractors for labor, materials or equipment; if the work is not progressing in a safe, orderly or well coordinated manner; or if the general progress and/or quality of the work is not adequate to ensure continuation or completion of the work in accordance with the Contract completion time requirements, then the Procurement Division Manager shall issue a notice to cure, giving the Contractor a specific period of time

(1) in which to submit to the Project Manager a written Plan of Action including a schedule setting forth a plan by which the deficiencies will be corrected, and (2) a specific period of

time in which to correct the deficiencies.

If the Contractor does not submit a Plan of Action to indicate how and when the deficiencies indicated in the notice to cure will be cured within the specified time frame that is acceptable to the Project Manager, and if those deficiencies are not corrected within that time frame, then the County shall take further action, up to and including Contract termination. The Contractor shall not be entitled to any delay claims as a result of the County's issuance of the notice to cure.

**Correction or Removal of Defective Work** - If required by the Project Manager prior to approval of final payment, the Contractor will, promptly, without cost to the County and as specified by the Project Manager, either correct any defective Work whether or not fabricated, installed or completed or, if the Work has been rejected by the Project Manager, remove it from the Site and replace it with non-defective Work.

If the Contractor does not correct such defective Work or remove and replace such rejected work within a reasonable time, or as specified in a written notice from the Project Manager, the County may have the deficiency corrected or the rejected work removed and replaced. All direct and indirect costs of such correction or removal and replacement shall be paid by the

Contractor. The Contractor will also bear the expense of making good all work of others destroyed or damaged by this correction, removal or replacement of his defective Work.

**One (1) Year Correction Period** - The Contractor shall be responsible for the timely correction of any deficiencies in the work for a period of one (1) year after final acceptance or such longer period of time as may be prescribed by law or by any other terms required by the Contract. The Contractor will promptly without cost to the County and in accordance with the Project Manager's written instructions either correct such defective Work or, if it has been rejected by the Project Manager, remove it from the site and replace it with non-defective Work. If the Contractor does not promptly comply with the terms of such instructions, the Project Manager may have the defective Work corrected or the rejected Work removed and replaced. All direct and indirect costs of such removal and replacement will be paid by the Contractor.

**Acceptance Of Defective Work** - If, instead of requiring correction or removal and replacement of defective Work, the Project Manager prefers to accept it, then he may do so. In such case, if acceptance occurs prior to approval of final payment, a Change Order shall be issued incorporating the necessary revisions in the Contract Documents including an appropriate reduction in the Contract amount. If the acceptance occurs after approval of final payment, the appropriate amount shall be paid by the Contractor to the County.

**Neglected Work By Contractor** - If the Contractor should neglect to prosecute the Work in accordance with the Contract Documents, including any requirements of the progress schedule, the County may, after reasonable written notice to the Contractor and without prejudice to any other remedy it may have, make good such deficiency and the cost thereof shall be charged against the Contractor. A Change Order shall be issued incorporating the necessary revision in the Contract Documents including an appropriate reduction in the Contract Amount. If the payments then or therefore due the Contractor are not sufficient to cover such amount, the Contractor will pay the difference to the County.

Notice is hereby given that the County will retain and pay for an independent materials testing laboratory to perform certain tests as follows:

- a. Initial concrete test cylinder making and testing (concrete mix design will be by Contractor).
- b. Initial earthwork compaction.
- c. Initial in-place testing of sub-grade, sub-base and base for roadways including thickness and compaction (soil cement design will be by Contractor). The County reserves the right to perform any other tests it deems necessary to ensure that any all construction is adequate for the purposes intended and meets all applicable criteria.
- d. Subsequent tests required after the initial tests to verify compliance with the Contract Documents in areas failing the initial tests shall be paid for by the Contractor by back charge to subsequent applications for payment.

The Contractor will perform and pay for all material testing and other testing specified in the Contract Documents and as stated in paragraphs a. through e. above. The purpose of performing these tests is to verify compliance with the specifications as set forth in the Contract Documents.

#### **ARTICLE 17 – DELAYS AND EXTENSION OF TIME**

**County Obligation** – The County owes no duty, obligation, damages, change in Contract Amount, or liability to Contractor as a result of any delay, interference, suspension or other event which may impact Contractor’s progress schedule of its contract.

**Extension of Time Sole Remedy** – Should Contractor’s performance, in whole or in part, be interfered with, delayed, re-sequenced, disrupted, or be suspended in the commencement, prosecution or completion, for reasons beyond Contractor’s control, and without any fault or negligence on its part contributing thereto, Contractor’s sole remedy shall be an extension of Contract Time in which to complete the Contract.

**Contract Time Extension** – The County may grant an extension of Contract Time when a controlling item of work on the critical path of Contractor’s progress schedule is delayed by factors not reasonably anticipated or foreseeable at the time of bid. Such time extension may be allowed only for delays occurring during the time for performance set forth in the progress schedule. Extensions of Contract Time will not be granted for delays due, in whole or in part, to the fault or negligence of Contractor or any entity or person for whom Contractor is responsible.

**Utility Conflicts, Relocation, and Adjustment Delays** – The Contractor is solely responsible for the coordination and resolution of all utility conflicts, relocations, and adjustments. Delays resulting from the resolution of utility conflicts, relocations, and adjustments to utilities will not be considered as the basis for granting a change in Contract Amount or Contract Time.

**Limitation on Damages** – In the event the provision regarding an extension of time as

being the sole remedy, see above, is not legally enforceable and Contractor is not limited to the sole remedy of an extension of time,

Contractor shall not under any circumstances be allowed to recover any of the following items of damage against the County: (1) profit; (2) loss of profit; (3) work inefficiencies; (4) loss of productivity; (5) overtime premiums; (6) escalation; (7) home office overhead, including but not limited to costs of any kind for home office personnel; (8) indirect damages; and (9) consequential damages, including but not limited to loss of bonding capacity, loss of bidding opportunities, and insolvency.

## **ARTICLE 18 - PAYMENT AND COMPLETION**

**Schedule of Values** – The Contractor shall submit a schedule of values for the work including quantities and unit prices totaling the total Contract Amount no later than twenty (20) days after receipt of the Notice to Proceed and prior to commencing Work on the project. The schedule of values shall be in a form satisfactory to the County.

The schedule of values shall subdivide the Work into sufficient detail to serve as the basis for progress payments during construction. Upon acceptance of the schedule of values by the Project Manager, it may be incorporated into the form of application for payment prescribed by the County.

The Contractor shall not imbalance its schedule of values nor artificially inflate any element thereof. The violation of this provision by the Contractor shall constitute a material breach of this contract.

**Progress Schedule** – The Contractor's Progress Schedule shall utilize the Critical Path Method ("CPM"). The Contractor's Progress Schedule shall be prepared using software approved by the County; the software shall be specifically intended for the preparation of construction schedules incorporating a critical path. The software used by the Contractor must be approved in advance by the County. The Contractor shall submit a Progress Schedule CPM (both in hard printed copy with network diagrams and electronic disc files) no later than twenty (20) days after receipt of the Notice to Proceed, and prior to commencing Work on the project. The Progress Schedule CPM shall clearly identify all controlling items of Work and activities defined as the critical path, which if delayed or prolonged, will delay the time of completion of the Contract. The critical path shall include a minimum 10% float time as part of the Contract Time for unforeseen conditions. Contractor shall provide additional float time above the required minimum 10% based on his experience, understanding of the scope, and inspection of the site.

**Progress Payment Update Schedules CPM** – If requested by the Project Manager, the Contractor shall submit an Update Schedule CPM to the Project Manager concurrent with each Application for Progress Payment. The Update Schedule CPM shall focus on the period from the last Update Schedule CPM to the current Update Schedule CPM submitted with the Application for Progress Payment. Activities that have either started or finished shall be reported as they actually occurred and designated as complete, if actually completed. For activities in progress that are forecasted to complete longer than planned, the remaining durations shall be revised, not the original durations. All out of sequence activities are to be reviewed and their relationships either verified or changed.

The Contractor's failure to submit a Progress Payment Schedule CPM and Progress Payment Narrative Report when requested by the Project Manager, with an Application for Progress Payment shall be sufficient reason for rejection of the Progress Payment request.

If the Project Manager rejects the Progress Payment Update Schedule CPM or the Progress Payment Narrative Report, the entire Progress Payment request shall be rejected and must be resubmitted with the corrected Progress Payment Update Schedule CPM and Progress Payment Narrative Report.

**Progress Payment Narrative Report** – When requested by the Project Manager each Update Schedule CPM shall be accompanied by a written Narrative Report. The Narrative Report shall describe the physical progress during the report period, plans for continuing the Work during the forthcoming report period, actions planned to correct any delays, and a detailed explanation of potential delays or problems and their estimated impact on performance, milestone completion dates, the forecasted completion date, and the forecasted substantial completion date. In addition, alternatives for possible schedule recovery to mitigate any potential delays shall be discussed.

If required by the Project Manager the Contractor's Progress Payment Narrative Report shall include a detailed list of all outstanding Contract Claims with a detailed description of each Contract Claim. The Narrative Report shall follow the outline set forth below:

**Contractor's Narrative Report Outline:**

- (1) Contractor's dated transmittal letter.
- (2) Work completed during the report period.
- (3) Description of the current critical path.
- (4) Description of problem areas.
- (5) Current and anticipated delays:
  - a. Cause of the delay
  - b. Corrective action and schedule adjustments to correct the delay.
- (6) Impact of the delay on other activities, milestones, and completion dates. Changes in construction sequences.
- (7) Pending items and status thereof:
  - a. Permits.
  - b. Change orders.
  - c. Time extensions.
- (8) A list of all outstanding Contract Claims and a detailed description of each Contract Claim.
- (9) Contract completion date status:
  - a. Ahead of schedule and number of days.
  - b. Behind schedule and number of days.

**Schedule and Report Format** – The Contractor shall submit the Progress Schedule



CPM, Progress Payment Update Schedules CPM, and the Progress Payment Narrative Report to the Project Manager on both: (1) electronic disc files; and, (2) printed copies of the network diagrams and narrative reports.

**Project Manager Review** – The Project Manager shall review the Contractor’s Progress Schedule CPM, Progress Payment Update Schedules CPM, and Progress Payment Narrative Reports.

The Project Manager may accept or reject Update Schedule CPMs or Narrative Reports. Rejected Update Schedule CPMs and Narrative Reports shall be corrected and re-submitted to the Project Manager.

**Final Schedule Update** – The Contractor within fifteen (15) days after substantial completion shall submit a final update of the schedule with actual start and actual finish dates for all activities and controlling items of Work identified as the critical path. The Final Schedule Update shall be accompanied by a certification signed by the Contractor stating, “To the best of my knowledge, the enclosed final update of the project schedule reflects the actual start and completion dates of the activities and controlling items of Work on the critical path.”

**Application For Progress Payment** – Applications for payments shall be processed in accordance with Florida Statute 218.735, Part VII, “Local Government Prompt Payment Act”.

The Project Manager shall provide written notice to the Contractor identifying the name, address, phone number and email address of the agent or employee the Contractor is required to submit payment requests or invoices to. This notice will be provided no later than ten (10) days after issuance of the Notice to Proceed.

Not more often than once a month, on a date established at the Project Pre-Construction Conference, the Contractor may submit to the Project Manager for review the County's standard application for payment form filled out and signed by the Contractor covering the Work completed as of the date of the Application and supported by such data as the Project Manager may reasonably require. Also, if payment is requested on the basis of materials and equipment not incorporated in the work but delivered and suitably stored at the site or at another location agreed to in writing, the application for payment shall also be accompanied by such supporting data, satisfactory to the Project Manager, as will establish the County's title to the material and equipment and protect its interest therein, including applicable insurance, partial Consent of Surety, and detailed inventory listing of stored material. Each such request shall include the submittal by the Contractor of (1) a detailed, itemized inventory listing the material stored at the site for which payment is requested, (2) documentation to indicate and substantiate the cost or value attributed to the items included in the stored material inventory list, and (3) the County's "Responsibility And Liability For Materials And Equipment Not Included In The Work" form executed by the Contractor. Failure to provide proper supporting documentation may subject the Progress Payment application to rejection. All progress payments will be subject to the retainage percentage specified in the Contract Documents that will be issued in the final payment after acceptance by the County of the Work.

Based upon Applications for Payment submitted to the Project Manager by the Contractor and Certificates for Payment issued by the Project Manager the County shall make progress payments on account of the Contract Amount to the Contractor as provided in the Contract Documents as follows:

**In the timeframes outlined in FS 218.735, Section 2, ninety percent (90%) of the portion of the Contract Amount properly allocable to labor, materials and equipment incorporated in the Work and ninety percent (90%) of the portion of the Contract Amount properly allocable to materials and equipment suitably stored at the site or at some other location agreed upon in writing, for the period covered by the application for payment, less the aggregate of previous payments made by the Owner. When the completion of the Work ascertained as payable exceeds fifty percent (50%) of the total contract amount the retainage percentage withheld shall be reduced to 5%.**

Upon Final completion of the entire Work, a sum sufficient to increase the total payments to one hundred percent (100%) of the Contract Amount, less such amounts as the Owner shall determine for all incomplete work and unsettled claims as provided in the Contract Documents.

The Contractor may, at the discretion of the County's Project Manager, be required to have applications for Progress Payments accompanied by Consent of Surety to Partial Payment. However, if payment or performance bonds are not required by the contract, the County's Project Manager may require applications for Progress Payments to be accompanied by legally effective partial releases or waivers of liens executed by all Subcontractors that performed services and suppliers of material or equipment for the Contractor for services or supplies which were included in the previous Application for Progress Payment. The Contractor shall include the following certification on each Application for Progress Payments and the Application for Final Payment:

"The undersigned Contractor certifies that the work covered by this application for payment has been done, or completed in accordance with the Contract documents, that all amounts have been paid by Contractor for work, supplies, material or equipment for which previous Certificates for Payment were issued and that the current payment shown herein is now due".

**Contractor's Warranty Of Title** - The Contractor warrants and guarantees that title to all work, materials and equipment covered by an application for payment, whether incorporated in the Project or not, will have passed to the County prior to the making of the application for payment, free and clear of all liens, claims, security interests and encumbrances; and that no work, materials or equipment covered by an application for payment will have been acquired by the Contractor or by any other person performing the work at the site or furnishing materials and equipment for the Project subject to an agreement under which an interest therein or encumbrance thereon is retained by the seller or otherwise imposed by the Contractor or such other person.

**Approval of Payments** - The Project Manager will, within twenty (20) business days after receipt of each application for payment, either indicate his approval of payment or return the Application to the Contractor indicating in writing the reason for refusing to approve

payment. In the latter case, the Contractor may make the necessary corrections and re-submit the Application. The County will pay the Contractor the amount approved within the time frame set forth in the Local Government Prompt Payment Act.

In the event the Contractor and the Project Manager do not achieve mutual agreement on the basis or amount of the payment, and should the Contractor be unwilling to make the necessary corrections or modifications, and re-submit the Application, then the County, to avoid delay in paying the Contractor the amount the County has determined the Contractor is entitled to receive, shall approve and process the Application by making such adjustments thereto as the County deems appropriate so that the Contractor receives, without delay, payment of the amount the County has determined to have been earned and owing to the Contractor.

In the event a dispute arises involving payments or invoices that have been rejected by the Project Manager and resubmitted by the Contractor and that cannot be resolved in accordance with F.S. 218.735 (3) the Orange County Payment/Invoice Disputes Resolution Process Procedures shall be used to resolve the dispute. The procedures can be obtained by contacting the Procurement Division at (407)-836-5635.

The Project Manager's approval of any payment requested in an application for payment shall constitute a representation by him to the County, based on the Project Manager's on-site observations of the Work in progress and on his review of the application for payment and the supporting data, that the Work has progressed to the point indicated; that, to the best of his knowledge, information and belief, the quality of the Work is in accordance with the Contract Documents (subject to an evaluation of the Work as a functioning Project upon Substantial Completion, to the results of any subsequent tests called for in his approval); and that the Contractor is entitled to payment of the amount approved.

However, by approving any such payment, the Project Manager shall not thereby be deemed to have represented that he made exhaustive or continuous on-site inspections to check the quality or quantity of the Work, that he has reviewed the means, methods, techniques, sequences and procedures of construction nor that he has made any examination to ascertain how or for what purpose the Contractor has used the moneys paid or to be paid to him on account of the Contract Amount.

The Project Manager's approval of final payment shall constitute an additional representation by him to the County that the conditions precedent to the Contractor's belief being entitled to final payment as set forth in this Article have been fulfilled.

The Project Manager may refuse to approve the whole or any part of any payment if in his opinion he is unable to make such representations to the County. He may then refuse to approve any such payment because of subsequently discovered evidence or the results of subsequent inspections or tests, nullify any such payment previously approved, to such extent as may be necessary in his opinion to protect the County from loss because:

- A. The Work is defective;
- B. Claims have been filed or there is reasonable evidence indicating the probable filing thereof;



- C. The Contract Amount has been reduced because of Change Order(s);
- D. The County has been required to correct defective Work or complete the Work in accordance with Article 16; or
- E. Of unsatisfactory prosecution of the Work, including failure to clean up as required by Article 9.

**Substantial Completion** - Prior to final payment, the Contractor shall certify in writing to the Project Manager that the entire Work is Substantially Complete and request that the Project Manager issue a certificate of Substantial Completion.

Within a reasonable time thereafter, the Project Manager and Contractor will make an inspection of the Work to determine the status of completion. If the Project Manager does not consider the Work Substantially Complete, the Contractor will be notified in writing giving the reasons therefore. If the Project Manager considers the Work Substantially complete, a tentative certificate of Substantial Completion will be issued. This Certificate shall fix the date of Substantial Completion and the responsibilities between the County and the Contractor for maintenance, heat and utilities.

There shall be attached to the Certificate a single punch list of items to be completed or corrected by the Contractor. The punch list must specify a date, not to exceed five (5) days after the punch list has been developed and reviewed, in which the delivery of the punch list to the Contractor must be made. Items not included on the punch list cannot be used as a basis to withhold final payment for retainage. In addition, the final contract completion date shall be at least thirty (30) days after the delivery of the punch list to the Contractor. Punch lists not provided to the Contractor by the date agreed upon for delivery will cause the contract time for completion to be extended by the number of days the local government exceeded the delivery date.

Damages may only be assessed against the Contractor in the event the Contractor fails to complete the project within the contract period as was extended by the guidelines set forth in this provision.

The final undisputed retainage payment must be made within twenty (20) business days after receipt of a proper payment request. This would be less any amount withheld in accordance with the contract provisions for incomplete or uncorrected work unless otherwise provided for by written notice to the Contractor specifying the failure of the Contractor to meet contract requirements in the development of the punch list.

The County shall have the right to exclude the Contractor from the Work after achievement of Substantial Completion, but the County will allow the Contractor reasonable access to complete items on the punch list.

**Partial Utilization** - Prior to Substantial Completion, the Project Manager may request the Contractor to permit the use of a specified part of the Work which it believes it may use without significant interference with construction of other parts of the Work. If the Contractor agrees, he will certify to the Project Manager that said part of the Work is Substantially Complete and request the Project Manager issue a certificate of Substantial

Completion for that part of the Work. Within a reasonable time thereafter, the Project Manager and Contractor will make an inspection of that part of the Work to determine its status of completion.

If the County and the Project Manager consider that part of the Work to be Substantially Complete, the Project Manager will deliver to the Contractor a certificate to that effect, fixing the date of Substantial Completion as to that part of the Work, attaching thereto a punch list of items to be completed or corrected before final payment and fixing the responsibility between the County and Contractor for maintenance, heat and utilities as to that part of the Work.

The County shall have the right to exclude the Contractor from any part of the Work which is so certified to be Substantially Complete but the County will allow the Contractor reasonable access to complete or correct items on the punch list.

**Final Inspection** - Upon written notice from the Contractor that the Work is complete, including the "punch" listed deficiencies, the Project Manager will make a final inspection with the Contractor and will notify the Contractor in writing of any particulars in which this inspection reveals that the Work is defective. The Contractor shall immediately make such corrections as are necessary to remedy such defects and to complete all the required work.

**Final Inspection For Payment** - After the Contractor has completed any such corrections to the satisfaction of the Project Manager and delivered all maintenance and operating instructions, schedules, guarantees, bonds, Certificates of Inspection and other documents as required by the Contract Documents, he may make application for final payment following the procedure for progress payments.

For projects that the Contractor was required to furnish a payment and performance bond, the final application for payment shall be accompanied by legally effective final release or waiver of lien from the Contractor and the consent of Surety to final payment. The Final Release of Lien, Form E-12, must be utilized in all Final Pay Applications.

For projects **not** requiring bonds the final application for payment shall be accompanied by legally effective final releases or waivers of liens from the Contractor and all Subcontractors which performed services for the Contractor and all suppliers of material and/or equipment to the Contractor. The Final Release of Lien, Form E-12, must be utilized in all Final Pay Applications.

**Approval Of Final Payment** - If, on the basis of its observations and review of the Work during construction, its final inspection and its review of the final application for payment (all as required by the Contract Documents), the Project Manager is satisfied that the Work has been completed and the Contractor has fulfilled all of his obligations under the Contract Documents, it will, within twenty (20) business days after receipt of the final application for payment, indicate in writing its approval of payment. Otherwise, it will return the Application to the Contractor, indicating in writing its reason for refusing to approve final payment, in which case the Contractor will make the necessary corrections and re-submit the Application.

The County will, in accordance with the Local Government Prompt Payment Act, pay the Contractor the amount approved by the County and issue a Certificate of Final Completion.

If after Substantial Completion of the Work, Final Completion is materially delayed through no fault of the Contractor, and the Project Manager so confirms, the County shall, and without terminating the Contract, make payment of the balance due for that portion of the Work fully completed and accepted. If the remaining balance for Work not fully completed or corrected is less than the retainage stipulated in the Contract, the written consent of the Surety to the payment of the balance due for that portion of the Work fully completed and accepted shall be submitted by the Contractor to the Project Manager prior to certification of such payment. Such payment shall be made under the terms and conditions governing final payment, except that it shall not constitute a waiver of claims.

**Contractor's Continuing Obligation** - The Contractor's obligation to perform the Work and complete the Work in accordance with the Contract Documents shall be absolute. Neither approval of any progress or final payment by the County, the issuance of Certificate of Completion, any payment by the County to the Contractor under the Contract Documents, any use or occupancy of the Work or any part thereof by the County, any act of acceptance by the County, any failure to do so, nor any correction of defective Work by the County shall constitute an acceptance of Work not in accordance with the Contract Documents.

**Waiver Of Claims** - The making and acceptance of final payment shall constitute:

- A. A waiver of all claims by the County against the Contractor other than those arising from unsettled liens, from defective Work appearing after final payment or from failure to comply with the requirements of the Contract Documents, or from the terms of any special guarantees specified therein, and,
- B. A waiver of all claims by the Contractor against the County other than those previously made in writing and still unsettled.

**Any work completed by Orange County will not be eligible for reimbursement.**

## **ARTICLE 19 - SUSPENSION OF WORK AND TERMINATION**

**County May Suspend Work** - The County may at any time and without cause suspend the Work or any portion thereof by notice in writing to the Contractor. The Project Manager shall fix the date on which Work shall be resumed and the Contractor will resume the Work on the date so fixed.

For unreasonable delays, the Contractor will be allowed an increase in the Contract Amount, an extension of the Contract Time or both, if directly attributable to any suspension and if he makes a claim therefore provided in Article 13. However, no profits will be allowed on claims for suspended work. Also, during any period of suspension, the Contractor shall take all available measures to mitigate costs such as taking on new work, reassigning resources to other Contracts, etc.

**County May Terminate for Cause** - If the Contractor is adjudged bankrupt or insolvent; if he makes a general assignment for the benefit of his creditors without County approval; if a trustee or receiver is appointed for the Contractor or for any of his property; if he files a

petition to take advantage of any debtor's act or to reorganize under the bankruptcy or similar laws; if he fails to prosecute and complete the Work in accordance with the established Project schedule or within the Contract Time allowed; if he repeatedly fails to supply sufficient skilled workers or suitable materials or equipment; if he repeatedly fails to make prompt payment to Subcontractors for labor, materials or equipment; if he disregards laws, ordinances, rules, regulations or orders of any public body having jurisdiction; if he disregards the authority of the Project Manager; or if he otherwise substantially violates any provisions of the Contract Documents, then the County may, without prejudice to any other right or remedy and after giving the Contractor and his Surety if applicable seven (7) days written notice, terminate the services of the Contractor and take possession of the Work and of all materials, equipment, tools, construction equipment and machinery thereon owned by the Contractor and assign the completion of the Work to the Surety, or finish the Work by whatever method it may deem expedient. In such case, the Contractor shall not be entitled to receive any further payment until the Work is finished.

If the unpaid balance of the Contract Amount exceeds the direct and indirect cost of completing the Work, including compensation for additional professional services, such excess shall be paid to the Contractor. If such cost exceeds the unpaid balance, the Contractor shall pay the difference to the County within fifteen (15) days after notification.

If the contractor fails to provide such payment to the County, the County at its sole discretion may deduct the balance owed from payments due the Contractor on any other contracts between the Contractor and the County. Such cost incurred by the County will be determined by the County and incorporated in a Change Order.

If the County elects to assign the completion of the Work to the Surety, and the Surety tenders a replacement contractor, then Surety shall provide performance, payment and other surety bonds as may be required in accordance with the Contract Documents.

Where the Contractor's services have been so terminated by the County, said termination shall not affect any rights of the County against the Contractor then existing or which may thereafter accrue. Any retention or payment of monies by the County due the Contractor will not release the Contractor from liability.

Upon Termination for Cause, the Contractor shall not be entitled to payment for any anticipated supplemental costs, administrative expenses and/or profit for uncompleted Work.

If the Contractor's failure to perform the contract arises from causes beyond the control and without the fault or negligence of the Contractor the contract shall not be terminated for default. Examples of such causes include (1) acts of God or the public enemy, (2) acts of a government in its sovereign capacity, (3) fires, (4) floods, (5) epidemics, (6) strikes and (7) unusually severe weather.

If after notice of termination of the services of the Contractor for cause, it is determined that the Contractor was not in default, the termination shall be deemed to have been for the convenience of the County. In such event the Contractor may recover from the County payment for Work completed and reasonable termination costs as provided in the following paragraph.

**Termination for Convenience:** Upon seven(7) days written notice to the Contractor and the Surety, or sooner if reasonable under the circumstances, the County may, without

cause and without prejudice to any other right or remedy, elect to terminate any part of the Work, or the Contract in whole or in part, as the County may deem appropriate. In any termination for convenience, the Contractor shall be paid for Work completed by the Contractor, Subcontractors and Suppliers at the time of termination provided the Work has been inspected and accepted by the County. However, the payment to the Contractor will exclude any and all anticipated supplemental costs, administrative expenses and profit for uncompleted Work. Upon termination for convenience, the County shall have full power and authority to take possession of the Work, assume any sub-agreements with Subcontractors and suppliers that the County selects, and prosecute the Work to completion by Contract or as the County may deem expedient. A termination for convenience may apply to individual delivery orders, purchase orders or to the contract in its entirety.

**Authority to Terminate:** The authority to terminate this Contract including all notices thereto is the sole responsibility of the Manager, Procurement Division.

## **ARTICLE 20 - MAINTENANCE AND EXAMINATION OF RECORDS**

The Contractor shall keep adequate records and supporting documents applicable to this Contract. Said records and documentation shall be retained by the Contractor for a minimum of five (5) years after the date of final payment on this contract. If any litigation, claim or audit is commenced prior to the expiration of the five (5) year period, the records shall be maintained until all litigation, claims or audit findings involving the records have been resolved.

If applicable, time records and cost data shall be maintained in accordance with generally accepted accounting principles. This includes full disclosure of all transactions associated with the contract.

Contractor's "records and supporting documents" as referred to in this Contract shall include any and all information, materials and data of every kind and character, including without limitation, records, books, papers, documents, subscriptions, recordings, agreements, purchase orders, invoices, leases, contracts, commitments, arrangements, notes, daily diaries, superintendent reports, drawings, receipts, vouchers and memoranda, and any and all other agreements, sources of information and matters that may in the County's judgment have any bearing on or pertain to any matters, rights, duties or obligations under or covered by any Contract document. Such records and documents shall included (hard copy, as well as computer readable data, written policies and procedures; time sheets; payroll registers; cancelled checks; subcontract files (including proposals of successful and unsuccessful bidders, bid recaps, etc.); original estimates; estimating worksheets; correspondence; change order files (including pricing data used to price change proposals and documentation covering negotiated settlements); back-charge logs and supporting documentation; general ledger entries detailing cash and trade discounts earned, insurance rebates and dividends; and any other contractor records which may have a bearing on matters of interest to the County in connection with the Contractor's dealings with the County (all foregoing hereinafter referred to as "records and supporting documents") to the extent necessary to adequately permit evaluation and verification of:

- a) Contractor compliance with contract requirements; or
- b) Compliance with provisions for pricing change orders; or
- c) Compliance with provisions for pricing invoices; or
- d) Compliance with provisions regarding pricing of claims submitted by the



- Contractor or his payees; or
- e) Compliance with the County's business ethics; or
- f) Compliance with applicable state statutes and County Ordinances and regulations.

Records and documents subject to audit shall also include those records and documents necessary to evaluate and verify direct and indirect costs, (including overhead allocations) as they may apply to costs associated with this Contract. In those situations where Contractor's records have been generated from computerized data (whether mainframe, mini-computer, or PC based computer systems), Contractor agrees to provide the County's representatives with extracts of data files in computer readable format on data disks or suitable alternative computer exchange formats.

The County and its authorized agents shall have the right to audit, inspect and copy records and documentation as often as the County deems necessary throughout the term of this contract and for a period of five (5) years after final payment. Such activity shall be conducted during normal business hours. The County, or any of its duly authorized representatives, shall have access within forty-eight (48) hours to such books, records, documents, and other evidence for inspection, audit and copying.

The County, during the period of time defined by the preceding paragraph, shall have the right to obtain a copy of and otherwise inspect any audit made at the direction of the Contractor as concerns the aforesaid records and documentation. Records and documents shall be made accessible at the Contractor's local place of business.

If the records are unavailable locally, it shall be the Contractor's responsibility to insure that all required records are provided at the Contractor's expense including payment of travel and maintenance costs incurred by the County's authorized representatives or designees in accessing records maintained out of the county. The direct costs of copying records, excluding any overhead cost, shall be at the County's expense.

Contractor shall require all payees (examples of payees include subcontractors, insurance agents, material suppliers, etc.) to comply with the provisions of this article by including the requirements hereof in a written contract agreement between contractor and payee. Such requirements include a flow-down right of audit provisions in contracts with payees, which shall also apply to Subcontractors and Sub-subcontractors, material suppliers, etc. Contractor shall cooperate fully and shall cause all aforementioned parties and all of Contractor's subcontractors (including those entering into lump sum subcontracts and lump sum major material purchase orders) to cooperate fully in furnishing or in making available to the County from time to time whenever requested in an expeditious manner any and all such records, documents, information, materials and data.

The County's authorized representatives or designees shall have reasonable access to the Contractor's facilities, shall be allowed to interview all current or former employees to discuss matters pertinent to the performance of this Contract and shall have adequate and appropriate work space, in order to conduct audits in compliance with this article.

Even after a change order proposal has been approved, Contractor agrees that if the County later determines the cost and pricing data submitted was inaccurate, incomplete, not current or not in compliance with the terms of the contract regarding pricing of change orders, then an appropriate contract price reduction will be made.

Such post-approval contract price adjustment will apply to all levels of contractors and/or subcontractors and to all types of change order proposals specifically including lump sum change orders, unit price change orders, and cost-plus change orders.

If an audit inspection or examination by the County, or its designee, in accordance with this article discloses overpricing or overcharges (of any nature) by the Contractor to the County in excess of one-half of one percent (.5%) of the total contract billings, the reasonable actual cost of the County's audit shall be reimbursed to the County by the Contractor.

Any adjustments and /or payments that must be made as a result of any such audit or inspection of the contractor's invoices and /or records and supporting documents shall be made within a reasonable amount of time (not to exceed 90 days) from presentation of the County's findings to the Contractor.

**ARTICLE 21 – SMALL AND MINORITY BUSINESS ENTERPRISE (MBE), WOMEN BUSINESS ENTERPRISES (WBE), AND LABOR SURPLUS AREA FIRMS**

NOT APPLICABLE FOR THIS CONTRACT.

**ARTICLE 22 - FEDERAL REQUIREMENTS**

REFER TO VOLUME III, LAP DIVISION I SPECIFICATIONS, WAGE RATES AND FDOT FORMS.

**ARTICLE 23 – VERBAL ORDERS**

The Project Manager under the following conditions may issue verbal change orders to the contract:

- A. To address bona fide emergency requirements. Emergency requirements are described as those requiring immediate action due to (1) an imminent or existing threat to the health, safety or welfare of persons or property and (2) conditions which poses serious economic damage to the County.
- B. To ensure the continuity of critical elements of contract performance.

**Any such verbal direction shall be confirmed in writing by the Project Manager to the contractor within five (5) calendar days after issuance. Concurrently, a copy of the written direction shall be provided to the Manager, Procurement Division with documentation in the form of an emergency justification to support the action taken.**

A formal change order and associated contract amendment, if applicable, will be negotiated in conjunction with the Procurement Division and shall succeed the written confirmation not later than thirty (30) calendar days after issuance of the verbal direction.

Board approval, as applicable, shall be obtained.

## **ARTICLE 24 – MISCELLANEOUS**

Whenever any provision of the Contract Documents requires the giving of written notice, it shall be deemed to have been validly given if delivered in person to the individual, to a member of the firm or to an officer of the corporation for whom it is intended, or if delivered at or sent by registered or certified mail (postage prepaid) to the last business address known to the County.

All Specifications, Drawings and copies thereof furnished by the County shall remain its property. They shall not be used on another Project and, with the exception of those sets which have been signed in connection with the execution of the Contract, shall be returned to the County upon completion of the Work.

The duties and obligations imposed by these General Conditions and the rights and remedies available hereunder, and, in particular but without limitation, the warranties, guarantees and obligations imposed upon the Contractor and the rights and remedies available to the County thereunder shall be in addition to and not a limitation of any otherwise imposed or available by law, by special guarantee or other provisions of the Contract Documents.

Should the County or the Contractor suffer injury or damage to its person or property because of any error, omission or act of the other or of any of his employees, agents or others for whose acts he is legally liable, claim should be made in writing to the other party within a reasonable time of the first observance of such injury or damage.

This Contract shall be governed by the laws of the State of Florida. Any and all legal action necessary to enforce the provisions of this Contract will be held in Orange County, Florida. Venue for any litigation involving this Contract shall be the Ninth Circuit Court in and for Orange County, Florida.

The obligations of Orange County under this award are subject to the availability of funds lawfully appropriated for its purpose by the State of Florida and the Board of County Commissioners, or other specified funding source for this contract.

The County will be represented on site by one or more Inspectors who are employed by the County or by a Construction Engineering and Inspection (CEI) firm under contract to the County. The Contractor is to follow all directions provided by these Inspectors. Provided, however, that any such directions shall not be construed to:

- a. Authorize any deviation from the Contract Documents that:
  - Requires a change in the Contract Price or Contract Time;
  - Materially changes any aspect of the work covered by a permit to the extent that the regulatory agency having jurisdiction would require modification of the permit;
  - Materially changes any aspect of the work to the extent that the intent of the design is compromised;
- b. Approve any substitute materials or equipment;
- c. Undertake any of the responsibilities of Contractor, subcontractors or Contractor's superintendent, or expedite the Work; Direct the Contractor as to any aspect of the means, methods, techniques, sequences or procedures of construction unless such is specifically called for in the Contract Documents;
- d. Advise on or issue directions as to safety precautions and programs in connection with the Work.



## **ARTICLE 25 – CONTRACT CLAIMS**

“Claim” as used in this provision means a written demand or written assertion by one of the contracting parties seeking as a matter of right, the payment of a certain sum of money, the adjustment or interpretation of contract terms, or other relief arising under or relating to this contract.

Claims made by a Contractor against the County relating to a particular contract shall be submitted to the Procurement Division Manager in writing clearly labeled “Contract Claim” requesting a final decision.

“Claim” as used in this provision applies after failure of the parties to agree to an adjustment as provided in Article 13, Change of Contract Amount and Contract Time. The Contractor also shall provide with the claim a certification as follows: “I certify that the claim is made in good faith; that the supporting data are accurate and complete to the best of my knowledge and belief; that the amount requested accurately reflects the contract adjustment for which the Contractor believes the County is liable; and that I am duly authorized to certify the claim on behalf of the Contractor.”

**Failure to document a claim in this manner shall render the claim null and void. Moreover, no claim shall be accepted after final payment of the contract.**

The decision of the Procurement Division Manager shall be issued in writing and shall be furnished to the Contractor.

The decision shall state the reasons for the decision reached. The Procurement Division Manager shall render the final decision within sixty (60) days after receipt of Contractor’s written request for a final decision. The Procurement Division Manager’s decision shall be final and conclusive.

The Contractor shall proceed diligently with performance of this contract pending final resolution of any request for relief, claim, appeal or action arising under the contract and shall comply with any final decision rendered by the Manager of the Procurement Division.

## **ARTICLE 26 - VALUE ENGINEERING**

**A. Intent and Objective:** This Section applies to any cost reduction proposal (hereinafter referred to as a Value Engineering Change Proposal or VECP) initiated and developed by the CONTRACTOR for the purpose of refining the Contract Documents so as to contribute to design cost effectiveness or significantly improve the quality of the Work. This Section does not, however, apply to any such proposal unless it is identified by the CONTRACTOR, at the time of its submission to the COUNTY, as a proposal submitted pursuant to this Section.

VECPs contemplated are those that would result in net savings to the COUNTY by providing either: (A) a decrease in the cost of performance of the Work, or; (B) a reduction in cost of ownership (hereinafter referred to as collateral costs) of the Work, regardless of acquisition costs. VECPs must result in savings without impairing essential functions and characteristics such as safety, service, life, reliability, economy of operation, ease of maintenance, aesthetics and necessary standard design features. However, nothing herein prohibits the submittal of VECPs where the required functions and characteristics could be combined, reduced or eliminated as being nonessential or excessive. Plan errors which are identified by the CONTRACTOR and which result in a cost reduction, will not qualify for submittal as a VECP.

The COUNTY reserves the right to reject at its discretion any VECP submitted. Substitution of another design alternate, which is detailed in the Plans, for the one on which the CONTRACTOR bid, will not be allowed under this Section. Pending execution of a formal supplemental Agreement, implementing an approved VECP, the CONTRACTOR shall remain obligated to perform in accordance with the terms of the existing Contract. No time extensions will be granted due to the time required to review a VECP.

**B. Subcontractors:** The CONTRACTOR is encouraged to include the provisions of this Section in contracts with subcontractors. The CONTRACTOR shall encourage submission of VECPs from subcontractors, however, it is not mandatory that VECPs be submitted nor is it mandatory that the CONTRACTOR accept or transmit to the COUNTY VECPs proposed by his subcontractors.

**C. Data Requirements:** As a minimum, the following information shall be submitted by the CONTRACTOR with each VECP;

- (1) A description of the difference between the existing requirements and the proposed change, and the comparative advantages and disadvantages.
- (2) Separate detailed cost estimates for both the existing requirements and the proposed change. The cost estimates shall be broken down by item numbers indicating quantity increases or decreases and deleted pay

items.

Additional proposed Work, now covered by the Contract Documents, shall be identified by current COUNTY pay item numbers. In preparing the estimates, the CONTRACTOR shall include overhead, profit and bond. No separate pay item(s) for these costs will be allowed.

- (3) An itemization of plan details, plan sheets, design standards and Specifications that must be changed or added if the VECP is adopted. Preliminary plan drawings must be sufficient to describe the proposed changes.
- (4) An estimate of the effects the VECP would have on collateral costs to the COUNTY.
- (5) Engineering Incentive or other analysis in sufficient detail to identify and describe specific features of the Contract Documents which must be changed if the VECP is accepted, with a proposal as to how these changes can be accomplished and an assessment of their effect on other Project elements. The COUNTY may require that Engineering Incentive analyses be performed by a prequalified consultant in the applicable class of Work. Any design changes which result from the VECP must be supported by computations sealed by a Professional registered in the State of Florida.
- (6) A statement of the time by which approval of the VECP must be issued by the COUNTY to obtain the total estimated cost reduction during the remainder of this Contract noting any effect on the Contract completion time or delivery schedule.

**D. Processing Procedures:** Two copies of each VECP shall be submitted to the County's Project Manager, or his/her duly authorized representative, VECPs will be processed expeditiously; however, the COUNTY will not be liable for any delay in acting upon a VECP submitted pursuant to this Section. The CONTRACTOR may withdraw, in whole or in part, a VECP not accepted by the COUNTY within the period specified in the VECP.

The COUNTY shall not be liable for any VECP development cost in the case where a VECP is rejected or withdrawn.

The COUNTY shall be the sole judge of the acceptability of a VECP and of the estimated net savings in construction and/or collateral costs from the adoption of all or any part of such proposal. In determining the estimated net savings, the right is reserved to disregard the Contract prices if, in the judgment of the COUNTY, such prices do not represent a fair measure of the value of Work to be performed or to be deleted. Prior to approval, the COUNTY may modify a VECP, with the concurrence of the CONTRACTOR, to make it acceptable. If any modification increases or decreases the net savings resulting from the VECP, the CONTRACTOR'S fair share will be determined upon the basis of the VECP modified and upon determination of final quantities. The net savings shall be computed by subtracting the revised total cost of all bid items affected by the VECP design from the total cost of the same bid items as represented in the

Contract Documents. Prior to approval of the VECP, which initiates the supplemental Contract, the CONTRACTOR shall provide acceptable contract quality Plan sheets revised to show all details consistent with the VECP design.

- E. Computations for Change in Contract Cost of Performance:** CONTRACTOR development and implementation costs for the VECP will not be recoverable.

If the VECP is adopted, the CONTRACTOR'S share of the net savings as defined hereinafter shall be considered full compensation to the CONTRACTOR for the VECP. COUNTY costs of processing or implementation of a VECP will not normally be considered in the estimate.

However, the COUNTY reserves the right, where it deems such action appropriate, to require the CONTRACTOR to pay the COUNTY'S cost of investigating and implementing a VECP submitted by the CONTRACTOR as a condition of considering such proposal.

Where such a condition is imposed, the CONTRACTOR shall indicate his acceptance thereof in writing, and such acceptance shall constitute full authority for the COUNTY to deduct amounts payable to the COUNTY from any monies due or that may become due to the CONTRACTOR under the Contract.

- F. Computations for Collateral Costs:** When collateral cost savings are sought by the CONTRACTOR, separate estimates must be prepared for collateral costs of both the existing Contract requirement and the proposed change.

Each estimate shall consist of an itemized breakdown of all costs and the basis for the data used in the estimate. Cost benefits to the COUNTY include, but are not limited to: reduced costs of operation, maintenance or repair, and extended useful service life. Increased collateral costs include the converse of such factors. Computations shall be as follows:

- (1) Costs shall be calculated over a 20-year period on a uniform basis for each estimate.
- (2) If the difference in the estimates as approved by the COUNTY indicate a savings, the CONTRACTOR shall divide the resultant amount by 20 to arrive at the average annual net collateral savings. The resultant savings shall be shared as stipulated in paragraph G below.

- G. Sharing Arrangements:** If a VECP is approved by the COUNTY, the CONTRACTOR may be entitled to share in both construction savings and collateral savings to the full extent provided for in this subsection. Except for innovative ideas, the CONTRACTOR and COUNTY shall each receive 50 percent of net reduction in the cost of performance of this Contract. For innovative ideas, the reduction in the cost of performance shall be shared as follows:

<b>ACCRUED NET SAVINGS SHARE %</b>	<b>CONTRACTOR'S</b>	<b>COUNTY'S SHARE %</b>
Less than \$25,000		85
15		
\$25,000 to \$50,000		75
25		
Over \$50,000		50
50		

If an approved change is identical or similar to a previously submitted VECP or an idea previously utilized by the COUNTY it will not be considered an innovative idea, thus, will only qualify for a 50 percent sharing of savings. When collateral savings occur, the CONTRACTOR shall receive 20 percent of the average one year's net collateral savings. The CONTRACTOR shall not receive construction savings or collateral savings on optional Work listed in this Contract until the COUNTY exercises its option to obtain that Work.

**ARTICLE 27 – PATENTS AND ROYALTIES**

Unless otherwise provided, the bidder shall be solely responsible for clearing the right to use any patented or copyrighted materials in the performance of the contract. The Contractor, without exception, shall indemnify and save harmless the County and its employees from liability of any nature or kind, including cost and expenses for or on account of any copyrighted, patented, or unpatented invention, process, or article manufactured or supplied by the Contractor.

In the event of any claim against the County of copyright or patent infringement, the County shall promptly provide written notification to the Contractor. If such a claim is made, the Contractor shall use its best efforts to promptly purchase for the County any infringing products or services or procure a license, at no cost to the County, which will allow continued use of the service or product. If none of the alternatives are reasonably available, the County agrees to return the article on request to the Contractor and receive reimbursement, if any, as may be determined by a court of competent jurisdiction.

**ARTICLE 28 – OWNER DIRECT PURCHASE**

**NOT APPLICABLE FOR THIS CONTRACT**

**ARTICLE 29 – PUBLIC RECORDS COMPLIANCE (APPLICABLE FOR SERVICE CONTRACTS)**

Orange County is a public agency subject to Chapter 119, Florida Statutes. The Contractor agrees to comply with Florida's Public Records Law. Specifically, the Contractor shall:

1. Keep and maintain public records required by Orange County to perform the service.
2. Upon request from Orange County's custodian of public records, provide Orange County with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in this chapter or as otherwise provided by law. Ensure that public records that are exempt or confidential and exempt from the public records disclosure requirements are not disclosed except as authorized by law for the duration of the contract term and following completion of the contract if the Contractor does not transfer the records to Orange County.
3. Upon completion of the contract, Contractor agrees to transfer at no cost to Orange County all public records in possession of the Contractor or keep and maintain public records required by Orange County to perform the service. If the Contractor transfers all public record to Orange County upon completion of the contract, the Contractor shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the Contractor keeps and maintains public records upon completion of the contract, the Contractor shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to Orange County, upon request from Orange County's custodian of public records, in a format that is compatible with the information technology systems of Orange County.
4. A Contractor who fails to provide the public records to Orange County within a reasonable time may be subject to penalties under section 119.10, Florida Statutes.
5. **IF THE CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONTRACTOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT :**

**PROCUREMENT DIVISION PUBLIC RECORDS LIAISON  
400 E. SOUTH STREET, 2<sup>ND</sup> FLOOR, ORLANDO, FL 32801  
407-836-5897  
[ProcurementRecords@ocfl.net](mailto:ProcurementRecords@ocfl.net)**

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**DESIGNATED CONSTRUCTION PROJECT(S)  
GENERAL AGGREGATE LIMIT**

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

**SCHEDULE**

**Designated Construction Projects:**  
"Any person or organization on whose behalf you are required to obtain  
a Designated Construction Project under a written contract or agreement"

(If no entry appears above, information required to complete this endorsement will be shown in the Declarations as applicable to this endorsement.)

- A. For all sums which the insured becomes legally obligated to pay as damages caused by "occurrences" under COVERAGE A (SECTION I), and for all medical expenses caused by accidents under COVERAGE C (SECTION I), which can be attributed only to ongoing operations at a single designated construction project shown in the Schedule above:
  - 1. A separate Designated Construction Project General Aggregate Limit applies to each designated construction project, and that limit is equal to the amount of the General Aggregate Limit shown in the Declarations.
  - 2. The Designated Construction Project General Aggregate Limit is the most we will pay for the sum of all damages under COVERAGE A, except damages because of "bodily injury" or "property damage" included in the "products-completed operations hazard", and for medical expenses under COVERAGE C regardless of the number of:
    - a. Insureds;
    - b. Claims made or "suits" brought or
    - c. Persons or organization making claims or bringing "suits"
  - 3. Any payments made under COVERAGE A for damages or under COVERAGE C for medical expenses shall reduce the Designated Construction Project General Aggregate Limit for that designated construction project. Such payments shall not reduce the General Aggregate Limit shown in the Declarations nor shall they reduce any other Designated Construction Project General Aggregate Limit for any other designated construction project shown in the Schedule above.
  - 4. The limits shown in the Declarations for Each Occurrence, Fire Damage and Medical Expense continue to apply. However, instead of being subject to the General Aggregate Limit shown in the Declarations, such limits will be subject to the applicable Designated Construction Project General Aggregate Limit.
- B. For all sums which the insured becomes legally obligated to pay as damages caused by "occurrences" under COVERAGE A (SECTION I), and for all medical expenses caused by accidents under COVERAGE C (SECTION I), which cannot be attributed only to ongoing operations at a single designated construction project shown in the Schedule above:
  - 1. Any payments made under COVERAGE A for damages or under COVERAGE C for medical expenses shall reduce the amount available under the General Aggregate Limit or the Products-Completed Operations Aggregate Limit, whichever is applicable; and
  - 2. Such payments shall not reduce any Designated Construction Project General Aggregate Limit.
- C. When coverage for liability arising out of the "products- completed operations hazard" is provided, any payments for damages because of "bodily injury" or "property damage" included in the "products-completed operations hazard" will reduce the Products-Completed Operations Aggregate Limit, and not reduce the General Aggregate Limit nor the Designated Construction Project General Aggregate Limit.
- D. If the applicable designated construction project has been abandoned, delayed, or abandoned and then

restarted, or if the authorized contracting parties deviate from plans, blueprints, designs, specifications or timetables, the project will still be deemed to be the same construction project.

- E. The provisions of Limits of Insurance (SECTION III) not otherwise modified by this endorsement shall continue to apply as stipulated.



**BUILDERS RISK COVERAGE FORM**

Various provisions in this policy restrict coverage. Read the entire policy carefully to determine rights, duties and what is and is not covered.

Throughout this policy the words “you” and “your” refer to the Named Insured shown in the Declarations. The words “we”, “us” and “our” refer to the Company providing this insurance.

Other words and phrases that appear in quotation marks have special meaning. Refer to Section G., Definitions.

**A. Coverage**

We will pay for direct physical loss of or damage to Covered Property at the premises described in the Declarations caused by or resulting from any Covered Cause Loss.

**1. Covered Property**

Covered Property as used in this Coverage Part, means the type of property described in this section, **A.1.**, and limited in **A.2.**, Property Not Covered, If a Limit of Insurance is shown in the Declarations for that type of property.

**Building Under Construction**, meaning the building or structure described in the Declarations while in the course of construction, including:

- a. Foundations;
- b. The following property:
  - (1) Fixtures and machinery;
  - (2) Equipment used to service the building; and
  - (3) Your building materials and supplies used for construction;

Provided such property is intended to be permanently located in or on the building or structure described in the Declarations or within 100 feet of its premises;

- c. If not covered by other insurance, temporary structures built or assembled on site, including cribbing, scaffolding and construction forms.

**2. Property Not Covered**

Covered Property does not include:

- a. Land (including land on which the property is located) or water;
- (b) Subject to (a) above, the amount we will pay for debris removal expense is limited to 25% of the sum of the deductible plus the amount that we pay for direct physical loss or damage to the Covered

- b. The following property when outside of buildings:

- (1) Lawns, trees, shrubs or plants;
- (2) Radio or television antennas (including satellite dishes) and their lead-in wiring, master or towers; or
- (3) Signs (other than signs attached to buildings)

**3. Covered Causes of Loss**

See applicable Causes Of Loss Form as shown in the Declarations.

**4. Additional Coverages****a. Debris Removal**

- (1) Subject to Paragraphs (3) and (4), we will pay your expense to remove debris of Covered Property caused by or resulting from a Covered Cause of Loss that occurs during the policy period. The expenses will be paid only if they are reported to us in writing within 180 days of the date of direct physical loss or damage.
  - (2) Debris Removal does not apply to costs to:
    - (a) Extract “pollutants” from land or water; or
    - (b) Remove, restore or replace polluted land or water.
  - (3) Subject to the exceptions in paragraph (4), the following provisions apply:
    - (a) The most we will pay for the total of direct physical loss or damage plus debris removal expense is the Limit of Insurance applicable to the Covered Property that has sustained loss or damage.
- Property that has sustained loss or damage.
- (4) We will pay up to an additional \$10,000 for debris removal expense, for each location, in any one occurrence of physical loss or damage to Covered

Property if one or both of the following circumstances apply:

(a) The total of the actual debris removal expense plus the amount we pay for direct physical loss or damage exceeds the Limit of Insurance on the Covered Property that has sustained loss or damage.

(b) The actual debris removal expense exceeds 25% of the sum of the deductible plus the amount that we pay for direct physical loss or damage to the Covered Property that has sustained loss or damage.

Therefore if (4)(a) and/or (4)(b) apply, our total payment for direct physical loss or damage and debris removal expense may reach but will never exceed the Limit of Insurance on the Covered Property that has sustained loss or damage, plus \$10,000.

### (5) Examples

The following examples assume that there is no Coinsurance penalty.

#### Example #1

Limit or Insurance:	\$90,000
Amount of Deductible:	\$ 500
Amount of Loss:	\$50,000
Amount of Loss Payable:	\$49,500
	(\$50,000 - \$500)
Debris Removal Expense:	\$10,000
Debris Removal Expense Payable:	\$10,000

(\$10,000 is 20% of \$50,000.)

The debris removal expense is less than 25% of the sum of the loss payable plus the deductible. The sum of the loss payable and the debris removal expense (\$49,500 + \$10,000 = \$59,500.) is less than the Limit of Insurance. Therefore, the full amount of debris removal expense is payable in accordance with the terms of Paragraph (3).

#### Example #2

Limit of Insurance:	\$90,000
Amount of Deductible:	\$ 500
Amount of Loss:	\$80,000
Amount of Loss Payable:	\$79,500
	(\$80,000 - \$500)
Debris Removal Expense:	\$30,000
Debris Removal Expense Payable	
Basic Amount:	\$10,500
Additional Amount:	\$10,000

The basic amount payable for debris removal expense under the terms of Paragraph (3) is calculated as follows: \$80,000 (\$79,500 + \$500) x .25 = \$20,000; capped at \$10,500. The cap applies because the sum of the loss payable (\$79,500) and the basic amount payable for debris removal expense (\$10,500) cannot exceed the Limit of Insurance (\$90,000).

The additional amount payable for debris removal expense is provided in accordance with the terms of Paragraph (4), because the debris removal expense (\$30,000) exceeds 25% of the loss payable plus the deductible (\$30,000 is 37.5% of \$80,000), and because the sum of loss payable

and debris removal expense (\$79,500 + \$30,000 = \$109,500) would exceed the Limit of Insurance (\$90,000). The additional amount of covered debris removal expense is \$10,000, the maximum payable under Paragraph (4). Thus the total payable for debris removal expense in this example is \$20,500; \$9,500 of the debris removal expense is not covered.

#### b. Preservation Of Property

If it is necessary to move Covered Property from the described premises to preserve it from loss or damage by a Covered Cause of Loss, we will pay for any direct physical loss or damage to that property:

- (1) While it is being moved or while temporarily stored at another location; and
- (2) Only if the loss or damage occurs within 30 days after the property is first moved.

#### c. Fire Department Service Charge

When the fire department is called to save or protect Covered Property from a Covered Cause of Loss, we will pay up to \$1,000, unless a higher limit is shown in the Declarations, for your liability for fire department service charges:

- (1) Assumed by contract or agreement prior to loss; or
- (2) Required by local ordinance.

No Deductible applies to this Additional Coverage.

#### d. Pollutant Clean-up And Removal

We will pay your expense to extract "pollutants" from land or water at the described premises if the discharge, dispersal, seepage, migration, release or escape of the "pollutants" is caused by or results from a Covered Cause of Loss that occurs during the policy period. The expense will be paid only if they are reported to us in writing within 180 days of the date on which the Covered Cause of Loss occurs.

This Additional Coverage does not apply to costs to test for, monitor or assess the existence, concentration or effects of "pollutants". But we will pay for testing which is performed in the course of extracting the "pollutants" from the land or water.

The most we will pay under this Additional Coverage for each described premises is \$10,000 for the sum of all covered expenses arising out of Covered Causes of

Loss occurring during each separate 12 month period of this policy.

**5. Coverage Extensions**

**a. Building Materials And Supplies Of Others**

(1) You may extend the insurance provided by this Coverage Form to apply to building materials and supplies that are:

- (a) Owned by others;
- (b) In your care, custody or control;
- (c) Located in or on the building described in the Declarations, or within 100 feet of its premises; and
- (d) Intended to become a permanent part of the building.

(2) The most we will pay for loss or damage under this Extension is \$5,000 at each described premises, unless a higher Limit of Insurance is specified in the Declarations. Our payment for loss of or damage to property of others will only be for the account of the owner of the property.

**b. Sod, Trees, Shrubs And Plants**

You may extend the insurance provided by this Coverage Form to apply to loss or damage to sod, trees, shrubs and plants outside of buildings on the described premises, if the loss or damage is caused by or results from any of the following causes of loss:

- (1) Fire;
- (2) Lightning;
- (3) Explosion;
- (4) Riot or Civil Commotion; or
- (5) Aircraft.

The most we will pay for loss or damage under this Extension is \$1,000, but not more than \$250 for any one tree, shrub or plant. These limits apply to any one occurrence, regardless of the types or number of items lost or damaged in that occurrence.

**B. Exclusions And Limitations**

See applicable Causes Of Loss From as shown in the Declarations.

**C. Limits Of Insurance**

The most we will pay for loss or damage in any one occurrence is the applicable Limit of Insurance shown in the Declarations.

The most we will pay for the loss or damage to outdoor signs attached to buildings is \$2,500 per sign in any one occurrence.

The limits applicable to the Coverage Extensions and the Fire Department Service Charge and Pollutant Clean-up And Removal Additional Coverage are in addition to the Limit of insurance.

Payments under the Preservation Of Property Additional Coverage will not increase the applicable Limit of insurance.

**D. Deductible**

In any one occurrence of loss or damage (hereinafter referred to as loss), we will first reduce the amount of loss if required by Additional Condition – Need For Adequate Insurance. If the adjusted amount of loss is less than or equal to the Deductible, we will not pay for

that loss. If the adjusted amount of loss exceeds the Deductible, we will then subtract the Deductible from the adjusted amount of loss, and will pay the resulting amount or the Limit of Insurance, whichever is less.

When the occurrence involves loss to more than one item of Covered Property and separate Limits of Insurance apply, the losses will not be combined in determining application of the Deductible But the Deductible will be applied only once per occurrence.

**Example #1**

(This example assumes there is no penalty for underinsurance.)

Deductible:	\$ 1,000
Limit of Insurance – Building #1:	\$ 60,000
Limit of Insurance – Building #2:	\$ 80,000
Loss to Building #1:	\$ 60,100
Loss to Building #2:	\$ 90,000

The amount of loss to Building #1 (\$60,100) is less than the sum (\$61,000) of the Limit of Insurance applicable to Building #1 plus the Deductible.

The Deductible will be subtracted from the amount of loss in calculating the loss payable for Building #1:

\$60,100
<u>      - 1,000</u>
\$59,100 Loss Payable – Building #1

The Deductible applies once per occurrence and therefore is not subtracted in determining the amount of loss payable for Building #2. Loss payable for Building #2 is the Limit of Insurance of \$80,000.

Total amount of loss payable: \$59,100 + \$80,000 = \$139,100.

**Example #2**

(This example, too, assumes there is no penalty for underinsurance.)

The Deductible and Limits of Insurance are the same as those in Example #1

Loss to Building #1:	\$ 70,000
(Exceeds Limit of Insurance plus Deductible)	
Loss to Building # 2	\$ 90,000
(Exceeds Limit of Insurance plus Deductible)	

Loss Payable - Building #1:	\$ 60,000
(Limit of Insurance)	
Loss Payable – Building #2	\$ 80,000
(Limit of Insurance)	
Total amount of loss payable:	\$140,000

**E. Loss Conditions**

The following conditions apply in addition to the Common Policy Conditions and the Commercial Property Conditions.

**1. Abandonment**

There can be no abandonment of any property to us.

## 2. Appraisal

If we and you disagree on the value of the property or the amount of loss, either may make written demand for an appraisal of the loss. In this event, each party will select a competent and impartial appraiser. The two appraisers will select and umpire. If they cannot agree, either may request that selection be made by a judge of a court having jurisdiction. The appraiser will state separately the value of the property and amount of loss. If they fail to agree, they will submit their differences to the umpire. A decision agreed to by any two will be binding. Each party will:

- a. Pay its chosen appraiser; and
- b. Bear the other expenses of the appraisal and umpire equally.

If there is an appraisal, we will still retain our right to deny claim.

## 3. Duties In The Event Of Loss Or Damage

- a. You must see that the following are done in the event of loss or damage to Covered Property:

- (1) Notify the police if a law may have been broken.
- (2) Give us prompt notice of the loss or damage. Include a description of the property involved.
- (3) As soon as possible, give us a description of how, when and where the loss or damage occurred.
- (4) Take all reasonable steps to protect the Covered Property from further damage, and keep a record of your expenses necessary to protect the Covered Property, for consideration in the settlement of the claim. This will not increase the Limit of Insurance. However, we will not pay for any subsequent loss or damage resulting from cause of loss that is not a Covered Cause of Loss. Also if feasible, set the damaged property aside and in the best possible order for examination.
- (5) At our request, give us complete inventories of the damaged and undamaged property. Include quantities, costs, values and amount of loss claimed.
- (6) As often as may be reasonably required, permit us to inspect the property proving the loss or damage and examine your books and records.  
Also permit us to take samples of damaged and undamaged property for inspection, testing and analysis, and permit us to make copies from your books and records
- (7) Send us a signed, sworn proof of loss containing the information we request to investigate the claim. You must do this within 60 days after our request. We will supply you with the necessary forms.
- (8) Cooperate with us in the investigation or settlement of the claim.

- b. we may examine any insured under oath while not in the presence of any other insured and at such times as may be reasonably required, about any matter relating to this insurance or the claim, including an insured's books and records. In the

event of an examination, an insured's answer must be signed.

## 4. Loss Payment

- a. In the event of loss or damage covered by this Coverage Form, at our option, we will either:
  - (1) Pay the value of lost or damaged property;
  - (2) pay the cost of repairing or replacing the lost or damaged property, subject to b. below;
  - (3) Take all or any part of property at an agreed or appraised value; or
  - (4) Repair, rebuild or replace the property with other property of like kind and quality, subject to b. below.

We will determine the value of lost or damaged property, or the cost of its repair or replacement, in accordance with the applicable terms of the Valuation Condition in this Coverage Form or any applicable provision which amends or supersedes the Valuation Condition.

- b. The cost to repair, rebuild or replace does not include the increased cost attributable to enforcement of any ordinance or law regulating the construction, use or repair of any property.
- c. We will give notice of our intentions within 30 days after we receive the sworn proof of loss.
- d. We will not pay you more than your financial interest in the Covered Property.
- e. We may adjust losses with the owners of lost or damaged property if other than you. If we pay the owners, such payments will satisfy your claims against us for the owners' property. We will not pay the owners more than their financial interest in the Covered Property.
- f. We may elect to defend you against suits arising from claims of owners of property. We will do this at our expense.
- g. We will pay for covered loss or damage within 30 days after we receive the sworn proof of loss, if you have complied with all of the terms of this Coverage Part and:
  - (1) We have reached agreement with you on the amount of loss; or
  - (2) An appraisal award has been made.
- h. A party wall is a wall that separates and is common to adjoining buildings that are owned by different parties. In settling covered losses involving a party wall, we will pay a portion of the loss to the party wall based on your interest in the wall in proportion to the interest of the owner of the adjoining building. However, if you elect to repair or replace your building and the owner of the adjoining building elects not to repair or replace the building, we will pay you the full value of the loss to the party wall, subject to all applicable policy



provisions including Limits of Insurance, the Valuation and Coinsurance Conditions and all other provisions of this Loss Payment Condition. Our payment under the provision of this paragraph does not alter any right of subrogation we may have against any entity, including the owner or insurer of the adjoining building, and does not alter the terms of the Transfer Of Rights Of Recovery Against Others To Us Condition in this policy.

#### **5. Recovery Property**

If either you or we recover any property after loss settlement, that party must give the other prompt notice. At your option, the property will be returned to you. You must then return to us the amount we paid to you for the property. We will pay recovery expenses and the expenses to repair the recovered property, subject to the Limit of Insurance.

#### **6. Valuation**

We will determine the value of Covered Property at actual cash value as of the time of loss or damage.

### **F. Additional Conditions**

The following conditions apply in addition to the Common Policy Conditions and the Commercial Property Conditions.

#### **1. Mortgageholders**

- a. The term mortgageholder includes trustee.
- b. We will pay for covered loss of or damage to buildings or structures to each mortgageholder shown in the Declarations in their order of precedence, as interests may appear.
- c. The mortgageholder has the right to receive loss payment even if the mortgageholder has started foreclosure or similar action on the building or structure.
- d. If we deny your claim because of your acts or because you have failed to comply with the terms of this Coverage Part, the mortgageholder will still have the right to receive loss payment if the mortgageholder:

- (1) Pays any premium due under this Coverage Part at our request if you have failed to do so;
- (2) Submits a signed, sworn proof of loss within 60 days after receiving notice from us of your failure to do so; and
- (3) Has notified us of any change in ownership, occupancy or substantial change in risk known to the mortgageholder.

All of the terms of this Coverage Part will then apply directly to the mortgageholder.

- e. If we pay the mortgageholder for any loss or damage and deny payment to you because of your acts or because you have failed to comply with the terms of this Coverage Part:
  - (1) The mortgageholder's rights under the mortgage will be transferred to us to the extent of the amount we pay; and
  - (2) The mortgageholder's right to recover the full amount of the mortgageholder's claim will not be impaired.

At our option, we may pay to the mortgageholder the whole principal on the mortgage plus any accrued interest. In this event, your mortgage and note will be transferred to us and you will pay your remaining mortgage debt to us.

- f. If we cancel this policy, we will give written notice to the mortgageholder at least:
  - (1) 10 days before the effective date of cancellation if we cancel for your nonpayment of premium; or
  - (2) 30 days before the effective date of cancellation if we cancel for any other reason.
- g. If we elect not to renew this policy, we will give written notice to the mortgageholder at least 10 days before the expiration date of this policy.

#### **2. Need for Adequate Insurance**

We will not pay a greater share of any loss than the portion that the Limit of Insurance bears to the value on the date of completion of the building described in the Declarations.

#### **EXAMPLE #1 (UNDERINSURANCE)**

When: The value of the building on the date of completion is: \$200,000  
The Limit of Insurance for it is: \$100,000  
The Deductible is: \$ 500 The amount of loss is: \$ 80,000

Step (1):  $\$100,000 \div \$200,000 = .50$

Step (2):  $\$80,000 \times .50 = \$40,000$

Step (3):  $\$40,000 - \$500 = \$39,500$ .

We will pay no more than \$39,500. The remaining \$40,500 is not covered.

#### **EXAMPLE #2 (ADEQUATE INSURANCE)**

When: The value of the building on the date of completion is: \$200,000  
The Limit of Insurance for it is: \$200,000  
The Deductible is: \$ 1,000  
The amount of loss is: \$ 80,000

The limit of Insurance in the example is adequate and therefore no penalty applies. We will pay no more than \$79,000 (\$80,000 amount of loss minus the deductible of \$1,000).

#### **3. Restriction Of Additional Coverage – Collapse**

If the Causes Of Loss – Broad Form is applicable to this Coverage Form, Paragraph C.2.f. of the Additional Coverage – Collapse does not apply to this Coverage Form.

If the Cause Of Loss – Special Form is applicable to this Coverage Form, Paragraphs D.2.c. and D.2.d of the Additional Coverage Collapse do not apply to this Coverage Form.

#### **4. When Coverage Ceases**

The insurance provided by this Coverage Form will end when one of the following first occurs:

- a. This policy expires or is cancelled.
- b. The property is accepted by the purchaser;
- c. Your interest in the property ceases;
- d. You abandon the construction with no intention to complete it;
- e. Unless we specify otherwise in writing.
  - (1) 90 days after construction is complete or;
  - (2) 60 days after any building described in the Declarations is:
    - (a) Occupied in whole or in part; or
    - (b) Put to its intended use.

**G. Definitions**

“Pollutants” means any solid, liquid, gaseous or thermal irritant or contaminant, including smoke, vapor, soot, fumes, acids, alkalis, chemicals and waste. Waste includes materials to be recycled, reconditioned or reclaimed.

**CAUSES OF LOSS – SPECIAL FORM**

Words and phrases that appear in quotation marks have special meaning. Refer to Section G., Definitions.

**A. Covered Causes Of Loss**

When Special is shown in the Declarations, Covered Causes of Loss means Risk of Direct Physical Loss unless the loss is:

1. Excluded in Section B., Exclusions; or
2. Limited in Section C., limitations; that follow.

**B. Exclusions**

1. We will not pay for loss or damage caused directly or indirectly by any of the following. Such loss or damage is excluded regardless of any other cause or event that contributes concurrently or in any sequence to the loss.

**a. Ordinance or Law**

The enforcement of any ordinance or law:

- (1) Regulating the construction, use or repair of any property; or
- (2) Requiring the tearing down of any property, including the cost of removing its debris.

This exclusion, Ordinance Or Law applies whether the loss results from:

- (a) An ordinance or law that is enforced even if the property has not been damaged; or
- (b) The increased costs incurred to comply with an ordinance or law in the course of construction, repair, renovation, remodeling or demolition of property, or removal of its debris, following a physical loss to that property.

**b. Earth movement**

- (1) Earthquake, including any earth sinking, rising or shifting related to such event;
- (2) Landslide including any earth sinking, rising or shifting related to such event.
- (3) Mine subsidence, meaning subsidence of a man-made mine, whether or not mining activity has ceased;
- (4) Earth sinking (other than sinkhole collapse), rising or shifting including soil conditions which cause settling, cracking or other disarrangement of foundations or other parts or realty. Soil conditions include contraction, expansion, freezing, thawing, erosion,

improperly compacted soil and the action of water under the ground surface.

But if Earth Movement, as described in **b.(1)** through **(4)** above, results in fire or explosion, we will pay for the loss or damage caused by that fire or explosion.

- (5) Volcanic eruption, explosion or effusion. But if volcanic eruption, explosion or effusion results in fire, building glass breakage or Volcanic Action, we will pay for the loss or damage caused by that fire, building glass breakage or Volcanic Action.

Volcanic Action means direct loss or damage resulting from the eruption of a volcano when the loss or damage is caused by:

- (a) Airborne volcanic blast or airborne shock waves;
- (b) Ash, dust or particulate matter; or
- (c) Lava flow.

All volcanic eruptions that occur within any 168-hour period will constitute a single occurrence.

Volcanic Action does not include the cost to remove ash, dust or particulate matter that does not cause direct physical loss or damage to the described property.

**c. Governmental Action**

Seizure or destruction of property by order of governmental authority.

But we will pay for loss or damage caused by or resulting from acts of destruction ordered by governmental authority and taken at the time of a fire to prevent its spread, if the fire would be covered under this Coverage Part.

**d. Nuclear Hazard**

Nuclear reaction or radiation, or radioactive contamination, however caused.

But if nuclear reaction or radiation, or radioactive contamination, results in fire, we

will pay for the loss or damage caused by that fire.

**e. Utility Services**

The failure of power, communication, water or other utility service supplied to the described premises, however caused, if the failure:

- (1) Originates away from the described premises; or
- (2) Originates at the described premises but only if such failure involves equipment used to supply the utility service to the described premises from a source away from the described premises.

Failure of any utility service includes lack of sufficient capacity and reduction in supply. Loss or damage caused by a surge of power is also excluded, if the surge would not have occurred but for an event causing failure of power.

But if the failure or surge of power, or the failure of communication, water or other utility service, results in Covered Cause of loss, we will pay for the loss or damage caused by that Covered Cause of Loss.

Communication services include but are not limited to service relating to Internet access or access to any electronic, cellular or satellite network.

**f. War And Military Action**

- (1) War, including undeclared or civil war;
- (2) Warlike action by military force, including action in hindering or defending against an actual or expected attack, by any government, sovereign or other authority using military personnel or other agents; or
- (3) Insurrection, rebellion, revolution, usurped power, or action taken by governmental authority in hindering or defending against any of these.

**g. Water**

- (1) Flood, surface water, waves, tides, tidal waves, overflow of any body of water or their spray, all whether driven by wind or not;
- (2) Mudslide or mudflow;
- (3) Water that backs up or overflows from a sewer, drain or sump; or
- (4) Water under the ground surface pressing on, or flowing or seeping through:
  - (a) Foundations, walls, floors or paved surfaces;
  - (b) Basements, whether paved or not; or
  - (c) Doors, windows or other openings.

But if Water, as described in **g.(1)**. Through **g.(4)**. above, results in fire, explosion or

sprinkler leakage, we will pay for the loss or damage caused by that fire explosion or sprinkler leakage.

**h. "Fungus", Wet Rot, Dry Rot And Bacteria**

Presence, growth, proliferation, spread or any activity of "fungus", wet or dry rot or bacteria.

But if "fungus", wet or dry rot or bacteria results in a "specified cause of loss", we will pay for the loss or damage caused by that "specified cause of loss".

This exclusion does not apply:

- 1. When "fungus", wet or dry rot or bacteria results from fire or lightning; or
- 2. To the extent that coverage is provided in the Additional Coverage – Limited Coverage For "Fungus", Wet Rot, Dry Rot And Bacteria with respect to loss or damage by a cause of loss other than fire or lightning.

Exclusions **B.1.a.** through **B.1h.** apply whether or not the loss event results in widespread damage or affects a substantial area.

2. We will not pay for loss or damage caused by or resulting from any of the following:

- a. Artificially generated electrical, magnetic or electromagnetic energy that damages, disturbs, disrupts or otherwise interferes with any:
  - (1) Electrical or electronic wire, device, appliance, system or network; or
  - (2) Device, appliance, system or network utilizing cellular or satellite technology.

For the purpose of this exclusion, electrical, magnetic or electromagnetic energy includes but is not limited to:

- (a) Electrical current, including arcing;
- (b) Electrical charge produced or conducted by a magnetic or electromagnetic field;
- (c) Pulse of electromagnetic energy; or
- (d) Electromagnetic waves or microwaves.

But if fire results, we will pay for the loss or damage caused by the fire.

- b. Delay, loss of use or loss of market.
- c. Smoke, vapor or gas from agricultural smudging or industrial operations



- d. (1)** Wear and tear;
- (2)** Rust or other corrosion, decay, deterioration, hidden or latent defect or any quality in property that causes it to damage or destroy itself;
- (3)** Smog;
- (4)** Setting, cracking, shrinking or expansion;
- (5)** Nesting or infestation, or discharge or release of waste products or secretions, by insects, birds, rodents or other animals.
- (6)** Mechanical breakdown, including rupture or bursting caused by centrifugal force. But if mechanical breakdown results in elevator collision, we will pay for the loss or damage caused by the elevator collision.
- (7)** The following causes of loss to personal property:
  - (a)** Dampness or dryness of atmosphere;
  - (b)** Changes in or extremes of temperature; or
  - (c)** Marring or scratching.

But if an excluded cause of loss that is listed in **2.d.(1)** through **(7)** results in a “specified cause of loss” or building glass breakage, we will pay for the loss or damage caused by that “specified cause of loss” or building glass breakage.

- e.** Explosion of steam boilers, steam pipes, steam engines or steam turbines owned or leased by you, or operated under your control. But if explosion of steam boilers, steam pipes, steam engines or steam turbines result in fire or combustion explosion, we will pay for the loss or damage caused by that fire or combustion explosion. We will also pay for loss or damage caused by or resulting from explosion of gases or fuel within the furnace of any fired vessel or within the flues or passages through which the gases of combustion pass.
- f.** Continuous or repeated seepage or leakage of water, or the presence or condensation of humidity, moisture or vapor, that occurs over period of 14 days or more.
- g.** Water, other liquids, powder or molten material that leaks or flows from plumbing, heating, air conditioning or other equipment (except fire protective systems) caused by or resulting from freezing, unless:
  - (1)** You do your best to maintain heat in the building or structure; or
  - (2)** You drain the equipment and shut off the supply if the heat is not maintained.
- h.** Dishonest or criminal act by you, any of your partners, members, officers, managers, employees (including leased employees), directors, trustees, authorized representatives or

anyone to whom you entrust the property for any purpose.

- (1)** Acting alone or in collusion with others; or
  - (2)** You drain the equipment and shut off the supply if the heat is not maintained.
- This exclusion does not apply to acts of destruction by your employees (including leased employees); but theft by employees (including leased employees) is not covered.
- i.** Voluntary parting with any property by you or anyone else to whom you have entrusted the property if induced to do so by any fraudulent scheme, trick, device or false pretense.
  - j.** rain, snow, ice or sleet to personal property in the open.
  - k.** Collapse, including any of the following conditions of property or any part of the property:
    - (1)** An abrupt falling down or caving in;
    - (2)** Loss of structural integrity, including separation of parts of the property or property in danger of falling down or caving in; or
    - (3)** Any cracking, bulging, sagging, bending, leaning, setting, shrinkage or expansion as such condition relates to **(1)** or **(2)** above.

But if collapse results in a Covered Cause of Loss at the described premises, we will pay for the loss or damage caused by that Covered Cause of Loss.

The exclusion, **k.**, does not apply:

- (a)** To the extent that coverage is provided under the Additional Coverage – Collapse; or
- (b)** To collapse caused by one or more of the following:
  - (i)** The “specified cause of loss”;
  - (ii)** Breakage of building glass;
  - (iii)** Weight of rain that collects on a roof; or
  - (iv)** Weight of people or personal property.
- l.** Discharge, dispersal, seepage, migration, release or escape of “pollutants” unless the discharge, dispersal, seepage, migration, release or escape is itself caused by any of the “specified causes of loss”. But if the discharge, dispersal, seepage, migration, release or escape of “pollutants” results in “specified cause of loss”, we will pay

for the loss or damage caused by that “specified cause of loss”.

The exclusion, **L.**, does not apply to damage to glass caused by chemicals applied to glass.

**m.** Neglect of an insured to use all reasonable means to save and preserve property from further damage at and after the time loss.

**3.** We will not pay for loss or damage caused by or resulting from any of the following, **3.a.** through **3.c.** But if an excluded cause of loss that is listed in **3.a.** through **3.c.** results in a Covered Cause of Loss, we will pay for the loss or damage caused by that Covered Cause of Loss.

**a.** Weather conditions. But this exclusion only applies if weather conditions contribute in any way with a cause or event excluded in Paragraph **1.** above to produce the loss or damage.

**b.** Acts or decisions, including the failure to act or decide, of any person, group, organization or governmental body.

**c.** Faulty, inadequate or defective:

(1) Planning, zoning, development, surveying, siting;

(2) Design, specifications, workmanship, repair, construction, renovation, remodeling, grading, compaction;

(3) Materials used in repair, construction renovation or remodeling; or

(4) Maintenance; of part or all of any property on or off the described premises.

#### **4. Special Exclusions**

The following provisions apply only to the specified Coverage Forms.

**a. Business Income (And Extra Expense) Coverage Form, Business Income (Without Extra Expense) Coverage Form, Or Extra Expense Coverage Form**

We will not pay for:

(1) Any loss caused by or resulting from:

(a) Damage or destruction of “finished stock”; or

(b) The time required to reproduce “finished stock”.

This exclusion does not apply to Extra Expense.

(2) Any loss caused by or resulting from direct physical loss or damage to radio or television antennas (including satellite dishes) and their lead in-wiring, masts or towers.

(3) Any increase of loss caused by or resulting from:

(a) Delay in rebuilding, repairing or replacing the property or resuming “operations”, due to interference at the location of the rebuilding, repair or

replacement by strikers or other persons; or

(b) Suspension, lapse or cancellation of any license, lease or contract. But if the suspension, lapse or cancellation is directly caused by the “suspension” of “operations”, we will cover such loss that affects your Business Income during the “period of restoration” and any extension of the “period of restoration” in accordance with the terms of the Extended business Income Additional Coverage and the Extended Periods Of Indemnity Optional Coverage or any variation of these.

(4) Any Extra Expense caused by or resulting from suspension, lapse or cancellation of any license, lease or contract beyond the “period of restoration”.

(5) Any other consequential loss.

#### **b. Leasehold interest Coverage Form**

(1) Paragraph **B.1.a.**, Ordinance Or Law, does not apply to insurance under this Coverage Form.

(2) We will not pay for any loss caused by:

(a) Your cancelling the lease;

(b) The suspension lapse or cancellation of any license; or

(c) Any other consequential loss.

#### **c. Legal liability Coverage Form**

(1) The following exclusions do not apply to insurance under this Coverage Form:

(a) Paragraph **B.1.a.**, Ordinance Or Law;

(b) Paragraph **B.1.c.**, Governmental Action

(c) Paragraph **B.1.d.**, Nuclear Hazard;

(d) Paragraph **B.1.e.**, Utility Services; and

(e) Paragraph **B.1.f.**, War And Military Action

(2) The following additional exclusions apply to insurance under this Coverage Form:

(a) **Contractual Liability**

We will not defend any claim or “suit”, or pay damages that you are legally liable to pay solely by reason of your assumption of liability in a contract or

agreement. But this exclusion does not apply to a written lease agreement in which you have assumed liability for building damage resulting from an actual or attempted burglary or robbery, provided that:

- (i) Your assumption of liability was executed prior to accident; and
- (ii) The building is Covered Property under this Coverage Form.

**(b) Nuclear Hazard**

We will not defend any claim or “suit”, or pay any damages, loss, expense or obligation, resulting from nuclear reaction or radiation, or radioactive contamination, however caused.

**5. Additional Exclusion**

The following provisions apply only to the specified property.

**LOSS OR DAMAGE TO PRODUCTS**

We will not pay for loss or damage to any merchandise, goods or other product caused by or resulting from error or omission by any person or entity (including those having possession under an arrangement where work or a portion of the work is outsourced) in any stage of the development, production or use of the product, including planning, testing, processing, packaging, installation, maintenance or repair. This exclusion applies to any effect that compromises the form, substance or quality of the product. But if such error or omission results in a Covered Cause loss, we will pay for the loss or damage caused by that Covered Cause of Loss.

**C. Limitations**

The following limitations apply to all policy forms and endorsements, unless otherwise stated.

- 1. We will not pay for loss of or damage to property, as described and limited in the section. In addition, we will not pay for any loss that is a consequence of loss or damage as described and limited in this section.
  - a. Steam boilers, steam pipes steam engines or steam turbines caused by or resulting from any condition or event inside such equipment. But we will pay for loss of or damage to such equipment caused by or resulting from an explosion of gases or fuel within the furnace of any fired vessel or within the flues or passages through which the gases of combustion pass.
  - b. Hot water boilers or other water heating equipment caused by ore resulting from any condition or event inside such boilers or equipment, other than an explosion.

c. The interior of any building or structure or to personal property in the building or structure, caused by or resulting from rain, snow, sleet, ice, sand or dust, whether driven by wind or not, unless:

- (1) The building or structure first sustains damage by a Covered Cause of Loss to its roof or walls through which the rain, snow, sleet, ice, sand or dust enters; or
- (2) The loss or damage is caused by or results from thawing of snow, sleet or ice on the building or structure.

d. Building materials and supplies not attached as part of the building or structure caused by or resulting from theft.

However, this limitation does not apply to:

- (1) Building materials and supplies held for sale by you, unless they are insured under the Builders Risk Coverage Form; or
- (2) Business Income Coverage or Extra Expense Coverage.

e. Property that is missing, where the only evidence of the loss or damage is a shortage disclosed on taking inventory, or other instances where there is no physical evidence to show what happened to the property.

f. Property that has been transferred to a person or to a place outside the described premises on the basis of unauthorized instructions.

2. We will not pay for loss of or damage to the following types of property unless caused by the “specified causes of loss” or building glass breakage:

- a. Animals, and then only if they are killed or their destruction is made necessary.
- b. Fragile articles such as statuary, marbles, chinaware and porcelains, if broken. This restriction does not apply to:
  - (1) Glass; or
  - (2) Containers of property held for sale.

c. Builders' machinery, tools and equipment owned by you or entrusted to you, provided such property is Covered Property.

(1) If the property is located on or within 100 feet of the described premises, unless the premises is insured under the Builders Risk Coverage Form; or

(2) To Business Income Coverage or to Extra Expense Coverage.

3. The special limit shown for each category, a. through d., is the total limit for loss of or damage to all property in that category. The special limit applies to any one occurrence of theft, regardless of the types or number of articles that are lost or damaged in that occurrence. The special limits are:

a. \$2,500 for furs, fur garments and garments trimmed with fur.

b. \$2,500 for jewelry, watches, watch movements, jewels, pearls, precious and semiprecious stones, bullion, gold, silver, platinum, and other precious alloys or metals. This limit does not apply to jewelry and watches worth \$100 or less per item.

c. \$2,500 for patterns, dies, molds and forms.

d. \$250 for stamps, tickets, including lottery tickets held for sale, and letters for credit.

These special limits are part of, not in addition to, the Limit of Insurance applicable to the Covered Property.

This limitation, C.3., does not apply to Business Income Coverage or Extra Expense Coverage.

4. We will not pay the cost to repair any defect to a system or appliance from which water, other liquid, powder or molten material escapes. But we will pay the cost to repair or replace damaged parts of fire-extinguishing equipment if the damage:

a. Results in discharge of any substance from an automatic fire protection system; or

b. Is directly caused by freezing.

However, this limitation does not apply to Business Income Coverage or to Extra Expense Coverage.

#### **D. Additional Coverage – Collapse**

The coverage provided under this Additional Coverage – Collapse applies only to an abrupt collapse as described and limited in D.1., through D.7.,

1. For the purpose of this Additional Coverage – Collapse, abrupt collapse means an abrupt falling down or caving in of a building or any part of a building with the result that building or part of the building cannot be occupied for its intended purpose.

2. We will pay for direct physical loss or damage to Covered Property, caused by abrupt collapse of building or any part of a building that is insured under this Coverage Form or that contains

Covered Property insured under this Coverage Form, if such collapse is caused by one or more of the following.

a. Building decay that is hidden from view unless the presence of such decay is known to an insured prior to collapse;

b. Insect or vermin damage that is hidden from view, unless the presence of such damage is known to an insured prior to collapse;

c. Use of defective material or methods in construction, remodeling or renovation if the abrupt collapse occurs during the course of the construction, remodeling or renovation.

d. Use of defective material or methods in construction, remodeling or renovation if the abrupt collapse occurs after the construction, remodeling or renovation is complete but only if the collapse is caused in part by:

(1) A cause of loss listed in 2.a. or 2.b.;

(2) One or more of the "specified causes of loss";

(3) Breakage of building glass;

(4) Weight of people or personal property; or

(5) Weight of rain that collects on a roof.

3. This **Additional Coverage – Collapse** does **not** apply to:

a. A building or any part of a building that is in danger of falling down or caving in;

b. A part of a building that is standing, even if it has a separated from another part of the building; or

c. A building that is standing or any part of a building that is standing even if it shows evidence of cracking, bulging, sagging, bending, leaning, setting, shrinkage or expansion.

4. With respect to the following property:

a. Outdoor radio or television antennas (including satellite dishes) and their lead-in wiring, masts or towers;

b. Awnings, gutters and downspouts;

c. Yard fixtures;

d. Outdoor swimming pools;

e. Fences;



- f. Piers, wharves and docks;
  - g. Beach or diving platforms or appurtenances;
  - h. Retaining walls; and
  - i. Walks, roadways and other paved surfaces;
- if an abrupt collapse is caused by cause of loss listed in **2.a.** through **2.d.**, we will pay for loss or damage to that property only if:

- (1) Such loss or damage is a direct result of the abrupt collapse of a building insured under this Coverage Form.
- (2) The property is Covered Property under this Coverage Form.

**5.** If personal property abruptly falls down or caves in and such collapse is **not** the result of abrupt collapse of a building, we will pay for loss or damage to Covered property caused by such collapse of personal property only if:

- a. The collapse of personal property was caused by a cause of loss listed in **2.a.** through **2.d.**;
- b. The personal property which collapses is inside a building; and
- c. The property which collapses is not of a kind listed in **4.**, regardless of whether that kind of property is considered to be personal property or real property.

The coverage stated in the Paragraph **5.** does not apply to personal property if marring and/or scratching is the only damage to that personal property caused by the collapse.

**6.** This Additional Coverage – Collapse does not apply to a personal property that has not abruptly fallen down or caved in, even if the personal property shows evidence of cracking, bulging, sagging, bending, leaning, settling, shrinkage or expansion.

**7.** This Additional Coverage – Collapse will not increase the Limits of Insurance provided in this Coverage Part.

**8.** The term Covered Cause of Loss includes the Additional Coverage – Collapse as described and limited in **D.1.** through **D.7.**

**E. Additional Coverage – Limited Coverage For “Fungus”, Wet Rot, Dry Rot And Bacteria**

**1.** The coverage described in **E.2.** and **E.6.** only applies when the “fungus”, wet or dry rot or bacteria is the result of one or more of the following causes that occurs during the policy period and only if all reasonable means were used to save and preserve the property from further damage at the time of and after that occurrence.

- a. A “specified cause of loss” other than fire or lightning; or
- b. Flood, if Flood Coverage Endorsement applies to the affected premises.

**2.** We will pay for loss or damage by “fungus” wet or dry rot or bacteria. As used in this Limited Coverage, the term loss or damage means:

- a. Direct physical loss or damage to Covered Property caused by “fungus”, wet or dry rot or bacteria including the cost of removal of the “fungus”, wet or dry rot or bacteria;
- b. The cost to tear out and replace any part of the building or other property as needed to gain access to the “fungus”, wet or dry rot or bacteria; and
- c. The cost of testing performed after removal, repair, replacement or restoration of the damaged property is completed, provided there is a reason to believe that “fungus”, wet or dry rot or bacteria are present.

**3.** The coverage described under **E.2.** of this Limited Coverage is limited to \$15,000. Regardless of the number of claims, this limit is the most we will pay for the total of all loss or damage arising out of all occurrences of “specified cause of loss” (other than fire or lightning) and Flood which take place in a 12 month period (starting with the beginning of the present annual policy period). With respect to a particular occurrence of loss which results in “fungus”, wet or dry rot or bacteria, we will not pay more than a total of \$15,000 even if the “fungus”, wet or dry rot or bacteria continues to be present or active, or recurs, in a later policy period.

**4.** The coverage provided under this Limited Coverage does not increase the applicable Limit of Insurance on any Covered Property. If a particular occurrence results in loss or damage by “fungus”, wet or dry rot or bacteria, and other loss or damage, we will not pay more, for the total of all loss or damage, than the applicable Limit of Insurance on the affected Covered Property.

If there is covered loss or damage to Covered Property, not caused by “fungus”, wet or dry rot or bacteria, loss payment will not be limited by the terms of this Limited Coverage, except to the extent that “fungus”, wet or dry rot or bacteria causes an increase in the loss. Any such increase

in the loss will be subject to the terms of this Limited Coverage.

5. The terms of this Limited Coverage do not increase or reduce the coverage provided under Paragraph F.2. (Water Damage, Other Liquids, Powder Or Molten Material Damage) of this Causes Of Loss Form or under the Additional Coverage – Collapse.

6. The following, 6.a or 6.b., applies only if Business Income and/or Extra Expense Coverage applies to the described premises and only if the “suspension” of “operations” satisfies all terms and conditions of the applicable Business Income and/or Extra Expense Coverage Form.

a. If the loss which resulted in “fungus”, wet rot or dry rot or bacteria does not in itself necessitate a “suspension” of “operations”, but such “suspension” is necessary due to loss or damage to property caused by “fungus” wet or dry rot or bacteria, then our payment under Business Income and/or Extra Expense is limited to the amount of loss and/or expense sustained in a period of not more than 30 days. The days need not be consecutive.

b. If a covered “suspension” of “operations” was caused by loss or damage other than “fungus”, wet or dry rot or bacteria but remediation of “fungus”, wet or dry rot or bacteria but remediation of “fungus”, wet or dry rot or bacteria prolongs the “period of restoration”, we will pay for loss and/or expense sustained during the delay (regardless of when such delay occurs during the “period of restoration”), but such coverage is limited to 30 days. The days need not be consecutive.

## F. Additional Coverage Extensions

### 1. Property In Transit

This Extension applies only to your personal property to which this form applies.

a. You may extend the insurance provided by this Coverage Part to apply to your personal property (other than property in the care, custody or control of your salespersons) in transit more than 100 feet from the described premises. Property must be in or on a motor vehicle you own, lease or operate while between points in the coverage territory.

b. Loss or damage must be caused by or result from one of the following causes of loss:

(1) Fire, lightning, explosion, windstorm or hail riot or civil commotion, or vandalism.

(2) Vehicle collision, upset or overturn. Collision means accidental contact of your vehicle with another vehicle or object. It does not mean your vehicle’s contact with the roadbed.

(3) Theft of an entire bale, case or package by forced entry into a securely locked body or compartment of the vehicle. There must be visible marks of the forced entry.

c. The most we will pay for loss or damage under this Extension is \$5,000.

This Coverage Extension is additional insurance. The Additional Condition, Coinsurance, does not apply to this Extension.

### 2. Water Damage, Other Liquids, Powder Or Molten Material Damage

If loss or damage caused by or resulting from covered water or other liquid, powder or molten material damage loss occurs, we will also pay the cost to tear out and replace any part of the building or structure to repair damage to the system or appliance from which the water or other substance escapes. This Coverage Extension does not increase the Limit of Insurance.

### 3. Glass

a. We will pay for expenses incurred to put up temporary plates or board up openings if repair or replacement of damaged glass is delayed.

b. We will pay for expenses incurred to remove or replace obstructions when repairing or replacing glass that is part of a building. This does not include removing or replacing window displays.

The Coverage Extension, F.3., does not increase the Limit of Insurance.

## G. Definitions

1. “Fungus” means type or form of fungus, including mold or mildew, and any mycotoxins, spores, scents or by-products produced or released by fungi.

2. “Specified cause of loss” means the following: fire; lightning; explosion; windstorm or hail; smoke; aircraft or vehicles; riot or civil commotion; vandalism; leakage from fire-extinguishing equipment; sinkhole collapse; volcanic action; falling objects; weight of snow, ice or sleet; water damage.

a. Sinkhole collapse means sudden sinking or collapse of land into underground empty spaces

created by the action of water on limestone or dolomite. This cause of loss does not include:

- (1) The cost of filling sinkholes; or
  - (2) Sinking or collapse of land into manmade underground cavities.
- b.** Falling objects does not include loss or damage to:
- (1) Personal property in the open; or
  - (2) The interior of a building or structure, or property inside a building or structure, unless the roof or an outside wall of the

building or structure is first damaged by a falling object.

- c.** Water damage means accidental discharge or leakage of water or steam as the direct result of the breaking apart or cracking of a plumbing, heating, air conditioning or other system or appliance (other than a sump system including its related equipment and system including its related equipment and parts), that is located on the described premises and contains water or steam.



EXHIBIT D  
SAMPLE ONLY

POLICY NUMBER:

COMMERCIAL GENERAL LIABILITY  
CG 20 37 04 13

**THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.**

**ADDITIONAL INSURED – OWNERS, LESSEES OR CONTRACTORS  
SCHEDULED PERSON – COMPLETED OPERATIONS**

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART  
PRODUCTS/COMPLETED OPERATIONS LIABILITY COVERAGE PART

**SCHEDULE**

<b>Name Of Additional Insured Person(s) Or Organization(s):</b>	<b>Location(s) and Description Of Completed Operations</b>
Orange County Board of County Commissioners Procurement Division 400 E. South Street Orlando, FL 32801	
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.	

**A. Section II – Who Is An Insured** is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule but only with respect to liability for “bodily injury”, or “property damage” caused, in whole or in part by “your work” at the location designated and described in the Schedule of this endorsement performed for that additional insured and included in the “products-completed operations hazard”.

However:

1. The insurance afforded to such additional insured only applies to the extent permitted by laws; and
2. If coverage provided to the additional insured is required by a contract or agreement, the insurance afforded to such additional insured will not be broader than that which you are required

by the contract or agreement to provide for such additional insured.

**B.** With respect to the insurance afforded to these additional insureds, the following is added to Section III-Limits of Insurance:

If coverage provided to the additional insured is required by a contract or agreement, the most we will pay on behalf of the additional insured is the amount of insurance:

1. Required by the contract or agreement; or
2. Available under the applicable Limits of Insurance shown in the Declarations; Whichever is less.

**This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations.**

EXHIBIT E  
SAMPLE ONLY

POLICY NUMBER:

COMMERCIAL GENERAL LIABILITY  
CG 20 10 04 13

**THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.**

## ADDITIONAL INSURED – OWNERS, LESSEES OR CONTRACTORS- SCHEDULE PERSON OR ORGANIZATION

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

**SCHEDULE**

Name Of Additional Insured Person(s) Or Organization(s):	Location(s) Of Covered Operations
<p>Orange County Board of County Commissioners Procurement Division 400 E. South Street Orlando, FL 32801</p>	
<p>Information required to complete this Schedule, if not shown above, will be shown in the Declarations.</p>	
<p><b>A. Section II – Who is An Insured</b> is amended to include as an additional insured the person(s) or organizations(s) shown in the Schedule, but only with respect to liability for “bodily injury”, “property damage” or “personal and advertising injury” caused, in whole or in part, by:</p> <ol style="list-style-type: none"> <li>1. Your acts omissions; or</li> <li>2. The acts or omissions of those acting on your behalf;</li> </ol> <p>In the performance of your ongoing operations for the additional insured(s) at the location(s) designated above.</p> <p>However:</p> <ol style="list-style-type: none"> <li>1. The insurance afforded to such additional insured only applies to the extent permitted by law; and</li> <li>2. If coverage provided to the additional insured is required by a contract or agreement, the insurance afforded to such additional insured will not be broader than that which you are required by the contract or agreement to provide for such additional insured.</li> </ol>	<p><b>B.</b> With respect to the insurance afforded to these additional insureds, the following additional exclusions apply:</p> <p>This insurance does not apply to “bodily injury” or property damage occurring after::</p> <ol style="list-style-type: none"> <li>1. All work , including materials, parts or equipment furnished in connection with such work, on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured (s) at the location of the covered operations has been completed; or</li> <li>2. That portion of “your work” out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.</li> </ol> <p><b>C.</b> With respect to the insurance afforded to these additional insureds, the following is added to Section III- Limits of Insurance:</p> <p>If coverage provided to the additional insured is required by a contract or agreement, the most we will pay on behalf of the additional insured is the amount of insurance:</p> <ol style="list-style-type: none"> <li>1. Required by the contract or agreement; or</li> <li>2. Available under the applicable Limits of Insurance shown in the Declarations; whichever is less.</li> </ol> <p>This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations.</p>

**EXHIBIT F  
SAMPLE ONLY**

WORKERS COMPENSATION AND EMPLOYERS LIABILITY INSURANCE POLICY WC 00 03 13  
(Ed. 4-84)

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WAIVER OF OUR RIGHT TO RECOVER FROM OTHERS ENDORSEMENT

We have the right to recover our payments from anyone liable for an injury covered by this policy. We will not enforce our right against the person or organization named in the Schedule. (This agreement applies only to the extent that you perform work under a written contract that requires you to obtain this agreement from us.)

This agreement shall not operate directly or indirectly to benefit anyone not named in the Schedule.

Schedule

**Name of Person or Organization:**

ORANGE COUNTY BOARD OF COUNTY COMMISSIONERS  
PROCUREMENT DIVISION  
400 E. SOUTH STREET  
ORLANDO, FL 32801

This endorsement changes the policy to which it is attached and is effective on the date issued unless otherwise stated.

(The information below is required only when this endorsement is issued subsequent to preparation of the policy.)

Endorsement

Effective Policy No.

Endorsement No.

Insured

Insurance Company

Countersigned by \_\_\_\_\_

WC 00 03 13

**EXHIBIT G  
SAMPLE ONLY**

POLICY NUMBER: \_\_\_\_\_

**COMMERCIAL GENERAL LIABILITY  
CG 24 04 0509**

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY

**WAIVER OF TRANSFER OF RIGHTS OF RECOVERY AGAINST  
OTHERS TO US**

This endorsement modifies Insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART  
PRODUCTS/COMPLETED OPERATIONS LIABILITY COVERAGE PART

**SCHEDULE**

**Name of Person or Organization:**

ORANGE COUNTY BOARD OF COUNTY COMMISSIONERS  
PROCUREMENT DIVISION  
400 E. SOUTH STREET  
ORLANDO, FL 32801

(Information required to complete this Schedule, if not shown above, will be shown in the Declarations.)

The following is added to Paragraph 8, Transfer of rights of Recovery Against Others To Us of Section IV – Conditions:

We waive any right to recovery we may have against the person or organization shown in the Schedule above because of payments we make for injury or damage arising out of your ongoing operations or “your work” done under a contract with that person or organization and included in the “Products-completed operations hazard”. This waiver applies only to the person or organization shown in the Schedule above.

\*\*\*\*\*  
IFB NO. Y19-701-CH ISSUED: June 6, 2019

INVITATION FOR BIDS

FOR

SADLER ROAD & U.S. 441 INTERSECTION IMPROVEMENTS PROJECT FPN:  
441400-1-58-01 FAN: D518-087-B

\*\*\*\*\*

**VOLUME II**  
**PART G**  
**AND**  
**PART H**

## PART G

### SUPPLEMENTAL CONDITIONS / SPECIAL PROVISIONS

Sadler Road & U.S. 441 Intersection Improvements Project

## SUPPLEMENTAL CONDITIONS

### ARTICLE 1 – CONTRACT

GENERAL CONDITION, PART F, ARTICLE 1, CONTRACT, is appended as follows:

All specifications, drawings and copies thereof furnished by the COUNTY shall remain the property of the COUNTY. They shall not be used on another project and, with the exception of those sets, which have been signed in connection with execution of the Agreement, shall be returned to the COUNTY upon completion of the project.

Duties and obligations imposed by these General Conditions and the rights and remedies available hereunder, and, in particular but without limitation, the warrants, guarantees and obligations imposed upon the CONTRACTOR and the rights and remedies available to the COUNTY thereunder shall be in addition to and not a limitation of any otherwise imposed or available by law, by special guarantee or other provisions of Contract Documents.

This is a Unit Price Contract, and the base bid is the sum of all pay item totals. The COUNTY reserves the right to correct errors in the pay item totals arising from incorrect extensions. See Part C, Paragraph 5, "Bid Errors".

### ARTICLE 2 - DEFINITIONS

GENERAL CONDITION, PART F, ARTICLE 2, DEFINITIONS, "**Specifications**", is appended as follows:

"Specifications" or "Standard Specifications" shall mean the **July 2019** edition of the Florida Department of Transportation (FDOT) Standard Specifications for Road and Bridge Construction, and supplements thereto (unless otherwise noted), and the Orange County Road Construction Specifications latest edition as specified in the contract and/or contract documents and modified herein. In the event of a conflict between the FDOT Standard Specifications and the General Conditions or Supplemental Conditions provided in the Contract Documents, the Contract Documents shall prevail.

When reference is made to a Division, Section, or Article, it shall mean a Division, Section, or Article of said "Specifications" or "Orange County Road Construction Specifications", but shall not be construed to include the Division, Section or Article in its entirety unless so directed by the ENGINEER.

Each reference to Basis of Payment in said "Specifications" is superseded by the conditions contained in the Technical Provisions and all other conditions related to Basis of Payment contained in these specifications, unless otherwise directed by the Engineer.

GENERAL CONDITION, PART F, ARTICLE 2, DEFINITIONS, "**Project Manager**", is appended as follows:

## PART G

### SUPPLEMENTAL CONDITIONS / SPECIAL PROVISIONS

Sadler Road & U.S. 441 Intersection Improvements Project

## SUPPLEMENTAL CONDITIONS

When references are made to PROJECT MANAGER, other terms that may be substituted / used are PROJECT ENGINEER, ENGINEER, PROJECT ADMINISTRATOR, and RESIDENT PROJECT REPRESENTATIVE.

### **ARTICLE 3 – ASSIGNMENT OF CONTRACT**

No changes. See PART F GENERAL CONDITIONS.

### **ARTICLE 4 – QUALIFICATIONS OF SUBCONTRACTORS AND SUPPLIERS**

No changes. See PART F GENERAL CONDITIONS.

### **ARTICLE 5 – STARTING THE WORK**

No changes. See PART F GENERAL CONDITIONS.

### **ARTICLE 6 – INTERPRETATION AND INTENT OF THE CONTRACT DOCUMENTS**

GENERAL CONDITION, PART F, ARTICLE 6, INTERPRETATION AND INTENT OF THE CONSTRUCTION DOCUMENTS, is appended as follows:

The project shall be constructed in accordance with these Supplemental Conditions, Special Provisions and the Florida Department of Transportation (FDOT) "Standard Specifications for Road and Bridge Construction," July, 2019 edition, the "Supplemental Specifications for Road and Bridge Construction," July, 2019 edition, and the "Orange County Road Construction Specifications," latest edition, hereafter referred to as the "Specifications".

Wherever the terms "APPROVE", "APPROVED", "APPROVAL", "ACCEPT", "ACCEPTED", "ACCEPTANCE" or other derivations of these terms are used within these specification or references therein in the context of actions to be taken by the COUNTY or its representatives with respect to submittals made by, or work performed by the CONTRACTOR, they shall mean that the COUNTY or its representative finds no exception with the submittal or the work provided/performed by the CONTRACTOR. Acceptance or approval by the COUNTY or its representative shall NOT relieve the CONTRACTOR of any responsibility for conformance to the intent of the plans and specifications, for the accuracy of dimensions and details, for conformity of dimensions and details, or for adherence to generally accepted engineering and construction practices.



## PART G

### SUPPLEMENTAL CONDITIONS / SPECIAL PROVISIONS

Sadler Road & U.S. 441 Intersection Improvements Project

## SUPPLEMENTAL CONDITIONS

### ARTICLE 7 – REFERENCE POINTS

GENERAL CONDITION, PART F, ARTICLE 7, REFERENCE POINTS, “**Reference Points**” is appended as follows:

**General:** The CONTRACTOR shall employ a Professional Surveyor and Mapper (PSM), registered in the State of Florida and satisfactory to the COUNTY, to lay out the work for bench marks, points and lines noted on the Contract Documents, established at the site, or supplied by the COUNTY. The CONTRACTOR shall provide to the COUNTY at the pre-construction conference, the name of the Professional Surveyor and Mapper to perform Project survey work. All work of every description shall be laid out and checked by the CONTRACTOR who will be held solely responsible for its correctness.

Work may be checked by the PROJECT MANAGER and, in the event of a discrepancy, the PROJECT MANAGER'S decision shall be final.

No special compensation will be made to the CONTRACTOR to defray costs of surveys and measurements, but such costs shall be considered as having been included in the price stipulated for all items of work to be done under this contract.

Prior to the beginning of any construction the CONTRACTOR shall submit to the COUNTY a set of field notes verifying that the existing benchmark elevations are relative to at least two reference benchmarks shown on the construction plans. The CONTRACTOR shall also verify ties from project control points to reference points as shown on the construction plans. A set of field notes for all additional benchmark and reference point ties shall be submitted to the PROJECT MANAGER. All submittals shall be signed and sealed by a Professional Surveyor and Mapper registered in the State of Florida.

Within twenty-one (21) calendar days after receiving the Notice to Proceed, the CONTRACTOR shall have a licensed Professional Surveyor and Mapper establish in the field the proposed roadway centerline, right-of-way and construction easements using wooden 1" X 4" X 4'0" stakes at a maximum spacing of 100 feet. Stations shall be marked on each stake and shall be of sufficient size and clarity that they can be easily read by the unaided eye at a distance of 150 feet. Right-of-way and construction easement staking shall be maintained by the CONTRACTOR throughout construction. No invoice for payment will be processed until the right-of-way has been staked to the satisfaction of the ENGINEER. Payment is included in the price for bid item number 101-1 “Mobilization”. The CONTRACTOR shall pay all expenses in connection with this work.

All survey work shall comply with Chapter 5J-17 Standards of Practice, Florida Administrative Code (F.A.C.), regarding minimum technical standards for land surveying in the State of Florida.

The CONTRACTOR shall perform all calculations required, and set all stakes needed such as grade stakes, offset stakes, reference point stakes, slope stakes, and other reference marks or points necessary to provide lines and grades for construction of all roadway, bridge, and miscellaneous items.

## PART G

### SUPPLEMENTAL CONDITIONS / SPECIAL PROVISIONS

Sadler Road & U.S. 441 Intersection Improvements Project

#### SUPPLEMENTAL CONDITIONS

When performing utility construction as part of the project, the CONTRACTOR will establish all horizontal and vertical controls necessary to carry out such work.

**Specific Staking Requirements:** When performing new base construction as part of the project, the CONTRACTOR shall set stakes to establish lines and grades for subgrade, base, curb, and related items at intervals along the line of the work no greater than 50 feet on tangents and 25 feet on curves. The CONTRACTOR shall set grade stakes at locations that the Engineer directs to facilitate checking of subgrade, base, and pavement elevations in crossovers, intersections, and irregular shaped areas.

For bridge construction stakes and other control, the CONTRACTOR shall set references at sufficiently frequent intervals to ensure construction of all components of a structure in accordance with the lines and grades shown in the plans.

For projects where the plans do not show a centerline or other survey control line for construction of the work (resurfacing, safety modifications, etc.), the CONTRACTOR shall provide only such stakes as necessary for horizontal and vertical control of work items.

For resurfacing and resurfacing-widening type projects, the CONTRACTOR shall establish horizontal controls adequate to ensure that the asphalt mix added matches with the existing pavement. In tangent sections, set horizontal control points at 100 foot intervals by an instrument survey. In curve sections, set horizontal control points at 25 foot intervals by locating and referencing the centerline of the existing pavement.

The CONTRACTOR shall establish by an instrument survey, and mark on the surface of the finished pavement at 25 foot intervals, the points necessary for striping of the finished roadway. As an exception, for resurfacing and resurfacing/widening projects, the CONTRACTOR shall establish these points in the same manner as used for horizontal control of paving operations. The CONTRACTOR shall mark the pavement with white paint. If performing striping, the PROJECT MANAGER may approve an alternate method for layout of striping provided that the CONTRACTOR achieves an alignment equal to or better than the alignment that would be achieved using an instrument survey.

For projects that include temporary or permanent striping of "no passing zones", the CONTRACTOR shall provide the location and length of these zones as shown in the plans, except projects where the vertical or horizontal alignment is new or altered from the preconstruction alignment. For projects that consist of new or altered vertical or horizontal alignment, the COUNTY will provide the location and length of the "no passing zones" during construction. For these projects, the CONTRACTOR shall notify the PROJECT MANAGER not less than 21 calendar days prior to beginning striping.

**Benchmarks:** During construction the CONTRACTOR shall provide a Control Point Metal Disk set in concrete (e.g. in headwalls, back of sidewalks, back of inlets, etc.) at the beginning and end of the project and at a maximum of 1100 feet between existing or established benchmarks along the project alignment – (see attached disc requirements). The CONTRACTOR'S Professional Surveyor and Mapper (PSM) shall conduct a three wire leveling run (closed loop)

## PART G

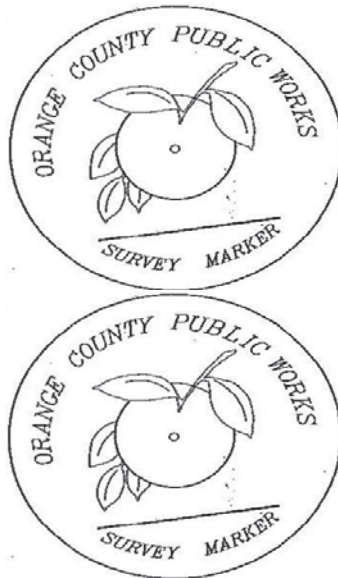
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through the benchmarks based on Orange County Datum NAVD88 (or other datum as specified on the Engineering plans). The level work will be performed to Second Order, Class II standards (or better) and the maximum allowable error will be no more than 8 mm times the square root of "K", where "K" is the total distance in kilometers. This is also approximately equivalent to 0.035 feet times the square root of "K", where "K" is the total distance in miles. The level run will be performed with a geodetic automatic level or better whose three wires will be read to 0.001 meters or 0.001 feet. Invar rods are preferred but not required. Digital automatic levels with associated bar code rods are also acceptable. Prior to the issuance of final completion, the CONTRACTOR shall submit a copy of the field notes certified by the PSM to the PROJECT MANAGER. Benchmark elevations shall be expressed in English units.

Orange County survey monuments shall be aluminum or brass stamped as shown on the attached sketch. The contractor shall procure the monuments from any commercial supplier of survey monuments. The contractor is advised that the County obtains its monuments from Berntsen International, Inc.; [www.berntsen.com](http://www.berntsen.com) Berntsen disc no. C35D-(3-1/2" domed) Logo no. B9119 (800-356-7388).



**Control Points:** At the end of construction, all permanent control points as shown on the construction plans survey control sheet shall be set along the centerline of construction. Permanent control points that fall on a hard surface such as pavement or concrete shall be set as p.k. nails and discs or other form of monumentation that is both durable and identifiable and must be approved by the County Surveyor or authorized agent. All others shall be 4" x 4" concrete monuments having a minimum of 24" in length. All points shall be marked with a cap or disk bearing the surveyor's registration number or licensed business number.

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**Property Corners:** Property corners shall be set at intersections of right-of-way lines and property lines (at all corners that have been destroyed during construction for all Orange County construction projects). Monumentation meeting the requirements described above under “Control Points” shall be set at all breaks in right-of-way lines, P.C.’s, P.T.’s, curve intersections and at least every 1,000 feet along the right-of-way line and shall bear the registration number of the surveyor or licensed business number.

**Public Land Corners:** All public land corners within the limits of construction shall be protected. If a corner monument is in danger of being destroyed or disturbed, the CONTRACTOR shall notify the PROJECT MANAGER, and the COUNTY SURVEYOR, without delay, by telephone. The CONTRACTOR shall provide written follow-up confirmation within forty-eight (48) hours of telephone notification. In the event that a land corner is disturbed or damaged it will be reset with a 4” x 4” concrete monument, which shall be protected in a cast iron valve box, if in pavement.

Prior to the issuance of final completion, the CONTRACTOR shall submit certified corner records, prepared by a Professional Surveyor and Mapper, for all altered, reset and/or relocated public land corners to the Florida Department of Environmental Protection, Bureau of Survey and Mapping, in accordance with the requirements of Chapter 177.507 of the Florida Statutes. A certified copy shall also be provided to the PROJECT MANAGER. Furthermore, the Professional Surveyor and Mapper will note on the AS-BUILT PLANS the location of all corners set or found and submit copies of all field notes to the County Surveyor or his/her agent.

**National Geodetic Survey (N.G.S.) / United States Coast & Geodetic Survey (U.S.C. & G.S.) Monuments:** The CONTRACTOR shall immediately notify the PROJECT MANAGER of any N.G.S. / U.S.C. & G.S. monuments which may be in danger of being disturbed. For instructions on how to relocate any N.G.S. monuments the CONTRACTOR shall notify in writing:

State Geodetic Advisor  
Bureau of Surveying and Mapping  
3900 Commonwealth Blvd., Suite 105  
Tallahassee, FL 32399-3000  
Phone: (850) 245-2606  
Fax: (850) 245-2645

Orange County Surveyor  
Engineering Division, Public Works Dept  
4200 S. John Young Parkway  
Orlando, FL 32839-9205  
Phone: (407) 836-7941  
Fax: (407) 836-8024

The CONTRACTOR shall bear all costs of establishing, relocating or re-establishing all disturbed N.G.S. monuments, public land corners, property corners, or right-of-way monuments. Survey field book(s) shall be used throughout the course of the project by the contractors PSM. The complete survey field book(s) shall be submitted to the County Surveyor concurrently with the submission of the CONTRACTOR’S requisition for final payment. When a data collector is

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used, the CONTRACTOR shall also submit a paper copy of the raw data files bound in a book, together with the electronic copy on a disk.

#### **ARTICLE 8 – BONDS, INSURANCE AND INDEMNIFICATION**

No changes. See PART F GENERAL CONDITIONS.

#### **ARTICLE 9 – CONTRACTOR’S RESPONSIBILITIES**

GENERAL CONDITION, PART F, ARTICLE 9, CONTRACTOR’S RESPONSIBILITIES, “**Supervision and Superintendence**”, second paragraph, is appended as follows:

The CONTRACTOR shall provide a competent superintendent at the site at all times while work is in progress to act as the CONTRACTOR’S agent. The superintendent shall be capable of properly interpreting the Contract Documents, have sufficient experience in highway/street construction, and be able to speak and understand English. The superintendent shall have full authority to receive instructions from the PROJECT MANAGER and to execute the orders or directions of the PROJECT MANAGER, including promptly supplying any materials, tools, equipment, labor, and incidentals that may be required. The CONTRACTOR shall furnish the qualifications of the proposed superintendent to the PROJECT MANAGER at the preconstruction conference. The COUNTY shall be the sole determiner of whether or not the experience of the superintendent is sufficient for the purposes of this paragraph. At least one other responsible person who speaks and understands English shall be on the project during all working hours.

GENERAL CONDITION, PART F, ARTICLE 9, CONTRACTOR’S RESPONSIBILITIES, “**Supervision and Superintendence**”, is appended as follows:

**Supervision for Emergencies:** A responsible person, who speaks and understands English, shall be available at or reasonably near the worksite on a 24 hour basis, seven days a week. This person shall be designated as the point of contact for emergencies and in cases that require immediate action to maintain traffic or to resolve any other problem that might arise. A list of the phone numbers and names of personnel designated to be contacted in cases of emergency, along with a description of the project location, shall be submitted, by certified mail, to the Florida Highway Patrol and all other local law enforcement agencies.

GENERAL CONDITION, PART F, ARTICLE 9, CONTRACTOR’S RESPONSIBILITIES, “**Permits**”, is appended as follows:

**Certifications/Permit Compliance:** The CONTRACTOR shall prepare and submit all certifications required by regulatory agencies having jurisdiction over the project, including engineer's certifications and as-built drawings required by the Water Management District(s). The



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final 5 percent retainage shall not be released, and/or the final pay request shall not be accepted until all required certifications have been submitted and accepted by the regulatory agencies.

GENERAL CONDITION, PART F, ARTICLE 9, CONTRACTOR'S RESPONSIBILITIES, "**Record Drawings**", is appended as follows:

**As-Built Plans:** AS-BUILT PLANS shall be used for no other purpose than recording changes, shall be updated at least once weekly, and stored separate and apart from plans used on a routine basis. They shall show locations and elevations of paving, swales, ditches, pipes and structures constructed and all relocated or reset property corners, section corners and ¼ section corners. The AS-BUILT PLANS shall be available to the PROJECT MANAGER upon request. Upon the completion of the project the CONTRACTOR shall submit to the PROJECT MANAGER one set of signed and sealed AS-BUILT PLANS and PDF file on CD. These AS-BUILT PLANS shall delineate all revised information in bold notation and include the As-Built Survey Requirements as stated below.

#### **Qualifications of Surveyor and Mapper or Engineer**

The Florida Licensed Professional Engineer(s) or Florida Registered Professional Surveyor and Mapper(s) who are proposed by the CONTRACTOR to provide services for the Project, are subject to the approval of the PROJECT MANAGER and/or the County Surveyor. Prior to any services being performed, the CONTRACTOR shall submit the name and address of any proposed registered professional and a written acknowledgement from the Professional Surveyor and Mapper stating that he has the hardware, software and adequate scope of services to complete the As-Built Survey requirements as stated below. These submittals shall be provided to the PROJECT MANAGER at the Pre-Construction conference. It is recommended that the Professional Surveyor and Mapper attend the Preconstruction conference. It is mandatory that any Surveyor and Mapper who has not previously performed work for the County in the past attend the Preconstruction conference.

#### **As-Built Survey Requirements**

- a. The Contractor shall require the Professional Surveyor and Mapper to locate all improvements for the As-Built Survey using State Plane Coordinates and the vertical datum referenced on the Construction drawings. The CONTRACTOR shall obtain an electronic copy of the Construction Drawings from the COUNTY for use as only a base for the As-Built Survey. The As-Built Survey shall clearly show the designed and constructed locations and elevations for ease of comparison. This shall be accomplished by adding the As-Built information on a separate CAD layer, while keeping all the design call-outs and construction requirements visible. The As-Built information shall be labeled as such and be shown with a bolder text weight in order to be easily identifiable. All planned improvements referenced by station and offset on the Plans, shall also be

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referenced on the As-Built Survey in the same manner. All constructed improvements that have location and/or elevation information called-out on the Plans, shall have the same information identified on the As-Built Survey. If a structure information table was provided on the Plans, then the As-Built information shall be shown in the table in bold print. Design call-outs shall have a strike through line through the design call-out and all As-Built information must be labeled (or abbreviated "AB") and be shown in a bolder text that is completely legible. As-Built Survey shots shall be taken at the same locations as shown on the Plans for ease of comparison. Any variations from required material sizes shall also be noted.

- b. If survey points are disturbed, it is the responsibility of the Contractor's Surveyor and Mapper to reset the points at the Contractor's expense and show on the As-Built Survey. Copies of the Contractor's Surveyor and Mappers field notes and/or electronic files for point replacement shall be provided to the County Surveyor through the Project Manager, and shall include hard-copies, that are signed and sealed by the Professional Surveyor and Mapper.
- c. The Contractor's Professional Surveyor and Mapper shall locate all improvements for the Project As-Built using State Plane Coordinates as the horizontal datum and the benchmark(s) referenced on the Plans as the vertical datum. The Project Manager, or County Surveyor will provide electronic files of the Plans to be used by the Surveyor and Mapper in complying with these specifications. Construction layout shall be established from the reference points (CONTROL) shown or listed on the Plans and will either be recovered or re-set by the Contractor's Professional Surveyor and Mapper and identified on the As-Built Survey. The Contractor's Professional Surveyor and Mapper shall identify on the As-Built Survey and replace any Project control points, boundary corners, benchmarks, section corners that may be lost or destroyed, at no additional cost to Orange County. A certified copy of each Certified Corner Record that the Contractor's Professional Surveyor and Mapper has been required to complete will also be submitted to the County Surveyor through the Project Manager.

DELIVERABLES AS FOLLOWS:



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- A paper copy of the plans available at all times at the job site during the entire duration of the project marked up in red by the CONTRACTOR, and showing all deviations from the design locations and elevations.
- The CONTRACTOR shall submit an updated copy (paper or pdf file on CD) of the red line As-Built Plan concurrent with each application for progress payment. The update red line As-Built Plan shall focus on the period from the last red line As-Built Plan to the current red line As-Built Plan submitted with the application for progress payment. The updated red line As-Built Plan shall be reviewed and approved by the Orange County Inspector prior to the CONTRACTOR'S submittal. The CONTRACTOR'S failure to submit an updated copy (paper or pdf file on CD) of the red line As-Built Plan as described herein with an application for progress payment shall be sufficient reason for rejection of the progress payment request. Should the Project Manager reject the updated red line As-Built Plan submitted, the entire progress payment request shall be rejected and must be resubmitted.
- A PDF file of the final "As-Built Plans" as described in the previous **As-Built Survey Requirements (G-8 of the Supplemental Conditions)**, be prepared by an appropriately licensed PSM on a CD of the construction drawings showing the design horizontal location and elevation of all facilities constructed or incorporated into the project with changed values struck through with a single line to maintain legibility and the new value added. Facilities constructed in a modified fashion from that shown on the construction plans shall be shown and identified in their originally designed and final as-constructed configurations. Facilities added shall be shown and identified.
- One (1) paper copies of the final "As-Built Plans", as described below, signed and sealed by the appropriately licensed PSM that prepared them.
- Signed and Sealed Field Book(s), Copies of Adjusted Benchrun, Raw Data files-(horiz.).
- Signed and Sealed Certification Letter per Highway Construction's Project Completion List – **Substantial Completion**.

Upon the completion of the project the CONTRACTOR shall submit the AS-BUILT PLANS as an electronic file in PDF format and (1) One, (see above) - 24"x36" paper Full Size Drawings which shall have Statements of Certification certifying that the project was constructed according to the Construction Plans and Specifications, and that the AS-BUILT PLANS are a correct representation of what was constructed. The CONTRACTOR shall include the Statement of Certification on either the cover sheet of the AS-BUILT PLANS certifying all of the sheets or certifying each individual sheet. The Statements of Certification shall be signed and sealed by a Professional Engineer and/or a Professional Surveyor and Mapper, both registered in the State of Florida.

The CONTRACTOR'S failure to maintain current and accurate AS-BUILT PLANS may result in withholding payments to cover costs of obtaining and recording information sufficient to fully document construction varying from the bid documents. The COUNTY'S cost, including

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consultant fees, of obtaining as-built information will be deducted from the contract amount. The CONTRACTOR'S request for final payment shall be accompanied by one complete, legible set of final signed and sealed AS-BUILT PLANS and PDF file on disc from a licensed Professional Surveyor and Mapper. The cost of the AS-BUILT PLANS and pdf file shall be included in the pay item 900-1, This cost covers roadway bid items only and does not cover the Orange County Utilities or other third party AS-BUILT PLANS.

GENERAL CONDITION, PART F, ARTICLE 9, CONTRACTOR'S RESPONSIBILITIES, "Safety And Protection", is appended as follows:

**Protection of Property:** The CONTRACTOR shall be responsible for any damage whatsoever whether occurring within or outside of the boundaries of the PROJECT including any property adjacent to the PROJECT when such damage is caused in whole or in part by any act of the CONTRACTOR or any employee, agent or subcontractor working under, with or in privity to the CONTRACTOR. The CONTRACTOR and all the aforementioned parties shall stay off private property adjacent to the PROJECT unless the CONTRACTOR receives from the affected property owner a written release, which specifically releases the COUNTY from any liability for any damage to such property caused by any acts other than those of the COUNTY. This written release must be acceptable in form to the PROJECT MANAGER and delivered to and accepted by the PROJECT MANAGER before the CONTRACTOR makes any entry upon such private property. The CONTRACTOR shall also obtain all necessary permits and approvals from all regulatory agencies for all activities to be conducted by the CONTRACTOR on the private property. Necessary approvals may include, but are not limited to the United States Army Corps of Engineers, the United States Environmental Protection Agency, the Florida Department of Environmental Protection, the Florida Department of Transportation, the applicable Water Management District, the Orange County Environment Protection Division (EPD), and applicable municipal agencies for properties located within incorporated areas. The CONTRACTOR shall provide written documentation to the PROJECT MANAGER of the necessary approvals and permits having been obtained.

At the preconstruction conference, CONTRACTOR shall submit to the PROJECT MANAGER a current aerial map (11" x 17" minimum size) depicting at a minimum the temporary staging area including property lines, easement lines, and right-of-way lines. The PROJECT MANAGER will submit the aerial map to the Manager of the Orange County Environmental Protection Division (EPD) with a request to perform a cursory review of the CONTRACTOR'S proposed temporary staging area. Within 30 calendar days of receipt of the request, EPD will provide a summary to the PROJECT MANAGER of any natural resource issues or concerns that occur on the site for the CONTRACTOR'S consideration. CONTRACTOR is hereby notified that the proposed temporary staging area shall not be utilized until such time as EPD completes their cursory review and all other items within the contract documents pertaining to the temporary staging area are satisfied. No additional time or special compensation will be made to the

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CONTRACTOR to defray costs of any of the work or delays for complying with the requirements of the above.

GENERAL CONDITION, PART F, ARTICLE 9, CONTRACTOR'S RESPONSIBILITIES, is appended as follows:

**Site Investigation:** The CONTRACTOR shall be responsible for satisfactorily determining, prior to the submission of a bid, the nature and location of the work, the conformation of the ground, the character and quality of the substrata, the types and quantity of materials to be encountered, the nature of the groundwater conditions and all other matters which can in any way affect the work under this contract. The prices established for the work to be done will reflect all costs pertaining to the work. Any claims for extras based on substrata or groundwater table conditions will not be allowed.

Information available to the COUNTY on subsoil conditions is available to bidders as information only and solely for the convenience of bidders. The COUNTY does not warrant or guarantee the accuracy or correctness of this information with respect to actual subsurface conditions. The CONTRACTOR agrees that he will make no claims against the COUNTY if, in carrying out the work, he finds that actual conditions encountered do not conform to those indicated.

Information shown on the plans as to the location of existing utilities has been prepared from the most reliable data available to the Engineer. This information is not guaranteed, however, and it shall be the CONTRACTOR'S responsibility to determine the location, character and depth of any existing utilities and to assist the utility companies, by every means possible, to determine said locations. Extreme caution shall be exercised to eliminate any possibility of any damage to utilities resulting from the CONTRACTOR'S activities.

Unless otherwise noted, the CONTRACTOR will take ownership of all materials encountered which are designated to be removed or not incorporated into the Work, such as paving materials, paving brick, asphalt block, RAP/Milled material, concrete slab, sidewalk, curb and gutter, pipe materials, etc., excavated in the removal of existing pavements, and dispose of them outside of the right-of-way. Payment for this item shall be included in Pay Item No. 110-1-1 Clearing and Grubbing.

GENERAL CONDITION, PART F, ARTICLE 9, CONTRACTOR'S RESPONSIBILITIES, "Use of Public Roads and Streets", is added as follows:

**Use of Public Roads and Streets:** Use of public streets shall be such as to provide a minimum of inconvenience to the public and to traffic. Any earth or excavated material spilled from trucks shall be removed by the CONTRACTOR and streets cleaned to the satisfaction of the PROJECT MANAGER. Cleaning may include street sweeping and/or washing, if so directed by the PROJECT MANAGER.

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The CONTRACTOR shall provide vehicular access to each residence, subdivision and other public roads at all times.

GENERAL CONDITION, PART F, ARTICLE 9, CONTRACTOR'S RESPONSIBILITIES, "**Care of trees, Shrubs and Grass**", is added as follows:

**Care of trees, Shrubs and Grass:** The CONTRACTOR shall be fully responsible for maintaining in good condition all cultivated grass plots, trees and shrubs beyond the grading limits of this Contract. After completion of the work, the CONTRACTOR shall replace or restore to the original condition all destroyed or damaged shrubbery or grass areas. Tree limbs, which interfere with equipment operation and are approved for pruning, shall be neatly trimmed and the tree cut coated with tree paint.

GENERAL CONDITION, PART F, ARTICLE 9, CONTRACTOR'S RESPONSIBILITIES, "**Use of Explosives**", is added as follows:

**Use of Explosives:** No blasting shall be done except upon approval by the COUNTY and the governmental agency or political subdivision having jurisdiction. When the use of explosives is approved by the COUNTY as necessary for the execution of the work, the CONTRACTOR shall use the utmost care so as not to endanger life or property, and assume responsibility for any such damage resulting from his blasting operations, and whenever directed, the number and size of the charges shall be reduced.

All explosives shall be stored in a secure manner and all such storage places shall be clearly marked, "**DANGER EXPLOSIVES**" and shall be in care of competent watchmen. All permits required for the use of explosives shall be obtained by the CONTRACTOR at his expense. All requirements of the governmental agency issuing permit shall be observed.

GENERAL CONDITION, PART F, ARTICLE 9, CONTRACTOR'S RESPONSIBILITIES, "**Damage to Existing Structures and Utilities**", is added as follows:

**Damage to Existing Structures and Utilities:** The CONTRACTOR shall be responsible for and make good all damage resulting from his activities, both within and beyond the limits of this contract, to buildings, telephone, power or other cables, water pipes, storm sewer facilities, sanitary pipes, gas lines, traffic signalization, or other utilities or structures, which may be encountered, whether or not shown on the plans.

GENERAL CONDITION, PART F, ARTICLE 9, CONTRACTOR'S RESPONSIBILITIES, "**Cleaning Up**", is appended as follows:

**Final Clean Up:** The entire street shall be cleaned by sweeping or washing, as determined by the PROJECT MANAGER, prior to final acceptance.

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### **ARTICLE 10 – WORK BY OTHERS AND UTILITY COORDINATION**

GENERAL CONDITION, PART F, ARTICLE 10, WORK BY OTHERS, is appended as follows:

The CONTRACTOR shall cooperate with owners of any underground or overhead utilities in their removal and relocation operations, in order that these operations may progress in a timely, reasonable and orderly manner and that service rendered by these parties will not be interrupted.

Excavators shall comply with Florida Statutes, Chapter 556 - UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY, regarding notification of existing gas and oil pipeline company owners prior to excavating. **Evidence of such notice shall be furnished to the PROJECT MANAGER prior to excavating.** During the period of this contract the CONTRACTOR shall coordinate all utility relocations and adjustments necessary for the project. The CONTRACTOR shall conduct meetings weekly or at a frequency approved by the Engineer with all affected Utility Owners, and the minutes of those meetings shall be distributed to each Utility owner, the PROJECT MANAGER, and any other affected entity. The CONTRACTOR shall incorporate the durations listed in the Utility Relocation Schedules into his Contract Schedule, and transmit copies of that schedule to each Utility owner. The CONTRACTOR shall constantly communicate the status of the progress of the project to the Utility Owners, and advise them of any potential impacts to the progress due to the presence of the utilities. The CONTRACTOR shall keep the COUNTY and the County's PROJECT MANAGER apprised of all developments related to Utility Relocation and job progress. The CONTRACTOR shall coordinate during the period of this contract with the applicable lighting facility owners for the installation of roadway lighting facilities for the project. CONTRACTOR shall not be entitled to additional compensation from COUNTY as a result of failure of any utility to remove, relocate, or install their facilities within any particular time frame.

### **ARTICLE 11 – PROJECT OWNER STATUS DURING CONSTRUCTION**

No changes. See PART F GENERAL CONDITIONS.

### **ARTICLE 12 – CHANGES IN THE WORK**

No changes. See PART F GENERAL CONDITIONS.

### **ARTICLE 13 – CHANGE OF CONTRACT AMOUNT AND CONTRACT TIME**

GENERAL CONDITION, PART F, ARTICLE 13, CHANGE OF CONTRACT AMOUNT AND CONTRACT TIME, is appended as follows:

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The number of days of any change to the contract time incorporated by Change Order shall be applied to both the Substantial Completion time and the Final Completion time, unless otherwise established by the COUNTY in these specifications.

##### **ARTICLE 14 – CONDITION OF MATERIALS AND PACKAGING**

No changes. See PART F GENERAL CONDITIONS.

##### **ARTICLE 15 – ASBESTOS FREE MATERIALS**

No changes. See PART F GENERAL CONDITIONS.

##### **ARTICLE 16 – WARRANTY AND GUARANTEE, ACCEPTANCE OF DEFECTIVE WORK**

GENERAL CONDITION, PART F, ARTICLE 16, WARRANTY AND GUARANTEE, ACCEPTANCE OF DEFECTIVE WORK, “**Tests and Inspections**”, is appended as follows:

The cost of laboratory testing routinely performed on the job site or subsequent to samples typically retrieved from the job site, shall be borne by the COUNTY, except for testing called for in the Technical Provisions to be provided by the CONTRACTOR. Concrete and Soil-Cement mix design, and groundwater testing costs shall be borne by the CONTRACTOR.

All testing, except Soil-Cement testing, shall be in accordance with the applicable portions of Division I, Section 6 of the STANDARD SPECIFICATIONS. Soil-Cement testing shall be in accordance with Part H, Technical Provision 270 (TP-270).

The Record Laboratory is the testing laboratory contracted by the COUNTY. Only results of testing by the Record Laboratory shall be considered in evaluating the CONTRACTOR'S compliance with contract requirements.

The CONTRACTOR may be required to reimburse the COUNTY for the cost of all failed tests, including consultant fees, when the percentage of failed tests exceeds 15% of all tests taken. At the COUNTY'S discretion these costs may be deducted from the contract amount.

##### **ARTICLE 17 – DELAYS AND EXTENSION OF TIME**

No changes. See PART F GENERAL CONDITIONS.

##### **ARTICLE 18 – PAYMENT AND COMPLETION**

No changes. See PART F GENERAL CONDITIONS.



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**ARTICLE 19 – SUSPENSION OF WORK AND TERMINATION**

No changes. See PART F GENERAL CONDITIONS.

**ARTICLE 20 – MAINTENANCE AND EXAMINATION OF RECORDS**

No changes. See PART F GENERAL CONDITIONS.

**ARTICLE 21 – MINORITY/WOMEN OWNED BUSINESS ENTERPRISE REQUIREMENTS AND SMALL BUSINESS PROVISIONS**

No changes. See PART F GENERAL CONDITIONS.

**ARTICLE 22 – FEDERAL REQUIREMENTS**

No changes. See PART F GENERAL CONDITIONS.

**ARTICLE 23 – VERBAL ORDERS**

No changes. See PART F GENERAL CONDITIONS.

**ARTICLE 24 – MISCELLANEOUS**

GENERAL CONDITION, PART F, ARTICLE 24, MISCELLANEOUS, is appended as follows:

Whenever any provision of the Contract Documents requires giving of notice by the COUNTY, it shall be deemed to have been validly given if delivered in person to the individual, to a member of the firm or to an officer of the corporation for whom it is intended, or if sent by registered or certified mail (postage prepaid) and delivered to the last business address known to the COUNTY.

**ARTICLE 25 – CONTRACT CLAIMS**

No changes. See PART F GENERAL CONDITIONS.

**ARTICLE 26 – VALUE ENGINEERING**

No changes. See PART F GENERAL CONDITIONS.

**ARTICLE 27 – PATENTS AND ROYALTIES**



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No changes. See PART F GENERAL CONDITIONS.

**ARTICLE 28 – OWNER DIRECT PURCHASE**

No changes. See PART F GENERAL CONDITIONS.

**ARTICLE 29 – PUBLIC RECORDS COMPLIANCE (APPLICABLE FOR SERVICE CONTRACTS)**

No changes. See PART F GENERAL CONDITIONS.

**ARTICLE 30 - PROSECUTION AND PROGRESS OF WORK**

ARTICLE 30, PROSECUTION AND PROGRESS OF WORK, is added as follows:

**Submission of Working Schedule:** The CONTRACTOR shall provide a schedule that shows the various activities of work in sufficient detail to demonstrate a reasonable and workable plan to complete the project within the established Contract Time. The order and interdependence of activities and the sequence for accomplishing the work shall be shown. All activities shall be described in sufficient detail so that the COUNTY can readily identify the planned work and measure the progress of each activity. Each activity will be shown with a beginning work date, duration, and monetary value.

Activities for the procurement, fabrication, and/or delivery of materials, batch plants, and equipment shall be included.

Activities for the review of shop drawings and submittals shall be included.

Activities indicating coordination with utility owners that have facilities within the limits of construction requiring adjustment or relocation shall be included.

Milestone activities, when required by the Contract Documents, shall be included.

In a project with more than one phase, each phase and its completion date shall be adequately identified. Activities will not be allowed to span more than one phase.

The CONTRACTOR shall submit a narrative with the schedule, consisting of a concise written description of the construction plan.

An updated Work Progress Schedule shall be submitted monthly to the COUNTY. All changes in the planned order start or finish dates, or duration of an activity will be applied.

A revised Work Progress Schedule shall be submitted to the COUNTY for acceptance when significant changes are made to the logic or durations of the activities. The COUNTY will review the corrected schedule and respond within 7 calendar days of receipt.

The COUNTY will return inadequate schedules to the CONTRACTOR for corrections. A corrected schedule will be resubmitted within 15 calendar days from the date of the COUNTY's

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return transmittal. By acceptance of the schedule, the COUNTY does not endorse or otherwise certify the validity or accuracy of the activity durations or sequencing of activities.

The COUNTY will use the initially accepted schedule as the baseline against which to measure progress and identify critical activities that are controlling items of work.

If the CONTRACTOR fails to finalize either the initial or a revised schedule in the time specified, the COUNTY will withhold all Contract payments until the schedule is accepted.

**Work Hours:** Project work hours shall be between 7:00 AM and 6:00 PM Monday through Friday, exclusive of normal Orange County holidays, unless approved otherwise by the PROJECT MANAGER. The CONTRACTOR shall request approval from the PROJECT MANAGER at least 72 hours in advance for work outside those hours. Variable message board (VMB) signs shall be installed ten (10) days prior to all day and night time lane closures and major traffic impacts to major roads (as directed by the engineer). The contractor shall submit a Start Work Notice at least seven (7) days prior to installing VMB's. Work before 7:00AM or after 3:30PM, or on days other than the above described normal work days, and requiring the presence of the COUNTY'S RESIDENT PROJECT REPRESENTATIVE shall require that the CONTRACTOR reimburse the COUNTY for the salary and overtime cost of the RESIDENT PROJECT REPRESENTATIVE. Reimbursement shall be made by the CONTRACTOR at the rate of \$45.00 per hour by check payable to the Board of County Commissioners accompanying each monthly pay request. Each pay request shall include a tabulation of the overtime dates, times, hours and costs for the preceding month. The amount of the check must agree with the tabulated total. In the event the CONTRACTOR chooses to not submit a pay request when normally due for work he has completed, the CONTRACTOR shall submit a pay request showing that no payment is due to him, and shall include the tabulation of the overtime worked during the preceding month. Payment must be made for overtime work performed to address emergencies outside the above described normal working hours, unless the RESIDENT PROJECT REPRESENTATIVE determines, at his or her sole discretion that the emergency is the result of actions by third parties.

**Compliance with Time Requirements:** The CONTRACTOR shall commence work in accordance with the accepted Work Progress Schedule and provide sufficient labor, materials and equipment to complete the work within the time limit(s) set forth. Should the CONTRACTOR fail to furnish sufficient and suitable equipment, forces, and materials, as necessary to prosecute the work in accordance with the accepted schedule, the COUNTY may withhold all estimates that are, or may become due, and/or suspend the work until the CONTRACTOR corrects such deficiencies.

**Video Survey:** The CONTRACTOR shall submit a quality video documenting before and after construction field conditions for the entire project. The PROJECT MANAGER will approve all views.

Payment for this item will be included in other items of work.

## PART G

### SUPPLEMENTAL CONDITIONS / SPECIAL PROVISIONS

Sadler Road & U.S. 441 Intersection Improvements Project

### **SUPPLEMENTAL CONDITIONS**

**Project Progress Aerial Photographs:** The CONTRACTOR shall submit aerial photographic prints monthly with progress payment requests. The first set of aerial photographic prints must be taken prior to any clearing and grubbing. The aerial photographs shall be in color and at least 11" x 14" (280 mm x 356 mm) in size. Exposures shall be made at 10 per mile (10 per 1.6 km) minimum plus one exposure for each offsite construction area. The PROJECT MANAGER will approve all views.

Payment for this item will be included in other items of work.

#### **ARTICLE 31 - METHOD OF MEASUREMENT**

ARTICLE 31, METHOD OF MEASUREMENT, is added as follows:

All measurements for payment shall be based on the completed work performed in strict accordance with Contract Documents. All work completed under this contract shall be measured by the CONTRACTOR or his representatives in the presence of the PROJECT MANAGER.

**THIS ENDS THE SUPPLEMENTAL CONDITIONS**

## PART G

### SUPPLEMENTAL CONDITIONS / SPECIAL PROVISIONS

Sadler Road & U.S. 441 Intersection Improvements Project

### SPECIAL PROVISIONS

1. **ROADWAY IMPROVEMENTS:** This project includes construction of an eastbound right turn lane on Sadler Road onto southbound US 441 for a total length approximately 0.155 miles. Roadway improvements include road widening, milling and resurfacing with asphaltic concrete structural course and friction course, Type F concrete curb and gutter, type B stabilization, soil cement base, clearing and grubbing, excavation, embankment and grading, groundwater treatment and disposal, a 6-inch thick concrete driveway, 4-inch thick concrete sidewalk, sod, pipe handrail, mailbox relocation, and signing and pavement markings. Signalization work includes involving loop detector assembly and modification of traffic controller assembly.

Drainage improvements include concrete pipe culvert, mitered end sections, concrete ditch pavement, curb inlets, ditch bottom inlets, closed flume inlets, and ditch regrading.

All pedestrian features are to adhere to current ADA standards. Utility coordination is required. Coordination with will be needed with FM 437333-1 US 441 Resurfacing from Jones Avenue to Wadsworth Avenue.

2. **CONSTRUCTION SCHEDULE / LIQUIDATED DAMAGES:** This work requires Substantial Completion in **110** days from the date of Notice to Proceed with Final Completion in **140** days. If substantial and final completion is not met by the required time, liquidated damages will be applied at the rate of \$1,241.00 per day as per the provisions in the Contract governing liquidated damages.
3. **UTILITY COORDINATION:** The CONTRACTOR is to coordinate any utility improvements and / or relocations for this project. The CONTRACTOR shall not use utility delays as a basis for additional compensation. Contractor shall be responsible for all coordination with utilities and shall cooperate fully with utility companies in the relocation of their facilities.
4. **RIGHT-OF-WAY / PARCEL CONSIDERATIONS:** The CONTRACTOR is notified that at the time of this bid, the COUNTY has acquired all of the right-of-way and temporary easements required to complete the project.
5. **MAINTENANCE OF TRAFFIC:** At the pre-construction conference the CONTRACTOR shall submit a detailed Maintenance of Traffic plan approved by Orange County, Traffic Engineering to the Orange County Highway Construction Division. The Maintenance of Traffic plan shall address the maintenance of vehicular and pedestrian traffic between the limits of construction, as well providing business signage for all business along the corridor, and must be signed and sealed by a Professional Engineer registered in the State of Florida. The cost of preparing this plan including Orange County's permit fee

## PART G

### SUPPLEMENTAL CONDITIONS / SPECIAL PROVISIONS

Sadler Road & U.S. 441 Intersection Improvements Project

#### SPECIAL PROVISIONS

in the amount of \$128 shall be included in Pay Item 102-1, Maintenance of Traffic. The attached Maintenance of Traffic plans provided by the COUNTY is for reference and guidance only. CONTRACTOR shall not be entitled to any additional compensation as a result of the Maintenance of Traffic plan he/she chooses to use, whether or not he/she prepared such plan.

The CONTRACTOR shall provide uniformed off-duty law enforcement officer(s) for all night time lane closures. Variable message board (VMB) signs shall be installed ten (10) days prior to all day and night time lane closures and major traffic impacts to major roads (as directed by the engineer). The contractor shall submit a Start Work Notice at least seven (7) days prior to installing VMB's. The Cost shall be included in pay item number 102-1, Maintenance of Traffic.

6. **PEDESTRIAN WALKWAY:** The CONTRACTOR shall provide and maintain a safe walkway for pedestrians, in compliance with the Americans with Disability Act, along the limits of the project and for the entire project duration. The cost will be included under Pay Item 102-1 Maintenance of Traffic.
7. **SITE CONTAMINATION:** The CONTRACTOR is advised that no known contamination exists. If the CONTRACTOR discovers contamination within the project, no additional compensation will be provided in the event the CONTRACTOR is required to modify his means and methods or construction schedule in order to comply with requirements of any regulatory agency with regard to any contamination, which may be encountered within or in the proximity to the project limits during construction. The CONTRACTOR may be granted non-compensable days to the extent, the critical path of the project is impacted by temporary work stoppages that may be required to address the presence of contamination. The CONTRACTOR is directed to safeguard and protect any monitoring wells installed within the right-of-way; otherwise, the CONTRACTOR shall restore all damaged monitoring wells and bear all associated costs, including securing the necessary permits from the proper regulatory agency. Construction and maintenance of monitoring wells shall be at the expense of the parcel owner of the contaminated property.
8. **SEPTIC TANKS & WELLS:** The CONTRACTOR is responsible for the inspection, removal and disposal of septic tanks, drain fields and potable wells within the right-of-way. The cost will be included under Pay Item 110-1, Clearing & Grubbing.
9. **PAY ITEMS:** The cost of all equipment, materials and labor for temporary or permanent facilities necessary to construct the improvements identified in the plans, specifications, or other Contract Documents shall be deemed to be included in the various items making up the Contract Price. No separate payment shall be made to the CONTRACTOR for any such equipment, materials and labor for which a separate Pay Item has not been provided.

## PART G

### SUPPLEMENTAL CONDITIONS / SPECIAL PROVISIONS

Sadler Road & U.S. 441 Intersection Improvements Project

#### SPECIAL PROVISIONS

No adjustments shall be made on this contract to the bid price of any product or material, including gasoline, diesel or other fuels, and bituminous materials, including asphalt, due to fluctuations in market prices, changes in suppliers, or any other reasons.

#### 10. ENVIRONMENTAL CONCERNS:

- a. **FEDERALLY OR STATE DESIGNATED LISTED SPECIES:** The Florida Fish and Wildlife Conservation Commission maintains the state list of animals designated as Federally-designated Endangered or Threatened, State-designated Threatened, or State designated Species of Special Concern, in accordance with Rules 68A-27.003 and 68A-27.005. The CONTRACTOR must comply with the above-mentioned rules at no cost to the County. There also shall be no additional compensation in the event the CONTRACTOR is required to modify his means and methods or construction schedule in order to comply with the requirements of any regulatory agency with regard to any Federally or State listed species which may be encountered within or in proximity to the project limits during construction. The CONTRACTOR may be granted non-compensable days to the extent the critical path of the project is impacted by temporary work stoppages that may be required to address the presence of listed species as mentioned above.

11. **REQUEST FOR ADDITIONAL INFORMATION (RAI):** The COUNTY will require a reasonable amount of time, at least 10 business days, to respond to any RAI submitted by the CONTRACTOR. Any delay in responding to the RAI can not be used as a reason to reimburse for any additional compensation, including delay claims.

12. **EARTHWORK:** The CONTRACTOR is notified that the soil survey shown in the plans is based on limited geotechnical investigation. The CONTRACTOR is to field verify and test all excavated earthwork material to determine if the soil is classified as a Select soil and suitable for embankment utilization. In the event that any excavated earthwork material is not suitable for embankment utilization, the CONTRACTOR shall replace the unsuitable material with Select soil to furnish and install the required embankment at no additional cost to the COUNTY. The CONTRACTOR shall be responsible for the disposal of the unsuitable material at a COUNTY approved site at no additional cost to the COUNTY.

The COUNTY grants access to all the bidders to the entire project limits. The bidders are responsible for obtaining approval from all the regulatory agencies that have jurisdiction for investigative work. A Right-of-Way Utilization Permit shall be issued by the Highway Construction Division for performing borings within the project limits. Contact the Highway Construction Division to obtain information regarding a Right-of-Way utilization permit. The bidders shall be entirely responsible to ensure that all the disturbed areas are



## PART G

### SUPPLEMENTAL CONDITIONS / SPECIAL PROVISIONS

Sadler Road & U.S. 441 Intersection Improvements Project

#### SPECIAL PROVISIONS

restored to as good as or better than the existing conditions. The bidders shall be responsible to comply with all permit conditions, rules and regulations including but not limited to NPDES and threatened and endangered species.

13. **PIPE QUALITY CONTROL AND INSPECTION:** CONTRACTOR is hereby notified that at the COUNTY'S discretion the County will direct the COUNTY'S lab of record to the drainage pipe manufacturer and/or drainage structure manufacturer. The purpose shall be to inspect the drainage pipes and / or drainage structures as they are being produced. If the COUNTY notifies the CONTRACTOR that the COUNTY'S lab will be inspecting the pipe, then only drainage pipes and drainage structures that have been inspected during the manufacturing process and stamped by the COUNTY'S lab of record shall be delivered to the project site. This inspection by the COUNTY'S lab of record in no way precludes the COUNTY'S right and ability to reject damaged pipe as a result of manufacturing, transporting, handling, installing/laying, videoing, etc. It shall be the CONTRACTOR'S responsibility to coordinate this inspection with the COUNTY and to determine the manufacturer's schedule and to ensure that the procurement of these materials does not impact the CONTRACTOR'S overall project schedule.

No additional time or compensation will be made to the CONTRACTOR to defray time or costs of any of the work or delays for complying with the requirements set forth above, but such costs shall be considered as having been included in the price stipulated for the several items of work to be done under this contract.

#### 14. PERMITS

1. **St. Johns River Water Management District Permit (SJRWMD)**

The County has obtained a Permit Exemption from St. Johns River Water Management District (SJRWMD) (Compliance Number: 1215649, dated January 15, 2013) for this project.

2. **National Pollutant Discharge Elimination System (NPDES) permit**

A. **General:** The CONTRACTOR is responsible to obtain or modify, as necessary, all dewatering and land clearing permits required by STATE and COUNTY agencies pursuant to 62-621.300 F.A.C. and Orange County Code.

B. **Land Clearing:** The Contractor shall be responsible to prepare and submit the Notices of Intent (NOI) and the Notice of Termination (NOT) to the Florida Department of Environmental Protection (FDEP). The Contractor shall be responsible to adhere to the construction plan sheet documents addressing the Stormwater Pollution Prevention



## PART G

### SUPPLEMENTAL CONDITIONS / SPECIAL PROVISIONS

Sadler Road & U.S. 441 Intersection Improvements Project

#### SPECIAL PROVISIONS

Plan (SWPPP) and shall identify and incorporate any and all additional needs to prevent, control and reduce erosion and water pollution, meeting the requirements or special conditions of all permits authorizing project construction. In the event no SWPPP is provided the CONTRACTOR shall be responsible to prepare the SWPPP. The SWPPP and NOI forms, attached to this document, must be completed and submitted by the CONTRACTOR to the COUNTY prior to the preconstruction meeting.

- The NOI should be submitted at least two days prior to commencement of construction (permit fees are the responsibility of the CONTRACTOR).
- The NOT should be submitted within 14 days of final completion of the project (permit fees, if any, are the responsibility of the CONTRACTOR).

The CONTRACTOR shall be responsible for compliance with the EPA's NPDES Stormwater Construction permit, the Stormwater Pollution Prevention Plan and the FDEP Generic Permit for Stormwater Discharge from Construction Activities that Disturb One or More Acres of Land. Furthermore, the Contractor shall also comply with the FDEP Generic Permit for Stormwater Discharge from Large and Small Construction Activities. The Contractor shall comply with the requirements indicated by the Florida Department of Environmental Protection.

The cost of this work will be included under pay item No 104-14 - Prevention, Control and Abatement of Erosion and Water Pollution.

C. **Dewatering:** The CONTRACTOR shall be responsible for compliance with the FDEP Notice of Intent to Use the Generic Permit for Discharge of Groundwater from Dewatering Operations (FDEP Document 62-621.300(2)(b), which can be found at <https://floridadep.gov/forms>).

If it is determined that the disposal or discharge of the dewatering effluent is not authorized by this generic permit, the CONTRACTOR shall diligently pursue further required permit(s) from FDEP or other agencies.

Prior to submitting their bid, each prospective CONTRACTOR has the opportunity to perform a search to determine the extent, if any, of contaminated sites within 500 feet of the PROJECT boundaries. It is the intent of this paragraph to provide each prospective CONTRACTOR with an opportunity to investigate the water quality in the vicinity of the PROJECT in order to base his/her bid on means and methods of dewatering.

If, prior to or during the dewatering, it is determined that the disposal or discharge of the dewatering effluent is not authorized by the FDEP's Generic Permit for Stormwater Discharge from Large and Small Construction Activities, the CONTRACTOR shall

## PART G

### SUPPLEMENTAL CONDITIONS / SPECIAL PROVISIONS

Sadler Road & U.S. 441 Intersection Improvements Project

#### SPECIAL PROVISIONS

diligently pursue further required permit(s) from FDEP or other agencies without resort to delay claims or recompense from the COUNTY for either permit application activities or the time required to obtain such permits.

The CONTRACTOR shall be responsible for all costs for water quality monitoring, treatment, storage, and disposal of the groundwater in a manner acceptable to the COUNTY and to all applicable regulatory agencies to reduce the concentration of parameters with exceedances to acceptable levels. The CONTRACTOR will be responsible for obtaining any additional permits required by regulatory agencies to implement the CONTRACTOR's chosen method of disposal and discharge of the groundwater. No additional compensation will be made to CONTRACTOR for permitting. The CONTRACTOR shall comply with Water Quality Requirements of the Special Provisions, related to the National Pollutant Discharge Elimination System (NPDES).

Because the CONTRACTOR'S means and methods of dewatering could lead to potential liability to third parties for damages resulting from the means and methods of dewatering, at the COUNTY'S discretion the means and methods for the dewatering plans are subject to a prior cursory review by the COUNTY, where issues and concerns may be submitted for the CONTRACTOR'S consideration.

The CONTRACTOR shall be deemed fully responsible for the means and method of the dewatering. Should the CONTRACTOR decide to modify or revise the means and method for the dewatering plan, another cursory review will have to be conducted by the COUNTY. Please note that containment on site of dewatering effluent is not considered treatment and disposal for purposes of payment under the pay item number 104-14.

CONTRACTOR shall be responsible to include in his/her bid all cost for treatment and disposal of dewatering effluent. Should it become necessary for the CONTRACTOR to treat and dispose dewatering effluent off site, Orange County will only compensate the CONTRACTOR for those activities at the unit price bid. No additional compensation will be paid to the CONTRACTOR for treatment and disposal of dewatering effluent, regardless of the actual cost incurred by the CONTRACTOR.

#### 15. REPORTS

The following Documents are being provided for informational purposes only and can be accessed at the following website:

[ftp://ftp.ocfl.net/divisions/Public\\_Works/pub/Engineering%20Design/SADLER%20RD%20AT%20US%20441/](ftp://ftp.ocfl.net/divisions/Public_Works/pub/Engineering%20Design/SADLER%20RD%20AT%20US%20441/)

1. Geotechnical Report
2. Preliminary Threatened and Endangered Species Report

**PART G**

**SUPPLEMENTAL CONDITIONS / SPECIAL PROVISIONS**

Sadler Road & U.S. 441 Intersection Improvements Project

**SPECIAL PROVISIONS**

**THIS ENDS THE SPECIAL PROVISIONS**

## **SCOPE OF WORK**

### **SADLER ROAD & U.S. 441 INTERSECTION IMPROVEMENTS**

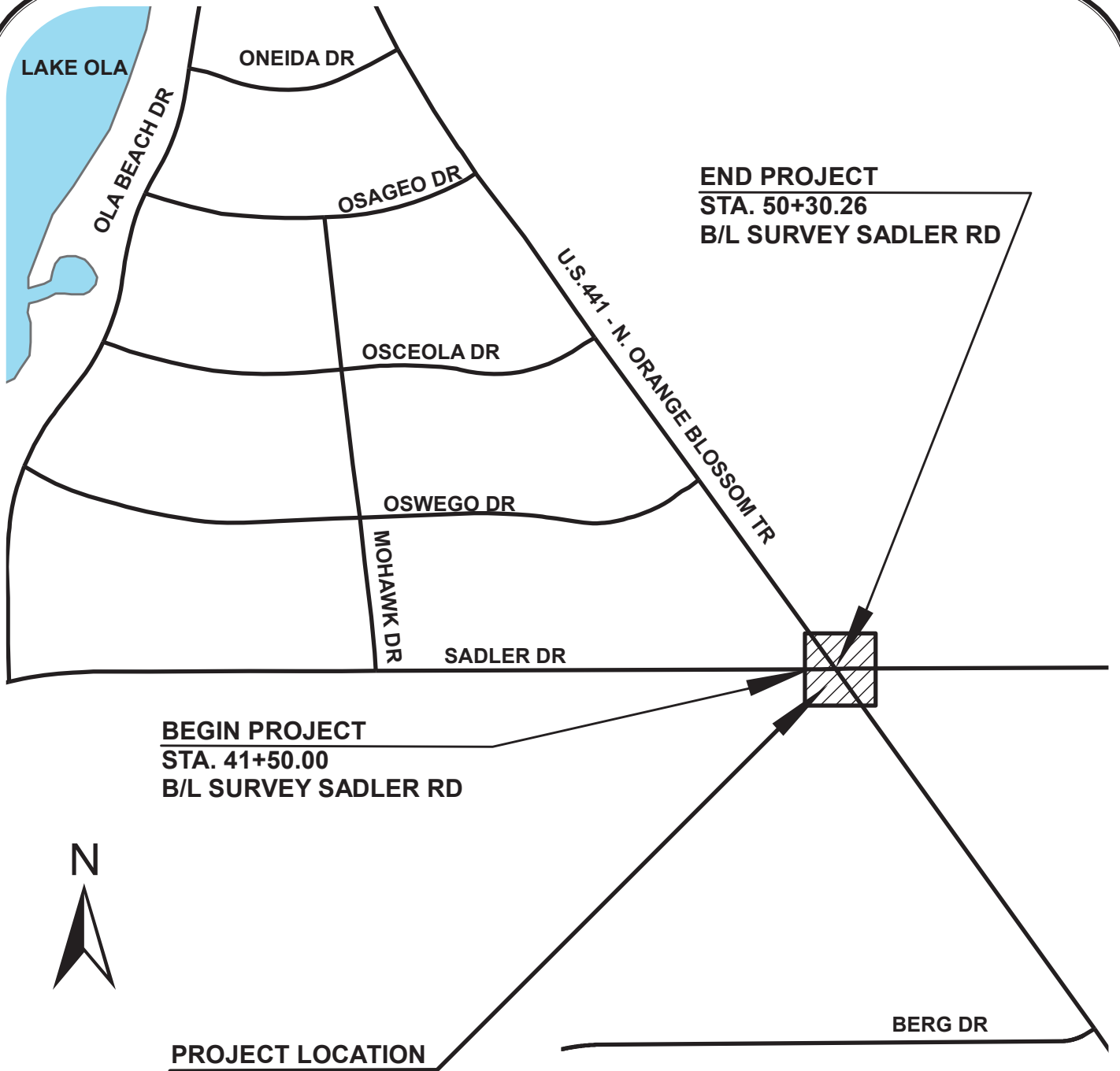
This project includes construction of an eastbound right turn lane on Sadler Road onto southbound US 441 for a total length approximately 0.155 miles. Roadway improvements include road widening, milling and resurfacing with asphaltic concrete structural course and friction course, Type F concrete curb and gutter, type B stabilization, soil cement base, clearing and grubbing, excavation, embankment and grading, groundwater treatment and disposal, a 6-inch thick concrete driveway, 4-inch thick concrete sidewalk, sod, pipe handrail, mailbox relocation, and signing and pavement markings. Signalization work includes involving loop detector assembly and modification of traffic controller assembly.

Drainage improvements include concrete pipe culvert, mitered end sections, concrete ditch pavement, curb inlets, ditch bottom inlets, closed flume inlets, and ditch regrading.

All pedestrian features are to adhere to current ADA standards. Utility coordination is required. Coordination with will be needed with FM 437333-1 US 441 Resurfacing from Jones Avenue to Wadsworth Avenue.

**SADLER RD AT  
U.S. 441 (N. ORANGE BLOSSOM TRAIL)  
INTERSECTION IMPROVEMENTS  
PROJECT**

**LOCATION MAP**





# St. Johns River Water Management District

Hans G. Tanzler III, Executive Director • David Dewey, Maitland Service Center Director

601 South Lake Destiny Road, Suite 200 • Maitland, FL 32751 • (407) 659-4800  
On the Internet at [floridaswater.com](http://floridaswater.com).

January 15, 2013

Mr. Matthew Steen, P.E.  
Johnson, Mirmiran & Thompson  
615 Crescent Executive Court Suite 106  
Lake Mary, FL 32746

RE: Sadler Road at US 441 Intersection Improvements  
Compliance Number: 1215649

Dear Mr. Steen:

The St Johns River Water Management District has received your correspondence, dated December 26, 2012, requesting a permit determination for the proposed improvement within Sadler Road for a right turn lane . The improvements include the additional of 9 feet of roadway widening, sidewalk, curb and gutter and associate drainage improvements along the south side of Sadler Road. The proposed improvements will not encroach upon any wetland or surface water, the length of the turn lanes is .08 miles, which is less than 0.25 miles, and the drainage pattern is the same as in the pre-development condition. The proposed impervious within the traffic area is 3801.6 square feet, which is less than 4000 square feet. The project is not related to any previously permitted project, and no cumulative activity has occurred on or after September 25, 1991.

Pursuant to Chapter 40C-42.022(1)(a)(b)(3), F.A.C., the proposed activity does not exceed permit thresholds. Therefore, no Environmental Resource Permit will be required for the proposed construction.

This letter applies only to the requirements of the St. Johns River Water Management District and does not relieve one from meeting the permit requirements of other agencies. The permit determination made in this letter is based upon information received by the District. If any information contained within this letter is not correct, or if any facts change in the future, please notify the District immediately.

Thank you for your cooperation with the District's Environmental Resource Permitting program. If you have questions, please call me at (407) 659-4823 or [aaboodi@sjrwmd.com](mailto:aaboodi@sjrwmd.com).

Sincerely,

Alex Aboodi, Engineer III  
Division of Regulatory Services

cc: BRS/ PD, William Carlie Jr., David Dewey

## GOVERNING BOARD

Lad Daniels, CHAIRMAN JACKSONVILLE	John A. Miklos, VICE CHAIRMAN ORLANDO	Douglas C. Bournique, SECRETARY VERO BEACH	Maryam H. Ghyabi, TREASURER ORMOND BEACH
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			W. Leonard Wood FERNANDINA BEACH



**Nadic Engineering Services, Inc.**

**Geotechnical Engineering Report  
US 441 at Sadler Avenue  
Intersection Improvements  
Orange County, Florida  
NES Project No: R11002**

*Prepared for:*

**Johnson, Mimiran and Thompson, Inc.  
615 Crescent Executive Court, Suite 106  
Lake Mary, Florida 32746**

*Prepared by:*

**Nadic Engineering Services, Inc.  
601 N. Hart Blvd  
Orlando, Florida 32818  
407-521-4771**

Consultants in: Civil · Environmental · Geotechnical Engineering  
Offices in: Orlando · Miami





NADIC ENGINEERING SERVICES, INC.  
Civil, Environmental, and Geotechnical Consultants

**Johnson, Mimiran and Thompson, Inc.**  
615 Crescent Executive Court, Suite 106  
Lake Mary, FL 32746

July 31, 2012

Attention: Mr. Matthew Steen, P.E.

RE: Geotechnical Engineering Report  
US 441 at Sadler Avenue  
Intersection Improvements  
Orange County, Florida  
NES Project No. R11002

Dear Mr. Steen:

**Nadic Engineering Services, Inc. (NES)** is pleased to submit this Geotechnical Report in support of the proposed US 441 at Sadler Avenue Intersection Improvements in Orange County, Florida. The improvements will include the addition of a proposed 400 linear feet swale, as well as an approximate 900 linear feet of milling and resurfacing of the existing roadway. An aerial map showing the site location is presented on the attached **Figure 1** in **Appendix A**. The purpose of this geotechnical exploration was to explore the subsurface soil and groundwater conditions at the location of the proposed swale and evaluate the existing pavement conditions for the proposed milling and resurfacing.

This report presents the findings of our field explorations and presents geotechnical recommendations for the proposed improvements.

### **Review of Available Data**

Based on the United States Geological Survey (USGS) of "Apopka", Florida map issued in 1960, and photo revised in 1980, the ground surface elevation in the site vicinity is about +105 feet, North American Vertical Datum of 1988 (NAVD-88). An excerpt of the USGS topographic map is presented as **Figure 2** in **Appendix A**.

The "Soil Survey of Orange County, Florida" published by the United States Department of Agriculture (USDA), Natural Resources Conservation Service (NRCS) is presented as **Figure 3** in **Appendix A**. According to NRCS Soil Survey, the soil type at the project site is Candler- Urban land Complex (7). Candler- Urban land Complex is dark grayish brown to pale brown fine sand, and is nearly level to gently sloping and drains excessively. The NRCS estimated seasonal high groundwater table (SHGWT) for Candler- Urban land Complex is greater than six feet (>6.0 feet) below the natural ground surface.

Information from the NRCS Soil Survey is very general and may be outdated due to recent developments in the project site vicinity. Therefore, it may not reflect the actual soil and

groundwater conditions, particularly where development has modified the natural soil conditions or surface and near surface drainage.

### **Field Investigation**

The subsurface exploration consisted of a total of two (2) Auger Borings to a depth of 10 feet below the existing grade and two (2) field permeability tests performed within the proposed swale area. In addition, two (2) pavement cores were performed on the existing roadway. The locations were not established by survey but rather by taping the distance from the edge of existing pavement and landmarks. Although the locations were given only approximately, the methods used to locate them are, in NES's opinion, sufficient to meet the intent of this investigation. The locations were established in the field by the use of a hand-held Global Positioning Satellite (GPS) unit.

...all borings were backfilled for safety. The approximate locations of the borings and corings are shown ...

Upon completion and after groundwater measurements, all borings were backfilled for safety. The approximate locations of the borings and corings are shown on **Figure 1** in **Appendix A**. The results of the exploration program in the form of soil profiles are shown on **Sheet 2** in **Appendix B**.

### **Hand Auger Boring**

Hand auger borings were performed to a general depth of 10 feet below the existing grade by manually twisting and advancing a bucket auger into the ground in 4 to 6 inch increments. These borings were performed in general accordance with the American Society of Testing and Materials (ASTM) Test Designation D-1452. As each soil type was revealed, representative samples were placed in air-tight bags and returned to our laboratory for further visual examination and classification by a geotechnical engineer. For safety, these boreholes were backfilled upon completion and after groundwater level measurement.

### **Field Permeability Tests**

In situ falling head permeability tests were performed by NES personnel at selected locations in the proposed swale. The field permeability test was performed by placing a 3-inch diameter casing into an augered hole to the desired depth and washing the soils out of the casing with water. The casing was backfilled with silica quartz sand to about 12 inches above the bottom of the casing. The casing was then raised to an average distance of about 12 inches.

Falling head permeability was performed by adding water to the casing to achieve a stable water level. When the water level is stabilized, the water source was removed and the drop in water level in the casing with respect to time was recorded. This relationship was used to calculate the permeability of the soil. The results of the Falling head permeability tests are included on the boring profiles on **Sheet 2** in **Appendix B**.

## **Pavement Coring**

A total of two (2) pavement cores were performed by **NES** along Sadler Avenue. The pavement was cored with a four-inch diameter core barrel. The core was removed and measured for pavement thickness and base thickness. After performing the pavement corings, the core holes were backfilled with native materials and 6-inches of ready mix asphalt compacted to the top. Pavement conditions encountered within project limits were categorized according to the classification system outlined in the Florida Department of Transportation (FDOT) Flexible Pavement Condition Survey Handbook.

The data and information for individual core samples recorded in the field during coring are presented on the Pavement Evaluation and Condition Data Sheet in **Appendix B**.

## **Laboratory Testing**

Representative soil samples were retained from the strata observed in each boring and returned to **NES's** laboratory for visual classification and stratification. The boring samples were classified and stratified in general accordance with the American Association of State Highway and Transportation Officials (AASHTO) Soil Classification System and ASTM Soil description (e.g. Sand with silt). Representative soil samples were selected for laboratory tests, including Sieve Analysis and Natural Moisture Content. **Table 4** presents the Summary of Laboratory Test Results in **Appendix A**.

## **Subsurface Conditions**

The soils encountered were classified using the AASHTO Soil Classification System. Soil classification and stratification are based on visual examination, interpretation of the boring logs by a geotechnical engineer, and on laboratory test results of selected soil samples. Stratification lines represent the approximate boundaries between different soil types; however, actual transition between soils may be gradual. Included with the soil profiles are the estimated seasonal high groundwater elevations. The soil profiles represent the conditions encountered at the boring locations only and variations are likely to occur between the borings. The soil conditions encountered in the swale borings are presented on the Soil Survey and Report of Auger Borings, **Sheet 1** and **Sheet 2** in **Appendix B**, respectively.

## **Hand Auger Boring Results**

The Auger Borings (P-1 and P-2) performed in the proposed swale area encountered fine sand to fine sand with roots (Stratum 1) (A-3) to boring termination depth of 10 feet below existing grade. Groundwater was not encountered in the borings completed at the time of our field exploration (July 2012). It is our opinion that the estimated seasonal high groundwater level at this location is at least seven (7) feet below existing grade.

## **Field Permeability Test Results**

Two field permeability tests were performed in the swale area at depths ranging from 3 to 5 feet below existing grade to aid in design of the stormwater management system. The field horizontal permeability test results are 1.2 and 1.3 feet per day for P-1 and P-2, respectively.

## **Evaluations and Recommendations**

The evaluation and recommendations contained in this report are based in part on the data obtained from the soil samples and groundwater measurements obtained from widely spaced borings. The exploration methods used indicate subsurface conditions at specific boring locations, only at the time they were performed and to the depths penetrated. Borings cannot be relied upon to accurately reflect the variations that usually exist between boring locations and these variations may not become evident until construction. If during the course of construction, project characteristics described in this report change, **NES** should be contacted immediately to re-evaluate the conclusions and recommendations contained in this report in light of such changes.

Stratum 1 encountered in the borings is classified as Select (S) and can be used as embankment fill in accordance with Index 505. These soils are highly desirable for...

Stratum 1 encountered in the borings is classified as Select (S) and can be used as embankment fill in accordance with Index 505. These soils are highly desirable for use as fill because they drain freely. All soils excavated from the swale site should be utilized in accordance with Index 505 of FDOT Design Standards. If plastic and/or organic material is encountered within the project limits during construction these materials should be removed in accordance with Index Nos. 500 and 505.

## **Groundwater**

Groundwater was not encountered in the swale borings. Groundwater conditions will vary with environmental variations and seasonal conditions, such as the frequency and magnitude of rainfall patterns, as well as man-made influences, such as swales, drainage ponds, under drains, and areas of covered soil (roadways, sidewalks, etc.).

For the purposes of this report, estimated seasonal high groundwater levels are defined as groundwater levels that are anticipated at the end of the wet season of a “normal rainfall year” under current site conditions. “Normal rainfall year” is defined as a year in which rainfall quantity and distribution were at or near historical rainfall averages.

Based upon our observations at the site and in the borings performed by **NES**, a review of the Orange County Soil Survey, and rainfall data of the area, it is our opinion that the seasonal high groundwater level would be at least seven (7) feet, below the existing grade in the project area. The estimated seasonal high groundwater levels presented next to the boring profiles (**Sheet 2**) are based on the soil stratigraphy, measured groundwater levels, USDA/NRCS information, review of roadway plans, and past experience with similar soil conditions.

In general, the estimated seasonal high groundwater level is not intended to define a limit or ensure future seasonal fluctuations in groundwater levels will not exceed the estimated levels. Post development groundwater levels could exceed the seasonal high groundwater level estimates as a result of a series of rainfall events, changed conditions at the site which alter surface water drainage characteristics, or variations in the duration, intensity, or total volume of rainfall.

**Swales**

The swale is proposed to be constructed in the south portion of Sadler Avenue. Subsurface explorations consisting of two (2) auger borings were performed. These borings generally encountered fine sand to fine sand with roots (A-3) to boring termination depth of 10 feet. Groundwater was not encountered in either of the two (2) auger borings.

Minus 200 fine sieve test and field horizontal permeability (K<sub>h</sub>) results are presented on the table below:

Boring ID	Permeability Test Depth (ft)	Encountered GWT <sup>a</sup> (ft)	ESHGWT <sup>b</sup> (ft)	ESLGWT <sup>c</sup> (ft)	-200 Sieve (%)	Horizontal Permeability (ft/day)	Fillable Porosity (%)	Base of Aquifer (ft)
P-1	5.0	GNE <sup>d</sup>	7.0	10.0	2.0	1.2	25	10
P-2	5.0	GNE <sup>d</sup>	7.0	10.0	2.0	1.3	25	10

GWT<sup>a</sup> – Ground Water Table

ESHGWT<sup>b</sup> – Estimated Seasonal High Ground Water Table

ESLGWT<sup>c</sup> – Estimated Seasonal Low Ground Water Table

GNE<sup>d</sup> – Groundwater not encountered

It should be noted that the coefficient of permeability is not the infiltration rate. The actual infiltration rate is influenced by the coefficient of permeability as well as several other factors, including swale invert elevation, water level in the swale, elevation of the net seasonal water level and the confining layer.

**Pavement Evaluation**

The section of the roadway investigated was found to be in poor condition. The distresses apparent at C-1 and C-2 were severe Class II, Alligator and Slippage Cracks respectively. Full depth crack of about 2 inches was observed in Core C-1. Slippage cracking was observed within the area where Core C-2 was taken. The summary of the average thickness of core length and base course is presented below:

Core ID	Average Core Thickness (inch)	Base Course Thickness(inch)	Base Type
C-1	2.1	9.0	Soil Cement
C-2	7.4	8.5	Limerock

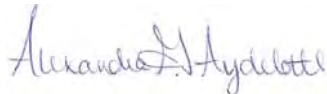
Photographs of the cores and the pavement conditions are presented in **Plates 1 and 2 in Appendix B**. Rut depth and cross slope information for individual core locations are provided on the Pavement Evaluation and Condition Data Sheet in **Appendix B**.

**Closure**

Our professional services have been performed; our findings and recommendations have been obtained and prepared in accordance with generally accepted geotechnical engineering principles and practices. **NES** is not responsible for the conclusions, opinions or recommendations made by others based on these data.

**NES** appreciates the opportunity to have provided our services on this project and trust the information presented is sufficient for your immediate needs. If you have any questions concerning the contents of this report, or if we may be of further service, please contact at us your convenience.

Sincerely,  
**NADIC ENGINEERING SERVICES, INC.**  
**Engineering Business No. 8214**



Alexandra Aydelotte, B.S.  
Staff Engineer



Godwin N. Nnadi, Ph.D., P.E.  
Principal Engineer  
FL Registration No. 50637

Z:\Roadways\Alexandra\JMT\R11-002\_US441and Sadler Ave\Report

**ATTACHMENTS**

**APPENDIX A**

Figure 1	Aerial Map
Figure 2	USGS Topographic Map
Figure 3	USDA/NRCS Soils Map
Table 4	Summary of Laboratory Test Results

**APPENDIX B**

Sheet 1	Soil Survey
Sheet 2	Report of Auger Borings
Plates 1 and 2	Pavement Evaluation
Pavement Evaluation and Condition Data Sheet	

# **APPENDIX A**

<b>Figure 1</b>	<b>Aerial Map</b>
<b>Figure 2</b>	<b>USGS Topographic Map</b>
<b>Figure 3</b>	<b>USDA/NRCS Map</b>
<b>Table 4</b>	<b>Summary of Laboratory Test Results</b>





REFERENCE: Bing Aerial Map

REFERENCE:	PROJECT LOCATION:	U.S.G.S. QUADRANGLE MAP:	ISSUED:	PHOTOREVISED:
United States Geological Survey (USGS)	S16-120SR27E	Apopka, FLA	1960	1980




**Civil**  
*Geotechnical*  
*Environmental*  
*Consulting Engineering*

DATE: 07-20-2012  
 DRAWN: AGA  
 CHECKED: GNN



ORANGE COUNTY PUBLIC WORKS

PROJECT NAME:	PROJECT No.	NES PROJECT No. R11002
Aerial MAP US 441 AT SADLER AVE INTERSECTION IMPROVEMENTS	PROJECT No. -	
COUNTY	PROJECT No.	FIGURE 1
ORANGE	-	

- LEGEND:**
-  P-1 Approximate Pond Boring Location
  -  C-1 Approximate Pavement Core Location



NOT TO SCALE

REFERENCE: United States Geological Survey (USGS)

QUADRANGLE: Apopka, FLA.  
 SECTION: 16  
 TOWNSHIP: 20 SOUTH  
 RANGE: 27 EAST  
 (Issued 1960, Photo Revised 1980)

REFERENCE:	PROJECT LOCATION:	U.S.G.S. QUADRANGLE MAP:	ISSUED:	PHOTO/REVISED:
United States Geological Survey (USGS)	S16-T20S-R27E	Apopka, FLA.	1960	1980


**Civil**  
**Geotechnical**  
*Environmental*  
*Consulting Engineering*

DATE: 07-20-2012  
 DRAWN: AGA  
 CHECKED: GNN



ORANGE COUNTY PUBLIC WORKS

PROJECT NAME:	PROJECT No.	NES PROJECT No.
USGS TOPOGRAPHIC MAP US 441 AT SADLER AVE INTERSECTION IMPROVEMENTS		R11002
COUNTY	PROJECT No.	FIGURE 2
ORANGE	-	





**TABLE 4**  
**SUMMARY OF LABORATORY TEST RESULTS**  
**US 441 AT SADLER AVENUE INTERSECTION IMPROVEMENTS**  
**ORANGE COUNTY, FLORIDA**  
**NES PROJECT NO. R11002**

Location	Boring No.	Latitude	Longitude	Sample Depth (feet)	Stratum	Moisture Content (%)	Organic Content (%)	Sieve Analysis (Percent Passing)					Atterberg Limits (%)		AASHTO Classif.
								#10	#40	#60	#100	#200	Liquid Limit	Plasticity Index	
Sadler Avenue	P-1	N28°50'51.0"	W82°02'44.4"	7	1	4	-	100	82	69	34	2	-	-	A-3
	P-2	N28°50'52.4"	W82°02'44.4"	10	1	3	-	100	86	73	37	2	-	-	A-3

# **APPENDIX B**

<b>Sheet 1</b>	<b>Soil Survey</b>
<b>Sheet 2</b>	<b>Report of SPT Borings</b>
<b>Plates 1 and 2</b>	<b>Pavement Evaluation</b>
<b>Pavement Evaluation and Condition Data Sheet</b>	

# NADIC ENGINEERING SERVICES, INC

## SOIL SURVEY

### REPORT OF TESTS

NES PROJECT No.: R11002  
 ROADWAY: US 441 at Sadler Avenue Intersection Improvements  
 SUBMITTED BY: NES

QUADRANGLE: APOPKA, FLORIDA  
 SECTION: 16  
 TOWNSHIP: 20 SOUTH  
 RANGE: 27 EAST  
 LATITUDE BEGINS: N28°50'51.0"  
 LATITUDE ENDS: N28°50'52.4"  
 LONGITUDE BEGINS: W82°02'44.4"  
 LONGITUDE ENDS: W82°02'44.4"  
 DATE REPORTED: AUGUST, 2012

STRATUM NO.	No. OF TESTS	% ORGANIC	No. OF TESTS	% MOISTURE CONTENT	No. OF TESTS	SIEVE ANALYSIS RESULTS					No. OF TESTS	LIQUID LIMIT	PLASTICITY INDEX	AASHTO GROUP	DESCRIPTION	No. OF TESTS	pH	RESISTIVITY OHM-CM	CHLORIDES PPM	SULFATE PPM	CONCRETE	STEEL
						% PASS	% PASS	% PASS	% PASS	% PASS												
1	--	--	2	3-4	2	100	82-86	69-73	34-37	2	--	--	A-3	LIGHT BROWN TO BROWN FINE SAND TO FINE SAND WITH ROOTS	--	--	--	--	--	--	--	--

NOTES:

(1) STRATA BOUNDARIES ARE APPROXIMATE AND REPRESENT SOIL STRATA AT EACH TEST HOLE LOCATION ONLY. ANY STRATUM CONNECTING LINES SHOWN ARE FOR ESTIMATING EARTHWORK ONLY AND DO NOT INDICATE ACTUAL STRATUM LIMITS. SUBSURFACE VARIATIONS BETWEEN BORINGS SHOULD BE ANTICIPATED AS INDICATED IN FDOT SECTION 2-4. FOR FURTHER DETAILS SEE FDOT STANDARD SPECIFICATIONS SECTION 120-3.

(2) SOIL PARAMETER NOT TESTED DENOTED AS "--" ABOVE.

(3) GNE INDICATES GROUNDWATER LEVEL NOT ENCOUNTERED AT THE TIME OF SURVEY.  
 ☒ INDICATES ESTIMATED SEASONAL HIGH WATER LEVEL.

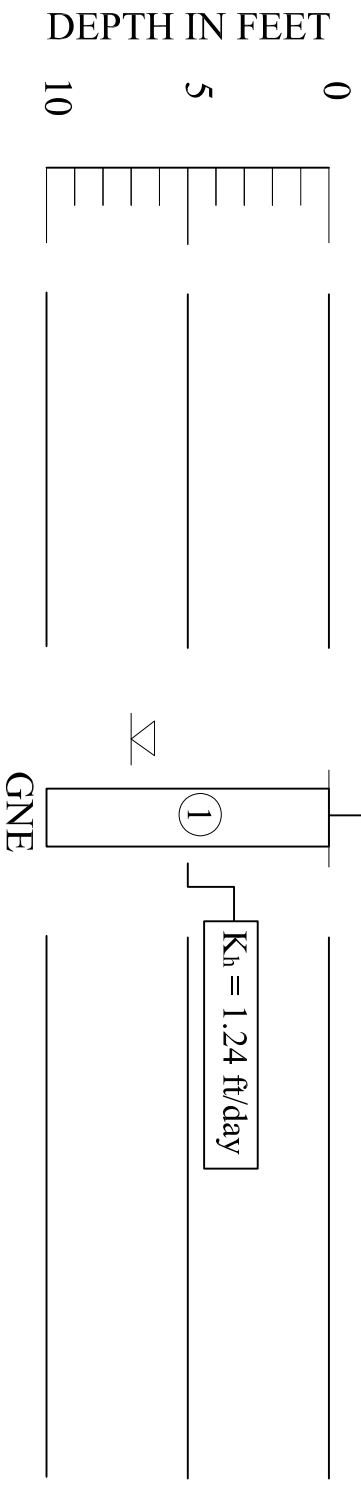
(4) REMOVAL OF PLASTIC MATERIAL OCCURRING WITHIN THE ROADWAY SHALL BE ACCOMPLISHED IN ACCORDANCE WITH INDEX No. 500 UNLESS OTHERWISE STATED IN THE PLANS. THE MATERIAL UTILIZED IN EMBANKMENT CONSTRUCTION SHALL BE IN ACCORDANCE WITH FDOT STANDARD INDEX No. 505.

(5) STRATUM 1 SHALL BE TREATED AS SELECT (S) MATERIALS PER FDOT INDEX No. 505.

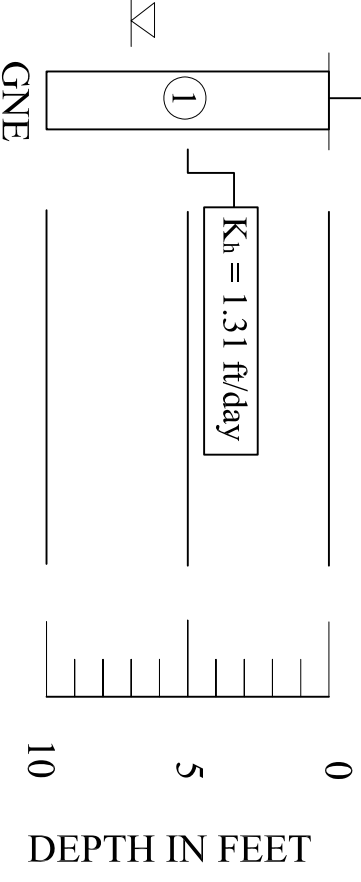
QC/QA REVIEW	ORIGINATOR	AGA	Date:	08/08/12	CHECKED Corrected (Yellow) Change (Red)	GNN	Date: 08/08/12	VERIFICATION CHECKER	Green Check or Circle & Remark Incorrect	GNN	Date: 08/08/12
					CONCURRENCE, ORIGINATOR (Red Check)	AGA	Date: 08/08/12	REMARK INCORPORATION (Blue Highlighter)	AGA		Date: 08/08/12
					CHANGE INCORPORATION (Blue Highlighter)	GNN	Date: 08/08/12	CHECKED Corrected (Green) Change (Red)	GNN		Date: 08/08/12

<b>ORANGE COUNTY</b>					
 <b>NES</b> <i>Consulting Engineering</i>	<b>Civil</b> <b>Geotechnical</b> <b>Environmental</b>	ENGINEER OF RECORD: GODWIN N. NNADI, P.E. #50637 NES 601 N. Hart Boulevard ORLANDO, FL ORLDA 32818	SEAL:		ORANGE COUNTY PUBLIC WORKS ROAD NAME: SADLER AVENUE COUNTY: ORANGE
		SHEET TITLE: <b>SOIL SURVEY</b>	PROJECT NAME: US 441 at Sadler Avenue Intersection Improvements		Project No. <b>R11002</b> Sheet No.

Boring No.: **P-1**  
 Latitude: N28°50'51.0"  
 Longitude: W82°02'44.4"  
 Date Drilled: 7-25-12



Boring No.: **P-2**  
 Latitude: N28°50'52.4"  
 Longitude: W82°02'44.4"  
 Date Drilled: 7-25-12



**LEGEND**

- ① Light brown to brown fine sand to fine sand with roots, (A-3)
- (A-3) A.A.S.H.T.O.: Soil classification group symbol as determined by visual examination
- $K_h$  Average Permeability
- $\nabla$  Estimated seasonal high groundwater level
- GNE Groundwater not encountered

REVISIONS		NAMES		DATES	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
			AGM	7-25-12	
			SNM	N/A	
			N/A	N/A	
			N/A	N/A	

DESIGNED BY:	AGM	7-25-12	GODWIN N. NAKADI, PH.D., P.E.
CHECKED BY:	SNM	N/A	F.L. RICE, CONSULTING SERVICES, INC.
APPROVED BY:	N/A	N/A	601 N. HART BOULEVARD ORLANDO, FL 32818 PH: (407) 521-4771 FAX: (407) 521-4772 CERTIFICATE OF AUTHORIZATION NO. 2314

ORANGE COUNTY PUBLIC WORKS		SHEET TITLE:	
COUNTY:	ORANGE	PROJECT NO.:	REPORT OF AUGER BORINGS
PROJECT NO.:	--	PROJECT NAME:	US 441 AT SADLER AVE INTERSECTION IMPROVEMENTS



# US 441 AT SADLER AVE PAVEMENT EVALUATION



Core No.: C-1  
Approx. Station: 42+00  
Location: L1  
Thickness: 2.1 inches

Alligator Cracking- Localized area of interconnected cracks.

# US 441 AT SADLER AVE PAVEMENT EVALUATION



Core No.: C-2  
Approx. Station: 44+80  
Location: R1  
Thickness: 7.4 inches

Slippage cracking- Due to prior bonding between the subsurface layer and the underlying pavement layer.

State of Florida Department of Transportation PAVEMENT EVALUATION AND CONDITION DATA SHEET																			
Project No.: R11002					Cored By: NES					Date: 07/31/2012					Page No.: 1 of 1				
County: Orange					Highway Sect. Sadler Ave					From: Mohawk Dr.					To: US 441				
Road No.: Florida US 441					Begin Station:					End Station:					Length: 0.1 Miles				
Core No.:	Approx. Station	Dist. From Left Edge of Lane (in)	Lane	Wheel Path	Pavement Layer (in)				Core Length (in)	Base		Crack				Pavt. Cond	Rut Depth (in)	Cross Slope (%)	Comments
					FC-5	Type SI	SII	SIII		Type	Thickness (in)	Depth (in)	Type	Class	Extent				
C-1	42+00	110	L1	-	2.1	-	-	-	2.1	SC	9	FD	A	II	S	P	0.4	0.35	Alligator cracking
C-2	44+80	87	R1	x	1.9	5.5	-	-	7.4	LR	8.5	0.9	S	II	S	P	0.5	2.78	Slippage cracking
Remarks: L1= Westbound Inside Lane L2= Westbound Outside Lane R1=Eastbound Inside Lane R2=Eastbound Outside Lane A=Alligator S= Slippage Cracking FD=Full Depth Crack L=Light Cracking M=Moderate Cracking S=Severe Cracking G=Good F=Fair P=Poor LR=Limerock SC=Soil Cement																			





**PRELIMINARY**  
**Threatened and Endangered Species Assessment Report**

**U.S. 441 AT SADLER ROAD -  
INTERSECTION IMPROVEMENTS**

*in* Section 16, Township 20 South, Range 27 East  
Orange County, Florida

*Prepared for:*

**Orange County Public Works Department  
4200 South John Young Parkway  
Orlando, Florida 32839-9205**

*Submitted to:*

**Johnson, Mirmiran & Thompson, Inc.  
615 Crescent Executive Court, Suite 106  
Lake Mary, Florida 32746**

20 December 2011  
L&A No. 2011-019.41  
Doc: \2011-019-TEAR-20L11.wpd



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## TABLES

Table 1.	Classification of Project Area Soils
Table 2.	State and Federal Listed Plant Species Documented in Orange County and the Potential for Occurrence on the U.S. 441 at Sadler Road - Intersection Improvements Project
Table 3.	State and Federal Listed Animal Species Documented in Orange County and the Potential for Occurrence on the U.S. 441 at Sadler Road - Intersection Improvements Project

## FIGURES

Figure 1	Vicinity Map
Figure 2	Topographic Map
Figure 3	Soils Map
Figure 4	Existing Land Cover Map

## APPENDICES

Appendix A	Information Sources
Appendix B	Wildlife Agency Correspondence



## **Threatened and Endangered Species Assessment Report**

### **U.S. 441 AT SADLER ROAD - INTERSECTION IMPROVEMENTS**

*in Section 16, Township 20 South, Range 27 East  
Orange County, Florida*

Doc: \2011-019-TEAR-20L11.wpd

20 December 2011

#### **INTRODUCTION**

Pursuant to the request of Orange County Public Works, and as a part of the design and permitting of roadway improvements, an assessment for threatened and endangered species was conducted by Lotspeich and Associates, Inc. (L&A) for the area surrounding the intersection of U.S. 441 and Sadler Road in western Orange County, Florida (Figure 1).

The project area was investigated during a site inspection, as well as through a review of published data containing information about the area's topography, soils, vegetation, and wildlife. The purpose of our research was to document the project area's potential to support listed plants and animals, and the potential development constraints posed by their presence. No subsurface soil, water quality, archaeological, or hazardous materials investigations were conducted by L&A. This report documents the findings of this investigation and the potential ecological permitting requirements and management obligations relative to any listed species documented to occur within or adjacent to the project area. These findings reflect conditions at the time of the investigation and do not preclude the possibility that on-site conditions may change. The opinions expressed are those of the writer and should not be viewed as binding upon any governmental agency.

#### **METHODOLOGY**

The project area was investigated through review of published information (Appendix A). Further, L&A staff conducted a review of the state's database of species occurrence records and the bald eagle nest location database (Appendix B). Finally, a field review was conducted by ecologists familiar with the natural communities of Florida to determine the vegetative communities present within and adjacent to the roadway project area and determine the presence of, or potential for utilization by, listed plant or animal species. The field investigation also allowed the ecologist to confirm or amend the information collected from database searches and the review of published information. The field investigation was conducted by representatives of L&A on 6 December 2011. Vegetative community types and general observations were recorded via field data sheets and photographs taken of the project area. A list of plant species encountered was recorded for the project area. This list reflects representative species observed within the project area and is not necessarily a complete floristic inventory. The project area was reviewed for the presence of any listed animals through actual observation, signs of scat, prints, or other indications of their presence or utilization of the project area.



Statements regarding listed species are based on limited field observations and existing data records, and do not exclude the possibility that listed species may occasionally forage on-site or may move into the project area at a later date.

## **EXISTING SITE CONDITIONS**

### **Location**

The U.S. 441 at Sadler Road - Intersection Improvements project area extends approximately 1,300 feet west along Sadler Road from the center of the intersection, which is located in Section 16, Township 20 South, Range 27 East in western Orange County, Florida (Figure 1). The project area is bordered by low-density residential development, commercial properties, and undeveloped lands supporting primarily naturally vegetated plant communities.

### **Topography and Drainage**

The United States Geological Survey (USGS) topographic map (Apopka, FL Quadrangle) indicates the project area varies from a high elevation of approximately 115 feet National Geodetic Vertical Datum (NGVD) at the eastern extent of the project area to a low elevation of 105± feet NGVD on the western end of the project area (Figure 2). On-site drainage appears to occur entirely through soil percolation. This project area lies in the Southern Ocklawaha River Drainage Basin of the St. Johns River Water Management District (District).

### **Soils**

Soil mapping often provides an indication of the historic and/or current conditions of a site, the potential for presence of sensitive plant communities (e.g., wetlands, scrub, etc.), and/or the potential for presence of listed plants and animal species that are typically limited to specific plant communities. The U.S. Department of Agriculture, National Resource Conservation Service (NRCS) maps the project area as traversing three (3) mapped soil units (Table 1) (Figure 3). The majority of the project area is subtended by Candler-Urban land complex, 0 to 5 percent slopes. Smaller areas of Candler fine sand, 0 to 5 percent slopes and Candler-Urban land complex, 5 to 12 percent slopes are mapped as underlying the eastern and western extents of the project, respectively. All of these soils are characteristic of uplands.





**Table 1. Classification of Project Area Soils**

Soil Map Unit	Drainage Class <sup>1</sup>	Hydric or Significant Hydric Inclusions <sup>2</sup>
Candler fine sand, 0 to 5 percent slopes (4)	Excessively Drained	No
Candler-Urban land complex, 0 to 5 percent slopes (7)	Excessively Drained/N.A. <sup>3</sup>	No
Candler-Urban land complex, 5 to 12 percent slopes (8)	Excessively Drained/N.A. <sup>3</sup>	No

Notes:

1. Soil Survey of Orange County, NRCS
2. Hydric Soils of Florida Handbook (1990), Florida Association of Environmental Soil Scientists
3. Urban land is potentially composed of many different soil types with different rates of compaction, and is therefore not assigned a drainage class.

### Land Use and Vegetation

The land use and vegetative communities were identified using aerial photography and classified using the Florida Land Use, Cover and Forms Classification System (FLUCCS), 1999 (Figure 4). The project area is bordered by Residential, Medium Density (FLUCCS 121), Commercial and Services (FLUCCS 140), and Nurseries (FLUCCS 240). The project area also contains scattered remnant areas of upland vegetation, including Live Oak (FLUCCS 427).

Single family Residential Development is found along the north side of Sadler Road. Vegetation includes remnant trees consisting of slash pine (*Pinus elliottii*), longleaf pine (*P. palustris*), live oak (*Quercus virginiana*) and laurel oak (*Q. laurifolia*), ornamental plantings, and turfgrass (primarily bahiagrass (*Paspalum notatum*), Bermudagrass (*Cynodon dactylon*), and St. Augustinegrass (*Stenotaphrum secundatum*)) lawns.

A Nursery facility is located on the south side of Sadler Road toward the western end of the project. The area is characterized by greenhouses, storage buildings, and a turfgrass area bordering the road.

The historic plant assemblage within the project area appears to have been a Live Oak community, and there are still remnants. Dominant canopy trees include live oak and laurel oak. Several species of exotic trees have colonized the area, including chinaberry (*Melia azedarach*) and camphor (*Cinnamomum camphora*). The understory and shrub layer includes lantana (*Lantana camara*), Carolina laurel cherry (*Prunus caroliniana*), cabbage palm (*Sabal palmetto*), and paper mulberry (*Broussonetia papyrifera*). The ground cover is composed of scattered wildflowers and grasses including Spanish needles (*Bidens alba*) and broomsedge (*Andropogon virginicus*), as well as vines such as muscadine grape (*Vitis rotundifolia*), greenbrier (*Smilax* spp.), and Virginia creeper (*Parthenocissus quinquefolia*).

### THREATENED AND ENDANGERED SPECIES

The U.S. Fish and Wildlife Service (Service) and the Florida Fish and Wildlife Conservation Commission (FWC) list wildlife species that are considered “endangered” or “threatened.” The FWC uses an additional category - “species of special concern” (SSC) - for several animals that may ultimately



be listed as endangered or threatened. This classification provides the SSC-listed animal with a level of protection that varies from species to species. The Service and the Florida Department of Agriculture and Consumer Services (FDACS) also compile lists of protected plant species. The Service classifies protected plants as either endangered or threatened, while the FDACS's plant list is categorized into endangered, threatened, and "commercially exploited" species.

Prior to the field inspection, various web sites were accessed in order to collect information concerning the possible presence of state and/or federally listed threatened or endangered species within the project area. These web sites included:

- The Service's web site was reviewed for federally listed species found within Orange County, Florida;
- The FWC's web site for protected species was accessed to identify state listed species known to occur within Orange County;
- The FWC's web site was reviewed for bald eagle (*Haliaeetus leucocephalus*) nest locations; and,
- The Florida Natural Areas Inventory (FNAI) database and Biodiversity Matrix was reviewed for known occurrences of listed species or critical habitat.

In addition, GIS data layers obtained from the FWC and the FNAI that provide species occurrence records were used in our determination of whether protected species may occur within the vicinity of the project area. Our field inspection consisted of a series of meandering pedestrian transects across the project area to evaluate existing land use and ascertain the likelihood that it supports protected species through the observation of individuals, tracks, burrows, scat, or other indications of listed plants and/or animals.

Based on in-house data searches, numerous protected animal and plants are known to occur in Orange County. From review of the habitat requirements of these plants and animals as well as the subsequent field inspections, it was determined that there is concern for the potential presence of the bald eagle (*Haliaeetus leucocephalus*), gopher tortoise (*Gopherus polyphemus*), Eastern indigo snake (*Drymarchon corais couperi*), Florida mouse (*Peromyscus floridanus*), Florida pine snake (*Pituophis melanoleucus mugitus*), sand skink (*Neoseps reynoldsi*), and a variety of listed plants that are known to occur in the habitat types that occur on-site. These findings do not preclude the fact that these or other protected animals may move into the area or forage in the area at a later date, or that protected plants may be discovered on-site when blooming structures are apparent. Habitat requirements and the probability of occurrence for these species are provided below.

L&A conducted a bald eagle nest search following the procedures of the FWC's *Eagle Nest Locator Database* (2011). The bald eagle has been recently removed from the FWC's list of threatened & endangered species and is no longer listed under the federal Endangered Species Act. However, it should be noted that protection of the bald eagle will continue under the federal Bald and Golden Eagle Protection Act, the Migratory Bird Treaty Act, and by the revised management plans issued by the FWC and the Service. The FWC database search revealed that the project area does not occur within the designated protection zone of any eagle nests. The database indicates that the nearest nest (designated OR032) is located approximately 2.1 miles northwest of the project intersection. No coordination with



the FWC is necessary unless eagles construct a new nest within the vicinity of the project area in the future.

The gopher tortoise is listed as threatened by the FWC. The gopher tortoise requires well-drained and loose sandy soils for burrowing, and low-growing herbs and grasses for food. These habitat conditions are best provided in the sandhill (longleaf pine-xeric oak) community, although tortoises are known to use many other habitats, including sand pine scrub, xeric oak hammocks, dry prairies, pine flatwoods, and ruderal sites. No gopher tortoises, burrows, or signs of tortoises were observed during the field review. No further coordination with the FWC is required for this species unless gopher tortoises or their burrows are observed on the property at a later date.

The Eastern indigo snake is listed as a threatened species by both the Service and the FWC. The indigo snake typically occupies an extremely large territory and ranges through a variety of habitats, and it often seeks shelter in the burrows of gopher tortoises. These snakes are rare, highly reclusive, and rarely located during general surveys. The FWC recognizes the limitations of current survey methodologies to locate this species and generally manages for this species under the regulatory umbrella of the gopher tortoise. Thus, no coordination with the Service or the FWC will likely be required if gopher tortoises are not documented to occur. If Eastern indigo snakes are observed within or adjacent to the project area, a management plan can be prepared consisting of educational pamphlets for workers instructing them not to kill the snakes, and to allow them to pass through the work area unmolested.

Gopher tortoise burrows also harbor and protect a number of commensal species, including a number of state listed SSC such as the Florida mouse, Florida pine snake, and the gopher frog. None of these species were observed during the field investigation. The FWC recognizes the limitations of current survey methodologies to locate these species and generally manages for these species under the regulatory umbrella of the gopher tortoise.

The sand skink exists in areas dominated by xeric vegetation such as oak dominated scrub, turkey oak barrens, high pine, and xeric hammocks. Skinks typically occur in open sandy patches within these habitat types. The species usually remains underground and burrows 5 to 10 centimeters (2 to 4 inches) beneath the soil to find its food. The sand skink is listed as a threatened species by both the Service and the FWC. This area of Orange County contains habitat considered to be suitable for this species. No sand skinks or signs of sand skink occupancy were noted during L&A's field investigations on 6 December 2011.

Based on this information and site conditions, there is the potential for the sand skink to occur on-site. However, only a few small areas of the appropriate habitat occur, and these are located outside of the existing right-of-way on the south side of Sadler Road. The majority of the project area is heavily vegetated or developed and does not contain the open sandy patches typically associated with sand skink habitat. As noted above, no specimens or indication of its presence (sinusoidal tracts) were observed during L&A's field investigations on 6 December 2011.

The majority of the listed plants documented to occur in Orange County are either associated with wetlands or scrub habitat and, while no scrub occurs within or adjacent to project area, several wetland areas border the roadway. The fact that the existing roadway project area has been disturbed and is



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surrounded by predominantly altered lands reduces the likelihood of the occurrence of listed plants. No plants listed as threatened or endangered were observed within or adjacent to the project area during the field review. It should be noted that the incidental destruction of state-listed rare or commercially exploited plants, as may be caused by clearing associated with construction or agriculture, are neither regulated nor prohibited by the FDACS. Thus, no further coordination with the FDACS nor the Service is required as it relates to listed plants. These conclusions are based on field observations and existing data records.

### **SUMMARY**

In anticipation of the commencement of permitting and construction activities associated with roadway and intersection improvements, this listed species assessment was conducted to document the potential usage of the project area by threatened and/or endangered species and the potential constraints and management obligations posed by their presence. The field investigation did not identify the presence of any listed plant or animal species. Annual updates of the information contained within this report would be advisable to ensure that any potential study area changes are recognized and any regulatory revisions are acknowledged.



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**Table 2. State and Federal Listed Plant Species Documented in Orange County and the Potential for Occurrence within the U.S. 441 at Sadler Road - Intersection Improvements Project Area.**

Source: Lotspeich and Associates, Inc.

SCIENTIFIC NAME COMMON NAME	DESIGNATED STATUS		HABITAT	LIKELIHOOD OF OCCURRENCE	OBSERVED
	FDACS	FWS			
<i>Asclepias curtissii</i> Curtis' milkweed	E	-	Sand pine scrub, dry hammocks, flatwoods; May-Sep	Low - Limited habitat present	—
<i>Asplenium verecundum</i> Delicate spleenwort	E	-	Limestone in grottoes, on cliffs and boulders in shaded woods	None - No suitable habitat	—
<i>Bonamia grandiflora</i> Florida bonamia	E	T	Scrub; Apr-Sep	None - No suitable habitat	—
<i>Calopogon multiflorus</i> Many-flowered grass-pink	E	-	Damp pinelands and meadows (fire maintained); Mar-Jun	None - No suitable habitat	—
<i>Carex chapmanii</i> Chapman's sedge	E	-	Hammocks, woodlands; Spring	Low - Limited habitat present	—
<i>Centrosema arenicola</i> Sand butterfly pea	E	-	Open, mixed woodlands, pine or oak-palmetto thickets; Summer-Fall	Low - Limited habitat present	—
<i>Clitoria fragrans</i> Butterfly-pea	E	-	Turkey oak, sandy soil, scrub, scrubby flatwoods, roadside; Apr-Jul	Low - Limited habitat present	—
<i>Coelorachis tuberculosa</i> Florida jointtail	T	-	Marshes, margins of ponds; Jun-Jul	None - No suitable habitat	—
<i>Deeringothamnus pulchellus</i> Beautiful pawpaw	E	E	Grassy flatwoods, road edges; Mar-May	Low - Limited habitat present	—
<i>Eriogonum longifolium</i> var. <i>gnaphalifolium</i> Scrub buckwheat	E	T	Scrub, sandhill, longleaf pine; all year	None - No suitable habitat	—
<i>Garberia heterophylla</i> Garberia	T	-	Dry sand pine or pine oak scrub and prairies; Summer/Fall	None - No suitable habitat	—
<i>Glandularia tampensis</i> Tampa vervain	E	-	Flatwoods, hammocks, sandy soils, disturbed sites; Jan-Jun	None - No suitable habitat	—
<i>Harrisella porrecta</i> Threadroot orchid	T	-	Old orange groves, strand swamps, hammocks, hardwood swamps; Aug-Sep	None - No suitable habitat	—
<i>Illicium parviflorum</i> Star anise	E	-	Bottomland forest and wet hammocks; Apr-Jun	None - No suitable habitat	—
<i>Lechea cernua</i> Scrub pinweed	T	-	Sandy openings in scrub, fire maintained; Jul-Jan	None - No suitable habitat	—
<i>Lilium catesbaei</i> Catesby's lily	T	-	Wet flatwoods, bogs, usually with grasses; Jul-Oct	None - No suitable habitat	—



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**Table 2** - continued

SCIENTIFIC NAME COMMON NAME	DESIGNATED STATUS		HABITAT	LIKELIHOOD OF OCCURRENCE	OBSERVED
	FDACS	FWS			
<i>Lobelia cardinalis</i> Cardinal flower	T	-	Riverbanks, springs, coastal hammocks; Jul-Oct	None - No suitable habitat	—
<i>Lupinus aridorum</i> Scrub lupine	E	E	Sand pine scrub, yellow sand; Mar-Apr	None - No suitable habitat	—
<i>Lycopodiella cernua</i> Nodding club-moss	C	-	Wet depressions, ditches, moist areas	None - No suitable habitat	—
<i>Lythrum flagellare</i> Lowland loosestrife	E	-	Low open ground, swamps, thickets; Spring	None - No suitable habitat	—
<i>Matelea floridana</i> Florida spiny pod	E	-	Bluffs, pine-oak-hickory woods; Apr-Aug	None - No suitable habitat	—
<i>Matelea pubiflora</i> Sandhill spiny pod	E	-	Sandhills and scrubs; Spring-Summer	None - No suitable habitat	—
<i>Monotropa hypopithys</i> Pine-sap	E	-	Upland woods; Oct-Nov	None - No suitable habitat	—
<i>Nemastylis floridana</i> Fall-flowering ixia	E	-	Clearings in swamps, marshes, and wet pine flatwoods; Jul-Nov	None - No suitable habitat	—
<i>Nolina atopocarpa</i> Florida beargrass	T	-	Grassy areas of flatwoods, bordering savannas, shell middens; May-Aug	None - No suitable habitat	—
<i>Nolina brittoniana</i> Britton's beargrass	E	E	Dry pinelands and sand pine scrub; Mar-May	None - No suitable habitat	—
<i>Ophioglossum palmatum</i> Hand fern	E	-	Bases of cabbage palm leaves in moist hammocks, strand swamps; Mar-Jun	None - No suitable habitat	—
<i>Osmunda cinnamomea</i> Cinnamon Fern	C	-	Swamps and wetlands; Spring	None - No suitable habitat	—
<i>Osmunda regalis</i> Royal fern	C	-	Swamps and wetlands; all year	None - No suitable habitat	—
<i>Panicum abscessum</i> Cut throat grass	E	-	Wet pinelands, seepage areas; Spring-Fall	None - No suitable habitat	—
<i>Paronychia chartacea</i> Papery whitlow-wort	E	T	Scrub vegetation, shores of karst lakes; Jun-Dec	None - No suitable habitat	—
<i>Pecluma plumula</i> Plume polypody	E	-	Hammocks; all year	None - No suitable habitat	—
<i>Pecluma ptilodon</i> Swamp plume polypody	E	-	Hammocks and swamps; all year	None - No suitable habitat	—
<i>Pinguicula caerulea</i> Blue flowered butterwort	T	-	Sandy to sandy-peaty soils of pine flatwoods, ditches and roadsides; Dec-May	Low - Limited habitat present	—
<i>Pinguicula lutea</i> Yellow flowered butterwort	T	-	Sandy to sandy-peaty soils of pine flatwoods, ditches and roadsides, and seepage bogs; Feb-May	Low - Limited habitat present	—



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**Table 2** - continued

SCIENTIFIC NAME COMMON NAME	DESIGNATED STATUS		HABITAT	LIKELIHOOD OF OCCURRENCE	OBSERVED
	FDACS	FWS			
<i>Platanthera blephariglottis</i> White-fringed orchid	T	-	Marshes, meadows, bogs, depressions in pine savannas; Aug-Sep	None - No suitable habitat	—
<i>Platanthera ciliaris</i> Yellow-fringed orchid	T	-	Marshes, swamps, bogs, pine savannas and flatwoods, floodplain forests, forest slopes; Aug-Sep	None - No suitable habitat	—
<i>Platanthera cristata</i> Crested-fringed orchid	T	-	Bogs, meadows, bogs, pine savannas and flatwoods, wet prairies, edge of swamp, seepage slopes; Jun-Sep	None - No suitable habitat	—
<i>Platanthera integra</i> Orange rein orchid	E	-	Swampy meadows, boggy depressions in wet woods; Jul-Sep	None - No suitable habitat	—
<i>Platanthera nivea</i> Snowy orchid	T	-	Bogs, wet pine savannas and flatwoods, wet prairies; May-Jun	None - No suitable habitat	—
<i>Pogonia ophioglossoides</i> Rose pogonia	T	-	Sphagnum bogs, meadows, swamps, pine savannas, pine flatwoods, prairies; Mar-May	None - No suitable habitat	—
<i>Polygala lewtonii</i> Scrub milkwort	E	E	White sand, scrub; Feb-May	None - No suitable habitat	—
<i>Polygonella myriophylla</i> Small's jointweed	E	E	Scrub; Apr-Nov	None - No suitable habitat	—
<i>Prunus geniculata</i> Scrub plum	E	E	Sand pine scrub; Feb-Mar	None - No suitable habitat	—
<i>Pteroglossaspis ecristata</i> Non-crested eulophia	T	-	Sand pine scrub, sandhills, pine rockland; Jul-Sep	None - No suitable habitat	—
<i>Rhapidophyllum hystrix</i> Needle palm	C	-	River bluffs, ravine slopes, bottomlands	None - No suitable habitat	—
<i>Salix floridana</i> Florida willow	E	-	Wet hammocks, dense bottomland forests, stream margins, swamps; Feb-Apr	None - No suitable habitat	—
<i>Sarracenia minor</i> Hooded pitcher-plant	T	-	Flatwoods, bogs, ditches; Mar-May & Sep	None - No suitable habitat	—
<i>Sideroxylon lycioides</i> Buck-thorn	E	-	Hammocks, floodplains; Apr	None - No suitable habitat	—
<i>Spiranthes brevilabris</i> Ladies' tresses	E	-	Varied habitat, pinelands, wet flatwoods, roadsides; Feb-May	Low - Limited habitat present	—
<i>Spiranthes longilabris</i> Long-lip ladies' tresses	T	-	Prairies, flatwoods, marshes, sandy bogs; Nov-Dec	None - No suitable habitat	—
<i>Spiranthes tuberosa</i> Little pearl-twist	T	-	Dry acid soil, open pine-palmetto woods, pine flatwoods; Jun	None - No suitable habitat	—





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**Table 2** - continued

SCIENTIFIC NAME COMMON NAME	DESIGNATED STATUS		HABITAT	LIKELIHOOD OF OCCURRENCE	OBSERVED
	FDACS	FWS			
<i>Stenorrhynchos lanceolatus</i> Little pearl-twist	T	-	Open pastures, roadside, wet pine flatwoods, sandhills; Apr-Jul	Low - Limited habitat present	—
<i>Stylisma abdita</i> Hidden stylisma	E	-	Pinelands, scrub; Spring-Summer	None - No suitable habitat	—
<i>Tillandsia fasciculata</i> Common Giant wild-pine	E	-	Hammocks, cypress swamps, pinelands	None - No suitable habitat	—
<i>Tillandsia utriculata</i> Giant wild-pine	E	-	Hammocks, cypress swamps, pinelands	None - No suitable habitat	—
<i>Triphora trianthophora</i> Three-birds orchid	T	-	Hammocks, rich woods; Jul-Nov	None - No suitable habitat	—
<i>Warea amplexifolia</i> Clasping warea	E	E	Dry pinelands and sandhill; Aug-Oct	Low - Limited habitat present	—
<i>Zamia pumila</i> Coontie	C	-	Scrub, oak hammock, well-drained sandy or loamy soils; Fall-Winter	Low - Limited habitat present	—
<i>Zephranthes simpsonii</i> Simpson's zephyr-lily	T	-	Wet pinelands and pastures, roadsides; Spring	Low - Limited habitat present	—

**LEGEND:**

- E = Endangered
- T = Threatened
- C = Commercially exploited
- FDACS = Florida Department of Agriculture and Consumer Services (1998)
- FWS = U.S. Fish and Wildlife Service



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**Table 3. State and Federal Listed Animal Species Documented in Orange County and the Potential for Occurrence within the U.S. 441 at Sadler Road - Intersection Improvements Project Area.**

Source: Lotspeich and Associates, Inc.

SCIENTIFIC NAME COMMON NAME	DESIGNATED STATUS		HABITAT	LIKELIHOOD OF OCCURRENCE	OBSERVED
	FWC	FWS			
<b>BIRDS</b>					
<i>Ajaia ajaja</i> Roseate spoonbill	SSC	-	Salt marshes, mangroves, wet prairies, marshes, and agricultural environments	None - No suitable habitat	—
<i>Aphelocoma coerulescens</i> Florida scrub jay	T	T	Oak scrub with open ground	None - No suitable habitat	—
<i>Aramus guarauna</i> Limpkin	SSC	-	Slow-moving freshwater rivers, marshes, and lakeshores	None - No suitable habitat	—
<i>Athene cucularia floridana</i> Florida burrowing owl	SSC	-	Open grassland, prairies, farm land, pastures, and airfields; can be found in urban settings	Low - Limited suitable habitat	—
<i>Egretta caerulea</i> Little blue heron	SSC	-	Marshes, lakeshores, ponds, ditches, and pastures	None - No suitable habitat	—
<i>Egretta thula</i> Snowy egret	SSC	-	Marshes, lakeshores, ponds, ditches, and pastures	None - No suitable habitat	—
<i>Egretta tricolor</i> Tricolored heron	SSC	-	Marshes, lakeshores, ponds, ditches, and pastures	None - No suitable habitat	—
<i>Eudocimus albus</i> White ibis	SSC	-	Shallow freshwater and estuarine wetlands	None - No suitable habitat	—
<i>Falco sparverius paulus</i> Southeastern American kestrel	T	-	Forest ecotone, urban areas, farm lands, and clearings	Low - Limited suitable habitat	—
<i>Grus canadensis pratensis</i> Florida sandhill crane	T	-	Wet prairies, littoral zones, and wet pastures; nests in pickerelweed-maidencane marshes	None - No suitable habitat	—
<i>Haliaeetus leucocephalus</i> Bald eagle	T	-	Coastal areas, large lakes, and river shorelines; nests near water bodies	Moderate - Suitable habitat present	—
<i>Mycteria americana</i> Wood stork	E	E	Marshes, ponds, and lagoons; nests in cypress and mangrove swamps	None - No suitable habitat	—
<i>Picoides borealis</i> Red-cockaded woodpecker	SSC	E	Mature longleaf and slash pine forests with open mid-story	None - No suitable habitat	—
<i>Caracara cheriway</i> Audubon's crested caracara	T	T	Prairies, open grassland; nest in cabbage palm hammock	None - No suitable habitat	—
<i>Rostrhamus sociabilis plumbeus</i> Everglades Snail Kite	E	E	Freshwater marsh	None - No suitable habitat	—
<i>Sterna antillarum</i> Least tern	T	-	Open flat sand or gravel, spoil areas, and rooftops; adjacent to coastal areas	None - No suitable habitat	—



Threatened and Endangered Species Assessment  
**U.S. 441 at Sadler Road - Intersection Improvements**

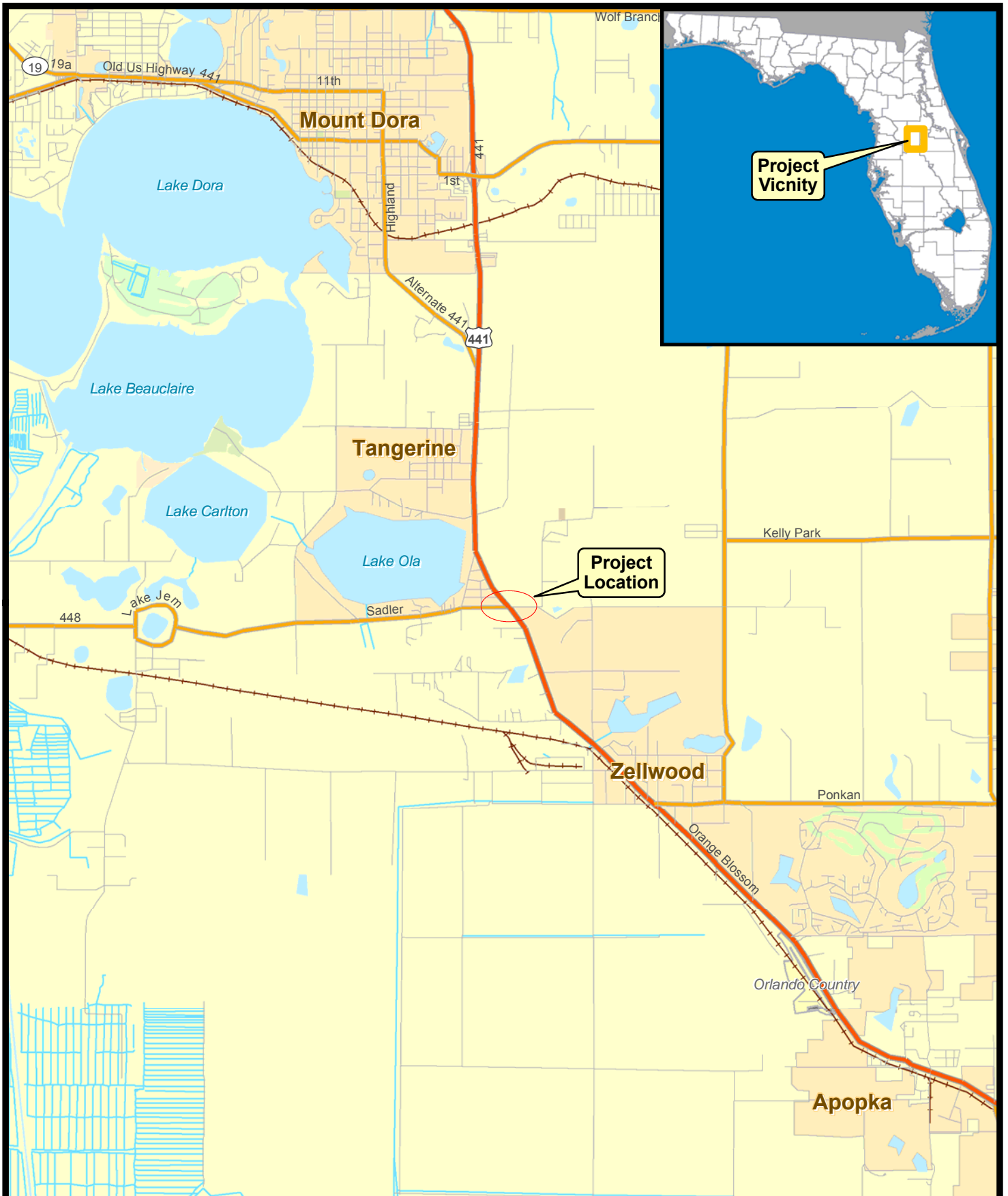
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**Table 3** - continued

SCIENTIFIC NAME COMMON NAME	DESIGNATED STATUS		HABITAT	LIKELIHOOD OF OCCURRENCE	OBSERVED
	FWC	FWS			
<b>MAMMALS</b>					
<i>Podomys floridanus</i> Florida mouse	SSC	-	Sand pine scrub, coastal scrub, scrubby flatwoods, and sandhills	None - No suitable habitat	---
<i>Sciurus niger shermani</i> Sherman's fox squirrel	SSC	-	Longleaf pine-turkey oak sandhills and flatwoods	None - No suitable habitat	---
<i>Ursus americanus floridanus</i> Florida black bear	T	-	Pine flatwoods, cypress swamps, hardwood swamp, sand pine scrub, and mixed hardwoods	Low - Limited suitable habitat	---
<b>FISH, AMPHIBIANS AND REPTILES</b>					
<i>Alligator mississippiensis</i> American alligator	SSC	T(S/A)	Lakes, ponds, sloughs, and marshes	None - No suitable habitat	---
<i>Cyprinodon var. hubbsi</i> Lake Eustis pupfish	SSC	-	Freshwater, brackish, and marine habitats; range limited to select water bodies	None - No suitable habitat	---
<i>Drymarchon corais couperi</i> Eastern indigo snake	T	T	Varied habitat from wet prairie to xeric pineland and scrub	Moderate - Suitable habitat present	---
<i>Gopherus polyphemus</i> Gopher tortoise	T	-	Sandhills, sand pine scrub, live oak hammocks, palmetto prairie, pine flatwoods, abandoned grove, and pasture	Moderate - Suitable habitat present	---
<i>Neoseps reynoldsi</i> Sand skink	T	T	Rosemary scrub, sand pine scrub, oak scrub, and scrubby flatwoods	Low - Limited suitable habitat	---
<i>Pituophis melanoleucus mugitus</i> Florida pine snake	SSC	-	Longleaf pine-xeric oak, sand pine scrub, dry pine flatwoods, and abandoned fields on well drained soils	Moderate - Suitable habitat present	---
<i>Rana capito</i> Gopher frog; crawfish frog	SSC	-	Sandhill, pine flatwoods, and sand pine scrub; needs ephemeral marshes for breeding	Low - No suitable breeding habitat	---
<i>Stilosoma extenuatum</i> Short-tailed snake	T	-	Turkey oak-longleaf pine, occasionally upland hammock, and sand pine scrub	Low - Limited suitable habitat	---

**LEGEND:**

- E = Endangered
- T = Threatened
- T(s/a) = Threatened due to similarity of appearance
- SSC = Species of Special Concern
- FWC = Florida Fish and Wildlife Conservation Commission
- FWS = U.S. Fish and Wildlife Service




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**U.S. 441 at Sadler Road  
 Intersection Improvements**  
 in Section 16, Township 20 South, Range 27 East  
 Orange County, Florida

**Vicinity Map**  
 North  
 Scale: 1" = 1 mile

File: 11019.MXD

Drawn By: BEH

Job No.: 2011-019.33

Date: 20 Dec 2011

Figure 1





**Legend**

○ Project Location

Notes:

Topographic map from USGS 7.5 Series Apopka, FL quad provided in GIS format by the SJRWMD.

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**U.S. 441 at Sadler Road  
 Intersection Improvements**  
 in Section 16, Township 20 South, Range 27 East  
 Orange County, Florida

**Topographic Map**

↑ North

Scale: 1" = 1,000'





<p><b>Legend</b></p> <p><span style="color: red;">---</span> Project Area</p> <p><span style="color: green;">---</span> Soils Hydrology</p>	<p><b>On-site Soils:</b></p> <p>4 - Candler fine sand, 0 to 5 percent slopes</p> <p>7 - Candler-Urban land complex, 0 to 5 percent slopes</p> <p>8 - Candler-Urban land complex, 5 to 12 percent slopes</p> <p>46 - Tavares fine sand, 0 to 5 percent slopes</p> <p>47 - Tavares-Millhopper fine sands, 0 to 5 percent slopes</p>
	<p><b>Note:</b></p> <p>Soils delineation and classification from NRCS Soils Survey of Orange County, FL provided in GIS format by SJRWMD.</p>



Lake Apopka



**Legend**

--- Project Area

Land Cover Codes:

- 121 - Fixed Single Family Units Medium Density
- 141 - Retail Sales and Services
- 240 - Nurseries and Vineyards
- 427 - Live Oak

**Notes:**

Land cover classification based on Florida Land Use, Cover & Forms Classification System, FDOT, 1999.

Land cover delineation and classification based on aerial photointerpretation and field observations.

Acreage calculations should be considered approximate and wetland limits are subject to approval by regulatory agencies. This is not a survey.

Project area as shown provided by JMT, Inc.

2007 aerial photography provided in GIS format by the Orange County Property Appraiser's Office.

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**U.S. 441 at Sadler Road  
Intersection Improvements**

in Section 16, Township 20 South, Range 27 East  
Orange County, Florida

**Existing Land  
Cover Map**



North

Scale: 1" = 500'

Figure 4

File: 11019.MXD

Drawn By: BEH

Job No.: 2011-019.33

Date: 20 Dec 2011





# **APPENDIX A**

## **Information Sources**



**Information sources utilized for the U.S. 441 at Sadler Road - Intersection Improvements Project:**

- Florida Administrative Code. Chapter 40C. Regulations of the St. Johns River Water Management District.
- Florida Association of Professional Soil Classifiers. Hydric Soils of Florida Handbook, 1 ed. 1990.
- Florida Department of Agriculture and Consumer Services, Division of Plant Industry. 2003. "Notes of Florida's Endangered and Threatened Plants."
- Florida Department of Transportation, January 1999, Florida Land Use, Cover and Forms Classification System.
- Florida Fish and Wildlife Conservation Commission, Florida's Endangered and Threatened Species, October 2011.
- Florida Fish and Wildlife Conservation Commission, Wildlife Technology Services, January 2011. Eagle Nest Locator.
- Florida Natural Areas Inventory, Species and Communities database.
- Soil Survey of Orange County. 1989. Natural Resources Conservation Service.
- United States Army Corps of Engineers. Section 404 of the Clean Water Act (33 U.S.C. 1344) and 33 CFR Parts 320 through 330.
- United States Fish and Wildlife Service, Orange County Federally-Listed Species. November 2010.
- United States Fish and Wildlife Service. National Wetlands Inventory Maps: Apopka, Florida. circa 1988.
- United States Geological Survey - Topographic Quadrangle Map: Apopka, Florida Quadrangle. 1953, photorevised 1980.



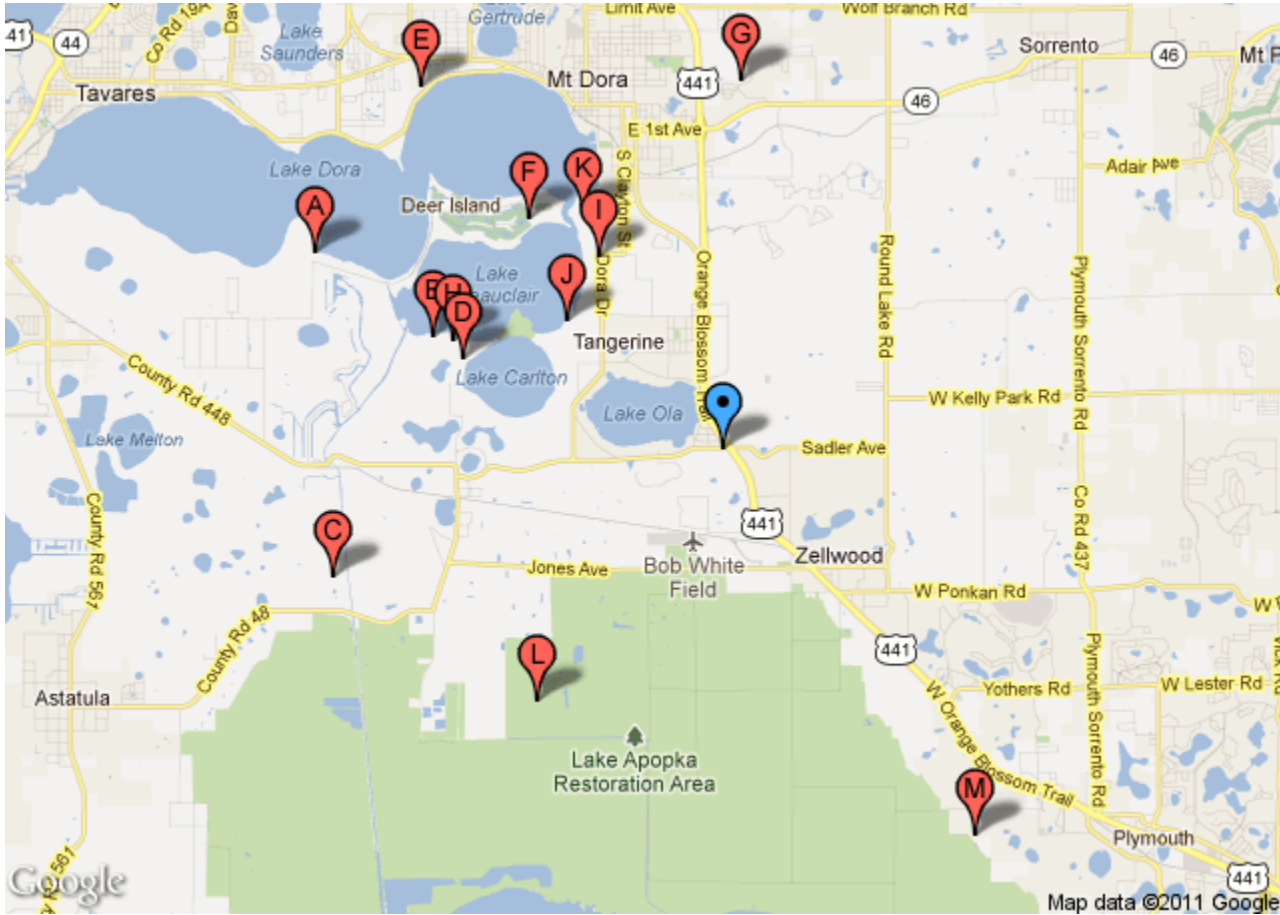
## **APPENDIX B**

### Wildlife Agency Correspondence

This report was generated using the bald eagle nest locator at <https://public.myfwc.com/FWRI/EagleNests/nestlocator.aspx> on 12/19/2011 12:51:23 PM.

**Search Entered:** Within 5 miles of latitude 28.7489166666667 and longitude -81.621225; All Search Results  
13 record(s) were found; 13 record(s) are shown

**Bald Eagle Nest Map:**



**Bald Eagle Nest Data Search Results:**

Results per page:

Letter	Nest ID	County	Latitude	Longitude	Township	Range	Section	Gaz Page	Last Known Active	Last Surveyed	Act 07	Act 08	Act 09	Act 10	Act 11	Dist. (Mi)
A	LA027	Lake	28 46.70	81 41.47	20S	26E	2	79	2011	2011	Y	N	*	*	Y	4.70
B	LA030	Lake	28 45.95	81 40.26	20S	26E	12	79	2011	2011	Y	Y	*	*	Y	3.23
C	LA135	Lake	28 43.78	81 41.30	20S	26E	23	79	2011	2011	Y	N	*	*	Y	4.27
D	LA153	Lake	28 45.74	81 39.95	20S	26E	12	79	2011	2011	Y	Y	*	*	Y	2.85
E	LA167	Lake	28 48.19	81 40.39	19S	26E	25	79	2011	2011	Y	Y	Y	*	Y	4.89
F	LA170	Lake	28 47.01	81 39.27	20S	27E	6	79	2011	2011	Y	Y	*	*	Y	3.12
G	LA176	Lake	28 48.26	81 37.09	19S	27E	28	79	2011	2011	Y	Y	*	*	Y	3.83
H	LA195	Lake	28 45.90	81 40.06	20S	26E	12	79	2011	2011	-	-	-	-	Y	3.02
I	OR017	Orange	28 46.66	81 38.56	20S	27E	6	79	2008	2011	Y	Y	*	*	N	2.37
J	OR032	Orange	28 46.09	81 38.88	20S	27E	7	79	2011	2011	Y	Y	*	*	Y	2.10
K	OR033	Orange	28 47.05	81 38.72	20S	27E	6	79	2011	2011	Y	Y	Y	*	Y	2.84

L	OR035	Orange	28 42.65	81 39.19	20S	27E	31	79	2011	2011	Y	Y	*	*	Y	3.26
M	OR073	Orange	28 41.45	81 34.68	21S	27E	2	79	2011	2011	-	-	-	Y	Y	4.79

"Y" denotes an active nest

"N" denotes an inactive nest

"-" denotes an unobserved nest

"U" denotes a nest that was visited but status was undetermined

"\*" denotes a nest that was not surveyed



# North Florida Ecological Services Office

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## Federally Listed Species in Orange County, Florida

This information is provided as a guide to project planning, and is not a substitute for site-specific surveys. Such surveys may be needed to assess species' presence or absence, as well as the extent of project effects on listed species and/or designated critical habitat.

The following table lists those federally-listed species known to be present in the county. Code Key: E = Endangered, T = Threatened, CH = Critical Habitat Designated

Category	Species Common Name	Species Scientific Name	Code
<b>Mammals</b>	None		
<b>Birds</b>	Audubon's Crested Caracara	<i>Polyborus plancus audubinii</i>	T
	Everglade Snail Kite	<i>Rostrhamus sociabilis plumbeus</i>	E
	Florida Scrub-jay	<i>Aphelocoma coeruluscens</i>	T
	Wood Stork	<i>Mycteria americana</i>	E
	Red-cockaded Woodpecker	<i>Picoides borealis</i>	E
<b>Fish</b>	None		
<b>Reptiles</b>	Sand Skink	<i>Neoseps reynoldsi</i>	T
	Eastern Indigo Snake	<i>Dymarchon corais couperi</i>	T
<b>Amphibians</b>	None		
<b>Mollusks</b>	None		
<b>Crustaceans</b>	None		
<b>Plants</b>	Britton's Beargrass	<i>Nolina brittoniana</i>	E
	Florida Bonamia	<i>Bonamia grandiflora</i>	T
	Scrub Lupine	<i>Lupinus aridorum</i>	E
	Beautiful Pawpaw	<i>Deeringothamnus pulchellus</i>	E
	Sandlace	<i>Polygonella myriophylla</i>	E
	Papery Whitlow-wort	<i>Paronychia chartacea = Nyachia pulvinata</i>	T
	Scrub Wild Buckwheat	<i>Eriogonum longifolium var. gnaphalifolium</i>	T

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[Species: North Florida County](#)
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For a list of State species by county use the Florida Natural Areas Inventory's Tracking Lists at <http://www.fnai.org/trackinglist.cfm>

For State listed species details, please go to <http://myfwc.com/imperiledspecies/>

**NOTE:** Bald eagles were removed from the endangered species list in June 2007 because their populations recovered sufficiently. However, the protections under the Bald and Golden Eagle Act (Eagle Act) continue to apply. Please see the eagle information on our [Landowner Tools](#) page or our national website at <http://www.fws.gov/migratorybirds/baldeagle.htm> for information regarding new permit requirements under the Eagle Act.





**PUBLIC WORKS DEPARTMENT**

4200 South John Young Parkway • Orlando, Florida 32839-9205  
407-836-7900 • Fax 407-836-8024

April 23, 2019

PREPARED BY: Jeffrey Sloman, P.E.

**TECHNICAL PROVISIONS SPECIFICATIONS PACKAGE  
SADLER ROAD AND US 441 INTERSECTION IMPROVEMENTS**

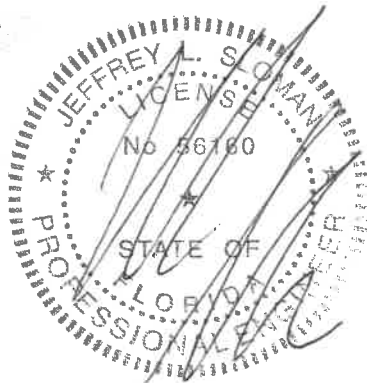
**FINANCIAL PROJECT ID(S). 441400-1-58-01  
FEDERAL FUNDS  
DISTRICT FIVE  
ORANGE COUNTY**

The July, 2019 edition of the Construction Details and Materials divisions (Division II & III) of the Florida Department of Transportation Standard Specifications for Road and Bridge Construction are revised, as follows:

I hereby certify that this technical provisions specifications package has been properly prepared by me, or under my responsible charge, in accordance with procedures adopted by the Florida Department of Transportation.

State of Florida,  
PE License No.: 56160  
Certified by: Jeffrey Sloman, P.E.  
Date: April 23, 2019

Sheets H-1 through H-80



4/23/19

**PART H**  
**TECHNICAL PROVISIONS**

Sadler Road & U.S. 441 Intersection Improvements Project

**TP 101 - Mobilization**

**MOBILIZATION**

Mobilization shall include all items detailed in Article 101 of the “Standard Specifications”, the Special Provisions and on the plans, except as directed by the Engineer.

Preservation of Property Corners including all items detailed in Section 7-11 of the Standard Specifications shall be included in the contract price for mobilization.

**Basis of Payment**

The work and incidental costs covered under Mobilization will be paid for at the contract lump sum price and will be paid in partial payments in accordance with the following:

Percent of Original Contract Amount Earned	Allowable Percent of the Lump Sum Price for the Items*
5	25
10	50
25	75
50	100

\*Partial payments as detailed above will be limited to 10% of the original Contract amount for the roadway pay items. Any amount of mobilization in excess of 10% of the roadway pay items will be paid upon completion of all work.

Payment shall be made under:

Pay Item:

101-1	Mobilization	Lump Sum
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**PART H**  
**TECHNICAL PROVISIONS**

Sadler Road & U.S. 441 Intersection Improvements Project

**TP 102 – Maintenance of Traffic**

**MAINTENANCE OF TRAFFIC**

All Maintenance of Traffic work shall conform to the requirements of Section 102 of the Standard Specifications, FDOT Standard Plan 102, the plans, and/or as herein modified, except as directed by the Engineer.

The road shall be kept open to two-way traffic on a paved surface during construction except when full closures are allowed by the plans or by the Engineer. The Contractor shall not be permitted to isolate residences or places of business. Access shall be provided to all residences and all places of business whenever construction interferes with the existing means of access.

The Contractor shall furnish, erect and maintain all necessary traffic control devices, including flagmen and pilot cars, in accordance with the *Manual of Uniform Traffic Control Devices for Streets and Highways*, published by the U.S. Department of Transportation, Federal Highway Administration. The Contractor shall provide and maintain in a safe condition the entire project limits included, but not limited to pre-existing conditions, driving lanes, temporary approaches, crossings, and intersections with trails, roads, streets, business parking lots, residences, garages and completed work. The Contractor shall take all necessary precautions for the protection of the work and the safety of the public in accordance with Section 102.

The Contractor shall present his signed and sealed Maintenance of Traffic Plan that is approved by Orange County Traffic Engineering to the Engineer at the preconstruction conference, and shall be fully and solely responsible for the adequacy of the Maintenance of Traffic plan regardless of the source. The plan shall be signed and sealed by the contractor's own professional engineer licensed in the State of Florida. Any proposed revisions to the approved Maintenance of Traffic plan are required to be approved by the Engineer.

The Contractor shall be responsible for installation of signs for all business along the project corridor. Signs should be manufactured and installed in accordance with FDOT Standard Plans. No special compensation will be made to the contractor to defray costs of any of the work or delays for complying with the requirements of installing business signs, but such costs shall be considered as having been included in the price stipulated for the Maintenance of Traffic pay item.

**Basis of Payment**

All materials, work and incidental costs related to Maintenance of Traffic will be paid for at the contract lump sum price. All material, labor and equipment necessary for the construction and maintenance of the entire project limits included, but not limited to pre-existing conditions, driving lanes, temporary approaches, crossings, intersections with trails, roads, streets, business parking lots, residences, garages, temporary driving lanes, side streets, driveway connections, and completed work, as may be directed by the Engineer shall be included in the contract price.

Payment shall be made under:

**Pay Item:**

102-1            Maintenance of Traffic            - Lump Sum

**PART H**  
**TECHNICAL PROVISIONS**

Sadler Road & U.S. 441 Intersection Improvements Project

**TP 104 - Prevention, Control and Abatement  
of Erosion and Water Pollution**

**PREVENTION, CONTROL and ABATEMENT of EROSION and WATER POLLUTION**

**LAND CLEARING**

Prevention, control and abatement of erosion and water pollution shall conform to the requirements of Section 104 of the “Standard Specifications”, National Pollution Discharge Elimination System (NPDES) requirements, except as modified by these Technical Provisions or as directed by the Engineer.

The Contractor shall present at the Preconstruction Conference its Storm Water Pollution Prevention Plan (SWPPP) and a separate schedule to manage erosion and water pollution. This schedule shall include a complete outline of the proposed construction of all erosion and pollution control and abatement items required.

The Contractor shall be responsible for the preparation and submittal of the Notice of Intent (NOI) and Notice of Termination (NOT) to the Florida Department of Environmental Protection (FDEP) and shall obtain the FDEP Generic Permit for Stormwater Discharge from Large and Small Construction Activities.

**DEWATERING**

The term treatment as used in this technical provision means the application of all FDEP approved techniques and/or methods available to remove the exceedances out of dewatering effluent except impounding. Impounding is not considered a treatment method for purposes of compensation under this technical provision.

The CONTRACTOR shall include in his/her bid all applicable costs, including monitoring, resulting from treatment and disposal of contaminated groundwater with concentration levels that exceed the allowable limits of the FDEP generic permit, and shall not be entitled to any adjustment in the Contract Price as a result of any change in the permit fees or unanticipated treatment and disposal costs.

Prior to any work commencing, and for the duration of the work, the CONTRACTOR is responsible for meeting all the conditions of the applicable permits and submitting any required reports to the appropriate agencies.

The CONTRACTOR shall dewater only in relation to the location and relocation of facilities owned by the COUNTY. No compensation shall be provided for dewatering performed for facilities that are not owned by the COUNTY.

**Permitting**

If exceedances are found in the dewatering effluent, the CONTRACTOR will be required to:

**PART H**  
**TECHNICAL PROVISIONS**

Sadler Road & U.S. 441 Intersection Improvements Project

**TP 104 - Prevention, Control and Abatement  
of Erosion and Water Pollution**

1. Immediately notify the COUNTY and report the exceedances that are encountered.
2. Meet with the FDEP to determine any and all alternatives that are acceptable.
3. Obtain prior COUNTY approval of treatment and disposal alternatives.
4. Obtain prior written COUNTY authorization to use pay item TP 104-14
5. Apply and obtain any and all permits and/or treatment approvals that FDEP requires including, but not limited to:
  - a. Generic Permit for Discharges from Petroleum Contaminated Sites (62-621.300(1), F.A.C.). Allows discharges from sites with automotive gasoline, aviation gasoline, jet fuel, or diesel fuel contamination.
  - b. Permit for all Other Contaminated Sites (62-04; 62-302; 62-620 & 62-660, F.A.C.). The coverage is available only through the individual NPDES permit issued by FDEP. Allows discharges from sites with general contaminant issues, i.e. ground water and/or soil contamination other than petroleum fuel contamination.
  - c. Generic Permit for the Discharge of Produced Ground Water from Any Non-Contaminated Site Activity (62-621.300(2), F.A.C.).
  - d. Generic Permit for Stormwater Discharge from Large or Small Construction Activities (62-621.300(4) (a), F.A.C.).
6. Apply and obtain any and all permits and/or treatment approvals that the Water Management District requires including, but not limited to:
  - a. No-Notice Short-Term Dewatering Permit (40E-20.302(3), F.A.C.) If the CONTRACTOR'S proposed work is expected to exceed 90 days in duration, or does not meet any of the other requirements listed with the requirements of Rule 40E-20.302(3), the CONTRACTOR must apply for and obtain a Dewatering General Water Use Permit (40E-20.302(2) F.A.C.)

The CONTRACTOR shall not be entitled to file, or recover under, any delay claim based on preparation of permit applications and the time required for obtaining the applicable permits. If, prior to or during the dewatering, it is determined that the disposal or discharge of the dewatering effluent is not authorized by the FDEP's Generic Permit for the Discharge of Produced Ground Water from Any Non-Contaminated Site Activity, the CONTRACTOR shall diligently pursue further required permit(s) from FDEP or other agencies without resort to delay claims or recompense from the COUNTY for either permit application activities or the time required to obtain such permits.

## **PART H**

# **TECHNICAL PROVISIONS**

Sadler Road & U.S. 441 Intersection Improvements Project

### **TP 104 - Prevention, Control and Abatement of Erosion and Water Pollution**

The CONTRACTOR shall consider and anticipate the potential need to obtain the herein discussed permits in developing his schedule, and shall make every effort to avoid or minimize potential impacts to his critical path that might result from delays in dewatering activities due to the time necessary for the CONTRACTOR to obtain the necessary permits. The CONTRACTOR shall make every effort to schedule activities requiring dewatering as late as possible during his schedule, and shall schedule activities not impacted by dewatering as early as possible. For each day, up to a maximum of one hundred eighty (180) days that the CONTRACTOR diligently pursues such permit(s) and is unable to avoid adversely impacting his critical path, a day will be added to the time allotted to the CONTRACTOR to complete performance of the Project.

#### **Treatment**

The CONTRACTOR shall implement the appropriate treatment that is acceptable to FDEP, COUNTY, and, if necessary, the Water Management District to attain compliance for all exceedances encountered during dewatering activities. Treatments may include, but are not limited to: chemical treatment, ion exchange treatment, filtration, and disposal of discharged groundwater in a properly permitted facility.

The CONTRACTOR shall:

1. Make every effort to minimize the spread of contamination into uncontaminated areas;
2. Provide for the health and safety of all workers at the job site and make provisions necessary for the health and safety of the public that may be exposed to any potentially hazardous conditions;
3. Ensure such provisions adhere to all applicable laws, rules or regulations covering hazardous conditions in a manner commensurate with the level of severity of the conditions;
4. If necessary, provide contamination assessment and remediation personnel to handle site assessment, determine the course of action necessary for site security, and perform the necessary steps under applicable laws, rules, and regulations for additional assessment and/or remediation work to resolve the contamination issue;
5. Delineate the contamination area(s), any staging or holding area required, and develop a work plan that will provide the schedule of projected completion dates for the final resolution of the contamination issue;
6. Maintain jurisdiction over activities inside any delineated contamination areas and any associated staging or holding areas;
7. Be responsible for the health and safety of workers within the delineated areas; and
8. Provide continuous access to representatives of regulatory or enforcement agencies having jurisdiction.



**PART H**  
**TECHNICAL PROVISIONS**

Sadler Road & U.S. 441 Intersection Improvements Project

**TP 104 - Prevention, Control and Abatement  
of Erosion and Water Pollution**

**Basis of Payment**

All work and incidental costs required to comply with the articles of this specification will be paid at the contract lump sum price for Prevention, Control and Abatement of Erosion and Water Pollution.

Payment will be made under:

Pay Item:

104-14	Prevention, Control and Abatement of Erosion and Water Pollution	Lump Sum
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**PART H**  
**TECHNICAL PROVISIONS**

Sadler Road & U.S. 441 Intersection Improvements Project

**TP 105 - CONTRACTOR QUALITY CONTROL GENERAL REQUIREMENTS**

REQUIREMENTS (REV 5-31-16) (FA 8-16-16) (1-19) SUBARTICLE 105-1.1.2 is deleted and the following substituted

Test data shall not be required to be entered into any FDOT and/or Orange County databases.

**PART H**  
**TECHNICAL PROVISIONS**

Sadler Road & U.S. 441 Intersection Improvements Project

**TP 110 – Clearing and Grubbing**

**CLEARING AND GRUBBING**

All clearing and grubbing shall be performed in accordance with the requirements of Section 110 of the “Standard Specifications”, except as directed by the Engineer.

Scope of work to include but not be limited to, the removal of all rigid, asphalt pavement, Portland cement concrete pavement, curb, curb and gutter, ditch pavement, sidewalk, driveway aprons, concrete slabs, concrete structures, brick, fences, gravity walls, retaining walls, pipes, etc.

Clearing and Grubbing shall also include the removal of existing pavement and base course and backfilling with suitable material, as shown in the construction plans. Removal of the existing roadway shall also include the proper disposal of the removed materials as specified above.

**Basis of Payment**

All work and incidental costs required to perform clearing and grubbing as herein specified will be paid for at the contract lump sum price.

Payment shall be made under:

Pay Item:

110-1-1	Clearing and Grubbing	Lump Sum
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**PART H**  
**TECHNICAL PROVISIONS**

Sadler Road & U.S. 441 Intersection Improvements Project

**TP 120 - EXCAVATION, EMBANKMENT AND GRADING**

**EXCAVATION, EMBANKMENT AND GRADING**

All excavation and embankment work shall conform to the requirements of Section 120 of the "Standard Specifications", and the provisions of this section, except as directed by the Engineer.

**Basis of Payment**

Subsoil Excavation will be paid for at the contract price per cubic yard.

Payment shall constitute full compensation for all work described herein and in the Special Provisions and shall include the excavation and disposal of muck, clay, rock, or any other material that is unsuitable in its original position and that is excavated below the finished grading template. Work under this pay item shall also include the excavation of all suitable material within the specified limits as necessary to excavate the unsuitable material. The bottom of the finished grading template shall be considered to be the top of the finished base, shoulders, and slopes for stabilized bases and the finished shoulder and slope lines and bottom of base or rigid pavement for rigid pavement or all other bases. Payment shall also include the provision, placement, shaping, and compaction of suitable backfill material to replace the removed unsuitable material up to the original grade line or to the bottom of the proposed roadway base material, whichever is lower.

The limits of Subsoil Excavation indicated in the construction plans are considered to be particularly variable, in accordance with field conditions actually encountered.

Excavation, Embankment and Grading will be paid for at the contract lump sum price.

Payment shall constitute full compensation for all work described herein and in the Special Provisions and shall include grading of shoulders, graded road connections, slopes, compaction, final dressing, subsoil excavation, replacement material and all work required for completing the project that is not paid for under the other pay items. Also included are removals and off-site disposal or on-site utilization of all materials, structures, abandoned utilities and obstructions as directed by the Engineer.

**Payment shall be made under:**

Item 120-9 Excavation Embankment and Grading –Lump Sum (LS)

**PART H**  
**TECHNICAL PROVISIONS**

Sadler Road & U.S. 441 Intersection Improvements Project

**TP 160 – Stabilized Subgrade**

**STABILIZED SUBGRADE**

All work shall be performed in accordance with the requirements of Section 160 of the “Standard Specifications” (Stabilizing) and shall be constructed to the limits, thickness, and specified limerock bearing ratio as shown on the plans, except as directed by the Engineer.

**Method of Measurement**

Quantities of stabilized subgrade measured for payment under this Section shall be the actual area in square yards of satisfactorily installed stabilized subgrade.

**Basis of Payment**

Stabilized subgrade will be paid for at the contract unit price per square yard installed and accepted and shall include the cost of furnishing and hauling additional stabilizing materials required, and all mixing, shaping and compacting of the stabilized area. The increased thickness of the Type B stabilization under curb and gutter sections shall be considered incidental and included in the contract unit price.

Payment shall be made under:

**Pay Item:**

160-4	Type B Stabilization (12”) (Min LBR 40)	Per Square Yard
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## PART H TECHNICAL PROVISIONS

Sadler Road & U.S. 441 Intersection Improvements Project

### TP 270- Soil Cement Base (Primed)

#### **CEMENT BASE (PRIMED)**

Construction of a Soil Cement Base shall consist of soil, water, and portland cement uniformly mixed, moistened, compacted, finished and cured in accordance with these specifications and shall conform to the lines, grades, thicknesses and typical cross-sections shown on the plans. Soil cement base that is not finished and cured within (36) hours after compaction has been achieved may be rejected and subject to removal and replacement if so directed by the Engineer.

#### **Testing**

- A. The Contractor shall submit a mix design prepared by an independent Geotechnical Engineer to the Engineer for acceptance before using the material for road construction. Processing of the base shall proceed after the design mix is accepted by the Engineer. A modified Portland Cement Association (PCA) Short Cut Procedure for sand soil test method may be used in lieu of the wet-dry/freeze-thaw test method. However, a 7-day minimum laboratory compressive strength of 300 psi shall be used to determine the cement content when using the modified PCA test method.
  
- B. Construction of the soil cement base shall proceed only after 48 hours prior notice has been received by the Engineer and the County's geotechnical engineer. The geotechnical engineer shall be present during construction. The following is the minimum information/test data to be obtained during construction:
  - 1. Area & Date of Construction
  - 2. Average Cement Content
  - 3. Uniformity of Mix
  - 4. Moisture Content at Time of Compaction
  - 5. Percent Compaction
  - 6. Compacted Thickness
  - 7. 7-Day Compressive Strength Tests

The geotechnical engineer will prepare and submit to the Engineer a signed report documenting all field tests and observations.

#### **Materials**

##### A. Portland Cement

Portland Cement shall be Type I, II, III, or Type I-S or Type I-P and shall comply with FDOT Standard Specification Section 921. Portland Cement shall also comply with ASTM

# PART H TECHNICAL PROVISIONS

Sadler Road & U.S. 441 Intersection Improvements Project

## TP 270- Soil Cement Base (Primed)

C-150 and/or AASHTO M-85 and be produced in the United States. Cement which is partially set, lumpy or caked shall not be used. One cubic foot of Portland Cement shall be considered to weigh 94 lbs.

### B. Water

Water shall be clean and free from substances deleterious to the hardening of the soil cement mixture.

### C. Soil

Only soils which have proven themselves to produce a high quality soil cement base shall be acceptable. New sources of soil cement material shall be accepted by the County prior to use.

#### Specific Requirements for Soil:

Organic Material (As per FM 1-T267)	Maximum 5%
Total Clay and Silt Content (minus No. 200 [75µm sieve) (As per AASHTO T 88, no hydrometer test)	Maximum 25%
Plastic Index (As per AASHTO T 90)	Maximum 10%
Liquid Limit (As per AASHTO T 89)	Maximum 25%
Gradation: (As per AASHTO T 88)	
Passing 2 inch [50 mm] sieve	Minimum 100%
Passing No. 4 [4.75 mm] sieve	Minimum 55%
Passing No. 10 [2.00 mm] sieve	Minimum 37%

As an exception to the above requirements, the Contractor may use any material meeting the requirements for Limerock in Section 911 of the FDOT Standard Specifications.

### D. Prime Coat

The prime coat shall be emulsified Asphalt Grades SS-I or SS-IH, or Special MS-Emulsion, diluted per the manufacturer's recommendations.

## Equipment

Soil Cement may be constructed with any machine, combination of machines or equipment that will produce the results meeting the requirements for soil pulverization, cement application, mixing, uniform depth control, water application, incorporation of materials, compaction, finishing and curing as required to comply with these specifications.



## **PART H**

# **TECHNICAL PROVISIONS**

Sadler Road & U.S. 441 Intersection Improvements Project

### **TP 270- Soil Cement Base (Primed)**

#### **Construction Methods**

##### **A. General**

The Soil-Cement base shall be placed under the supervision of a competent superintendent having a minimum of two (2) years experience in the construction of soil-cement base courses. Soil-Cement base proportioning and construction shall only be performed when ambient temperatures measured in the shade are at 45°F and rising and that temperatures are not forecast to fall below 35°F for 48 hours following placement of the material. All mixing, shaping, finishing and compaction shall be completed within four hours starting from the time mixing commences.

##### **B. Mix Proportioning**

The Soil-Cement base shall be proportioned using Strength Design criteria. Proportioning of the soil, cement and water shall be performed in a pugmill at a central mix plant. Mixing shall be sufficiently achieved to prevent cement balls from forming when water is added. The Contractor shall continuously monitor plant batching and mixing of the materials and submit to the Engineer reports of the gradation, cement content and moisture content prepared by the independent Geotechnical Engineer. The County's Geotechnical Engineer shall monitor the installation and conduct applicable tests and inspections as outlined in this Section.

##### **C. Preparation**

Before construction operations are begun, the area to be paved shall be graded and shaped as required to receive the spread of soil-cement mixture delivered from the plant and allow construction in conformance with the grades, lines, thicknesses and typical cross sections shown on the plans. Additional soil needed, if any, shall be placed as directed. Unsuitable soil or materials shall be removed and replaced with acceptable soil. The subgrade shall be compacted to the density, thickness, lines, grades, and typical sections shown on the plans. The contractor shall maintain the required density until the base is placed on the subgrade.

##### **D. Pulverization**

The soil to be used in mixing shall be so pulverized that, at the completion of moist-mixing, 100 percent by dry weight passes a 1" sieve, and a minimum of 80% passes a No. 4 sieve, exclusive of gravel or stone retained on these sieves.

## PART H TECHNICAL PROVISIONS

### Sadler Road & U.S. 441 Intersection Improvements Project

#### **TP 270- Soil Cement Base (Primed)**

##### E. Application of Cement

The specified quantity of Portland Cement required for full depth treatment shall be metered out at the plant in accurate proportion in accordance with the mix design. The percentage of moisture in the soil, at the time of cement application at the plant, shall not exceed the quantity that will permit a uniform and intimate mixture of soil and cement during proportioning and shall not exceed 2% below the optimum moisture content for the soil cement mixture.

##### F. Mixing

After the cement has been applied, it shall be thoroughly mixed with the soil at the pugmill. Mixing shall continue until the cement has been thoroughly blended with the soil in order to prevent the formation of cement balls when water is applied. Any uncompacted soil and cement mixture that has not been compacted and finished shall not remain undisturbed for more than thirty (30) minutes.

##### G. Application of Water and Moist Mixing

Immediately after and/or during the mixing of soil and cement, the moisture content of the soil cement mixture shall be determined by the laboratory. Water shall be applied uniformly in quantities required to obtain the proper design moisture content within the range provided by the contractor's geotechnical engineer. After the final application of water, mixing shall continue until a uniform and intimate mixture of soil, cement and water is obtained.

When water application and mixing have been completed, the percentage of moisture in the mixture, based on oven-dry weights, shall be no more than two percentage points above the specified optimum moisture content, and shall be less than that quantity which will cause the soil cement mixture to become unstable during compaction and finishing.

##### H. Spreading

The mixed base material shall be hauled to the placement site in trucks equipped with protective covers and immediately placed on top of the prepared subgrade. The material shall be graded to conform to the lines and grades of the finished pavement section as shown on the project drawings and shall be placed in a sufficient thickness to assure the minimum required compacted thickness free from high and low spots. No more than 60 minutes will be allowed between placement of adjacent passes of the spreader at any location, except at construction joints.

##### I. Compaction

The material shall be placed in a single, uniformly thick, loose layer and evenly compacted to

## PART H TECHNICAL PROVISIONS

### Sadler Road & U.S. 441 Intersection Improvements Project

#### **TP 270- Soil Cement Base (Primed)**

a density not less than 97% of the modified maximum density determined by AASHTO T-134 on representative samples of soil cement mixture obtained from the roadway at the time compaction begins. Not more than four hours shall elapse from the time of batching to final compaction and the material shall not remain undisturbed for more than two hours. The surface of the base course may require the addition of water during the final rolling and shaping operation to prevent excessive surface moisture losses prior to sealing the base.

#### J. Finishing

After the mixture has been initially compacted, the surface of the soil cement shall be shaped to the required lines, grades and cross-section. During the shaping operations, the surface shall be lightly scarified to loosen any imprints left by the compacting or shaping equipment, when deemed necessary. The resulting surface shall then be compacted to the specified density with a pneumatic tire roller. Rolling shall be supplemented by broom-dragging, if required.

The moisture content of the surface material must be maintained at not less than its specified optimum moisture content during finishing operations. Surface compaction and finishing shall be done in such a manner as to produce a smooth, dense surface, free of surface compaction planes, cracks, ridges, or loose material. Surface-finishing methods may vary, provided a smooth, dense surface free of surface compaction planes is produced. The moisture and density requirements shall be determined by the methods prescribed in AASHTO T-134.

#### K. Surface Requirements (Scalping or Hard-Planing)

After completing compaction and finishing but not later than the beginning of the next calendar day after constructing any section of the base, the surface shall be tested with a template cut to the required crown and/or with a 15 foot straight-edge laid parallel to the centerline. All irregularities greater than 1/4 inch shall be immediately corrected with a blade adjusted to the lightest cut which will insure a surface that does not contain depressions greater than 1/4 inch under the template or the straight-edge. The material removed shall be wasted. Additional wetting during and after that final shaping operation shall be provided to keep the base continuously moist.

#### L. Prime/Curing

After finishing the soil cement it shall be protected against drying for 7 days by applying a bituminous curing material as soon as possible after completing finishing operations. The finished soil cement shall be kept continuously wet until the curing material is placed. Curing material shall consist of a mixture of 60% grade SS-1 and 40% water applied at the rate of 0.15 to 0.20 gallons per square yard.

The prime coat bituminous material specified shall be uniformly applied to the surface of the completed soil cement. The exact rate and temperature of application to give complete coverage

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# **TECHNICAL PROVISIONS**

Sadler Road & U.S. 441 Intersection Improvements Project

### **TP 270- Soil Cement Base (Primed)**

without excessive runoff will be accepted by the Engineer. At the time the bituminous material is applied, the soil cement surface shall be dense, free of all loose and extraneous material, and contain sufficient moisture to prevent penetration of the bituminous material. Water shall be applied in sufficient quantity to fill the surface voids of the soil cement immediately before the bituminous curing material is applied. The bituminous material shall be sanded using a sufficient amount of clean sand to prevent bleeding or traffic pick-up.

#### **M. Construction Joints**

Prior to the beginning of each day's construction, a straight transverse construction joint shall be formed by cutting back into the completed work to form a true vertical face.

#### **N. Thickness**

During various stages of construction test holes or trenches shall be dug in the mixture to determine the thickness. After completing the base, test holes shall be dug or drilled at intervals of not more than 300 feet (closer intervals if necessary) and the thickness of the base shall be determined from measurements made in these test holes.

Where the base is deficient in thickness by more than 1/2 inch, the area of deficient base shall be removed and replaced with base of the required thickness at the Contractor's sole expense. At the Engineer's option such deficient thickness base may be left in place, provided the deficiency is not more than one inch. This deficiency shall be made up in asphaltic concrete, provided the control grades can be maintained. Payment will be made on the basis of full depth soil-cement. No additional payment will be made for asphaltic concrete required to make up deficiencies in soil-cement base thicknesses.

#### **Opening To Traffic**

The Contractor will not be permitted to drive heavy equipment over the completed sections, but light weight pneumatic-tired equipment may be permitted after 24 hours, provided the surface has hardened sufficiently to prevent the equipment's marking the surface and provided the protection and curing specified are not impaired.

#### **Maintenance**

The Contractor shall maintain the base to a true and satisfactory surface until the wearing surface is constructed. Should any repairs or patching be necessary, they shall extend to the full depth of the base and shall be made in a manner that will assure restoration of a uniform base course conforming to the requirements of these specifications. The bituminous curing coating shall be maintained until the wearing surface is constructed.

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Sadler Road & U.S. 441 Intersection Improvements Project

**TP 270- Soil Cement Base (Primed)**

**Inspection**

The Engineer, Geotechnical Engineer and Contractor shall inspect the base for deficiencies after a minimum of seven 7 days have elapsed and prior to applying the asphalt wearing surface. All deficiencies shall be corrected and accepted by the Engineer 48 hours prior to commencing paving operations.

**Method of Measurement**

Quantities measured for payment under this Section shall be the actual area in square yards of soil cement base constructed to limits, thicknesses, lines and grades shown on the plans, completed and accepted.

**Basis of Payment**

Soil Cement Base will be paid for at the contract unit price per square yard completed and accepted. The cost of the cement, prime coat and cover material, including the spreading of each, shall be included in the contract unit price.

Payment shall be made under:

Item No

270-10	Soil Cement Base, (Primed) (10") (300 psi)	Per Square Yard
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Sadler Road & U.S. 441 Intersection Improvements Project

TP 327 – Milling of Existing Asphalt Pavement

**MILLING OF EXISTING ASPHALT PAVEMENT**

Milling of existing asphalt pavement shall be performed in accordance with the requirements of Sections 327 and 300 of the “Standard Specifications”, except as amended herein. The work specified in this Section consists of removing existing asphaltic concrete pavement by milling to lower the finished grade adjacent to existing curb prior to resurfacing, except as directed by the Engineer.

Milled material becomes the property of the Contractor.

**Equipment**

The milling machine shall be capable of maintaining a depth of cut and cross slope that achieves the results specified in the plans and specifications. The overall length of the machine (out to out measurements excluding the conveyor) shall be a minimum of 18 feet. The minimum cutting width shall be 6 feet.

The milling machine shall be equipped with a built-in automatic grade control system that controls the transverse slope and the longitudinal profile to produce the specified results.

Any commercially manufactured milling machine meeting the above requirements shall be accepted prior to starting the project. If after milling has started the milling machine cannot consistently produce the specified results, the milling machine will be rejected for further use.

Equipment permitted when milling adjacent to existing curbs or other areas. Use of a smaller milling machine will be subject to the Engineer’s acceptance, where it is impractical to use the above-described equipment.

The milling machine shall be equipped with means to effectively limit the amount of dust escaping the removal operation.

**Construction**

The Contractor shall remove the existing raised reflective pavement markers prior to milling. Include the cost of removing existing pavement markers in the price for milling.

The milling machine shall be operated to minimize the amount of dust being emitted from the machine. Pre-wetting of the pavement may be required.

Where traffic will be maintained on the milled surface prior to placing the new asphaltic concrete, the striation patterns shall produce an acceptable riding surface. The Engineer will accept the traveling speed of the milling machine to produce an acceptable riding surface.

Before opening a milled area to traffic, the pavement shall be thoroughly swept with power broom or other acceptable equipment to remove, to the greatest extent practicable, fine material, which will dust under traffic. This operation shall be conducted in such a manner that will minimize the potential of creating a traffic hazard and minimize air pollution.

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TP 327 – Milling of Existing Asphalt Pavement

Sweeping the milled surface with a power broom is required before placing asphaltic concrete.

The sweeping operation shall be performed immediately after the milling to prevent milled material infiltrating into the storm sewer system when the milling operation is near a municipal curb and gutter or a closed drainage system.

This operation shall include thoroughly removing all milled material from the gutter to prevent it from being swept into inlet openings or grates. Curbs shall not be damaged during the removal operation. The Engineer may require the equipment and/or methods be changed to achieve satisfactory results.

**Milled Surface**

Milled surfaces shall have a reasonably uniform texture, shall be within ¼ inch of a true profile grade and shall have no deviation in excess of ¼ inch from a straightedge applied to the pavement perpendicular to the centerline. Variations of the longitudinal joint between multiple cut areas shall not exceed ¼ inch. Areas varying from a true surface in excess of the above stated tolerance may be accepted without correction if the Engineer determines that they were caused by a pre-existing condition, which could not have reasonably been corrected by the milling operations. Any unsuitable texture or profile, as determined by the Engineer, shall be corrected by the Contractor at no additional compensation.

The Engineer may require re-milling of any area where a surface lamination causes a non-uniform texture to occur.

**Method of Measurement**

Quantities measured for payment under this Section shall be square yards, of milling acceptably completed.

**Basis of Payment**

Milling Existing Asphalt Pavement will be paid for at the contract unit price per square yard. Payment shall be full compensation for all work specified in this Section, including hauling off or otherwise disposing of the milled material.

**Payment shall be made under:**

ITEM NO. 327-70-8 MILLING EXISTING ASPHALT PAVEMENT (2.5" AVG. DEPTH)  
- PER SQUARE YARD (SY)



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TP 334 – Superpave Asphaltic Concrete Pavement

**SUPERPAVE ASPHALTIC CONCRETE PAVING**

**334-1 GENERAL**

Work specified in this Provision consists of the application of Asphaltic Concrete structural courses properly produced and laid upon a prepared and accepted base in accordance with these specifications and in conformity with the lines, grades, thicknesses and cross-sections provided in the plans. Base preparation and Asphaltic Concrete Friction Courses are covered under separate provisions.

This Provision is intended to stand alone for the production and placement of structural course asphalt and replaces Sections 330 and 334 of the FDOT Standard Specifications for Road and Bridge Construction except when specific references are made to these or other Sections. Any references to FDOT Specification Sections shall mean the latest FDOT Standard Specifications for Road and Bridge Construction, including Supplements. Any incorrect references to or conflicts with the FDOT specifications, test methods, or standards shall be brought to the attention of the Engineer for clarification.

The Engineer will have the right to disapprove of any material or process that does not conform to these specifications.

The Contractor shall document all QC procedures, Process Control, inspection, and all test results and make them available for review by the Engineer throughout the Contract duration.

All test methods designated as FM refer to the FDOT Florida Sampling and Testing Methods.

**334-2 CONTRACTOR QUALITY CONTROL REQUIREMENTS**

**334-2.1 GENERAL:** The Contractor shall be responsible for the overall quality of the materials and workmanship of the work covered under this Provision.

Ensure that the qualifications and certifications of personnel and laboratories are maintained throughout the Contract duration. Provide proof of qualifications and all applicable certifications to the County prior to construction operations commencing. Notify the County immediately when there is a change in any qualification or certification during the Contract duration.

**334-2.2 PERSONNEL:** Provide personnel who are both qualified and certified in all activities related to asphalt mix production at the plant and placement on the roadway, especially for the sampling, testing and inspection of materials and construction activities. At a minimum, a certified Paving Level II technician shall be present on site at all times during paving operations. Provide documentation to the Engineer that the personnel responsible for the production and placement of asphalt products under the Contract are qualified and certified.

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#### TP 334 – Superpave Asphaltic Concrete Pavement

**334-2.3 TESTING LABORATORY:** Furnish or have furnished a fully equipped asphalt laboratory (permanent or portable) at the production site. Provide documentation to the Engineer that any Laboratory used is FDOT qualified and certified. The asphalt producer shall provide a Quality Control (QC) plan which is to be approved by the County.

**334-2.4 EQUIPMENT:** Provide equipment and methods conforming to Section 320 of the FDOT Standard Specifications for Road and Bridge Construction. Provide a sufficient number of trucks to transport the asphalt mixture from the plant to the job site such that paving of each lane can proceed in one smooth uninterrupted operation. In determining the number of trucks required the Contractor shall consider the capacity of the trucks, the length of the approved haul route from the plant to the job site, traffic conditions, weather conditions, and any other factors that could impact the round trip travel time. Stopping the paver to wait for trucks bringing the asphalt mixture will not be acceptable. In addition to meeting the requirements in Section 320-5, the paving machine shall be capable of pushing the asphalt truck as it dumps the asphalt mixture into the hopper. Stopping the paving machine to allow the next asphalt truck to back up to it to fill the hopper is not an acceptable procedure, and shall not be allowed.

Unless otherwise approved by the Engineer, the paving machine shall weigh a minimum of 26,000 pounds.

**334-2.5 MINIMUM QUALITY CONTROL REQUIREMENTS:** Perform the following activities necessary to maintain quality and process control and meet specification requirements:

**Stockpiles:** Ensure each aggregate component is placed in an individual stockpile, and separated from adjacent stockpiles, either by space or by a system of bulkheads. Prevent the intermingling of different materials in stockpiles. Form and maintain stockpiles in a manner that will prevent separation, contamination, segregation, etc. Identify each individual stockpile, including RAP, as shown on the mix design.

**Incoming Aggregate:** Obtain gradations and bulk specific gravity (Gsb) values from aggregate supplier for reference; determine the gradation of all component materials; routinely compare gradations and Gsb values to mix design.

**Cold Bins:** Calibrate the cold gate/feeder belt for each material; determine cold gate/feeder belt settings; observe operation of cold feeder for uniformity.

**Dryer:** Observe pyrometer for aggregate temperature control; observe efficiency of the burner.

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**For Batch Plants:** Determine percent used and weight to be pulled from each bin to assure compliance with Mix Design, check mixing time, and check operations of weigh bucket and scales.

**For Drum Mixer Plants:** Determine aggregate moisture content, and calibrate the weigh bridge on the charging conveyor.

**Control Charts:** Plot and keep charts updated daily for all Quality Control Sampling and Testing and post in the asphalt lab where they can be seen. Maintain the following charts:

1. Sample test results for the following: No. 8 sieve, No. 200 sieve, asphalt binder content, air voids, and density.
2. Gradation of incoming aggregate.
3. Gradation and asphalt content of RAP.
4. Any other test result or material characteristic (as determined by the Contractor) necessary for process control.

The above listed minimum activities are to be considered normal activities necessary to control the production of hot mix asphalt at an acceptable quality level. It is recognized, however, that depending on the type of process or materials, some of the activities listed may not be necessary and in other cases, additional activities may be required. The frequency of these activities will also vary with the process and the materials. When the process varies from the defined process average and variability targets, the frequency of these activities will be increased until the proper conditions have been restored.

#### **334-2.6 MINIMUM PROCESS CONTROL TESTING REQUIREMENTS:**

##### **Asphalt Plant**

1. Hot Mix Asphalt: Determine the asphalt binder content; mix gradation and volumetric properties at a minimum frequency of one per day. In the event that the daily production exceeds 1,000 tons, perform these tests a minimum of two times per day.
2. Aggregate (Including RAP): One sample per 1,000 tons of incoming material as it is stockpiled for gradation. The testing of RAP material shall include the determination of asphalt binder content and gradation of extracted aggregate.

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3. Monitor the mix temperature for the first five loads and every fifth load thereafter.
4. Monitor the aggregate moisture content from stockpiles or combined cold feed aggregate - one per day.
5. Other tests (as determined necessary by the Contractor) for process control.

#### **Roadway**

1. Monitor the mix temperature for the first five loads and at a minimum every fifth load thereafter.
2. Monitor the prime/tack spread rate as needed to control operations and ensure that it meets or exceeds the target spread rate.
3. Monitor the pavement cross slope at a frequency necessary to fulfill the requirements of the plans and section 334-3.10.3 below, and identify a system to control the cross slope of each pavement layer during construction.
4. Monitor the mix spread rate at the beginning of each day's production, and as needed to control the operations, at a minimum of once per 200 tons placed to ensure that the spread rate meets or exceeds the target spread rate. When determining the spread rate, use an average of five truckloads of mix.
5. Monitor mat placement thickness every 25' to ensure the minimum design thickness is met.
6. Monitor the pavement temperature with an infrared temperature device. Monitor the roadway density with either 6 inch diameter roadway cores, a nuclear density gauge, or other density measuring device, at a minimum frequency of once per 1,500 feet of pavement. Maintain daily records of the testing results and make them available for review by the Engineer throughout the life of the Contract.
7. Monitor the pavement smoothness with a 15-foot rolling straightedge as required by section 334-3.10.4 below.

#### **334-3 GENERAL CONSTRUCTION REQUIREMENTS**

##### **334-3.1 DESCRIPTION**

Construct plant-mixed hot bituminous pavements. Establish and maintain a quality control system in accordance with section 334-2 above that provides assurance that

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#### TP 334 – Superpave Asphaltic Concrete Pavement

all materials, products and completed construction submitted for acceptance meet Contract requirements.

#### **334-3.2 LIMITATIONS OF OPERATIONS**

**334-3.2.1 Weather Limitations:** Do not transport asphalt mix from the plant to the roadway unless all weather conditions are suitable for the laying operations.

#### **334-3.2.2 Limitations of Laying Operations:**

**334-3.2.2.1 General:** Spread the mixture only when the surface upon which it is to be laid has been previously prepared, is intact, firm, and properly cured, and is substantially dry. Do not place friction course until the adjacent shoulder area has been dressed and grassed.

**334-3.2.2.2 Temperature:** Spread the mixture only when the air temperature in the shade and away from artificial heat is at least 40°F and rising for layers greater than 1 inch in thickness and at least 45°F and rising for layers 1 inch or less in thickness (including leveling courses). The minimum temperature requirement for leveling courses with a spread rate of 50 lb/yd<sup>2</sup> or less is 50°F and rising.

**334-3.2.2.3 Wind:** Do not spread the mixture when the wind is blowing to such an extent that proper and adequate compaction cannot be maintained or when sand, dust, etc., are being deposited on the surface being paved to the extent that the bond between layers will be diminished.

**334-3.2.2.4 Night Paving:** Provide sufficient lighting for night operations.

#### **334-3.3 ROADWAY SURFACE PREPARATION**

**334-3.3.1 Cleaning:** Prior to the laying of the mixture, clean the surface of the base or pavement to be covered of all loose and deleterious material by the use of a vacuum truck. Power brooms or blowers may be used when the use of a vacuum truck is impractical, supplemented by hand brooming where necessary. Surface must be dry prior to laying of the mixture.

**334-3.3.2 Patching and Leveling Courses:** Where an asphalt mix is to be placed on an existing pavement or old base which is irregular, or wherever the plans indicate, bring the existing surface to proper grade and cross-section by the application of patching or leveling courses. Wherever a patch is required, the width shall be taken out to the full width of each lane affected and the length shall extend far enough longitudinally to fully encompass the affected area. The

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existing pavement receiving a patch or leveling course shall be milled as shown on the plans or as required by the Engineer.

**334-3.3.3 Application Over Surface Treatment:** Where an asphalt mix is to be placed over a newly constructed surface treatment, sweep and dispose of all loose material from the paving area.

**334-3.3.4 Coating Surfaces of Contacting Structures:** Paint all structures which will be in actual contact with the asphalt mixture, with the exception of the vertical faces of existing pavements and curbs or curb and gutter, with a uniform coating of asphalt cement to provide a closely bonded, watertight joint.

#### **334-3.3.5 Tack Coat:**

**334-3.3.5.1 Tack Coat Required:** Apply a tack coat, meeting the requirements of Section 300 in the FDOT Standard Specifications for Road and Bridge Construction, on existing pavement structures that are to be overlaid with an asphalt mix and between successive layers of all asphalt mixes. The use of trackless tack coat listed on FDOT's Approved Product List may be allowed as approved by the Engineer.

**334-3.3.5.2 Tack Coat at Engineer's Option:** Apply a tack coat on the following surfaces only when so directed by the Engineer:

1. Freshly primed bases.
2. Surface treatment.

#### **334-3.4 ASPHALT PLANT PREPARATION**

Ensure the following requirements are met at the asphalt plant:

##### **Asphalt Cement**

- Asphalt cement is delivered to the asphalt plant at a temperature not to exceed 370°F.
- Asphalt cement is maintained in storage within a range of 230 to 370°F in advance of mixing operations.
- Constant heating is maintained within these limits, and that high fluctuations in temperature during a day's production is avoided.

##### **Aggregate Blending:**

- All aggregates to be blended or proportioned are placed in separate bins at the cold hopper.
- Proportioning is performed by means of securely positioned calibrated gates or other approved devices.

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- **Aggregate Cold Bins:**
  - Bin compartments are constructed to prevent any spilling or leakage of aggregate from one bin to another.
  - Bin compartments have the capacity and design to permit a uniform flow of aggregates.
  - Bin compartments are mounted over a feeder of uniform speed, which will deliver the specified proportions of aggregate to the drier.
  - Bins are equipped with vibrators to ensure a uniform flow of aggregate at all times.
  - Each bin compartment is provided with a gate which is adjustable in the vertical direction.
  - Gates can be held securely at any specified vertical opening.
  - Gates are equipped with a measuring device for measuring the vertical opening of the gates from a horizontal plane level with the bottom of the feeder.

#### **Mineral Filler:**

Mineral filler (if required in the mix design) is fed or weighed in separately from the other aggregates.

#### **Aggregate Heating and Drying:**

- Aggregates are heated and dried before screening.
- The temperature of the aggregates is controlled so that the temperature of the completed mixture at the plant falls within the permissible range allowed by this Section.

#### **Aggregate Screening:**

- Oversized pieces of aggregate are removed by the use of a scalping screen.
- Oversized material is not returned to the stockpile for reuse unless it has been crushed

and reprocessed into sizes that will pass the scalping screen.

- The quantity of aggregates being discharged onto the screens does not exceed the capacity of the screens to actually separate the aggregates into the required sizes.
- A maximum of 10% plus-10 material in the minus-10 bin is maintained.

#### **334-3.5 MIXTURE PREPARATION**

Ensure the following requirements are met:



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**334-3.5.1 Batch Mixing:** The dried aggregates and mineral filler (if required), prepared as specified and proportioned to meet the verified mix design, shall be conveyed to the empty mixer. The accurately measured hot asphalt binder shall be introduced into the mixer simultaneously with, or after, the hot aggregates. The blended materials shall be continuously mixed until thoroughly uniform with all particles fully coated. The mixing time begins when the measuring devices for both the asphalt and the aggregates indicate that all the material is in the mixer, and continues until the material begins to leave the mixing unit. In no case will the mixing time be less than 35 seconds.

**334-3.5.2 Continuous Mixing:** The dried aggregates and mineral filler (if required), prepared as specified and proportioned to meet the verified mix design, shall be introduced into the mixer in synchronization with the accurate feeding of the hot asphalt cement. The blended materials shall be sufficiently mixed until thoroughly uniform with all particles fully coated.

**334-3.5.3 Mix Temperature:** The ingredients of the mix shall be heated and combined in such a manner as to produce a mixture with a temperature, when discharged from the pugmill or surge bin, which is within the master range as defined below.

The temperature of the completed mixture shall be determined using a quick-reading thermometer through a hole in the side of the loaded truck immediately after loading. A 1/4 inch hole on both sides of the truck body within the middle third of the length of the body, and at a distance from 6 to 10 inches above the surface supporting the mixture shall be provided.

The normal frequency for taking asphalt mix temperatures will be for each day, for each design mix on the first five loads and once every five loads thereafter. The temperature of the asphalt mix at the plant and at the roadway shall be taken at the normal frequency before the mix is placed. The temperature shall be recorded on the front of the respective delivery ticket. The Engineer shall review the plant and roadway temperature readings and may take additional temperature measurements at any time.

The master range for all mix designs will be the established temperature from the mix design  $\pm 30^{\circ}\text{F}$ . Reject for use on the project any load or portion of a load of asphalt mix at the plant or at the roadway with a temperature outside of this master range. The Engineer will be immediately notified of the rejection.

If any single load at the plant or at the roadway is within the master range but differs from the established mix temperature by more than  $\pm 25^{\circ}\text{F}$  or if the average difference of

the temperature measurements from the established mix temperature for five loads exceeds  $\pm 15^{\circ}\text{F}$ , the temperature of every load will be monitored until the

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#### TP 334 – Superpave Asphaltic Concrete Pavement

temperature falls within the specified tolerance range in Table 334-1; at this time the normal frequency may be resumed.

#### **Table 334-1**

#### **Temperature Tolerance From Verified Mix Design**

Any Single Measurement

±25°F

Average of Any Five Consecutive Measurements

±15°F

**334-3.5.4 Maximum Period of Storage:** The maximum time that any mix may be kept in a hot storage or surge bin shall be 72 hours.

**334-3.5.5 Contractor's Responsibility for Mixture Requirements:** Produce a homogeneous mixture, free from moisture and with no segregated materials, that meets all specification requirements. Also apply these requirements to all mixes produced by the drum mixer process and all mixes processed through a hot storage or surge bin, both before and after storage.

#### **334-3.6 MIXTURE TRANSPORT**

Transport the mixture in tight vehicles previously cleaned of all foreign material. After cleaning, thinly coat the inside surface of the truck bodies with soapy water or an asphalt release agent as needed to prevent the mixture from adhering to the beds. Do not allow excess liquid to pond in the truck body. Do not use diesel fuel or any other hazardous or environmentally detrimental material as a coating for the inside surface of the truck body. Cover each load during transport from the asphalt plant to the jobsite at all times.

#### **334-3.7 MIXTURE PLACEMENT**

##### **334-3.7.1 Requirements Applicable to All Mixture Types:**

**334-3.7.1.1 Alignment of Edges:** Lay all asphalt concrete mixtures, including leveling courses, other than the pavement edge just adjacent to curb and gutter or other true edges, by the stringline method to obtain an accurate, uniform alignment of the pavement edge. Control the unsupported pavement edge to ensure that it will not deviate more than ±1.5 inches from the stringline.

**334-3.7.1.2 Temperature of Spreading:** Maintain the temperature of the mix at the time of spreading within the master range as defined in 334-3.5.3.

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**334-3.7.1.3 Rain and Surface Conditions:** Immediately cease transportation of asphalt mixtures from the plant when rain begins at the roadway. Do not place asphalt mixtures while rain is falling, or when there is standing water on the surface to be covered. Once the rain has stopped and water has been removed from the tacked surface to the satisfaction of the Engineer and the temperature of the mixture caught in transit still meets the requirements as specified in 334-3.7.1.2, the Contractor may then place the mixture caught in transit.

**334-3.7.1.4 Speed of Paver:** Establish the forward speed of the asphalt paver based on the rate of delivery of the mix to the roadway but not faster than the optimum speed needed to adequately compact the pavement.

**334-3.7.1.5 Automatic Screed Control:** For all asphalt courses placed with an asphalt paver, equip the paver with automatic longitudinal screed controls of either the skid type, traveling stringline type, or non-contact averaging ski type with a minimum length of 25 feet. On the final layer of asphalt base, overbuild, and structural courses, and for friction courses, use the joint matcher in lieu of the skid, traveling stringline, or non-contact averaging ski on all passes after the initial pass. Equip the asphalt paver with electronic cross slope controls.

**334-3.7.1.6 Number of Crews Required:** For each paving machine operated, use a separate crew, each crew operating as a full unit. The technician who will be in charge of all paving operations shall be state approved and properly certified as deemed appropriate by the Engineer. The Contractor's technician in charge of the paving operations may be responsible for more than one crew but must be physically accessible to the Engineer at all times when placing mix.

**334-3.7.1.7 Checking Depth of Layer:** Check the depth of each layer at frequent intervals, and make adjustments when the thickness deviates from the design thickness. When making an adjustment, allow the paving machine to travel a minimum distance of 32 feet to stabilize before the second check is made to determine the effects of the adjustment.

**334-3.7.1.8 Hand Spreading:** In limited areas where the use of the spreader is impossible or impracticable, the Contractor may spread and finish the mixture by hand.

**334-3.7.1.9 Straightedging and Back-patching:** Straightedge and backpatch after obtaining initial compaction and while the material is still hot.

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##### **334-3.7.2 Requirements Applicable to Courses Other Than Leveling:**

**334-3.7.2.1 Spreading and Finishing:** Upon arrival, dump the mixture in the approved mechanical spreader, and immediately spread and strike-off the mixture to the full width required, and to such loose depth for each course that, when the work is completed, the required specified thickness is placed. Carry a uniform amount of mixture ahead of the screed at all times.

**334-3.7.2.2 Thickness of Layers:** Construct each course of Type SP mixture in layers of thickness as shown in Section 334-4.1.3.

**334-3.7.2.3 Laying Width:** For regular roadways, pave to the full lane width, except in areas where physically constrained. For other applications such as sidewalks, provide a spreader capable of placing and screeding to the plan width. If necessary due to the traffic requirements, lay the mixture in strips in such a manner as to provide for the passage of traffic. As an option, where the road is closed to traffic, lay the mixture to the full width with machines traveling in echelon. Plan longitudinal joints such that they are not placed where a permanent wheel path will occur.

**334-3.7.2.4 Correcting Defects:** Before starting any rolling, check the surface. Correct any irregularities; remove all drippings, fat sandy accumulations from the screed, and fat spots from any source; and replace them with satisfactory material. Do not skin patch. When correcting a depression while the mixture is hot, scarify the surface and add fresh mixture.

##### **334-3.7.3 Requirements Applicable Only to Leveling Courses:**

**334-3.7.3.1 Patching Depressions:** Before spreading any leveling course, fill all depressions in the existing surface more than 1 inch deep by spot patching with leveling course mixture, and then compact them thoroughly.

**334-3.7.3.2 Spreading Leveling Courses:** Place all courses of leveling by the use of two motor graders, equip one with a spreader box. Other types of leveling devices may be used if approved by the Engineer.

**334-3.7.3.3 Rate of Application:** When using Type SP-9.5 (fine graded) for leveling, do not allow the average spread of a layer to be less than 50 lb/yd<sup>2</sup> or more than 75 lb/yd<sup>2</sup>. The quantity of mix for leveling shown in the plans represents the average for the entire project.

#### **334-3.8 MIXTURE COMPACTION**

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**334-3.8.1 Equipment and Sequence:** For each paving or leveling train in operation, furnish a separate set of rollers, with their operators.

Select equipment, sequence, and coverage of rolling to meet the specified mix design density. The coverage is the number of times the roller passes over a given area of pavement.

Regardless of the rolling procedure used, complete the final rolling before the surface temperature of the pavement drops to the extent that effective compaction may not be achieved or the rollers begin to damage the pavement.

**334-3.8.2 Standard Rolling Procedure:** Meet the following equipment, sequence, and coverage requirements:

1. Seal Rolling: Provide two coverages with a tandem steel-wheeled roller, weighing 5 to 12 tons, following as close behind the spreader as possible without pick-up, undue displacement, or blistering of the material. Use static mode only for all compaction. No vibration will be allowed.
2. Intermediate rolling: Provide five coverages with a self-propelled pneumatic-tired roller, following as close behind the seal rolling operation as the mix will permit.
3. Final rolling: Provide one coverage with a tandem steel-wheeled roller (static mode only), weighing 5 to 12 tons, after completing the seal rolling and intermediate rolling, but before the surface pavement temperature drops to the extent that effective compaction may not be achieved or the rollers begin to damage the pavement.

For patching and leveling courses, the first structural layer placed on a milled surface, and on the first overbuild course, use only a self-propelled pneumatic-tired roller.

The Contractor may use equipment, sequences, or coverages other than those specified in the standard rolling procedure if so authorized by the Engineer.

**334-3.8.3 Compaction at Crossovers, Intersections, etc.:** When using a separate paving machine to pave the crossovers, compact the crossovers with one, 8 to 12 ton tandem steel roller (static mode only). If placing crossovers, intersections, and acceleration and deceleration lanes with the main run of paving, also use a traffic roller to compact these areas.

**334-3.8.4 Rolling Procedures:** Ensure that the initial rolling is longitudinal.

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Where the lane being placed is adjacent to a previously placed lane, pinch or roll the center joint prior to the rolling of the rest of the lane.

Roll across the mat, overlapping the adjacent pass by at least 6 inches. Roller passes should end at approximate 45° angles to the pavement centerline. Roll slowly enough to avoid displacement of the mixture, and correct any displacement at once by the use of rakes and the addition of fresh mixture if required.

Continue final rolling to eliminate all roller marks.

**334-3.8.5 Number of Pneumatic-tired Rollers Required:** Use a sufficient number of self-propelled pneumatic-tired rollers to ensure that the rolling of the surface for the required number of passes does not delay any other phase of the laying operation and does not result in excessive cooling of the mixture before completing the rolling. In the event that the rolling falls behind, discontinue the laying operation until the rolling operations are sufficiently caught up.

**334-3.8.6 Compaction of Areas Inaccessible to Rollers:** Use hand tamps or other satisfactory means to compact areas which are inaccessible to a roller, such as areas adjacent to curbs, headers, gutters, bridges, manholes, etc.

**334-3.8.7 Correcting Defects:** Do not allow the rollers to deposit gasoline, oil, or grease onto the pavement. Remove and replace any areas damaged by such deposits as directed by the Engineer. While rolling is in progress, test the surface continuously, and correct all discrepancies to comply with the surface requirements.

Remove and replace all drippings, fat or lean areas, and defective construction of any description. Remedy depressions that develop before completing the rolling by loosening the mixture and adding new mixture to bring the depressions to a true surface. Should any depression remain after obtaining the final compaction, remove the full depth of the mixture, and replace it with sufficient new mixture to form a true and even surface.

Correct all high spots, high joints, and honeycombing as directed by the Engineer.

Remove and replace any mixture remaining unbonded after rolling. Correct all defects prior to laying the subsequent course.

#### 334-3.9 JOINTS

**334-3.9.1 General:** When laying fresh mixture against the exposed edges of joints (trimmed or formed as provided below), place it in close contact with the exposed edge to produce an even, well-compacted joint after rolling.

**334-3.9.2 Transverse Joints:** Place the mixture as continuously as possible. Do not pass the roller over the unprotected end of the freshly laid mixture except

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when discontinuing the laying operation long enough to permit the mixture to become chilled.

When thus interrupting the laying operation, construct a transverse joint by cutting back on the previous run to expose the full depth of the mat.

**334-3.9.3 Longitudinal Joints:** For all layers of pavement except the leveling course, place each layer so that longitudinal construction joints are offset 6 to 12 inches laterally between successive layers. The Engineer may waive this requirement where offsetting is not feasible due to the sequence of construction.

#### **334-3.10 SURFACE REQUIREMENTS**

**334-3.10.1 General:** Construct a smooth pavement with good surface texture and the proper cross-slope.

**334-3.10.2 Texture of the Finished Surface of Paving Layers:** Produce a finished surface of uniform texture and compaction with no pulled, torn, raveled, crushed or loosened portions and free of segregation, bleeding, flushing, sand streaks, sand spots, or ripples. Correct any area of the surface that does not meet the foregoing requirements in accordance with 334-3.10.5.

Do not use asphalt concrete mixtures containing aggregates that cause a different color appearance in the final wearing surface in sections less than 1 mile in length and across the full width of the roadway unless approved by the Engineer.

**334-3.10.3 Cross Slope:** Construct a pavement surface with cross slopes in compliance with the requirements of the Contract Documents. Furnish a level with a minimum length of 4 feet or a digital measuring device approved by the Engineer for the control of cross slope. Make this level or measuring device available at the jobsite at all times during paving operations. Utilize electronic transverse screed controls on the paving machine (unless directed otherwise by the Engineer) to obtain an accurate transverse slope of the pavement surface.

**334-3.10.3.1 Quality Control Checks:** Measure the cross slope of the pavement surface by placing the measuring device perpendicular to the roadway centerline. Report the cross slope to the nearest 0.1%. Record all the measurements on an approved form and submit to the Engineer for documentation. The cross slope report shall be submitted to the Engineer prior to the next scheduled paving operation.

Measure the cross slope at a minimum frequency of one measurement every 100 feet during paving operations to ensure that the cross slope is uniform and in compliance with the design cross slope. When the difference



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between the measured cross slope and the design cross slope exceeds  $\pm 0.2\%$  for travel lanes (including turn lanes) or  $\pm 0.5\%$  for shoulders, make all corrections immediately to bring the cross slope into the acceptable range.

When the cross slope is consistently within the acceptable range, upon the approval of the Engineer, the frequency of the cross slope measurements can be reduced to one measurement every 250 feet during paving operations.

For intersections, tapers, crossovers, transitions at beginning and end of project and similar areas, adjust the cross slope to match the actual site conditions or as directed by the Engineer.

**334-3.10.4 Pavement Smoothness:** Construct a smooth pavement meeting the requirements of this Specification. The County will provide a representative to be present when smoothness testing is performed.

**334-3.10.4.1 General:** Furnish a 15 foot manual and a 15 foot rolling straightedge meeting the requirements of FM 5-509. Make them available at the job site at all times during paving operations. Obtain a smooth surface on all pavement courses placed, and then straightedge all final structural and friction course layers in accordance with 334-3.10.4.5.

**334-3.10.4.2 Test Method:** Perform all straightedge testing in accordance with FM 5-509 with one pass of the rolling straightedge operated along the outside wheel path of each lane being tested. The Engineer may require additional testing at other locations within the lane.

**334-3.10.4.3 Traffic Control:** Provide traffic control in accordance with 334-3.2 and FDOT Design Standard Plans (102 series as applicable) during all testing. When traffic control cannot be provided in accordance with the applicable indices, submit an alternative Traffic Control Plan. The cost of this traffic control is included in the Contract bid prices for other pay items.

#### **334-3.10.4.5 Quality Control Checks:**

**334-3.10.4.5.1 General:** Straightedge the final Type SP structural layer and friction course layer with a rolling straightedge. Test all pavement lanes and ramps where the width is constant using a rolling straightedge and document all deficiencies on a form approved by the Engineer. Notify the Engineer of the location and time of all straightedge checks a minimum of 48 hours before beginning. Testing shall be conducted by a certified Paving Level I or higher technician. Maintain a field record during testing on a form approved by the Engineer identifying the areas tested and listing the location and degree of all deficiencies found. The

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field record shall be signed by the technician conducting the test and the Engineer or Engineer's Representative observing the test.

**334-3.10.4.5.2 Rolling Straightedge Exceptions:** Testing with the rolling straightedge will not be required in the following areas: intersections, tapers, crossovers, parking lots and similar areas. In addition, testing with the rolling straightedge will not be performed on the following areas when they are less than 50 feet in length: turn lanes, acceleration/deceleration lanes and side streets. However, correct any individual surface irregularity in these areas that deviates from the plan grade in excess of 3/8 inch as determined by a 15 foot manual straightedge, and that the Engineer deems to be objectionable, in accordance with 334-3.10.5.

In addition, the Engineer may also waive the straightedging requirements on ramps and superelevated sections where the geometrical orientation of the pavement results in an inaccurate measurement with the rolling straightedge.

**334-3.10.4.5.3 Intermediate Layers:** Straightedge all intermediate Type SP layers (structural and overbuild) as necessary to construct a smooth pavement.

On roadways with a design speed 50 miles per hour or greater, when an intermediate Type SP layer will be opened to traffic, straightedge the pavement with a rolling straightedge and correct all deficiencies in excess of 3/8 inch within 72 hours of placement, unless directed otherwise by the Engineer. Correct all deficiencies in accordance with 334-3.10.5.

**334-3.10.4.5.4 Final Type SP Structural Layer:** Straightedge the final Type SP structural layer with a rolling straightedge, either behind the final roller of the paving train or as a separate operation. The Engineer will verify the straightedge testing by observing the Quality Control straightedging operations. Correct all deficiencies in excess of 3/16 inch in accordance with 334-3.10.5, and retest the corrected areas prior to placing the friction course.

For bicycle paths, straightedge the final structural layer with a rolling straightedge, either behind the final roller of the paving train or as a separate operation. Correct all deficiencies in excess of 5/16 inch in accordance with 334-3.10.5. Retest all corrected areas. If the Engineer determines that the deficiencies on the bicycle path are due to field geometrical conditions, the Engineer will waive corrections.

**334-3.10.4.5.5 Friction Course Layer:** Acceptance for pavement smoothness will be based on verified Quality Control measurements using

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the rolling straightedge. The Engineer will verify the straightedge testing by observing the Quality Control straightedging operations.

At the completion of all paving operations, straightedge the friction course as a separate operation. As an exception, if approved by the Engineer, straightedge the friction course behind the final roller of the paving train. Correct all deficiencies in excess of 3/16 inch in accordance with 334-3.10.5. Recheck all corrected areas.

**334-3.10.5 Correcting Unacceptable Pavement:** Correct all areas of unacceptable pavement at no cost to the County. Correct deficiencies in the Type SP structural layers or in the friction course by removing and replacing the full depth of the layer, extending for a distance on either side of the defective area as determined by the Engineer, but in no case less than 50 feet on either side of the defective area for the full width of the paving lane. At the discretion of the Engineer, removal and replacement of the entire limits of the new pavement may be required.

#### **334-3.11 FINISHED SURFACE PROTECTION**

Keep sections of newly compacted asphalt concrete, which are to be covered by additional courses, clean until the successive course is laid.

Do not dump embankment or base material directly on the pavement. Dress shoulders before placing the friction course on adjacent pavement.

Equip blade graders operating adjacent to the pavement during shoulder construction with a 2 by 8 inch or larger board, or other attachment providing essentially the same results, attached to their blades in such manner that it extends below the blade edge in order to protect the pavement surface from damage by the grader blade.

To prevent rutting or other distortion, protect sections of newly finished dense graded friction course and the last structural layer prior to the friction course from traffic until the surface temperature has cooled below 160°F.

The Contractor may use artificial methods to cool the pavement to expedite paving operations. The County may direct the Contractor to use artificial cooling methods when maintenance of traffic requires opening the pavement to traffic at the earliest possible time.

#### **334-3.12 STRIPING**

Following final cooling and compaction of the mat and prior to opening to traffic, place temporary painted traffic stripes in accordance with TP-710 and Standard Specification 710 on each paved surface that will receive traffic, including intermediate structural courses, final structural courses that will serve as the surface course, and friction courses. Following thirty (30) days after placement of the final surface course, structural or friction, place thermoplastic striping in accordance with TP-711 and Standard Specification 711 and place raised reflective pavement markers.

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Final pavement markings are subject to a 180 day observation period under normal traffic. The observation period shall begin with the satisfactory completion and acceptance of the work. The pavement markings shall show no signs of failure due to blistering, excessive cracking, chipping, discoloration, poor adhesion to the pavement, loss of reflectivity or vehicular damage. The County reserves the right to check the color and retroreflectivity within 30 days prior to the end of the observation period. Replace, at no additional expense to the County, any pavement markings that do not perform satisfactorily under traffic during the 180 day observation period.

**334-4 SUPERPAVE ASPHALTIC CONCRETE**

**334-4.1 DESCRIPTION**

**334-4.1.1 General:** Construct a Superpave Asphaltic Concrete pavement using the type of mixture specified in the Contract on a properly prepared and accepted base. Superpave mixes are identified as Type SP-9.5, Type SP-12.5 or Type SP-19.0.

Meet the requirements of 334-2 for personnel, plant, methods and equipment. Meet the general construction requirements of 334-3.

**334-4.1.2 Traffic Levels:** The requirements for Type SP Asphaltic Concrete mixtures are based on the design traffic level of the project, expressed in 18-Kip Equivalent Single Axle Loads (ESAL's). The traffic levels applicable for this specification are as shown in Table 1.

<b>Traffic Level</b>	<b>Million ESAL's</b>	<b>Typical Applications</b>
A	<0.3	Local roads, county roads, and city streets where truck traffic is light or prohibited
B	0.3 to <3	Arterial roads, Collector roads, access streets, medium duty city streets and the majority of county roadways
C	3 to < 10	

The traffic level(s) for the project are as specified in the Contract. A Type SP mix one traffic level higher than the traffic level specified in the Contract, up to a Traffic Level C mix, may be substituted at no cost to the County. In situations where the design traffic level is not specified in the Contract, a Traffic Level C mix shall be used.

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**334-4.1.3 Layers:** Use only fine graded Superpave mixes.

**334-4.1.3.1 Layer Thickness:** The allowable structural layer thicknesses for fine Type SP Asphaltic Concrete mixtures are as follows:

Type SP-9.5.....	1 1/4 – 1 1/2 inches
Type SP-12.5.....	1 1/2 – 2 1/2 inches
Type SP-19.0.....	2- 3 inches

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

- Type SP-9.5 - Limited to the top two structural layers, two layers maximum.
- Type SP-12.5 --May be used in multiple lifts.
- Type SP-19.0 - May not be used in the final (top) structural layer.

**334-4.1.3.2 Additional Requirements:** The following requirements also apply to fine Type SP Asphaltic Concrete mixtures:

**334-4.1.3.2.1** When construction includes the paving of adjacent shoulders ( $\leq 5$  feet wide), the layer thickness for the upper pavement layer and shoulder shall be the same and paved in a single pass, unless called for differently in the contract documents.

**334-4.1.3.2.2** All overbuild layers shall be Type SP Asphalt Concrete designed at the traffic level as stated in the Contract. Use the minimum and maximum layer thicknesses as specified above unless called for differently in the contract documents. On variable thickness overbuild layers, the minimum allowable thickness may be reduced by 1/4 inch, and the maximum allowable thickness may be increased 1/2 inch, unless called for differently in the contract documents.

**334-4.2 MIX COMPOSITION**

**334-4.2.1 General:** Compose the asphalt mixture using a combination of aggregates (coarse, fine or mixtures thereof), mineral filler, if required, and asphalt binder material. Size, grade and combine the aggregate proportions to meet the grading and physical properties of the approved mix design. Aggregates from various sources may be combined.

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**334-4.2.2 Mix Design:** Submit to the Engineer the proposed mix design and proof that this mix design is on the FDOT District 5 accepted list. The Engineer will verify with the FDOT District 5 Bituminous Engineer that the mix is on the approved list. No mix design revisions will be allowed. A new design mix will be required for any substitution of an aggregate product, binder, or other design component unless approved by the Engineer. The Engineer will consider any marked variations from mix design parameters or any evidence of inadequate field performance of a mix design as sufficient evidence that the properties of the mix design have changed, and the Engineer will no longer allow the use of that mix design. Provide certification from the plant (either in a statement on the delivery ticket or on a separate sheet) that the mix provided is in conformance with the design mix.

Only currently pre-approved FDOT asphalt mix designs are accepted. No mix design revisions will be allowed without prior approval from the Engineer. Provide certification from the plant (either in a statement on the delivery ticket or on a separate sheet) that the mix provided is in conformance with the design mix.

**334-4.2.3 Additional Information:** Provide the following information to the Engineer with each FDOT approved mix design submitted for use:

- The approved FDOT Mix Design Number.
- The design traffic level and the design number of gyrations ( $N_{\text{design}}$ ).
- The source and description of the materials to be used.
- The FDOT source number product code of the aggregate components furnished from an FDOT approved source.
- The gradation and proportions of the raw materials as intended to be combined in the paving mixture. The gradation of the component materials shall be representative of the material at the time of use. Compensate for any change in aggregate gradation in handling and processing as necessary.
- A single percentage of the combined mineral aggregate passing each specified sieve. Degradation of the aggregate due to processing (particularly -No. 200 [-75  $\mu\text{m}$ ]) should be accounted for and identified for the applicable sieves.
- The bulk specific gravity value for each individual aggregate (and RAP) component, as identified in the FDOT aggregate control program.
- A single percentage of asphalt binder by weight of total mix intended to be incorporated in the completed mixture, shown to the nearest 0.1%.
- A target temperature at which the mixture is to be discharged from the plant and a target roadway temperature. Do not exceed a target temperature of 340°F for modified asphalts and 315°F for unmodified asphalts.

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- The physical properties achieved at four different asphalt binder contents, one of which shall be at the optimum asphalt content, and must conform to all specified physical requirements.
- The ignition oven calibration factor.

**334-4.3 MATERIALS**

**334-4.3.1 General Requirements:** Meet the material requirements specified in Division III of the FDOT Standard Specifications for Road and Bridge Construction. Specific references are as follows:

Coarse Aggregate: Stone, Slag, Crushed Gravel, Crushed Reclaimed Portland Cement Concrete Pavement, Crushed Glass.....	Section 901
Fine Aggregate.....	Section 902
Superpave PG Asphalt Binder .....	Section 916-1

**334-4.3.2 Superpave Asphalt Binder:** Unless specified otherwise in the Contract, use a PG 58-22 or PG 67-22 asphalt binder unless the use of a different binder or recycling agent has been approved by the Florida Department of Transportation and the Engineer for a particular mix design.

**334-4.3.3 Use of Reclaimed Asphalt Pavement (RAP) Material:**

**334-4.3.3.1 General Requirements:** Reclaimed Asphalt Pavement (RAP) may be used as a component material of the asphalt mixture, with the exception of Friction Course mixes, subject to the following requirements:

- Assume responsibility for the production and placement of asphalt mixes which incorporate RAP as a component material.
- Use only RAP that has been approved by the FDOT. Provide documentation of the FDOT approval.
- Limit the amount of RAP material used in the mix to a maximum of 30% by weight of total aggregate, unless otherwise approved the Engineer.
- Use any suitable means to prevent oversized RAP material from showing up in the completed recycled mixture. Take immediate corrective action if oversized RAP material appears in the completed recycled mix.
- Provide stockpiled RAP material that is reasonably consistent in characteristics and contains no aggregate particles which are soft or conglomerates of fines.



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- Provide RAP having a minimum average asphalt content of 4.0% by weight. The Engineer may sample the stockpile to verify that this requirement is met.

#### **334-4.4 ACCEPTANCE**

**334-4.4.1 General:** The asphalt mixture at the plant and on the roadway will be accepted based on the following methods:

**334-4.4.2 Certification by the Contractor:** Submit a Notarized Certification of Specification Compliance letter by an officer of the company who is in responsible charge of paving operations. The letter shall be submitted on company letterhead to the Engineer and shall state that all material produced and placed on the project was in substantial compliance with the Specifications.

**334-4.4.3 Contractor Process Control Testing:** Provide supporting test data documenting all quality and process control testing as described in 334-2 above. A pre-qualified Independent Laboratory as approved by the Engineer may be utilized for the Process Control testing.

**334-4.4.4 Acceptance Testing by the Engineer:** The Engineer may employ the use of a pre-qualified Independent Geotechnical Engineering firm and/or Laboratory that is approved to perform asphalt testing (paving and plant) to perform acceptance testing. For every 500 feet of pavement placed per lane per day, take a set of three (3) randomly placed cores, six (6) inches in diameter, for determining density and thickness. A minimum of two sets of three cores will be taken per roadway. Acceptance will be based on the following:

#### **Roadway Sampling and Testing Requirements**

**334-4.4.4.1 Density:** The minimum acceptable average density for each course of asphaltic concrete placed shall be ninety-two (92%) percent of the design unit weight ( $G_{mm}$ ) of the job mix, with no test lower than ninety and eight tenths (90.8%) percent or higher than ninety-five (95%) percent.

**334-4.4.4.2 Thickness:** Meet the minimum design thickness on all cores. When a deficiency in thickness is found, the Engineer may require additional cores to be taken to determine the extent of the thickness deficiency. For any thickness that is less than the design thickness, remove and replace the full depth of the layer, extending for a distance on either side of the defective area as determined by the Engineer, but in no case less than 50 feet on either side

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of the defective area for the full width of the paving lane. At the discretion of the Engineer, removal and replacement of the entire limits of the new pavement may be required. For any thickness that is greater than the design thickness, the Engineer will make a determination about acceptance.

**334-4.4.4.3 Surface Tolerance:** The asphalt mixture will be accepted on the roadway with respect to surface tolerance in accordance with the applicable requirements of 334-3.10.

**334-4.4.4.4 Additional Tests:** The County reserves the right to run any test at any time for informational purposes and for determining the effectiveness of the Contractor's quality control and process control.

#### **Asphalt Plant Testing Requirements**

**334-4.4.4.5 Sampling and Testing Requirements:** Obtain the samples in accordance with FM 1-T 168. Obtain samples at the plant of a sufficient quantity to be split into three smaller samples; one for QC, one for Verification testing and one for Resolution testing; each sample at approximately 35 pounds. The split samples for Verification testing and Resolution testing shall be reduced in size and stored in three boxes each. The approximate size of each box must be 12 inches x 8 inches x 4 inches. Provide, label and safely store sample boxes in a manner agreed upon by the Engineer for future testing.

The asphalt content of the mixture will be determined in accordance with FM 5-563. The gradation of the recovered aggregate will be determined in accordance with FM 1-T 030. Volumetric testing will be in accordance with AASHTO T 312-12 and FM 1-T 209. Prior to testing volumetric samples, condition the test-sized sample for one hour, plus or minus five minutes, at the target roadway compaction temperature in a shallow, flat pan, such that the mixture temperature at the end of the one hour conditioning period is within plus or minus 20°F of the roadway compaction temperature. Test for roadway density in accordance with FM 1-T 166.

Obtain one random sample of mix per subplot in accordance with this section as directed by the Engineer. Test the QC split sample for gradation, asphalt binder content and volumetrics in accordance with this section. Complete all QC testing within one working day from the time the samples were obtained. A "subplot" is defined as a 500-ton sample.

The sample shall meet the requirements of Table 334-4

Table 334-4 Master Production Range	
Characteristic	Tolerance <sup>1</sup>
Asphalt Binder Content (%)	Target +/- 0.55
Passing No. 200 Sieve (%)	Target +/- 1.50
Air Voids (%)	2.30 – 6.00
Density (minimum % G <sub>mm</sub> ) <sup>2</sup>	89.50
(1) Tolerances for sample size of n=1 from the verified mix design	
(2) Based on an average of 5 randomly located cores	

At the completion of each LOT, the Engineer will test a minimum of one Verification split sample randomly selected from the LOT. Results of the testing and analysis for the LOT will be made available to the Contractor within one working day from the time the LOT is completed. Verification samples shall be reheated at the target roadway compaction temperature for 1-1/2 hours, plus or minus 5 minutes, reduced to the appropriate testing size, and conditioned and tested as described in this section. In lieu of the 1-1/2 hours reheating procedure, the mixture may be reheated to within plus or minus 20°F of the roadway compaction temperature using a microwave oven. Stir the mixture as necessary during the reheating process to maintain temperature uniformity. Subsequently, condition and test the mixture as described in this section. The Verification test results will be compared with the QC test results based on the between-laboratory precision values shown in Table 334-5. A “LOT” is defined as 2000-ton sample.

### **Resolution Testing**

**334-4.4.4.6 Plant Samples:** In the event of an unfavorable comparison between the Contractor’s QC test results and the Engineer’s Verification test results on any of the properties identified in Table 334-5, the Resolution laboratory will test all of the split samples from the LOT for only the property (or properties) in question. Resolution samples shall be reheated at the target roadway compaction temperature for 1-1/2 hours, plus or minus 5 minutes, reduced to the appropriate testing size, and conditioned and tested as described in 334-4.4.4.5. In lieu of the 1- 1/2 hours reheating procedure, the mixture may be reheated to within plus or minus 20°F of the roadway compaction temperature using a microwave oven. Stir the mixture as necessary during the reheating process to maintain temperature uniformity. Subsequently, condition and test the mixture as described in 334-4.4.4.5.

**334-4.4.4.7 Resolution Determination:** The Resolution test results (for the property or properties in question) will be compared with the QC test results based on the between-laboratory precision values shown in Table 334-5.

If the Resolution test results compare favorably with all of the QC results, then acceptance and payment for the LOT will be based on the QC results, and the Department will bear the costs associated with Resolution testing. No additional compensation, either monetary or time, will be made for the impacts of any such

testing.

If the Resolution test results do not compare favorably with all of the QC results, then acceptance and payment for the LOT will be based on the Resolution test data for the LOT, and the costs of the Resolution testing will be deducted from monthly estimates. No additional time will be granted for the impacts of any such testing.

In the event of an unfavorable comparison between the Resolution test results and QC test results, make the necessary adjustments to assure that future comparisons are favorable.

Property	Maximum Difference
$G_{mm}$	0.016
$G_{mb}$ (gyratory compacted samples)	0.022
$G_{mb}$ (roadway cores)	0.014
$P_b$	0.44%
P-200	FM 1-T 030 (Figure 2)
P-8	FM 1-T 030 (Figure 2)

#### 334-4.5 METHOD OF MEASUREMENT

For the work specified under this Section the quantity to be paid for shall be the actual area in Square Yards (SY) of asphaltic concrete placed and accepted, with the exception of Overbuild, for which the quantity to be paid for shall be tons of asphaltic concrete, placed and accepted, within the limits of the contract.

#### 334-4.6 BASIS OF PAYMENT

Type SP Asphaltic Concrete will be paid for at the contract unit price per square yard, completed and accepted, with the exception of Overbuild, which will be paid for at the contract unit price per ton, completed and accepted. No additional payment will be made for thickness of asphalt greater than the design thickness.

The bid price for the asphalt mix will include the cost of the liquid asphalt or the asphalt recycling agent. There will be no separate payment for the asphalt binder material in the asphalt mix.

Payment shall be made under:

- |                   |  |
|-------------------|--|
| Item No. 334-1-13 | Superpave Asphaltic Concrete, (Traffic C) (1") (SP-12.5) – per square yard (SY)      |
| Item No. 334-2-24 | Superpave Asphaltic Concrete, (Traffic C) (3-1/2") (SP-12.5) - per square yard (SY). |

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#### **TP 337 – Superpave Asphaltic Concrete Friction Courses**

#### **SUPERPAVE ASPHALTIC CONCRETE FRICTION COURSES**

##### **337-1 DESCRIPTION**

337-1.1 General: Construct a Superpave Asphaltic Concrete Friction Course pavement using the type of mixture specified in the Contract. Superpave Friction Course mixes are identified as Type FC-5, FC-9.5 and FC-12.5. Meet the requirements of TP 334-2 for personnel, plant, methods and equipment. Meet the general construction requirements of TP 334-3.

337-1.2 Thickness: The thickness of the friction course layer will be the plan thickness as shown in the plans per mix type. FC-9.5 will be 1", FC-12.5 will be 1-1/2", and FC-5 will be 3/4".

337-1.3 Contractor's Process Control: Provide the necessary quality and process control of the friction course mix production and placement in accordance with the applicable provisions of TP 334-2 and TP 334-3. The contractor will monitor the spread rate periodically to ensure uniform thickness. Provide quality control procedures for daily monitoring and control of spread rate. If the spread rate drops below the target value, immediately make all corrections necessary to bring the spread rate into the acceptable range.

##### **337-2 MIX COMPOSITION**

337-2.1 General: Compose the asphalt mixture using a combination of aggregates (coarse, fine, or a mixture thereof) and asphalt binder. Some mixtures may require fibers and/or hydrated lime. Size, grade and combine the aggregate proportions to meet the grading and physical properties of the approved mix design and the requirements of this Section.

337-2.2 Mix Design: Any submitted mix design must be pre-approved by the FDOT. Submit to the Engineer the proposed mix design and proof that the mix design is on the FDOT District 5 accepted list. No mix design revisions will be allowed. A new design mix will be required for any substitution of an aggregate product, aggregate gradation, binder, or other design component unless approved by the Engineer. The Engineer will consider any marked variations from mix design parameters or any evidence of inadequate field performance of a mix design as sufficient evidence that the properties of the mix design have changed, and the Engineer will no longer allow the use of that mix design. Provide certification from the plant (either in a statement on the delivery ticket or on a separate sheet) that the mix provided is in conformance with the design mix.

337-2.3 Asphalt Binder: Meet the requirements of Section 916, and any additional requirements or modifications specified herein for the various mixtures. Use PG 76-22 asphalt binder meeting the requirements of Section 916-1 of the FDOT Standard Specifications for Road and Bridge Construction. ARB-5 and ARB-12 shall not be used as the asphalt rubber binder unless otherwise approved by the Engineer. Limit the amount of Reclaimed Asphalt Pavement (RAP)

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material used in the mix design to equal to or less than 20% by weight of the total aggregate, unless otherwise approved by the Engineer.

337-2.4 Additional Information: Provide the following information to the Engineer with each FDOT approved mix design submitted for use:

- The approved FDOT Mix Design Number.
- The design traffic level and the design number of gyrations ( $N_{\text{design}}$ ).
- The source and description of the materials to be used.
- The FDOT source number product code of the aggregate components furnished from an FDOT approved source.
- The gradation and proportions of the raw materials as intended to be combined in the paving mixture. The gradation of the component materials shall be representative of the material at the time of use. Compensate for any change in aggregate gradation in handling and processing as necessary.
- A single percentage of the combined mineral aggregate passing each specified sieve. Degradation of the aggregate due to processing (particularly -No. 200 [-75  $\mu\text{m}$ ]) should be accounted for and identified for the applicable sieves.
- The bulk specific gravity value for each individual aggregate (and RAP) component, as identified in the FDOT aggregate control program.
- A single percentage of asphalt binder by weight of total mix intended to be incorporated in the completed mixture, shown to the nearest 0.1%.
- A target temperature at which the mixture is to be discharged from the plant and a target roadway temperature. Do not exceed a target temperature of 340°F for modified asphalts and 315°F for unmodified asphalts.
- The physical properties achieved at four different asphalt binder contents, one of which shall be at the optimum asphalt content, and must conform to all specified physical requirements.
- The ignition oven calibration factor.

#### 337-3 SPECIAL CONSTRUCTION REQUIREMENTS

337-3.1 FC-9.5 and FC-12.5:

337-3.1.1 Temperature:

337-3.1.1.1 Air Temperature at Laydown: Spread the mixture only when the air temperature (the temperature in the shade away from artificial heat) is at 45°F and rising.

337-3.1.1.2 Temperature of the mix: Heat and combine the asphalt binder and aggregate in a manner to produce a mix having a temperature, when discharged from the plant and at the time of spreading on the roadway, meeting the requirements of TP 334-3.5.3.

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#### TP 337 – Superpave Asphaltic Concrete Friction Courses

337-3.1.2 Prevention of Adhesion: To minimize adhesion to the drum during the rolling operations, the Contractor may add a small amount of liquid detergent to the water in the roller.

At intersections and in other areas where the pavement may be subjected to cross-traffic before it has cooled, spray the approaches with water to wet the tires of the approaching vehicles before they cross the pavement.

337-3.1.3 Transportation Requirements of Friction Course Mixtures: Cover all loads of friction course mixtures with a tarpaulin.

337-3.2 FC-5:

337-3.2.1 Hot Storage: When using surge or storage bins in the normal production of FC-5, do not leave the mixture in the surge or storage bin for more than one hour.

337-3.2.2 Longitudinal Grade Controls for Open-Graded Friction Courses: Use either longitudinal grade control (skid, ski or traveling stringline) or a joint matcher.

337-3.2.3 Temperature:

337-3.2.3.1 Air Temperature at Laydown: Spread the mixture only when the air temperature (the temperature in the shade away from artificial heat) is at 65°F and rising. As an exception, place the mixture at temperatures lower than 65°F, only when approved by the Engineer based on the Contractor's demonstrated ability to achieve a satisfactory surface texture and appearance of the finished surface. In no case shall the mixture be placed at temperatures lower than 60°F.

337-3.2.3.2 Temperature of the Mix: Heat and combine the asphalt binder and aggregate in a manner to produce a mix having a temperature, when discharged from the plant and at the time of spreading on the roadway, meeting the requirements of TP 334-3.5.3. The target mixing temperature shall be established at 320°F.

337-3.2.4 Compaction: Provide two, static steel-wheeled rollers, with an effective compactive weight in the range of 135 to 200 PLI, determined as follows:

Total Weight of Roller (pounds)

PLI = -----

Total Width of Drums (inches)

(Any variation of this equipment requirement must be approved by the Engineer.) Establish an appropriate rolling pattern for the pavement in order to effectively seat the mixture without crushing the aggregate. In the event that the roller begins to crush the aggregate, reduce the number of coverages or the PLI of the rollers. If the rollers continue to crush the aggregate, use a tandem steel-wheel roller weighing not more than 135 lb/in (PLI) of drum width.



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#### TP 337 – Superpave Asphaltic Concrete Friction Courses

##### 337-3.2.5 Special Equipment

337-3.2.5.1 Fiber Supply System: Use a separate feed system to accurately proportion the required quantity of mineral fibers into the mixture in such a manner that uniform distribution is obtained. Interlock the proportioning device with the aggregate feed or weigh system to maintain the correct proportions for all rates of production and batch sizes. Control the proportion of fibers to within plus or minus 10% of the amount of fibers required. Provide flow indicators or sensing devices for the fiber system, interlocked with plant controls so that the mixture production will be interrupted if introduction of the fiber fails.

When a batch plant is used, add the fiber to the aggregate in the weigh hopper or as approved and directed by the Engineer. Increase the batch dry mixing time by 8 to 12 seconds, or as directed by the Engineer, from the time the aggregate is completely emptied into the pugmill. Ensure that the fibers are uniformly distributed prior to the addition of asphalt binder into the pugmill.

When a drum-mix plant is used, add and uniformly disperse the fiber with the aggregate prior to the addition of the asphalt binder. Add the fiber in such a manner that it will not become entrained in the exhaust system of the drier or plant.

337-3.2.5.2 Hydrated Lime Supply System: For FC-5 mixes containing granite, use a separate feed system to accurately proportion the required quantity of hydrated lime into the mixture in such a manner that uniform coating of the aggregate is obtained prior to the addition of the asphalt. Add the hydrated lime in such a manner that it will not become entrained in the exhaust system of the drier or plant. Interlock the proportioning device with the aggregate feed or weigh system to maintain the correct proportions for all rates of production and batch sizes and to ensure that all mixture produced is properly treated with hydrated lime. Control the proportion of hydrated lime to within plus or minus 10% of the amount of hydrated lime required. Provide and interlock flow indicators or sensing devices for the hydrated lime system with plant controls so that the mixture production will be interrupted if introduction of the hydrated lime fails. The addition of the hydrated lime to the aggregate may be accomplished by Method (A) or (B) as follows:

337-3.2.5.2.1 Method (A) - Dry Form: Add hydrated lime in a dry form to the mixture according to the type of asphalt plant being used.

When a batch plant is used, add the hydrated lime to the aggregate in the weigh hopper or as approved and directed by the Engineer. Increase the batch dry mixing time by eight to twelve seconds, or as directed by the Engineer, from the time the aggregate is completely emptied into the pugmill. Uniformly distribute the hydrated lime prior to the addition of asphalt binder into the pugmill.

When a drum-mix plant is used, add and uniformly disperse the hydrated lime to the aggregate prior to the addition of the asphalt. Add the hydrated lime in such a manner that it will not become entrained in the exhaust system of the drier or plant.

337-3.2.5.2.2 Method (B) - Hydrated Lime/Water Slurry: Add the required quantity of hydrated lime (based on dry weight) in a hydrated lime/water slurry form to the aggregate. Provide a

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#### TP 337 – Superpave Asphaltic Concrete Friction Courses

solution consisting of hydrated lime and water in concentrations as directed by the Engineer. Use a plant equipped to blend and maintain the hydrated lime in suspension and to mix it with the aggregates uniformly in the proportions specified.

337-3.2.5.3 Hydrated Lime Pretreatment: For FC-5 mixes containing granite, pretreat the aggregate with hydrated lime prior to incorporating the aggregate into the mixture. Use a feed system to accurately proportion the aggregate and required quantity of hydrated lime, and mix them in such a manner that uniform coating of the aggregate is obtained. Control the proportion of hydrated lime to within  $\pm 10\%$  of the amount required. Aggregate pretreated with hydrated lime in this manner shall be incorporated into the asphalt mixture within 45 days of pretreatment.

337-3.2.5.3.1 Hydrated Lime Pretreatment Methods: Pretreat the aggregate using one of the following two methods:

Pretreatment Method A – Dry Form: Add the required quantity of hydrated lime in a dry form to the aggregate. Assure that the aggregate at the time of pretreatment contains a minimum of 3% moisture over saturated surface dry (SSD) conditions. Utilize equipment to accurately proportion the aggregate and hydrated lime and mix them in such a manner as to provide a uniform coating.

Pretreatment Method B – Hydrated Lime/Water Slurry: Add the required quantity of hydrated lime (based on dry weight) in a hydrated lime/water slurry form to the aggregate. Provide a solution consisting of hydrated lime and water in a concentration to provide effective treatment. Use equipment to blend and maintain the hydrated lime in suspension, to accurately proportion the aggregate and hydrated lime/water slurry, and to mix them to provide a uniform coating.

337-3.2.5.3.2 Blending Quality Control Records: Maintain adequate Quality Control records for the Engineer's review for all pretreatment activities. Include as a minimum the following information (for each batch or day's run of pretreatment): pretreatment date, aggregate certification information, certified test results for the hydrated lime, aggregate moisture content prior to blending, as-blended quantities of aggregate and hydrated lime, project number, customer name, and shipping date.

337-3.2.5.3.3 Certification: In addition to the aggregate certification, provide a certification with each load of material delivered to the HMA plant, that the material has been pretreated in conformance with these specifications. Include also the date the material was pretreated.

#### 337-4 ACCEPTANCE

337-4.1 FC-9.5 and FC-12.5: Meet the requirements of TP 334-4.4.

337-4.2 FC-5: Meet the requirements of TP 334-4, excluding TP 334-4.4.4.1 and TP 334-4.4.4.2

Prior to the issuance of substantial completion, the contractor shall submit to the Engineer the complete cross slope report for the entire friction course placed within the project limits.

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**TP 337 – Superpave Asphaltic Concrete Friction Courses**

**337-5 FAILING MATERIAL**

Assume responsibility for removing and replacing all defective material placed on the project, at no cost to the County.

**337-6 METHOD OF MEASUREMENT**

For the work specified under this Section the quantity to be paid for shall be the actual area in Square Yards (SY) of asphaltic concrete friction course placed and accepted within the limits of the contract.

The bid price for the asphalt mix will include the cost of the asphalt binder, asphalt cement, anti-stripping agent, blending and handling and the tack coat application as directed in Article 300-8 of the FDOT Standard Specifications for Road and Bridge Construction, as well as fiber stabilizing additive and hydrated lime (if required). There will be no separate payment or unit price adjustment for the asphalt binder material in the asphalt mix.

**337-7 BASIS OF PAYMENT**

Price and payment will be full compensation for all the work specified under this Section (including the applicable requirements of Articles 300 and 320 of the FDOT Standard Specifications for Road and Bridge Construction.

**Payment shall be made under:**

ITEM NO. 337-7-6	Asphaltic Concrete Friction Course (1.5") (FC-12.5), (Traffic Level C)
	(Incl. Tack Coat) Per Square Yard (SY)

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**TP 425 INLETS, MANHOLES & JUNCTION BOXES**

**INLETS, MANHOLES, AND JUNCTION BOXES**

Construction of Inlets, Manholes and Junction Boxes shall conform to the requirements of Section 425 of the "Standard Specifications" and applicable FDOT Standard Plans contained in the plans, except as directed by the Engineer.

Precast inlet tops shall not be used for any type of inlet.

Method of Measurement

The quantities measured for payment under this Section shall be the number of inlets, manholes, junction boxes, yard drains, special end walls, and shallow ditch drains satisfactorily completed and accepted, including drainage structure under drains where required.

Basis of Payment

Structures included in this Section will be paid for at the contract unit price each, completed and accepted. Payments shall constitute full compensation for furnishing all materials and completing all work described herein or shown on the plans, including all excavation; dewatering; subsoil excavation and replacement material; backfilling and compacting around structures; disposal of surplus material; and furnishing and placing of all concrete; reinforcing steel; gratings; frames; covers, and any other necessary fittings as shown in the plans, required for acceptable construction, or as directed by the Engineer. Where required, drainage structure underdrains shall be included in the unit price for inlets and manholes. Any alteration of pipe grades up to one (1) foot to clear utilities shall be made and connections to structures made at no additional cost to the County or utility.

Payment shall be made under:

Item No. 425-1-311	Inlets, Curb, Type P-1 (<10')	Each
Item No. 425-1-529	Inlets, Ditch Bottom, Type C, Modify	Each
Item No. 425-1-910	Inlets, Closed Flume	Each

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Sadler Road & U.S. 441 Intersection Improvements Project

### **TP 430- Pipe Culverts and Storm Sewers**

#### **PIPE CULVERTS AND STORM SEWERS**

Construction of Pipe Culverts, Storm Sewers and Mitered End Sections shall conform to the requirements of Section 430 of the “Standard Specifications”, except as modified herein or as directed by the Engineer. All round and elliptical pipes shall be steel reinforced concrete pipe (SRCP).

Lifting holes in reinforced concrete pipe are prohibited.

Proposed storm sewer pipe to be connected to existing structures shall have openings cut into the existing structure without permanently damaging the structure. All structure openings shall be grouted watertight, with non-shrink grout, after pipe installation, and the structure shall be restored as approved by the Engineer.

The cost of connections to existing structures shall be included in the price bid for the pipe.

Final pipe inspection requirements shall conform to Section 430-4.8 of the Standard Specifications. All culverts and storm sewer pipes shall be videoed by the contractor and inspected and approved by the Engineer prior to final paving.

The only acceptable repair method shall be remove and relay / replace, or as otherwise directed by the Engineer. The repair cost shall be borne solely and completely by the Contractor.

All pipe culvert designated in the plans to be desilted shall be videoed in accordance to Section 430-4.8 of the Standard Specifications and approved by the Engineer prior to payment.

#### **Concrete Pipe Joints**

Each joint in a concrete pipe culvert or storm sewer shall be wrapped on the exterior of the pipe with a band of filter fabric measuring 3 feet wide centered on the joint and lapped a minimum of 2 feet. The filter fabric shall meet the requirements of Section 985 of the Standard Specifications and shall be secured against the outside of the pipe by stainless metal or plastic strapping or by other methods approved by the Engineer. These costs shall be included in the per linear foot price for the pipe.

#### **Method of Measurement**

Quantities measured for payment under this Section shall be the length in linear feet of pipe culvert or storm sewer measured in place, completed and accepted. Measurements shall be from the inside face of structure wall to inside face of structure wall.

For mitered end sections the quantity measured for payment shall be the number completed and accepted.

#### **Basis of Payment**

Pipe Culverts and Storm Sewers will be paid for at the contract unit price completed and accepted. The unit price shall include connection of proposed pipes to existing structures and the replacement of the backfill, base course, and pavement removed for

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**TP 430- Pipe Culverts and Storm Sewers**

pipe trenching. Payment shall be full compensation for all work and materials described herein, including excavation (in whatever material is encountered), dewatering, removing unsuitable material and replacing with select bedding material, backfilling, compaction, furnishing and installing all pipe, disposing of surplus materials, and other work as may be required for an acceptable installation.

Payment shall be made under:

Item No		
430- 175-118	<b>PIPE CULVERT, 18" S/CD (SRCP ONLY)</b>	LF
430- 175-218	PIPE CULVERT, ELLIPTICAL, 14"x23" S/CD, (SRCP ONLY)	LF
430- 982-625	MITERED END SECTION (14"x23", CD, ELLIPTICAL, 1:4)	Each

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**TP 515 - Pipe Guiderail**

**PIPE GUIDERAIL**

Construction of pipe guiderail shall conform to the requirements of FDOT Standard Plan 515-051, and this Technical Provision, except as directed by the Engineer.

**Method of Measurement**

Quantities measured for payment under this Section shall be the linear feet of two-rail or three rail guiderail measured in place along the length of the top rail and shall include rails, posts, thickened edge sidewalk, rail splice assemblies, base plates, anchor bolts, nuts, washers, resilient or neoprene pads and all incidental materials and labor required to complete installation.

**Basis of Payment**

Pipe Guiderail will be paid for at the contract unit price per linear foot completed and accepted.

Payment shall be made under:

Pay Item:

515-1-1	Pipe Handrail – Guiderail, Galvanized Steel	Per Linear Foot
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**TP 520 - Concrete Gutter, Curb Elements and Traffic Separator**

**CONCRETE GUTTER, CURB ELEMENTS, AND TRAFFIC SEPARATOR**

Construction of concrete curb and gutter, concrete traffic separator, and concrete valley gutter shall conform to the requirements of Section 520 of the Standard Specifications, except as directed by the Engineer.

**Foundation**

Foundation material upon which the concrete is to be placed shall be compacted to meet the specified densities and shall be thoroughly wetted but free of standing water just prior to placing concrete.

**Contraction Joints**

Contraction joints shall be sawed to a minimum depth of 1 1/2 inches. Sawing shall begin as soon as the concrete has hardened to the degree that excessive raveling will not occur. Sawing shall progress in the same direction and sequence as the concrete placement. Every third joint shall be sawed first, then saw intermediate joints.

For concrete placed before noon, all joints shall be sawed the same day of placement. For concrete placed after noon, all third joints shall be sawed the day of placement; all other joints prior to noon the following day.

**Curing**

Concrete shall be cured as provided in Section 520-8, except as modified herein or as approved by the Engineer. Curing material shall be applied to the concrete surfaces after finishing as soon as the concrete has hardened sufficiently to prevent marring the surface or within one hour after finishing is completed, whichever occurs first. Applying curing materials shall not be held up due to other activities on the project. Contractor shall schedule and provide manpower necessary to conform to these requirements.

Spraying equipment, including spray tip and nozzle, shall be as recommended by manufacturer's printed literature, or an acceptable equal.

Equipment shall be maintained and nozzles replaced as required to provide consistent uniform spray pattern.

A uniform coating meeting the manufacturer's recommended minimum application rate shall be applied. Areas appearing to have insufficient curing compound, as determined solely by the Engineer, shall be re-coated immediately to provide required uniform coverage.

Storage containers having greater than a five gallon capacity may be utilized only with prior approval by the Engineer. The contractor shall submit the manufacturer's descriptive literature describing the placement, storage and mixing requirements for storage containers exceeding five gallons. The contractor shall provide and utilize mechanical mixers for all containers larger than five gallons. The mixers shall be equivalent to the manufacture's requirements. The contractor

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**TP 520 - Concrete Gutter, Curb Elements and Traffic Separator**

shall conform to all storage, mixing and application requirements.

**Repairs**

Where replacement is necessary, complete sections between existing contraction joints shall be removed and replaced.

**Method of Measurement**

For curb or curb and gutter, the quantity to be paid will be plan quantity, in linear feet, measured along the face of the completed and accepted curb or curb and gutter.

For valley gutter or shoulder gutter, the quantity to be paid will be plan quantity, in linear feet, measured along the gutter line of the completed and accepted valley gutter or shoulder gutter.

For concrete traffic separator of constant width, the quantity to be paid will be plan quantity, in linear feet, measured along the center of its width, completed and accepted, including the length of the nose.

For concrete traffic separator of varying width, the quantity to be paid will be plan quantity, in square yards, completed and accepted.

**Basis of Payment**

Items covered by this Section will be paid for at the contract unit price. Payment shall constitute full compensation for all work described herein, including all labor, equipment, materials and incidentals necessary to complete each item of work.

Payment shall be made under:

Pay Item:

520- 1-10	Concrete Curb and Gutter (Type F)	per linear foot
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**TP 522 – Concrete Sidewalks, 4 inch thickness; Concrete Driveways, 6-inch Thickness**

Construction of 4-inch concrete sidewalk and 6-inch concrete driveway shall conform to the requirements of Section 522 of the “Standard Specifications”, and Plan 522 of the FDOT Standard Plans, except as directed by the Engineer.

**Foundation**

Foundation material shall meet the specified densities and shall be thoroughly wetted but free of standing water just prior to placing concrete.

**Contraction Joints**

Contraction joints shall be sawed. All joints shall be straight lines oriented at 90 degrees to the edge of sidewalk, radially if in a curve, or as directed otherwise. The minimum depth of joints shall be 1 1/2 inches or 1/4 the nominal thickness of concrete placed, whichever is greater.

Joint installation shall proceed in the same direction and sequence as the concrete placement. Sawing shall begin as soon as the concrete has hardened to the degree that excessive raveling will not occur. Every third transverse joint and all longitudinal joints shall be sawcut within 8 hours after finishing. Remaining transverse joints, shall be sawcut by noon the following day.

**Construction Joints**

Construction joints shall be constructed at the end of all pours and at other locations where the concrete placement operations are stopped for as long as 30 minutes. They shall be placed at least 10 feet from any other transverse construction joint or end of pavement section.

Metal keyways shall be installed at all construction joints in driveway crossings 6-inches and greater in thickness. Concrete thickness shall be increased by 2-inches for a minimum distance of 6-inches either side of construction joints.

**Curing**

Concrete shall be cured as provided in Section 520-8, except as modified herein. Curing material shall be applied to the concrete surfaces after finishing as soon as the concrete has hardened sufficiently to prevent marring the surface or within one hour after finishing is completed, whichever occurs first. Applying curing materials shall not be held up due to other activities on the project. Contractor shall schedule and provide manpower necessary to conform to these requirements.

Spraying equipment, including spray tip and nozzle, shall be as recommended by the manufacturers' printed literature, or an acceptable equal.

Equipment shall be maintained and nozzles replaced as required to provide a consistently uniform spray pattern.

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**TP 522 – Concrete Sidewalks, 4 inch thickness; Concrete Driveways, 6-inch Thickness**

A uniform coating meeting the manufacturer's recommended minimum application rate shall be applied. Areas appearing to have insufficient curing compound, as determined solely by the County, shall be re-coated immediately to provide the required uniform coverage.

Storage containers having greater than a five gallon capacity may be utilized only with prior approval of the Engineer. The Contractor shall submit the manufacturer's descriptive literature describing the placement, storage and mixing requirements for storage exceeding five gallons. The Contractor shall provide and utilize mechanical mixers for all containers larger than five gallons. The mixers shall be equivalent to or exceed the manufacture's requirements.

The Contractor shall conform to all storage, mixing and application requirements.

**Replacement**

Where 6-inch concrete has to be replaced due to cracks, it shall be replaced with a uniform thickness of 8-inch concrete covering no less than 40 square feet and extending to existing sawed contraction joints. Replacement concrete shall extend at least 3-inches beneath existing concrete at a minimum thickness of 3-inches.

**Detectable Warnings on Walking Surfaces**

The work specified in this Section consists of the furnishing and installing of detectable warnings on walking surfaces in accordance with Section 527 of the "Standard Specifications" except as directed by the Engineer.

Detectable surface mats shall be cast-in-place into wet concrete. Glued / bolted mats will not be accepted.

Detectable warning surfaces shall be included in this pay item.

**Method of Measurement**

Quantities measured for payment under this Section shall be the actual area in square yards of concrete constructed in place.

**Basis of Payment**

Concrete Sidewalk including ramps, detectable warning surfaces (armor tiled domes) and driveways will be paid for at the contract unit prices, completed and accepted. Payment shall constitute full compensation for all work described herein, and shall include all labor, equipment, materials, clearing and grubbing, excavation, grading, compaction, expansion material (asphalt impregnated), and all incidentals necessary to complete the work to the lines, grades, and thickness indicated on the plans.

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**TP 522 – Concrete Sidewalks, 4 inch thickness; Concrete Driveways, 6-inch Thickness**

Subgrade preparation and additional concrete required for thickened slabs as indicated on the plans or as directed by the Engineer shall be included in the contract unit price for 6-inch Concrete Sidewalk.

Payment shall be made under:

Pay Item:

522-1	Sidewalk Concrete, 4" Thick	Per Square Yard
522-2	Concrete Driveway, 6" Thick	Per Square Yard

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**TP 524 - Concrete Ditch and Slope Pavement**

**CONCRETE DITCH AND SLOPE PAVEMENT**

Work specified in this Section consists of the construction of Concrete Ditch and Slope Pavement in the flow channel of drainage ditches and on roadway slopes. Work shall conform to the requirements of Section 524 of the “Standard Specifications”, except as directed by the Engineer.

**Materials**

Class NS concrete meeting the requirements of Section 347 shall be used.

**Construction Joints**

Metal keyways shall be installed at all construction joints in pavement 6-inches and greater in thickness. Concrete thickness shall be increased by 2-inches for a minimum distance of 6-inches either side of construction joints.

**Method of Measurement**

The quantities to be paid for under this Section shall be the area in square yards of Concrete Ditch and Slope Pavement completed and accepted. No deduction shall be made for any areas occupied by manholes, inlets, or other drainage structures or by public utility appurtenances within the pavement area.

**Basis of Payment**

Payments shall constitute full compensation for furnishing all materials and completing all work described herein or shown on the plans, including all disposal of surplus material; furnishing and placing of all concrete; reinforcing steel and any other necessary fittings as shown in the plans, required for acceptable construction, or as directed by the Engineer.

Unless specifically noted on the plans for an item to be paid under the Concrete Slope Pavement pay item, the payment shall be made under Concrete Ditch Pavement pay item.

Payment shall be made under:

**Pay Item:**

524-1-2	Concrete Ditch Pavement, Non Reinforced, 4”	Per Square Yard
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**TP 570 – Performance Turf**

**DESCRIPTION**

Establish a growing, healthy turf over all areas designated in the Plans. Use sod in areas designated in the Plans to be sodded. Maintain turf areas until final acceptance of all contract work. Work shall include all mulching, sodding, fertilizing, clipping removal, litter control, edging and watering necessary to provide routine maintenance of the grassed area throughout the establishment period or until the work is accepted by the Engineer.

There must be at least 90% coverage of healthy grass prior to acceptance by the Engineer. The Engineer, at any time, may require replanting of any areas in which the establishment of the grass stand does not appear to be developing satisfactorily.

The CONTRACTOR shall mow grassed areas every 14 days, or as required by the Engineer, until final acceptance of the work.

**MATERIALS**

**General**

All sod shall meet the requirements of the Florida Department of Agriculture and Consumer Services and all applicable state laws, and shall be approved by the Engineer before installation.

All sod and mulch shall be free of noxious weeds and exotic pest plants, plant parts or seed listed in the current Category I “List of Invasive Species” from the Florida Exotic Pest Plant Council (FLEPPC, <http://www.fleppc.org> ). Any plant officially listed as being noxious or undesirable by any Federal Agency, any agency of the State of Florida or any local jurisdiction in which the project is being constructed shall not be used. Any such noxious or invasive plant or plant part found to be delivered in seed, sod or mulch will be removed by the CONTRACTOR at his expense and in accordance with the law.

All materials shall meet plant quarantine and certification entry requirements of Florida Department of Agriculture & Consumer Services, Division of Plant Industry Rules.

**Sod**

Types: Unless a particular type of sod is called for in the Contract Documents, sod may be either centipede, bahia, or bermuda at the CONTRACTOR’S option. It shall be well matted with roots.



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**TECHNICAL PROVISIONS**

Sadler Road & U.S. 441 Intersection Improvements Project

**TP 570 – Performance Turf**

Where sodding will adjoin, or be in sufficiently close proximity to, private lawns, other types of sod may be used if desired by the affected property owners and approved by the Engineer.

Dimensions: The sod shall be taken up in commercial-size rectangles, or rolls, preferably 12 inches by 24 inches or larger, except where 6 inch strip sodding is called for, or as rolled sod at least 12 inches in width and length consistent with the equipment and methods used to handle the rolls and place the sod. Sod shall be a minimum of 1-1/4 inches thick including a 3/4 inch thick layer of roots and topsoil. Reducing the width of rolled sod is not permitted after the sod has been taken up from the initial growing location. Any netting contained within the sod shall be certified by the manufacturer to be degradable within three years.

Condition: The sod shall be sufficiently thick to secure a dense stand of live turf. The sod shall be live, fresh and uninjured, at the time of planting. It shall have a soil mat of sufficient thickness adhering firmly to the roots to withstand all necessary handling. It shall be planted within 48 hours after being cut and kept moist from the time it is cut until it is planted. No sod which has been cut for more than 48 hours may be used unless specifically authorized by the Engineer. A letter of certification from the turf Contractor as to when the sod was cut, and what type, shall be provided to the Engineer upon delivery of the sod to the job site.

The source of the sod may be inspected and approved by the Engineer prior to being cut for use in the work.

**Mulch**

The mulch material shall be compost meeting the requirements below, hardwood barks, shavings or chips; or inorganic mulch materials as approved by the Engineer; or hydraulically applied wood fiber mulch or bonded fiber matrix (BFM) for the establishment of turf material.

**Prepared Soil Layer**

All material shall be suitable for plant growth. The organic matter content of the prepared soil layer after mixing shall be a minimum of 2.5%, a maximum of 10%, in accordance with FM 1-T-267 and have a pH value of 4.5 or greater and less than or equal to 8.5 as determined in accordance with FM 5-550. The organic matter content shall be created using any of the following materials.

Prepared soil layer materials may be obtained from either, or a combination of, the following sources:

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# TECHNICAL PROVISIONS

Sadler Road & U.S. 441 Intersection Improvements Project

### **TP 570 – Performance Turf**

- (1) Excavation within the limits of construction on the project. Such material may be stockpiled or windrowed on the project in areas approved by the Engineer.
- (2) Designated borrow pits for the project.
- (3) From other sources of organic soil materials provided by the Contractor.

**Organic Soil:** This may consist of muck, mucky peat and peat and shall have an organic matter content of 30% or more if the mineral fraction is more than 50% clay, or more than 20% organic matter if the mineral fraction has no clay.

**Compost:** Meet the requirements of Florida Department of Environmental Protection Rule 62.709.550 Type Y (yard waste), Type YM (yard waste and manure), Type A (municipal solid waste compost) or Rule 62.640.850 Type AA (composted biosolids) and have unrestricted distribution.

**Compost for use as a Soil Amendment:** If the electrical conductivity (EC) value of the compost exceeds 4.0dS (mmhos/cm) based on the saturated paste extract method, the compost shall be leached with water prior to application.

**Compost for use as a Mulch:** The compost shall contain no foreign matter, such as glass, plastic or metal shards. The compost shall be slightly coarse to coarse in nature (over half of the solids shall be from particles 1/2 inches in size and no greater than 6 inches. Preference shall be given to compost or mulch made from uncontaminated woody waste materials.

### **Fertilizer**

Ensure that all employees applying fertilizer, possess a current Florida Department of Agriculture and Consumer Services Commercial Applicator license in accordance with Section 482.1562, F.S. provide a copy of current certificates to the Engineer. Fertilizers shall comply with the State and County fertilizer laws.

The numerical designations for fertilizer indicate the minimum percentages (respectively) of (1) total nitrogen, (2) available phosphoric acid, and (3) water-soluble potash, contained in the fertilizer. At least 50% of the nitrogen shall be from a slow-release source.

### **Certification**

The CONTRACTOR shall provide the Engineer a certified test report from the manufacturer of the commercial fertilizer confirming that the requirements of this Section are met. The certified

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**TECHNICAL PROVISIONS**

Sadler Road & U.S. 441 Intersection Improvements Project

**TP 570 – Performance Turf**

test report shall include test results for total nitrogen, available phosphoric acid, water-soluble potash, and sulfur. Each certification shall cover one batch per type for dry type fertilizer.

**Fertilizer Rates**

Soil laboratory fertilization recommendations are based on the amount (lbs) of nutrients (N, P<sub>2</sub>O<sub>5</sub>, K<sub>2</sub>O) to apply per given area (usually 1,000 square feet.). From this recommendation it is necessary to select an appropriate fertilizer grade and then determine how much of this fertilizer to apply to the area.

If a complete fertilizer (containing all three primary nutrients) is not available in the ratio of N-P-K necessary to match the ratio required in the fertilizer recommendation, mixed-grade or single-nutrient fertilizers should be used to satisfy each nutrient requirement.

To calculate fertilizer rates:

- Measure the area to be fertilized in square feet.
- Select fertilizers, to be used based on the soil testing laboratory recommendations by matching the ratio of nutrients recommended to the fertilizer grades available.
- Determine the amount of fertilizer to apply to a given area (1,000 square feet.) by dividing the recommended amount of nutrient by the percentage of the nutrient (on a decimal basis) in the fertilizer. Apply no more than 0.25 lbs P<sub>2</sub>O<sub>5</sub>/1000 square feet per application prior to planting.
- Adjust the amount of fertilizer to the project area.

**Insecticides and Herbicides**

Use products found on the following website, <http://state.ceris.purdue.edu/>, approved by the Florida Department of Agriculture for the State of Florida. The use of restricted products is prohibited. Do not use any products in the sulfonylurea family of chemicals. Herbicide application by broadcast spraying is not allowed.

CONTRACTOR shall procure any necessary licenses, pay all charges and fees, and give all notices necessary for lawful performance of the work.

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Sadler Road & U.S. 441 Intersection Improvements Project

### **TP 570 – Performance Turf**

CONTRACTOR shall ensure that all insecticides and herbicides are applied in accordance with Chapter 5E-9, Florida Administrative Code. Provide a copy of current certificates upon request, to the Engineer.

CONTRACTOR shall ensure that employees who work with herbicides comply with all applicable Federal, State, and local regulations.

CONTRACTOR shall comply with all regulations and permits issued by any regulatory agency within whose jurisdiction work is being performed. Post all permit placards in a protected, conspicuous location at the work site.

CONTRACTOR shall acquire all permits required for aquatic plant control as outlined in Chapter 62C-20, Florida Administrative Code, Rules of the Florida Department of Environmental Protection. Contact the Regional Field Office of Bureau of Invasive Plant Management of the Florida Department of Environmental Protection for proper permits and subsequent approval. If application of synthetic organo-auxin herbicides is necessary, meet the requirements of Chapter 5E-2, Florida Administrative Code.

#### **Water**

The water used in the grassing operations may be obtained from any approved source.

The water shall be free of any substance, which might be harmful to plant growth. Effluent water shall meet all Federal, State and local requirements.

#### **Construction Methods**

Incorporate turf installation into the project at the earliest practical time.

Use the methods and materials necessary to establish and maintain the initial grassing until final acceptance.

Sod: Place the sod on the prepared surface, with edges in close contact. Do not use sod which has been cut for more than 48 hours.

Place the sod to the edge of all landscape areas as shown in the Plans and as shown in the Design Standards.

Place rolled sod parallel with the roadway and cut any exposed netting even with the sod edge.

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### TECHNICAL PROVISIONS

Sadler Road & U.S. 441 Intersection Improvements Project

#### **TP 570 – Performance Turf**

Monitor placed sod for growth of pest plants and noxious weeds. If pest plants and/or noxious weeds manifest themselves within 30 days of placement of the sod during the months April through October, within 60 days of placement of the sod during the months of November through March treat affected areas by means acceptable to the COUNTY at no expense to the COUNTY. If pest plants and/or noxious weeds manifest themselves after the timeframes described above from date of placement of sod, the Engineer, at his sole option, will determine if treatment is required and whether or not the CONTRACTOR will be compensated for such treatment.

Remove and replace any sod as directed by the Engineer.

#### **Turf Establishment**

Perform all work necessary, including watering and fertilizing, to sustain an established turf until final acceptance, at no additional expense to the COUNTY. Provide the filling, leveling, and repairing of any washed or eroded areas, as may be necessary.

Established turf is defined as follows:

1. An established root system (leaf blades break before seedlings or sod can be pulled from the soil by hand).
2. No bare spots larger than one square foot.
3. No continuous streaks running perpendicular to the face of the slope.
4. No deformation of the turf areas caused by mowing or other CONTRACTOR equipment.
5. No exposed sod netting.
6. No pests or noxious weeds.

Monitor turf areas and remove all competing vegetation, pest plants, and noxious weeds (as listed by the Florida Exotic Pest Plant Council, Category I “List of Invasive Species”, Current Edition, <http://www.fleppc.org>). Remove such vegetation regularly by manual, mechanical, or chemical control means, as necessary. When selecting herbicides, pay particular attention to ensure use of chemicals that will not harm desired turf. Use herbicides in accordance with provision.

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**TP 570 – Performance Turf**

During the entire establishment period and until turf is established in accordance with this specification, continue inspection and maintenance of erosion and sedimentation control. Take responsibility for the proper removal and disposal of all erosion and sedimentation control items after turf has been established.

Notify the Engineer, with a minimum of seven calendar days advance notice, to conduct inspections of the turf at approximate 90-day intervals during the establishment period to determine establishment. Results of such inspections will be made available to the CONTRACTOR within seven calendar days of the date of inspection. Determination of an established turf will be based on the entire project and not in sections.

The CONTRACTOR'S establishment obligations of this specification will not apply to deficiencies due to the following factors, if found by the Engineer to be beyond the control of the CONTRACTOR, his subcontractors, vendors or suppliers:

- Determination that the deficiency was due to the failure of other features of the Contract.
- Determination that the deficiency was the responsibility of a third party performing work not included in the Contract or its actions.

The COUNTY will only pay for replanting as necessary due to factors determined by the COUNTY to be beyond the control of the CONTRACTOR.

**Litter Removal**

During each cycle all litter and debris are to be removed prior to and upon completion of a mowing cycle. Litter and debris removal includes the pickup removal, and disposal from the right-of-way and COUNTY property of any obstacle such as wood, signs, tires, cans, etc., which cannot be traversed by the mowing equipment. It will also be the CONTRACTOR'S responsibility to remove any item such as bags of trash, newspapers, magazines, food containers, boxes, sheets of paper, etc., which will be torn, ripped, scattered or further subdivided by the mowers, which will result in an objectionable appearance.

**Clipping Removal**

During each cycle all grass clippings that are not uniformly distributed, and detract from the appearance of the mowing operation will be removed from the site by the CONTRACTOR, upon completion of the mowing operation to allow for a neat and clean appearance after completion.

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**TECHNICAL PROVISIONS**

Sadler Road & U.S. 441 Intersection Improvements Project

**TP 570 – Performance Turf**

The CONTRACTOR will remove and dispose of all grass clippings from the pavement, curbs and curb inlets located within the limits of the project.

The grass clipping removal will be performed in conjunction with the mowing cycle. It is the responsibility of the CONTRACTOR to maintain the inlet openings free from the debris generated during their right-of-way mowing operation. Grass clippings will not be blown into drains or storm drain inlets. Failure to adhere to this will result in the CONTRACTOR, at his/her own expense within two (2) working days, jetting out these pipes and drains or reimbursing the COUNTY for the clean-up effort carried out by COUNTY personnel.

**Edging**

Edging is the removal of all weeds, sand, vegetation, debris and plant material by the CONTRACTOR from all edges of curbs, to maintain these areas in an attractive and manicured condition. Edging includes the removal of growth mechanically and manually and shall be performed in conjunction with the mowing cycle. The edging of curbs will create a distinct void; approximately one-half (1/2) inch horizontally between the structure and the turf. String trimmers will not be used in edging. Edging also includes the removal of all sand and debris from the areas designated to be edged. Upon completion of edging by the CONTRACTOR, no growth, sand or debris will touch any of the structures designated to be edged. The CONTRACTOR from the areas designated for edging will remove all sand and debris.

NOTE: Areas specified for edging will not be treated with herbicide.

**Basis of Payment**

All material, work, and incidental costs related to prepare the area for turf will be paid for at the contract unit price completed and accepted. The unit price shall also include:

1. Clearing and grubbing work to include but not limited to, the removal of all rigid, asphalt pavement, Portland cement concrete pavement, curb, curb and gutter, ditch pavement, and brick.
2. Excavation in whatever material encountered, removing unsuitable material, and replacing with select bedding material, backfilling, compaction, furnishing and installing, disposing of surplus material, and other work as may be required for acceptable installation and establishment of turf.





# **PART H TECHNICAL PROVISIONS**

Sadler Road & U.S. 441 Intersection Improvements Project

## **TP 603 – Signalization**

### **SIGNALIZATION**

The signalization shown on the plans shall be constructed in accordance with Sections 603, 632, 634, 641, 646, 650, 653, 660, 663, 665, 670, 671, 682, and 700 of the “Standard Specifications”, except where noted on the plans and indicated by the following Technical Provisions. All traffic signal equipment shall be listed on the Florida Department of Transportation's Approved Products List.

### **SHOP DRAWINGS**

The Contractor shall provide shop drawings for all signalization equipment and installation. These shop drawings will be reviewed and approved by the Engineer prior to the Contractor placing orders for the signalization equipment and beginning construction.

### **SIGNAL CABLE**

Signal Cable shall conform to the requirements of Section 632 of the “Standard Specifications” except payment will be included in the lump sum price for signalization.

### **SPAN WIRE ASSEMBLIES**

Span wire assemblies shall be furnished and installed according to Section 634 of the "Standard Specifications" except payment will be included in the lump sum price for signalization.

### **PRESTRESSED CONCRETE POLES**

Prestressed concrete poles shall be furnished and installed according to Section 641 of the "Standard Specifications" except payment will be included in the lump sum price for signalization.

### **ALUMINUM POLES, PEDESTALS AND POSTS**

Aluminum poles, pedestals and posts shall be furnished and installed according to Section 646 of the "Standard Specifications" except payment will be included in the lump sum price for signalization.

### **VEHICULAR TRAFFIC SIGNAL ASSEMBLIES**

Vehicular traffic signal assemblies shall conform to Section 650 of the “Standard Specifications” except payment will be included in the lump sum price for signalization.

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## **TECHNICAL PROVISIONS**

Sadler Road & U.S. 441 Intersection Improvements Project

### **TP 603 – Signalization**

#### **PEDESTRIAN SIGNAL ASSEMBLIES**

Pedestrian signal assemblies shall conform to Section 653 of the “Standard Specifications” except payment will be included in the lump sum price for signalization.

#### **VEHICLE DETECTION SYSTEM**

Vehicle detection systems shall be furnished and installed according to Section 660 of the “Standard Specifications” except payment will be included in the lump sum price for signalization.

Each loop assembly shall include loop lead-in cable to connect the loop to the loop detector in the controller cabinet.

#### **SIGNAL PRIORITY AND PRE-EMPTION SYSTEMS**

Signal priority and pre-emption systems shall conform to Section 663 of the “Standard Specifications” except payment will be included in the lump sum price for signalization.

#### **PEDESTRIAN DETECTOR ASSEMBLIES**

Pedestrian detector assemblies shall be furnished and installed according to Section 665 of the “Standard Specifications” except payment will be included in the lump sum price for signalization.

#### **TRAFFIC CONTROLLERS**

Traffic Controllers shall conform to the requirements of Sections 670 and 671 of the “Standard Specifications” except payment will be included in the lump sum price for signalization.

#### **VIDEO EQUIPMENT**

Video equipment shall conform to Section 682 of the “Standard Specifications” except payment will be included in the lump sum price for signalization.

#### **HIGHWAY SIGNING**

Highway signing shall conform to Section 700 of the “Standard Specifications” except highway signing shown on the traffic signal plans will be paid as part of the lump sum price for signalization.

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Sadler Road & U.S. 441 Intersection Improvements Project

**TP 603 – Signalization**

**METHOD OF MEASUREMENT**

Quantities measured for payment under this Section shall be in lump sum for each complete traffic control signal system installed at an intersection.

**BASIS OF PAYMENT**

Signalization will be paid for at the contract lump sum prices for each traffic control signal system installed at an intersection, completed and accepted. The cost of the signal communication system between signals shall be included in the contract price for each intersection signalization. Payment shall constitute full compensation for all work described herein and shown in the plans.

Payment shall be made under:

ITEM NO. 603-1 SIGNALIZATION

LUMP SUM (LS)

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Sadler Road & U.S. 441 Intersection Improvements Project

**TP 706 - Raised Retro-Reflective Pavement Markers and Bituminous Adhesive**

**RAISED RETRO-REFLECTIVE PAVEMENT MARKERS and BITUMINOUS ADHESIVE**

The furnishing and installing of all retro-reflective pavement markers as shown on the plans shall conform to the requirements of Section 706 of the “Standard Specifications”, except as amended herein or as directed by the Engineer. All retro-reflective pavement markers shall be Class B and the type shall be as shown on the plans.

**Method of Measurement**

The quantities measured for payment under this Section shall be in accordance with Article 706-6 of the Standard Specifications.

**Basis of Payment**

Section 706-7 of the Standard Specifications is deleted and the following is substituted:

The quantity for the furnishing and installing of retro-reflective pavement markers shall be paid for at the contract unit price per each.

Payment shall be made under:

<u>Pay Item:</u>		
706-3	Retro-Reflective Pavement Marker	EA

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Sadler Road & U.S. 441 Intersection Improvements Project

**TP 710 - Painted Pavement Markings**

**PAINTED PAVEMENT MARKINGS**

The placing of painted traffic stripes and markings as shown on the plans shall conform to the requirements of Section 710 of the “Standard Specifications”, except as amended herein or as directed by the Engineer.

**Method of Measurement**

Quantities measured for payment shall be the units for each designated item in the proposal. The quantity to be paid for under this Section shall include all labor and material for the placing of all pavement markings as shown on the plans, including the removal of any existing pavement markings.

**Basis of Payment**

All materials, work and incidental costs related to Painted Pavement Markings will be paid for at the contract lump sum price for work completed and accepted. Payment shall be full compensation for all the work specified herein and shall include all equipment, labor and materials required for an acceptable installation. Payment for this section shall include one (1) application of painted pavement markings to be applied to the final pavement surface during the 30day cure period.

Payment shall be made under:

Pay Item:

710-90	Painted Pavement Markings, Final Surface	LS
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**TECHNICAL PROVISIONS**

Sadler Road & U.S. 441 Intersection Improvements Project

**TP 711 - Thermoplastic Traffic Stripes and Markings**

**THERMOPLASTIC TRAFFIC STRIPES AND MARKINGS**

The placing of thermoplastic traffic stripes and markings as shown on the plans shall conform to the requirements of Section 711 of the “Standard Specifications”, except as amended herein or as directed by the Engineer.

**Materials**

The materials to be used under this Section shall be in accordance with Article 711-2 of the Standard Specifications.

**Method of Measurement**

The quantities to be paid for under this Section shall be the length measured in linear feet, net miles of Thermoplastic Solid Traffic Stripe or the per each quantity of messages and directional arrows as measured and accepted by the Engineer. The payment shall include all labor and material for the placing of all pavement markings as shown on the plans, including removal of existing pavement markings.

**Basis of Payment**

The quantity for the placing of the thermoplastic pavement markings shall be paid for at the contract unit price.

Payment shall be made under:

<u>Pay Item:</u>		
711-11-125	Thermoplastic, Standard, White, Solid, 24”	LF
711-11-141	Thermoplastic, Standard, 6” White, 6’-10’ Skip	GM
711-11-170	Thermoplastic, Standard, Arrows	EA
711-16-101	Thermoplastic (Std. – Other Surfaces)(White)(Solid)(6”)	GM
711-16-201	Thermoplastic (Std. – Other Surfaces)(Yellow)(Solid)(6”)	GM

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**TECHNICAL PROVISIONS**

Sadler Road & U.S. 441 Intersection Improvements Project

**TP 900-1- As Built Plans**

**AS-BUILT PLANS**

The As-Built Plans shall incorporate all the changes made to the red line As-Built plans. They shall show locations and elevations of paving, swales, ditches, pipe inverts and structures constructed and all relocated or reset property corners, section corners and 1/4 section corners.

Upon the completion of the project, the Contractor shall submit to the County one (1) set of 24"x36" paper Full Size Drawings with Statement of Certifications, certifying that the project was constructed according to the Construction Plans and Specifications, and that the AS BUILT PLANS are correct representation of what was constructed. The plans shall delineate all red line information contained on the As-Built Plans.

The Contractor shall include the Statement of Certification on either the cover sheet certifying all of the sheets or certify each individual sheet. The Statement of Certifications shall be signed and sealed by a Professional Engineer and/or a Professional Surveyor and Mapper, both registered in the State of Florida.

**Basis of Payment**

As-Built Plans will be paid for at the contract lump sum price, completed and accepted.

Payment shall be made under:

Pay Item:

900-1	As-Built Plans	Lump Sum
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**PART H**  
**TECHNICAL PROVISIONS**

Sadler Road & U.S. 441 Intersection Improvements Project

**TP 900-2 Indemnification**

**INDEMNIFICATION**

The Contractor shall indemnify, defend, and hold harmless the COUNTY and all its officers, agents, and employees, from all claims, losses, damages, costs, charges, or expenses arising out of any acts, action, neglect, or omission by the Contractor during the performance of the Contract, whether direct or indirect, and whether to any person or property to which the COUNTY or said parties may be subject, except that neither the Contractor nor any of its subcontractors are liable under this Section for damages arising out of the injury or damage to persons or property directly caused or resulting from the sole negligence of the COUNTY or any of its officers, agents, or employees.

Payment shall be made under:

Pay Item:

900-2	Indemnification	Lump Sum (\$100.00)
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## PART H TECHNICAL PROVISIONS

Sadler Road & U.S. 441 Intersection Improvements Project

### TP 900-3 – Groundwater Treatment and Disposal

#### GROUNDWATER TREATMENT AND DISPOSAL

##### General

If concentrations of tested groundwater quality parameters exceed those allowable in the Florida Department of Environmental Protection (FDEP) Generic Permit for the Discharge of Produced Groundwater from any Non-Contaminated Site Activity (62-621.300(2), F.A.C.), treatment may be required under this technical provision.

The term treatment as used in this technical provision means the application of all FDEP approved techniques and/or methods available to remove the exceedances out of dewatering effluent except impounding. Impounding is not considered a treatment method for purposes of compensation under this technical provision.

The CONTRACTOR shall include in his/her bid all applicable costs, including monitoring, resulting from treatment and disposal of contaminated groundwater with concentration levels that exceed the allowable limits of the FDEP generic permit, and shall not be entitled to any adjustment in the Contract Price as a result of any change in the permit fees or unanticipated treatment and disposal costs.

Prior to any work commencing, and for the duration of the work, the CONTRACTOR is responsible for meeting all the conditions of the applicable permits and submitting any required reports to the appropriate agencies.

The CONTRACTOR shall dewater only in relation to the location and relocation of facilities owned by the COUNTY. No compensation shall be provided for dewatering performed for facilities that are not owned by the COUNTY.

##### Permitting

If exceedances are found in the dewatering effluent, the CONTRACTOR will be required to:

1. Immediately notify the COUNTY and report the exceedances that are encountered.
2. Meet with the FDEP to determine any and all alternatives that are acceptable.
3. Obtain prior COUNTY approval of treatment and disposal alternatives.
4. Obtain prior written COUNTY authorization to use pay item TP 900-3-1.
5. Apply and obtain any and all permits and/or treatment approvals that FDEP requires including, but not limited to:
  - a. Generic Permit for Discharges from Petroleum Contaminated Sites (62-621.300(1), F.A.C.). Allows discharges from sites with automotive gasoline, aviation gasoline, jet fuel, or diesel fuel contamination.

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## PART H TECHNICAL PROVISIONS

### Sadler Road & U.S. 441 Intersection Improvements Project

#### TP 900-3 – Groundwater Treatment and Disposal

- b. Permit for all Other Contaminated Sites (62-04; 62-302; 62-620 & 62-660, F.A.C.). The coverage is available only through the individual NPDES permit issued by FDEP. Allows discharges from sites with general contaminant issues, i.e. ground water and/or soil contamination other than petroleum fuel contamination.
  - c. Generic Permit for the Discharge of Produced Ground Water from Any Non-Contaminated Site Activity (62-621.300(2), F.A.C.).
  - d. Generic Permit for Stormwater Discharge from Large or Small Construction Activities (62-621.300(4) (a), F.A.C.).
6. Apply and obtain any and all permits and/or treatment approvals that the Water Management District requires including, but not limited to:
- a. No-Notice Short-Term Dewatering Permit (40E-20.302(3), F.A.C.) If the CONTRACTOR'S proposed work is expected to exceed 90 days in duration, or does not meet any of the other requirements listed with the requirements of Rule 40E-20.302(3), the CONTRACTOR must apply for and obtain a Dewatering General Water Use Permit (40E-20.302(2) F.A.C.)

The CONTRACTOR shall not be entitled to file, or recover under, any delay claim based on preparation of permit applications and the time required for obtaining the applicable permits. If, prior to or during the dewatering, it is determined that the disposal or discharge of the dewatering effluent is not authorized by the FDEP's Generic Permit for the Discharge of Produced Ground Water from Any Non-Contaminated Site Activity, the CONTRACTOR shall diligently pursue further required permit(s) from FDEP or other agencies without resort to delay claims or recompense from the COUNTY for either permit application activities or the time required to obtain such permits.

The CONTRACTOR shall consider and anticipate the potential need to obtain the herein discussed permits in developing his schedule, and shall make every effort to avoid or minimize potential impacts to his critical path that might result from delays in dewatering activities due to the time necessary for the CONTRACTOR to obtain the necessary permits. The CONTRACTOR shall make every effort to schedule activities requiring dewatering as late as possible during his schedule, and shall schedule activities not impacted by dewatering as early as possible. For each day, up to a maximum of one hundred eighty (180) days that the CONTRACTOR diligently pursues such permit(s) and is unable to avoid adversely impacting his critical path, a day will be added to the time allotted to the CONTRACTOR to complete performance of the Project.

**PART H**  
**TECHNICAL PROVISIONS**

Sadler Road & U.S. 441 Intersection Improvements Project

**TP 900-3 – Groundwater Treatment and Disposal**

**Treatment**

The CONTRACTOR shall implement the appropriate treatment that is acceptable to FDEP, COUNTY, and, if necessary, the Water Management District to attain compliance for all exceedances encountered during dewatering activities. Treatments may include, but are not limited to: chemical treatment, ion exchange treatment, filtration, and disposal of discharged groundwater in a properly permitted facility.

The CONTRACTOR shall:

1. Make every effort to minimize the spread of contamination into uncontaminated areas;
2. Provide for the health and safety of all workers at the job site and make provisions necessary for the health and safety of the public that may be exposed to any potentially hazardous conditions;
3. Ensure such provisions adhere to all applicable laws, rules or regulations covering hazardous conditions in a manner commensurate with the level of severity of the conditions;
4. If necessary, provide contamination assessment and remediation personnel to handle site assessment, determine the course of action necessary for site security, and perform the necessary steps under applicable laws, rules, and regulations for additional assessment and/or remediation work to resolve the contamination issue;
5. Delineate the contamination area(s), any staging or holding area required, and develop a work plan that will provide the schedule of projected completion dates for the final resolution of the contamination issue;
6. Maintain jurisdiction over activities inside any delineated contamination areas and any associated staging or holding areas;
7. Be responsible for the health and safety of workers within the delineated areas; and
8. Provide continuous access to representatives of regulatory or enforcement agencies having jurisdiction.

**Method of Measurement**

Quantities to be paid for under this Section shall be the actual number of calendar days, when Groundwater Treatment & Disposal occurs. This does not include preparation of permit application(s) or time to obtain the permit(s).

**Basis of Payment**

Groundwater Treatment & Disposal will be paid for at the contract unit price per day. The price and payment for groundwater treatment and disposal shall constitute full compensation for cost of permitting and providing all labor, materials, tools, equipments, monitoring, reporting, treating and disposing of groundwater produced from dewatering systems.

Item No: 900-3-1      Groundwater - Treatment & Disposal      - Per Day

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\* IFB NO. Y19-701-CH

ISSUED: June 6, 2019

**INVITATION FOR BIDS**

**FOR**

**SADLER ROAD & U.S. 441 INTERSECTION IMPROVEMENTS PROJECT FPN:  
441400-1-58-01 FAN: D518-087-B**

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**VOLUME III**

**LAP DIVISION I SPECIFICATIONS, WAGE RATES  
AND FDOT FORMS**

**LAP DIVISION 1 SPECIFICATIONS.**

(REV 2-27-19) (7-19)

Construction Checklist Specifications  
from  
Department of Transportation  
Standard Specifications for Road and Bridge Construction

*The following excerpts from the Standard Specifications and Special Provisions are provided for use in LAP Specifications as needed in accordance with the Local Agency Program Checklist for Construction Contracts (Phase 58) – Federal and State Requirements (525-070-44)*

## FROM SECTION 1 – DEFINITIONS AND TERMS:

Department Name **Orange County Department of Public Works**

Engineer **Julie R. Naditz, P.E., Manager, Highway Construction Division**

### **Contractor's Engineer of Record.**

A Professional Engineer registered in the State of Florida, other than the Engineer of Record or his subcontracted consultant, who undertakes the design and drawing of components of the permanent structure as part of a redesign or Cost Savings Initiative Proposal, or for repair designs and details of the permanent work. The Contractor's Engineer of Record may also serve as the Specialty Engineer.

The Contractor's Engineer of Record must be an employee of a pre-qualified firm. The firm shall be pre-qualified in accordance with the Rules of the Department of Transportation, Chapter 14-75. Any Corporation or Partnership offering engineering services must hold a Certificate of Authorization from the Florida Department of Business and Professional Regulation.

As an alternate to being an employee of a pre-qualified firm, the Contractor's Engineer of Record may be a pre-qualified Specialty Engineer. For items of the permanent work declared by the State Construction Office to be "major" or "structural", the work performed by a pre-qualified Specialty Engineer must be checked by another pre-qualified Specialty Engineer. An individual Engineer may become pre-qualified in the work groups listed in the Rules of the Department of Transportation, Chapter 14-75, if the requirements for the Professional Engineer are met for the individual work groups. Pre-qualified Specialty Engineers are listed on the State Construction Website. Pre-qualified Specialty Engineers will not be authorized to perform redesigns or Cost Savings Initiative Proposal designs of items fully detailed in the plans.

### **Specialty Engineer.**

A Professional Engineer registered in the State of Florida, other than the Engineer of Record or his subcontracted consultant, who undertakes the design and drawing preparation of components, systems, or installation methods and equipment for specific temporary portions of the project work or for special items of the permanent works not fully detailed in the plans and required to be furnished by the Contractor. The Specialty Engineer may also provide designs and details, repair designs and details, or perform Engineering Analyses for items of the permanent work declared by the State Construction Office to be "minor" or "non-structural".

For items of work not specifically covered by the Rules of the Department of Transportation, a Specialty Engineer is qualified if he has the following qualifications:

- (1) Registration as a Professional Engineer in the State of Florida.
- (2) The education and experience necessary to perform the submitted design as required by the Florida Department of Business and Professional Regulation.

## **FROM SECTION 6 – CONTROL OF MATERIALS (CONVICT LABOR AND BUY AMERICA).**

### **6-5 Products and Source of Supply.**

**6-5.1 Source of Supply–Convict Labor (Federal-Aid Contracts Only):** Do not use materials that were produced after July 1, 1991, by convict labor for Federal-aid highway construction projects unless the prison facility has been producing convict-made materials for Federal-aid highway construction projects before July 1, 1987.

Use materials that were produced prior to July 2, 1991, by convicts on Federal-aid highway construction projects free from the restrictions placed on the use of these materials by 23 U.S.C. 114. The Department will limit the use of materials produced by convict labor for use in Federal-aid highway construction projects to:

1. Materials produced by convicts on parole, supervised release, or probation from a prison or,

2. Materials produced in a qualified prison facility.

The amount of such materials produced for Federal-aid highway construction during any 12-month period shall not exceed the amount produced in such facility for use in such construction during the 12-month period ending July 1, 1987.

**6-5.2 Source of Supply–Steel:** Use steel and iron manufactured in the United States, in accordance with the Buy America provisions of 23 CFR 635.410, as amended. Ensure that all manufacturing processes for this material occur in the United States. As used in this specification, a manufacturing process is any process that modifies the chemical content, physical shape or size, or final finish of a product, beginning with the initial melting and continuing through the final shaping and coating. If a steel or iron product is taken outside the United States for any manufacturing process, it becomes foreign source material. When using steel or iron materials as a component of any manufactured product (e.g., concrete pipe, prestressed beams, corrugated steel pipe, etc.), these same provisions apply. Foreign steel and iron may be used when the total actual cost of such foreign materials does not exceed 0.1% of the total Contract amount or \$2,500, whichever is greater. These requirements are applicable to all steel and iron materials incorporated into the finished work, but are not applicable to steel and iron items that the Contractor uses but does not incorporate into the finished work. Submit a certification from the manufacturer of steel or iron, or any product containing steel or iron, stating that all steel or iron furnished or incorporated into the furnished product was produced and manufactured in the United States or a statement that the product was produced within the United States except for minimal quantities of foreign steel and iron valued at \$ (actual cost). Submit each such certification to the Engineer prior to incorporating the material or product into the project. Prior to the use of foreign steel or iron materials on a project, submit invoices to document the actual cost of such material, and obtain the Engineer's written approval prior to incorporating the material into the project



**FROM SECTION 7 – LEGAL REQUIREMENTS AND RESPONSIBILITIES TO THE PUBLIC (FHWA 1273, WAGE RATES, E-VERIFY, TITLE VI, DBE, AND ON-THE-JOB TRAINING).**

**Compliance with FHWA 1273:** The FHWA-1273 Electronic version, dated May 1, 2012 is posted on the Department’s website at the following URL address [https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/programmanagement/implemented/urlinspecs/files/deo1124628d797c0ec0f48a4a05c478e4fba9e20.pdf?sfvrsn=83d8df44\\_2](https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/programmanagement/implemented/urlinspecs/files/deo1124628d797c0ec0f48a4a05c478e4fba9e20.pdf?sfvrsn=83d8df44_2). Take responsibility to obtain this information and comply with all requirements posted on this website up through five calendar days before the opening of bids.

Comply with the provisions contained in FHWA-1273.

If the Department’s website cannot be accessed, contact the Department’s Specifications Office Web Coordinator at (850) 414-4101.

**7-1.4 Compliance with Federal Endangered Species Act and other Wildlife**

**Regulations:** The Federal Endangered Species Act requires that the Department investigate the potential impact to a threatened or endangered species prior to initiating an activity performed in conjunction with a highway construction project. If the Department’s investigation determines that there is a potential impact to a protected, threatened or an endangered species, the Department will conduct an evaluation to determine what measures may be necessary to mitigate such impact. When mitigation measures and/or special conditions are necessary, these measures and conditions will be addressed in the Contract Documents or permits.

In addition, in cases where certain protected, threatened or endangered species are found or appear within close proximity to the project boundaries, the Department has established guidelines that will apply when interaction with certain species occurs, absent of any special mitigation measures or permit conditions otherwise identified for the project.

These guidelines are posted at the following URL address: [https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/programmanagement/implemented/urlinspecs/files/endangeredwildlifeguidelines.pdf?sfvrsn=e27baf3f\\_2](https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/programmanagement/implemented/urlinspecs/files/endangeredwildlifeguidelines.pdf?sfvrsn=e27baf3f_2).

Take responsibility to obtain this information and take all actions and precautions necessary to comply with the conditions of these guidelines during all project activities.

Prior to establishing any off-project activity in conjunction with a project, notify the Engineer of the proposed activity. Covered activities include but are not necessarily limited to borrow pits, concrete or asphalt plant sites, disposal sites, field offices, and material or equipment storage sites. Include in the notification the Financial Project ID, a description of the activity, the location of the site by township, range, section, county, and city, a site location map including the access route, the name of the property owner, and a person to contact to arrange a site inspection. Submit this notification at least 30 days in advance of planned commencement of the off-site activity, to allow for the Department to conduct an investigation without delaying job progress.

Do not perform any off-project activity without obtaining written clearance from the Engineer. In the event the Department’s investigation determines a potential impact to a protected, threatened or endangered species and mitigation measures or permits are necessary,

coordinate with the appropriate resource agencies for clearance, obtain permits and perform mitigation measures as necessary. Immediately notify the Engineer in writing of the results of this coordination with the appropriate resource agencies. Additional compensation or time will not be allowed for permitting or mitigation, associated with Contractor initiated off-project activities.

**7-1.8 Compliance with Section 4(f) of the USDOT Act:** Section 4(f) of the USDOT Act prohibits the U. S. Secretary of Transportation from approving a project which requires the use of publicly owned land of a public park, recreation area or a wildlife and waterfowl refuge, or of any historic site of national, state, or local significance unless there is no prudent or feasible alternative to using that land and the program or project includes all possible planning to minimize the harm to the site resulting from the use.

Before undertaking any off-project activity associated with any federally assisted undertaking, ensure that the proposed site does not represent a public park, recreation area, wildlife or waterfowl refuge, or a historic site (according to the results of the Cultural Resources Survey discussed in 120-6.2). If such a site is proposed, notify the Engineer and provide a description of the proposed off-site activity, the Financial Project ID, the location of the site by township, range, section, a county or city map showing the site location, including the access route and the name of the property. It is the Contractor’s responsibility to submit justification for use of Section 4(f) property that is sufficient for the Florida Department of Transportation and the Federal Highway Administration to make a Section 4(f) determination. Submit this notification sufficiently in advance of planned commencement of the off-site activity to allow a reasonable time for the Engineer to conduct an investigation without delaying job progress. Do not begin any off-project activity without obtaining written clearance from the Engineer.

**7-16 Wage Rates for Federal-Aid Projects.**

For this Contract, payment of predetermined minimum wages applies.

The U.S. Department of Labor (USDOL) Wage Rates applicable to this Contract are listed in table below, as modified up through ten days prior to the opening of bids.

Wage Rate Decision Number	Associated Work
FL180	Highway

Obtain the applicable General Decision(s) (Wage Tables) through the Department’s Office of Construction website and ensure that employees receive the minimum compensation applicable. Review the General Decisions for all classifications necessary to complete the project. Request additional classifications through the Engineer’s office when needed.

For guidance on the requirements for the payment of wages and benefits and the submittal of certified payrolls, and for general guidance and examples of multiple wage rates when assigned to a Contract, refer to the Department’s Office of Construction website. Questions regarding wage rates and the applicability of wage tables should be submitted in accordance with 2-4.

## **7-24 Disadvantaged Business Enterprise Program.**

~~7-24.1 Disadvantaged Business Enterprise Affirmative Action Plan:~~ Prior to award of the Contract, have an approved Disadvantaged Business Enterprise (DBE) Affirmative Action Program Plan filed with the Equal Opportunity Office. Update and resubmit the plan every three years. No Contract will be awarded until the Department approves the Plan. The DBE Affirmative Action Program Plan is incorporated into and made a part of the Contract.

**7-24.2 Required Contract and Subcontract DBE Assurance Language:** In accordance with 49 CFR 26.13 (b), the Contract FDOT signs with the Contractor (and each subcontract the prime contractor signs with a subcontractor) must include the following assurance: “The Contractor, sub-recipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The Contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted Contracts. Failure by the Contractor to carry out these requirements is a material breach of this Contract, which may result in the termination of this Contract or such other remedy as the recipient deems appropriate, which may include, but is not limited to,

1. Withholding monthly progress payments;
2. Assessing sanctions;
3. Liquidated damages; and/or
4. Disqualifying the Contractor from future bidding as non-responsible.”

~~7-24.3 Plan Requirements:~~ Include the following in the DBE Affirmative Action Program Plan:

~~1. A policy statement, signed by an authorized representative (president, chief executive officer, or chairman of the contractor), expressing a commitment to use DBEs in all aspects of contracting to the maximum extent feasible, outlining the various levels of responsibility, and stating the objectives of the program. Circulate the policy statement throughout the Contractor’s organization.~~

~~2. The designation of a Liaison Officer within the Contractor’s organization, as well as support staff, necessary and proper to administer the program, and a description of the authority, responsibility, and duties of the Liaison Officer and support staff. The Liaison Officer and staff are responsible for developing, managing, and implementing the program on a day-to-day basis for carrying out technical assistance activities for DBEs and for disseminating information on available business opportunities so that DBEs are provided an equitable opportunity to participate in Contracts let by the Department.~~

~~3. Utilization of techniques to facilitate DBE participation in contracting activities which include, but are not limited to:~~

~~a. Soliciting price quotations and arranging a time for the review of Plans, quantities, specifications, and delivery schedules, and for the preparation and presentation of quotations.~~

~~b. Providing assistance to DBEs in overcoming barriers such as the inability to obtain bonding, financing, or technical assistance.~~

~~c. Carrying out information and communication programs or workshops on contracting procedures and specific contracting opportunities in a timely manner, with such programs being bilingual where appropriate.~~

~~d. Encouraging eligible DBEs to apply for certification with the Department.~~

~~e. Contacting Minority Contractor Associations and city and county agencies with programs for disadvantaged individuals for assistance in recruiting and encouraging eligible DBE contractors to apply for certification with the Department.~~

**7-24.4 DBE Records and Reports:** Submit the following through the Equal Opportunity Compliance System:

1. DBE Commitments - at or before the Pre-Construction Conference.
2. Report monthly, through the Equal Opportunity Compliance System on the Department's Website, actual payments (including retainage) made to DBEs for work performed with their own workforce and equipment in the area in which they are certified. Report payments made to all DBE and Minority Business Enterprise (MBE) subcontractors and DBE and MBE construction material and major suppliers.

The Equal Opportunity Office will provide instructions on accessing this system. Develop a record keeping system to monitor DBE affirmative action efforts which include the following:

1. the procedures adopted to comply with these Specifications;
  2. the number of subordinated Contracts on Department projects awarded to DBEs;
  3. the dollar value of the Contracts awarded to DBEs;
  4. the percentage of the dollar value of all subordinated Contracts awarded to DBEs as a percentage of the total Contract amount;
  5. a description of the general categories of Contracts awarded to DBEs;
- and
6. the specific efforts employed to identify and award Contracts to DBEs.

Upon request, provide the records to the Department for review.

Maintain all such records for a period of five years following acceptance of final payment and have them available for inspection by the Department and the Federal Highway Administration.

**7-24.5 Counting DBE Participation and Commercially Useful Functions:**

49 CFR Part 26.55 specifies when DBE credit shall be awarded for work performed by a DBE. DBE credit can only be awarded for work actually performed by DBEs themselves for the types of work for which they are certified. When reporting DBE Commitments, only include the dollars that a DBE is expected to earn for work they perform with their own workforce and equipment. Update DBE Commitments to reflect changes to the initial amount that was previously reported or to add DBEs not initially reported.

When a DBE participates in a contract, the value of the work is determined in accordance with 49 CFR Part 26.55, for example:

1. The Department will count only the value of the work performed by the DBE toward DBE goals. The entire amount of the contract that is performed by the DBE's own forces (including the cost of supplies, equipment and materials obtained by the DBE for the contract work) will be counted as DBE credit.
2. The Department will count the entire amount of fees or commissions charged by the DBE firm for providing a bona fide service, such as professional, technical, consultant, or managerial services or for providing bonds or insurance specifically required for the performance of a Department-assisted contract, toward DBE goals, provided that the Department determines the fees to be reasonable and not excessive as compared with fees customarily followed for similar services.

3. When the DBE subcontracts part of the work of its contract to another firm, the Department will count the value of the subcontracted work only if the DBE's subcontractor is itself a DBE. Work that a DBE subcontracts to a non-DBE firm does not count toward DBE goals.

4. When a DBE performs as a participant in a joint venture, the Department will count the portion of the dollar value of the contract equal to the distinct, clearly defined portion of the work the DBE performs with its own forces toward DBE goals.

5. The Contractors shall ensure that only expenditures to DBEs that perform a commercially useful function (CUF) in the work of a contract may be counted toward the voluntary DBE goal.

6. A DBE performs a commercially useful function when it is responsible for execution of the work of the contract and is carrying out its responsibilities by actually performing, managing, and supervising the work involved. To perform a commercially useful function, the DBE must also be responsible, with respect to materials and supplies used on the contract, for negotiating price, determining quality and quantity, ordering the material, and installing (where applicable) and paying for the material itself.

7. Contractors wishing to use joint checks involving DBE credit must provide written notice to the District Contract Compliance Office prior to issuance of the joint check. The Contractor must also provide a copy of the notice to the DBE subcontractor and maintain a copy with the project records.

8. To determine whether a DBE is performing a commercially useful function, the Department will evaluate the amount of work subcontracted, industry practices, whether the amount the firm is to be paid under the contract is commensurate with the work it is actually performing and the DBE credit claimed for its performance of the work, and other relevant factors.

9. A DBE does not perform a commercially useful function if its role is limited to that of an extra participant in a transaction, contract, or project through which funds are passed in order to obtain the appearance of DBE participation.

10. If a DBE does not perform or exercise responsibility for at least 30% of the total cost of its contract with its own workforce, or if the DBE subcontracts a greater portion of the work of a contract than would be expected on the basis of normal industry practice for the type of work involved, the DBE has not performed a commercially useful function.

#### **7-26 Cargo Preference Act – Use of United States-Flag Vessels.**

Pursuant to Title 46 CFR 381, the Contractor agrees

1. To utilize privately owned United States-flag commercial vessels to ship at least 50 percent of the gross tonnage (computed separately for dry bulk carriers, dry cargo liners, and tankers) involved, whenever shipping any equipment, material, or commodities pursuant to this Contract, to the extent such vessels are available at fair and reasonable rates for United States-flag commercial vessels.

2. To furnish within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, 'on-board' commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph 1 of this Article to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Division of National Cargo, Office of Market Development, Maritime Administration, Washington, DC 20590.

3. To insert the substance of the provisions of this clause in all subcontracts issued pursuant to this Contract.

**7-29 E-Verify.**

The Contractor 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 Contractor during the term of the Contract and shall expressly require any subcontractors performing work or providing services pursuant to the 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 subcontractor during the Contract term.

**7-31 Title VI Assurance – DOT 1050.2A, Appendix A and Appendix E.**

**7-31.1 Appendix A:** During the performance of this Contract, the Contractor, for itself, its assignees and successors in interest (hereinafter referred to as the "Contractor") agrees as follows:

1. Compliance with Regulations: The Contractor shall comply with the Regulations relative to nondiscrimination in Federally-assisted programs of the US Department of Transportation (hereinafter, "USDOT") Title 49, Code of Federal Regulations, Part 21, as they may be amended from time to time, (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this Contract.

2. Nondiscrimination: The Contractor, with regard to the work performed by it during the Contract, shall not discriminate on the basis of race, color, national origin or sex in the selection and retention of sub-contractors, including procurements of materials and leases of equipment. The Contractor shall not participate either directly or indirectly in the discrimination prohibited by Section 21.5 of the Regulations, including employment practices when the Contract covers a program set forth in Appendix B of the Regulations.

3. Solicitations for subcontractors, including procurements of materials and equipment: In all solicitations either by competitive bidding or negotiation made by the Contractor for work to be performed under subcontract, including procurements of materials or leases of equipment, each potential subcontractor or supplier shall be notified by the Contractor of the Contractor's obligations under this contract and the Regulations relative to nondiscrimination on the basis of race, color, national origin, or sex.

4. Information and Reports: The Contractor shall provide all information and reports required by the Regulations or directives issued pursuant thereto, and shall permit access to its books, records, accounts, other sources of information and its facilities as may be determined by the Florida Department of Transportation or the Federal Highway Administration, Federal Transit Administration, Federal Aviation Administration, and Federal Motor Carrier Safety Administration to be pertinent to ascertain compliance with such Regulations, order and instructions. Where any information required of a Contractor is in the exclusive possession of another who fails or refuses to furnish this information the Contractor shall so certify to the Florida Department of Transportation, or the Federal Highway Administration, Federal Transit Administration, Federal Aviation Administration, or Federal Motor Carrier Safety Administration as appropriate, and shall set forth what efforts it has made to obtain the information.

5. Sanctions for Noncompliance: In the event of the Contractor's noncompliance with the nondiscrimination provisions of this Contract, the Florida Department of Transportation shall impose such Contract sanctions as it or the Federal Highway Administration, Federal Transit Administration, Federal Aviation Administration, or Federal Motor Carrier Safety Administration may determine to be appropriate, including, but not limited to:

- a. withholding of payments to the Contractor under the Contract until the Contractor complies, or
- b. cancellation, termination or suspension of the Contract, in whole or in part.

6. Incorporation of Provisions: The Contractor shall include the provisions of this appendix in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Regulations, or directives issued pursuant thereto. The Contractor shall take such action with respect to any subcontract or procurement as the Florida Department of Transportation or the Federal Highway Administration, Federal Transit Administration, Federal Aviation Administration, or Federal Motor Carrier Safety Administration may direct as a means of enforcing such provisions including sanctions for noncompliance, provided, however, that, in the event a Contractor becomes involved in, or is threatened with, litigation with a subcontractor or supplier as a result of such direction, the Contractor may request the Florida Department of Transportation to enter into such litigation to protect the interests of the Florida Department of Transportation, and, in addition, the Contractor may request the United States to enter into such litigation to protect the interests of the United States.

**7-31.2 Appendix E:** During the performance of this Contract, the Contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "Contractor" agrees to comply with the following non-discrimination statutes and authorities; including but not limited to:

1. 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;
2. 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 of Federal or Federal-aid programs and projects);
3. Federal-Aid Highway Act of 1973, (23 U.S.C § 324 et seq.), (prohibits discrimination on the basis of sex);
4. 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;
5. The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 et seq.), (prohibits discrimination on the basis of age);
6. Airport and Airway Improvement Act of 1982, (49 U.S.C. 471, Section 47123), as amended, (prohibits discrimination based on race, creed, color national origins or sex);
7. 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);

8. Titles II and III of the Americans with Disabilities Act, which prohibits discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131 – 12189) as implemented by Department of Transportation regulations at 49 C.F.R. parts 37 and 38;

9. 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);

10. 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;

11. 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);

12. Title IX of the Education Amendments of 1972, as amended, which prohibits discrimination based on sex in education programs, or activities (20 U.S.C. 1681 et seq.).

**FROM SECTION 8 (SUBLETTING, CONTRACT TIME EXTENSIONS, AND LIQUIDATED DAMAGES).**

**SECTION 8-1 IS NOT APPLICABLE FOR THIS CONTRACT**

**8-10 Liquidated Damages for Failure to Complete the Work.**

**8-10.2 Amount of Liquidated Damages:** Applicable liquidated damages are the amounts established in the following schedule:

Original Contract Amount	Daily Charge Per Calendar Day
\$50,000 and under.....	\$956
Over \$50,000 but less than \$250,000.....	\$964
\$250,000 but less than \$500,000.....	\$1,241
\$500,000 but less than \$2,500,000.....	\$1,665
\$2,500,000 but less than \$5,000,000.....	\$2,712
\$5,000,000 but less than \$10,000,000.....	\$3,447
\$10,000,000 but less than \$15,000,000.....	\$4,866
\$15,000,000 but less than \$20,000,000.....	\$5,818
\$20,000,000 and over.....	\$9,198 plus 0.00005 of any amount over \$20 million (Round to nearest whole dollar)



General Decision Number: FL190180 01/04/2019 FL180

Superseded General Decision Number: FL20180223

State: Florida

Construction Type: Highway

County: Orange County in Florida.

HIGHWAY CONSTRUCTION PROJECTS

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.60 for calendar year 2019 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.60 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2019. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at [www.dol.gov/whd/govcontracts](http://www.dol.gov/whd/govcontracts).

Modification Number	Publication Date
0	01/04/2019

\* ELEC0915-004 12/01/2017

	Rates	Fringes
ELECTRICIAN.....	\$ 28.18	38%+0.35

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 SUFL2013-041 08/19/2013

	Rates	Fringes
CARPENTER, Includes Form Work....	\$ 15.73	0.00
CEMENT MASON/CONCRETE FINISHER...	\$ 12.95	0.31
FENCE ERECTOR.....	\$ 10.23	0.00

HIGHWAY/PARKING LOT STRIPING: Operator (Striping Machine).....	\$ 15.45	0.00
HIGHWAY/PARKING LOT STRIPING: Painter.....	\$ 12.13	0.00
IRONWORKER, ORNAMENTAL.....	\$ 13.48	0.00
IRONWORKER, REINFORCING.....	\$ 16.28	0.00
IRONWORKER, STRUCTURAL.....	\$ 16.42	0.00
LABORER (Traffic Control Specialist).....	\$ 11.61	0.00
LABORER: Asphalt, Includes Raker, Shoveler, Spreader and Distributor.....	\$ 14.05	0.00
LABORER: Common or General.....	\$ 10.95	0.00
LABORER: Flagger.....	\$ 13.09	0.00
LABORER: Grade Checker.....	\$ 15.25	0.00
LABORER: Mason Tender - Cement/Concrete.....	\$ 12.58	0.00
LABORER: Pipelayer.....	\$ 14.12	0.00
OPERATOR: Backhoe/Excavator/Trackhoe.....	\$ 18.33	0.00
OPERATOR: Bobcat/Skid Steer/Skid Loader.....	\$ 12.88	0.00
OPERATOR: Broom/Sweeper.....	\$ 12.91	0.00
OPERATOR: Bulldozer.....	\$ 15.22	0.00
OPERATOR: Concrete Finishing Machine.....	\$ 15.44	0.00
OPERATOR: Crane.....	\$ 23.11	0.00
OPERATOR: Curb Machine.....	\$ 18.45	0.00
OPERATOR: Drill.....	\$ 13.04	0.00
OPERATOR: Forklift.....	\$ 10.43	0.00
OPERATOR: Gradall.....	\$ 14.71	0.00
OPERATOR: Grader/Blade.....	\$ 18.20	0.00
OPERATOR: Loader.....	\$ 14.64	0.00
OPERATOR: Mechanic.....	\$ 18.05	0.00

OPERATOR: Milling Machine.....	\$ 14.79	0.00
OPERATOR: Oiler.....	\$ 16.67	0.00
OPERATOR: Paver (Asphalt, Aggregate, and Concrete).....	\$ 14.91	0.00
OPERATOR: Piledriver.....	\$ 17.23	0.00
OPERATOR: Post Driver (Guardrail/Fences).....	\$ 15.97	0.00
OPERATOR: Roller.....	\$ 13.50	0.00
OPERATOR: Scraper.....	\$ 12.21	0.00
OPERATOR: Screed.....	\$ 14.24	0.00
OPERATOR: Trencher.....	\$ 14.25	0.00
PAINTER: Spray.....	\$ 19.57	0.00
TRAFFIC SIGNALIZATION:		
Traffic Signal Installation.....	\$ 17.23	0.00
TRUCK DRIVER: Dump Truck.....	\$ 13.82	0.00
TRUCK DRIVER: Flatbed Truck.....	\$ 14.28	0.00
TRUCK DRIVER: Lowboy Truck.....	\$ 15.89	0.00
TRUCK DRIVER: Slurry Truck.....	\$ 11.96	0.00
TRUCK DRIVER: Water Truck.....	\$ 13.29	0.00

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WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at [www.dol.gov/whd/govcontracts](http://www.dol.gov/whd/govcontracts).

Unlisted classifications needed for work not included within

the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

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The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

#### Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

#### Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

#### Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate

that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

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WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- \* an existing published wage determination
- \* a survey underlying a wage determination
- \* a Wage and Hour Division letter setting forth a position on a wage determination matter
- \* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations  
Wage and Hour Division  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material,

etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

## **DBE Utilization**

The Department began its DBE race neutral program January 1, 2000. Contract specific goals are not placed on Federal/State contracts; however, the Department has an overall 10.65% DBE goal it must achieve. In order to assist contractors in determining their DBE commitment level, the Department has reviewed the estimates for this letting.

As you prepare your bid, please monitor potential or anticipated DBE utilization for contracts. When the low bidder executes the contract with the Department, information will be requested of the contractor's DBE participation for the project. While the utilization is not mandatory in order to be awarded the project, continuing utilization of DBE firms on contracts supports the success of Florida's DBE Program, and supports contractors' Equal Employment Opportunity and DBE Affirmative Action Programs.

Any project listed as 0% DBE availability does not mean that a DBE may not be used on that project. A 0% DBE availability may have been established due to any of the following reasons: limited identified subcontracting opportunities, minimal contract days, and/or small contract dollar amount. Contractors are encouraged to identify any opportunities to subcontract to DBE's.

Please contact the Equal Opportunity Office at (850) 414-4747 if you have any questions regarding this information. Forms may be downloaded at: [www.dot.state.fl.us/proceduraldocuments/](http://www.dot.state.fl.us/proceduraldocuments/) .

## **DBE Reporting**

If you are the prime contractor on a project, enter your DBE participation in the Equal Opportunity Compliance system prior to the pre-construction or pre-work conference for all federal and state funded projects. This will not become a mandatory part of the contract. It will assist the Department in tracking and reporting planned or estimated DBE utilization. During the contract, the prime contractor is required to report actual payments to DBE and MBE subcontractors through the web-based Equal Opportunity Compliance (EOC) system.

All DBE payments must be reported whether or not you initially planned to utilize the company. In order for our race neutral DBE Program to be successful, your cooperation is imperative. If you have any questions, please contact [EOOHelp@dot.state.fl.us](mailto:EOOHelp@dot.state.fl.us).

## **Bid Opportunity List**

The Federal DBE Program requires States to maintain a database of all firms that are participating or attempting to participate on FOOT-assisted contracts. The list must include all firms that bid on prime contracts or bid or quote subcontracts on FOOT-assisted projects, including both DBE's and non-DBE's.

Please complete the Bidders Opportunity List through the Equal Opportunity Compliance system within 3 business days of submission of the bid or proposal for ALL subcontractors or sub-consultants who quoted to you for specific project for this letting. The web address to the Equal Opportunity Compliance system is:

<https://www3.dot.state.fl.us/EqualOpportunityCompliance/Account.aspx/LogIn?ReturnUrl=%2fEqualOpportunityCompliance%2f> .

### **DBE/AA Plans**

Contractors bidding on FOOT contracts are to have an approved DBE Affirmative Action Plan (FOOT Form 275-030-11B) on file with the FOOT Equal Opportunity Office before execution of a contract. DBE/AA Plans must be received with the contractors bid or received by the Equal Opportunity Office prior to the award of the contract.

Plans are approved by the Equal Opportunity Office in accordance with Ch. 14-78, Florida Administrative Code. Plans that do not meet these mandatory requirements may not be approved. Approvals are for a (3) three year period and should be updated at anytime there is a change in the company's DBE Liaison Officer and/or President. Contractors may evidence adoption of the DBEIAA Policy and Plan and/or a change in the designated DBE Liaison officer as follows:

- Print the first page of the document on company stationery {"letterhead"} that indicates the company's name, mailing address, phone number, etc.
- Print the company's name in the "—" space; next to "Date" print the month/day/year the policy is being signed; record the signature of the company's Chief Executive Officer, President or Chairperson in the space next to "by" and print the full first and last name and position title of the official signing the policy.
- Print the DBE Liaison's full name, email address, business mailing address and phone number the bottom of email.

E-mail the completed and signed DBE. AA Plan to: [eeoforms@dot.state.fl.us](mailto:eeoforms@dot.state.fl.us).

The Department will review the policy, update department records and issue a notification of approval or disapproval; a copy of the submitted plan will not be returned to the contractor.



## LOCAL AGENCY PROGRAM/FEDERAL-AID CERTIFICATION

The Bidder hereby declares that the undersigned is the person or persons responsible within the firm for the final decision as to the price(s) and amount of this bid and the Bidder further declares that:

1. The price(s) and amount of this bid have been arrived at independently, without consultation, communication, or agreement for the purpose of restricting competition with any other contractor, bidder or potential bidder.
2. Neither the price(s) nor the amount of this bid have been disclosed to any other firm or person who is a bidder or potential bidder on this project, and will not be so disclosed prior to the bid opening.
3. No attempt has been made or will be made to solicit, cause, or induce any firm or person to refrain from bidding on this project, or to submit a bid higher than the bid of this firm, or any intentionally high or non-competitive bid or other form of complementary bid.
4. The bid is made in good faith and not pursuant to any agreement or discussion with, or inducement from, any other firm or person to submit a complementary bid.
5. The Bidder has not offered or entered into a subcontract or agreement regarding the purchase of materials or services from any other firm or person, or offered, promised, or paid cash or anything of value to any other Bidder or person, whether in connection with this or any other project, in consideration for an agreement or promise by any other firm or person to refrain from bidding or to submit a complementary bid on this project.
6. The Bidder has not accepted or been promised any subcontract or agreement regarding the sale of materials or services to any other firm or person, and has not been promised or paid cash or anything of value by any other firm or person, whether in connection with this or any other project, in consideration for the firm's submitting a complementary bid, or agreeing to do so, on this project.
7. The Bidder has made a diligent inquiry of all members, officers, employees, and agents of the Bidder with responsibilities relating to the preparation, approval or submission of the firm's bid on this project and have been advised by each of them that he or she has not participated in any communication, consultation, discussion, agreement, collusion, act, or other conduct inconsistent with any of the statements and representations made in this Declaration.

8. As required by Section 337.165, Florida Statutes, the Bidder has fully informed the Local Agency in writing of all convictions of the firm, its affiliates (as defined in Section 337.165(1)(a), Florida Statutes), and all directors, officers, and employees of the firm and its affiliates for violation of state or federal antitrust laws with respect to a public contract or for violation of any state or federal law involving fraud, bribery, collusion, conspiracy, or material misrepresentation with respect to a public contract. This includes disclosure of the names of current employees of the firm or affiliates who were convicted of contract crimes while in the employ of another company.
  
9. The Bidder certifies that, except as noted below, neither the firm nor any person associated therewith in the capacity of owner, partner, director, officer, principal, investigator, project director, manager, auditor, and/or position involving the administration of federal funds:
  - a. is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions, as defined in 49 CFR s29.11 O(a), by any federal department or agency;
  - b. has within a three-year period preceding this certification been convicted of or had a civil judgment rendered against it for: commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a federal, state, or local government transaction or public contract; violation of federal or state antitrust statutes; or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
  - c. is presently indicted for or otherwise criminally or civilly charged by a federal, state, or local governmental entity with commission of any of the offenses enumerated in paragraph 9(b) of this certification; and
  - d. has within a three-year period preceding this certification had one or more federal, state, or local government public transactions terminated for cause or default.
  
10. The Bidder certifies that it shall not knowingly enter into any transaction with any subcontractor, material supplier, or vendor who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this project by any federal agency unless authorized by the Local Agency.

11. The firm certifies that the bidder is not a nonresident alien, or a foreign corporation/entity formed under the laws of a country other than the United States.
12. The Bidder certifies that no Federally appropriated funds have been paid, or will be paid by or on behalf of the undersigned, to any person for influencing or attempting to influence any officer or employee of any Federal agency, a Member of Congress an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment or modification of any Federal contract, grant, loan or cooperative agreement.

If any funds other than Federally appropriated funds have been paid by the Agency to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

Where the Bidder is unable to declare or certify as to any of the statements contained in the above stated paragraphs numbered (1) through (12), the Bidder has provided an explanation by attached separate sheet.

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Company Name

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Authorized Signature

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Printed Name

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Date

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION  
**CERTIFICATION REGARDING DEBARMENT, SUSPENSION,  
INELIGIBILITY AND VOLUNTARY EXCLUSION-  
LOWER TIER COVERED TRANSACTIONS FOR FEDERAL AID CONTRACTS**  
(Compliance with 2 CFR Parts 180 and 1200)

375-030-32  
PROCUREMENT  
11/15

It is certified that neither the below identified firm nor its principals are presently suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any federal department or agency.

Name of Consultant/Contractor: \_\_\_\_\_

By: \_\_\_\_\_

Date: \_\_\_\_\_

Title: \_\_\_\_\_

Instructions for Certification

**Instructions for Certification - Lower Tier Participants:**

(Applicable to all subcontracts, purchase orders and other lower tier transactions requiring prior FHWA approval or estimated to cost \$25,000 or more - 2 CFR Parts 180 and 1200)

- a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.
- b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.
- c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.
- d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).
- e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.
- f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.
- g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.
- h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
- i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.



STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION  
**DISCLOSURE OF LOBBYING ACTIVITIES**

375-030-34  
 PROCUREMENT  
 02/16

Is this form applicable to your firm?  
 YES  NO   
 If *no*, then please complete section 4  
 below for "Prime"

<b>1. Type of Federal Action:</b> a. contract b. grant c. cooperative agreement d. loan e. loan guarantee f. loan insurance	<b>2. Status of Federal Action:</b> a. bid/offer/application b. initial award c. post-award	<b>3. Report Type:</b> a. initial filing b. material change <b>For Material Change Only:</b> Year: _____ Quarter: _____ Date of last report: _____ (mm/dd/yyyy)
<b>4. Name and Address of Reporting Entity:</b> <input type="checkbox"/> Prime <input type="checkbox"/> Subawardee Tier _____, <i>if known:</i> _____ _____ _____ Congressional District, <i>if known:</i> 4c	<b>5. If Reporting Entity in No. 4 is a Subawardee, Enter Name and Address of Prime:</b> _____ _____ _____ Congressional District, <i>if known:</i> _____	
<b>6. Federal Department/Agency:</b> _____ _____	<b>7. Federal Program Name/Description:</b> _____ _____ CFDA Number, <i>if applicable:</i> _____	
<b>8. Federal Action Number, if known:</b> _____	<b>9. Award Amount, if known:</b> \$ _____	
<b>10. a. Name and Address of Lobbying Registrant</b> <i>(if individual, last name, first name, MI):</i> _____ _____ _____	<b>b. Individuals Performing Services</b> <i>(including address if different from No. 10a)</i> <i>(last name, first name, MI):</i> _____ _____ _____	
<b>11. Information requested through this form is authorized by title 31 U.S.C. section 1352. This disclosure of lobbying activities is a material representation of fact upon which reliance was placed by the tier above when this transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.</b>	Signature: _____ Print Name: _____ Title: _____ Telephone No.: _____ Date (mm/dd/yyyy): _____	
<b>Federal Use Only:</b>		Authorized for Local Reproduction Standard Form LLL (Rev. 7-97)

### INSTRUCTIONS FOR COMPLETION OF SF-LLL, DISCLOSURE OF LOBBYING ACTIVITIES

This disclosure form shall be completed by the reporting entity, whether subawardee or prime Federal recipient, at the initiation or receipt of a covered Federal action, or a material change to a previous filing, pursuant to title 31 U.S.C. section 1352. The filing of a form is required for each payment or agreement to make payment to any lobbying entity for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with a covered Federal action. Complete all items that apply for both the initial filing and material change report. Refer to the implementing guidance published by the Office of Management and Budget for additional information.

1. Identify the type of covered Federal action for which lobbying activity is and/or has been secured to influence the outcome of a covered Federal action.
2. Identify the status of the covered Federal action.
3. Identify the appropriate classification of this report. If this is a followup report caused by a material change to the information previously reported, enter the year and quarter in which the change occurred. Enter the date of the last previously submitted report by this reporting entity for this covered Federal action.
4. Enter the fullname, address, city, State and zip code of the reporting entity. Include Congressional District, if known. Check the appropriate classification of the reporting entity that designates if it is, or expects to be, a prime or subaward recipient. Identify the tier of the subawardee, e.g., the first subawardee of the prime is the 1st tier. Subawards include but are not limited to subcontracts, subgrants and contract awards under grants.
5. If the organization filing the report in item 4 checks "Subawardee," then enter the full name, address, city, State and zip code of the prime Federal recipient. Include Congressional District, if known.
6. Enter the name of the Federal agency making the award or loan commitment. Include at least one organizational level below agency name, if known. For example, Department of Transportation, United States Coast Guard.
7. Enter the Federal program name or description for the covered Federal action (item 1). If known, enter the full Catalog of Federal Domestic Assistance (CFDA) number for grants, cooperative agreements, loans, and loan commitments.
8. Enter the most appropriate Federal identifying number available for the Federal action identified in item 1 (e.g., Request for Proposal (RFP) number; Invitation for Bid (IFB) number; grant announcement number; the contract, grant, or loan award number; the application/proposal control number assigned by the Federal agency). Include prefixes, e.g., "RFP-DE-90-001."
9. For a covered Federal action where there has been an award or loan commitment by the Federal agency, enter the Federal amount of the award/loan commitment for the prime entity identified in item 4 or 5.
10. (a) Enter the full name, address, city, State and zip code of the lobbying registrant under the Lobbying Disclosure Act of 1995 engaged by the reporting entity identified in item 4 to influence the covered Federal action.  
  
(b) Enter the full names of the individual(s) performing services, and include full address if different from 10 (a). Enter Last Name, First Name, and Middle Initial (MI).
11. The certifying official shall sign and date the form, print his/her name, title, and telephone number.

According to the Paperwork Reduction Act, as amended, no persons are required to respond to a collection of information unless it displays a valid OMB Control Number. The valid OMB control number for this information collection is OMB No. 0348-0046. Public reporting burden for this collection of information is estimated to average 10 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0046), Washington, DC 20503.

**CERTIFICATION FOR DISCLOSURE OF LOBBYING ACTIVITIES  
ON FEDERAL-AID CONTRACTS  
(Compliance with 49CFR, Section 20.100 (b))**

The prospective participant certifies, by signing this certification, that to the best of his or her knowledge and belief:

(1) No federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any federal contract, the making of any federal grant, the making of any federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure of Lobbying Activities", in accordance with its instructions. (Standard Form-LLL can be obtained from the Florida Department of Transportation's Professional Services Administrator or Procurement Office.)

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The prospective participant also agrees by submitting his or her proposal that he or she shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such subrecipients shall certify and disclose accordingly.

Name of Consultant:

By: \_\_\_\_\_ Date: \_\_\_\_\_ Authorized Signature

Title: \_\_\_\_\_

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION  
**NON-COLLUSION DECLARATION AND  
COMPLIANCE WITH 49 CFR § 29**

575-060-13  
RIGHT OF WAY  
05/01  
Page 1 of 3

ITEM/SEGMENT NO.: \_\_\_\_\_  
F.A.P. NO.: \_\_\_\_\_  
MANAGING DISTRICT: \_\_\_\_\_  
PARCEL NO.: \_\_\_\_\_  
COUNTY OF: \_\_\_\_\_  
BID LETTING OF: \_\_\_\_\_

I, \_\_\_\_\_, hereby declare that I am  
(NAME)  
\_\_\_\_\_ of \_\_\_\_\_  
(TITLE) (FIRM)  
of \_\_\_\_\_  
(CITY AND STATE)

and that I am the person responsible within my firm for the final decision as to the price(s) and amount of this Bid on this State Project.

I further declare that:

1. The prices(s) and amount of this bid have been arrived at independently, without consultation, communication or agreement, for the purpose of restricting competition with any other contractor, bidder or potential bidder.
2. Neither the price(s) nor the amount of this bid have been disclosed to any other firm or person who is a bidder or potential bidder on this project, and will not be so disclosed prior to the bid opening.
3. No attempt has been made or will be made to solicit, cause or induce any other firm or person to refrain from bidding on this project, or to submit a bid higher than the bid of this firm, or any intentionally high or non-competitive bid or other form of complementary bid.
4. The bid of my firm is made in good faith and not pursuant to any agreement or discussion with, or inducement from, any firm or person to submit a complementary bid.
5. My firm has not offered or entered into a subcontract or agreement regarding the purchase of materials or services from any firm or person, or offered, promised or paid cash or anything of value to any firm or person, whether in connection with this or any other project, in consideration for an agreement or promise by any firm or person to refrain from bidding or to submit a complementary bid on this project.
6. My firm has not accepted or been promised any subcontract or agreement regarding the sale of materials or services to any firm or person, and has not been promised or paid cash or anything of value by any firm or person, whether in connection with this or any other project, in consideration for my firm's submitting a complementary bid, or agreeing to do so, on this project.
7. I have made a diligent inquiry of all members, officers, employees, and agents of my firm with responsibilities relating to the preparation, approval or submission of my firm's bid on this project and have been advised by each of them that he or she has not participated in any communication, consultation, discussion, agreement, collusion, act or other conduct inconsistent with any of the statements and representations made in this Declaration.
8. As required by Section 337.165, Florida Statutes, the firm has fully informed the Department of Transportation in writing of all convictions of the firm, its affiliates (as defined in Section 337.165(l)(a), Florida Statutes), and all directors, officers, and employees of the firm and its affiliates for violation of state or federal antitrust laws with respect to a public contract or for violation of any state or federal law involving fraud, bribery, collusion, conspiracy or material misrepresentation with respect to a public contract. This includes disclosure of the names of current employees of the firm or affiliates who were convicted of contract crimes while in the employ of another company.



9. I certify that, except as noted below, neither my firm nor any person associated therewith in the capacity of owner, partner, director, officer, principal, investigator, project director, manager, auditor, and/or position involving the administration of Federal funds:

(a) is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions, as defined in 49 CFR §29.110(a), by any Federal department or agency;

(b) has within a three-year period preceding this certification been convicted of or had a civil judgment rendered against him or her for: commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a Federal, State or local government transaction or public contract; violation of Federal or State antitrust statutes; or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements or receiving stolen property;

(c) is presently indicted for or otherwise criminally or civilly charged by a Federal, State or local governmental entity with commission of any of the offenses enumerated in paragraph 9(b) of this certification; and

(d) has within a three-year period preceding this certification had one or more Federal, State or local government public transactions terminated for cause or default.

10. I(We), certify that I(We), shall not knowingly enter into any transaction with any subcontractor, material supplier, or vendor who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this contract by any Federal Agency unless authorized by the Department.

Where I am unable to declare or certify as to any of the statements contained in the above stated paragraphs numbered (1) through (10), I have provided an explanation in the "Exceptions" portion below or by attached separate sheet.

**EXCEPTIONS:**

(Any exception listed above will not necessarily result in denial of award, but will be considered in determining bidder responsibility. For any exception noted, indicate to whom it applies, initiating agency and dates of agency action. Providing false information may result in criminal prosecution and/or administrative sanctions.)

I declare under penalty of perjury that the foregoing is true and correct.

CONTRACTOR: \_\_\_\_\_ (Seal)

BY: \_\_\_\_\_  
NAME AND TITLE PRINTED

WITNESS: \_\_\_\_\_

BY: \_\_\_\_\_  
SIGNATURE

WITNESS: \_\_\_\_\_

Executed on this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_

**FAILURE TO FULLY COMPLETE AND EXECUTE THIS DOCUMENT  
MAY RESULT IN THE BID BEING DECLARED NONRESPONSIVE**

## REQUIRED CONTRACT PROVISIONS

This certification applies to subcontractors, material suppliers, vendors and other lower tier participants.

-Appendix B of 49 CFR Part 29 –

Appendix B-Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions

### *Instructions for Certification*

1. By signing and submitting this proposal, the prospective lower tier participant is providing the certification set out below.
2. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.
3. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
4. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the person to whom this proposal is submitted for assistance in obtaining a copy of those regulations.
5. The prospective lower tier participant agrees by submitting this proposal that it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.
6. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.
7. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that it is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the Nonprocurement List.
8. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
9. Except for transactions authorized under paragraph 5 of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

### *Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions*

- (1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- (2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION  
**LAP CERTIFICATION OF CURRENT CAPACITY**

525-010-48  
PROGRAM MANAGEMENT  
12/08  
Page 1 of 2

CONFIDENTIAL

For bids to be received on \_\_\_\_\_  
(Letting Date)

Fill in your FDOT Vendor Number

VF \_\_\_\_\_

(Only applicable to FDOT pre-qualified contractors)

CERTIFICATE

I hereby certify that the amount of any proposal submitted by this bidder for the above letting does not exceed the amount of the Firm's CURRENT CAPACITY (maximum capacity rating less total uncompleted work).

The total uncompleted work as shown on  
the "Status of Contracts on Hand" report (page 2) \$ \_\_\_\_\_

I further certify that the "Status of Contracts on Hand" report (page 2) was prepared as follows:

1. If the letting is before the 25<sup>th</sup> day of the month, the certificate and report reflect the uncompleted work as of the 15<sup>th</sup> day of the month, last preceding the month of the letting.
2. If the letting is after the 25<sup>th</sup> day of the month, the certificate and report reflects the uncompleted work in progress as of the 15<sup>th</sup> day of the month of the letting.
3. All new contracts (and subcontracts) awarded earlier than five days before the letting date are included in the report and charged against our total rating.

I certify that the information above is correct.

\_\_\_\_\_  
NAME OF FIRM

Sworn to and subscribed this \_\_\_\_\_ day  
of \_\_\_\_\_, 20 \_\_\_\_\_

By: \_\_\_\_\_

\_\_\_\_\_  
Title

