CONTRACT DOCUMENTS AND SPECIFICATIONS

for

Wayne Executive Jetport Perimeter Fencing Improvements February 2024 WKD #20190561.00.RA

Prepared for

Wayne County Wayne County Courthouse 224 E. Walnut Street Goldsboro, NC 27530

Plans & Specifications
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BID DOCUMENTS - NOT FOR CONSTRUCION

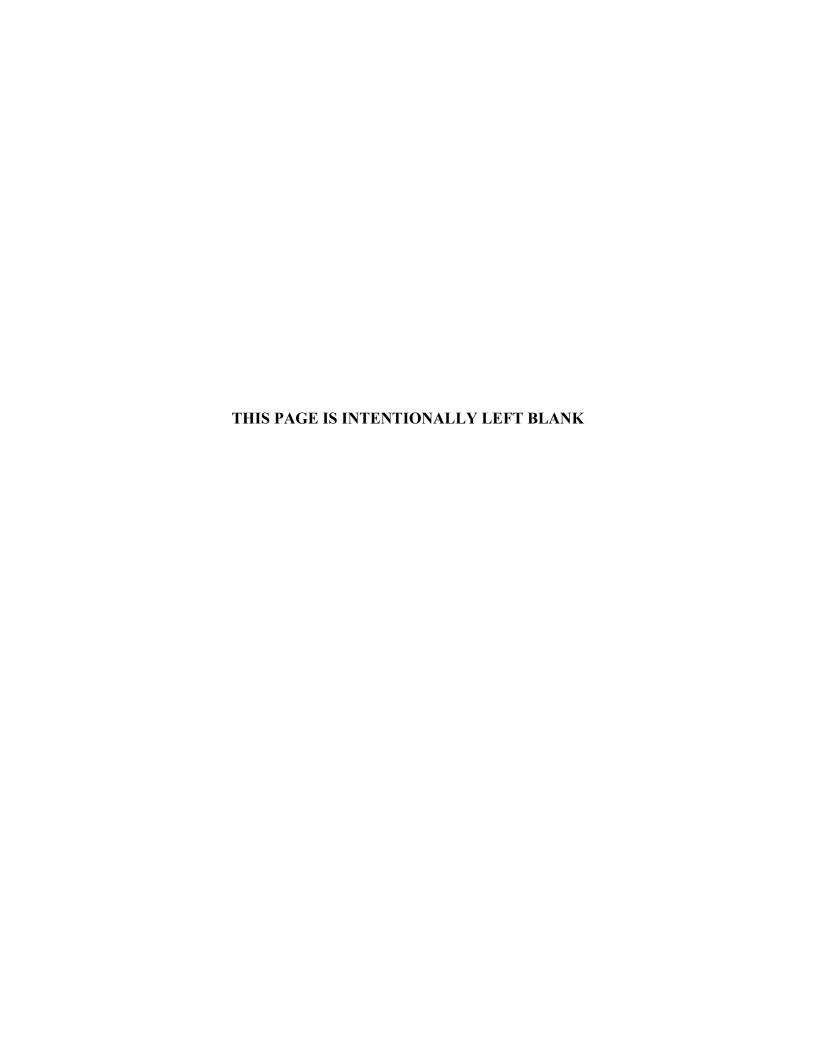


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APPENDIX

Appendix A – Construction Safety & Phasing Plan (CSPP)

Advertisement for Bids

Perimeter Fence Wayne Executive Jetport Wayne County, North Carolina

Sealed proposals will be received by the Wayne County in the County Manager's Conference Room, of the 224 E. Walnut Street, 4th Floor Wayne County Courthouse, Goldsboro, NC 27530, up to 2:00 PM, Wednesday, February 21, 2024, and immediately thereafter publicly opened and read for the furnishing of labor, material and equipment for Perimeter Fence project.

The project will include the construction of primarily wildlife fence and a small amount of ornamental fence around airport perimeter.

A <u>Pre-Bid Conference</u> has been scheduled for <u>Thursday, February 8, 2024 at 2:00 PM</u>, local time at the Wayne Executive Jetport. Attendance at this Pre-Bid Conference is highly encouraged, but not required for all bidders intending to submit a prime bid on this project. All other interested parties including, but not limited to, subcontractors, suppliers, and vendors are welcome to attend.

The project consists of three (3) phases with separate bid schedules. It is anticipated that the contract award will be made to the lowest responsive and responsible bidder for the Phase 2 bid schedule (Base Bid) if an award is made.

Proposals must be submitted in sealed envelopes with the Bidder's name, full mailing address, and General Contractor License Number shown as the return address. Sealed envelopes shall be addressed to:

Wayne County Courthouse Mandy Trujillo, Procurement Specialist 224 E. Walnut Street Goldsboro, NC 27530

Proposals submitted without the prescribed information may be rejected.

All Bidders should be aware that the date, time, and location for Proposal Submittal and Opening may be modified by Addendum.

Plans, Specifications and Contract Documents may be examined at: W.K. Dickson & Co., Inc. 720 Corporate Center Dr, Raleigh, NC 27607. Plans, Specifications, and Contract Documents are available for purchase by going to Plan Room at www.wkdickson.com. Please note that only registered plan holders may bid as a General Contractor.

All Contractors are hereby notified that they must have proper licenses under the state law for their trades. General Contractors are notified that applicable statues of North Carolina will be observed in receiving and awarding general contracts.

The North Carolina Department of Transportation has agreed to reimburse the Owner for portions of the project costs. The Owner will not accept or consider proposals from any contractor whose name, at the time of opening of bids or award, appears on the current list of ineligible contractors published by the

Comptroller General of the United States under Section 5.6 (b) of the Regulations of the Secretary of Labor (29) CFR nor a proposal from any firm, corporation, partnership, or proprietorship in which an ineligible contractor who, at the time of the opening of bids or the award, is removed from the North Carolina Department of Transportation's list of prequalified contractors.

Contractors desiring to perform work on NCDOT projects shall pre-qualify with the Department. Upon pre-qualification, Contractors will be placed on the Department's Prequalified Bidders List and/or the Approved Subcontractors List, depending on the application submitted. The requirements for pre-qualification are listed in section 102-2 of the Standard Specifications for Roads and Structures, January 2024. For more information, please refer to the NCDOT website at https://connect.ncdot.gov/business/Prequal/Pages/default.aspx

Bidders must be prequalified by the NCDOT prior to submitting a bid. Subcontractors performing work on this project must be prequalified prior to performing any work on this project.

Each proposal shall be accompanied by a cash deposit or a certified check drawn on a bank or trust company insured by the Federal Deposit Insurance Corporation in an amount equal to not less than 5% of the proposal or a bid bond of 5% of the bid executed by a surety company licensed under the laws of North Carolina to execute such bonds. The deposits shall be made payable to the Owner and shall be retained by the Owner as liquidated damages in the event of the successful bidder fails to properly execute the contract within ten (10) days after award and to give satisfactory surety as required by law.

By submitting a bid the Contractor certifies that he has under his direct control or at his disposal the men, equipment, and materials required to execute this work as specified. Lack of such control or availability of men, equipment or materials shall constitute failure to properly execute the Contract. Performance and Labor and Material Payment Bonds will be required for 100% of the Contract price, with a surety or sureties legally authorized to do business in the State of North Carolina.

A bid may be withdrawn only as provided by the applicable statues of North Carolina. If a bid is withdrawn within 90 days of the bid opening, the Bid Guarantee shall be forfeited; provided that, if the request to withdraw is made not later than 72 hours after the opening of bids, and if the withdrawal is allowed, the Owner may return the bid guarantee.

Certain mandatory federal and state requirements apply to this solicitation and will be made part of any contract awarded.

- 1. Buy American Preference (Title 49 United States Code, Chap 501);
- 2. Foreign Trade Restriction (49 CFR Part 30);
- 3. Disadvantaged Business Enterprise (49 CFR Part 30);
- 4. Davis-Bacon Act (29 CFR Part 5); applies to Phases 1 & 3 only
- 5. Equal Employment Opportunity (Executive Order 11246 and 41 CFR Part 60);
- 6. Goals for Minority and Female Participation (41 CFR Part 60-4.2);
- 7. Certification of Non-Segregated Facilities (41 CFR Part 60-1.8);
- 8. Debarment, Suspension, Ineligibility and Voluntary Exclusion (49 CFR Part 29).
- 9. Drug-Free Workplace Act of 1988 (41 USC 702-706).

NON-DISCRIMINATION CLAUSE: The Special Provisions (SP1 G67) of the North Carolina Department of Transportation apply to this contract. It is the policy of Wayne County to practice

nondiscrimination based on race, color, sex, or national origin in the award or performance of this contract. All firms qualifying under this solicitation are encouraged to submit bids/proposals. Award of this contract will be conditioned upon satisfying the requirements of this bid specification. These requirements apply to all bidders/offerors, including those who qualify as DBE or MBE/WBE. A DBE or combined MBE/WBE contract goal of **ten percent (10%)** has been established for this contract. The bidder/offeror shall make good faith efforts, as defined in SP1 G67 to meet the contract goal by utilizing DBE or MBE/WBE in the performance of this contract.

The apparent successful bidder will be required to submit in the "Proposal" section of his bid the information concerning the DBE or MBE/WBE that will participate in this contract. This information will include: (1) the names, addresses and telephone numbers of DBE or MBE/WBE firms that will participate in the contract, and the certifying agency documentation of current status as a bona fide DBE or MBE/WBE; (2) a description of the work that each DBE or MBE/WBE firm will perform; (3) the dollar amount of the participation of each DBE or MBE/WBE firm participating (4) written documentation of the bidder/offeror's commitment to use a DBE or MBE/WBE subcontractor whose participation it submits to meet the contract goal; and (5) written confirmation from the DBE or MBE/WBE that is participating in the contract as provided in the commitment made under. (4).

If the bidder fails to achieve the contract goal stated herein, he will be required to provide documentation demonstrating that he made a good faith effort. The bidder's documentation shall be submitted in accordance with the provisions of SP1 G67.

The Owner reserves the right to reject any or all bids and to waive informalities and minor irregularities.

Wayne County Chip Crumpler, County Manager 224 E. Walnut Street Goldsboro, NC 27530

End of Advertisement for Bids

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INSTRUCTIONS TO BIDDERS

The terms "Proposal" or "Bid" shall refer to the written offer of the bidder (or "proposer") (when submitted on the approved bid/proposal form) to perform the contemplated work and furnish the necessary materials in accordance with the provisions of the plans and specifications. The terms "proposal" and "bid" may be used interchangeably throughout the contract documents. The bid, to be considered, must be submitted in accordance with the complete set of documents including the plans, and bidders are specifically directed to review the bid forms, these Instructions to Bidders, and the General Provisions.

1. BIDS

Bid forms have been included in this bound set of contract documents. These shall remain bound into this set of documents and shall be used to submit a bid.

Requirements for the preparation and submittal of a bid are included throughout these contract documents. Prospective bidders shall familiarize themselves with the complete set of documents including the plans, and are specifically directed to the bid forms, these Instructions to Bidders, and to Sections 20 and 30 of the General Provisions.

In the preparation of a bid, all blank spaces for bid items and bid alternatives must be properly filled in (written in ink or typed). Unit Prices shall be stated both in words and numerals. Total prices for bid items shall also be stated both in words and numerals. Total amounts bid shall be stated both in words and numerals in the proper place in the bid form. The complete form shall be without alterations or erasures. In case of conflict between words and numerals, the words, unless obviously incorrect, shall govern.

The bidder shall complete the bid form as follows:

- a. If the documents are executed by a sole proprietor, that fact shall be evidenced by the word "Owner" appearing after the name of the person executing them.
- b. If the documents are executed by a partnership, that fact shall be evidenced by the word "Partner" appearing after the name of the partner executing them.
- c. If the documents are executed by a corporation, they shall be executed in the name of the corporation by either the President or the Vice President and attested by the Secretary or Assistant Secretary and the corporate seal shall be impressed on each copy of the documents.
- d. All signatures must be in ink and properly witnessed.

The completed bid forms, with all required attachments, shall be submitted in a sealed envelope on or before 2:00 PM, Wednesday, February 21, 2024. Bids shall be addressed and delivered to:

Wayne County Courthouse Mandy Trujillo, Procurement Specialist 224 E. Walnut Street Goldsboro, NC 27530

1. Bids will be opened at the aforementioned address.

- 2. Bid packages shall be enclosed in a sealed envelope, as required by the General Provisions Section 20, PROPOSAL REQUIREMENTS AND CONDITIONS.
- 3. It is solely the responsibility of the bidder to deliver his bid package to the proper official at the appointed time and place prior to the announced time for the opening of bids. Late delivery of the bid package for any reason shall disqualify the bid. A bidder may withdraw a bid provided that the bidder's request for withdrawal is received by the owner in writing or by telegram before the time specified for the opening of bids.
- 4. Modifications to bids will be accepted only if such modifications are delivered in writing (including telegram) to the Owner prior to the time for the opening of bids. Should the bidder find discrepancies in or omissions from the drawings or documents, or should he be in doubt as to the meaning of anything in the documents, he shall at once notify the Engineer, in writing, who, when necessary, will send a written instruction to all bidders through the issuance of an addendum to the contract documents. Neither, the Owner, nor the Engineer nor their representatives will be responsible for any oral instruction or interpretation.

1.2 BID GUARANTY

A. See Section 20-10 BID GUARANTY/BID BOND, of the General Provisions.

1.3 **QUALIFICATIONS OF BIDDERS**

- A. By submission of a bid the bidder agrees to perform the work if awarded a contract, and to perform at least 25% of the work under the contract with his own organization and with his own employees. If during the progress of the work hereunder, The Contractor requests an adjustment of such percentage and the Engineer determines that it would be to the Owner's advantage, the percentage of the work required to be performed by the Contractor's organization may be adjusted provided prior written approval of such adjustment is obtained from the Engineer.
- B. Each bidder must furnish with his bid a breakdown of the work showing which portions of the work he will perform with his own forces and the estimated cost of these items.
- C. All bidders, including subcontractors must be properly licensed in the state and must indicate their current license number on the outside of the sealed envelope containing their bid. Additional requirements for bid submission are: Contractor's must have a current listing as prequalified with the NCDOT.
- D. All bidders must be prequalified by the NCDOT prior to submitting a bid and all contractors must be prequalified by the NCDOT prior to performing work on the project.

1.4 E-VERIFY

Effective September 4, 2013, House Bill 786/S.L. 2013-418, passed by the General Assembly of North Carolina, requires that business entities and employers with whom a public entity contracts provide proof of enrollment and participation in E-Verify, an internet-based system operated by the U.S. Department of Homeland Security, which may be used to determine the eligibility of new hires to work in the United States. This legislation applies to all state agencies, cities, counties, school boards, as well as all private employers doing business in North Carolina who employ 25 or more employees

in the State of North Carolina. This also applies to all city and county contracts, including all formal purchase and construction and repair contracts let by any public entity, as well as those not subject to competitive bidding requirements, such as service contracts. For other units of local government, such as local school boards and water/sewer authorities, the prohibition only applies to purchase and construction/repair contracts in the formal bidding range.

HB786 imposes E-Verify requirements on contractors who enter into certain contracts with state agencies and local governments. The legislation specifically prohibits governmental units from entering into certain contracts "unless the contractor and the contractor's subcontractors comply with the requirements of Article 2 of Chapter 64 of the General Statutes." (Article 2 of Chapter 64 establishes North Carolina's E-Verify requirements for private employers). It is important to note that the verification requirement applies to subcontractors as well as contractors.

The new laws specifically prohibit governmental units from entering into contracts with contractors who have not (or their subs have not) complied with E-Verify requirements. Although the new statutes don't specify the consequences for entering into a contract in violation of this prohibition, it may be reasonable to assume that the contract would be void.

As proof of enrollment and participation in E-Verify, Public Entities in North Carolina require the following:

1. See E-Verify Affidavit of Agreement for North Carolina

Any violation of this provision by the Contractor, would provide grounds for a breach of contract claim by the local government. Should the contractor fail to ensure that his or her subcontractors, if any, or subsequently hired subcontractors are non-compliant, would allow for the contract to be voided by the local government.

The following websites provide further information about participation and enrollment in E-Verify: www.uscis.gov/everfy.

1.5 EXAMINATION OF CONTRACT DOCUMENTATION AND SITE

- A. Before submitting a bid, each bidder must:
 - 1. Examine the bidding documents thoroughly;
 - 2. Visit the site to familiarize himself with local conditions that may in any manner affect cost, progress or performance of the work;
 - 3. Familiarize himself of federal, state and local laws, ordinances, rules and regulations that may in any manner affect cost, progress or performance of the work;
 - 4. Study and carefully correlate bidder's observations with the Drawings and Specifications; and
 - 5. Notify the Engineer in writing of any conflicts, errors or discrepancies.
- B. Before submitting a bid, the bidder may, at his own expense and assuming all risks, make any additional investigations and/or tests as the bidder may deem necessary for him to prepare his bid for performance of the work in accordance with the time, price and other terms and conditions of the Contract Documents. On request in advance, the Owner will provide each bidder access to the site to conduct such explorations and tests as each bidder deems necessary for submission of a

- bid. The bidder shall upon completion of such explorations fill and compact as necessary all holes, and clean and restore the site to its former condition.
- C. The Submission of a bid will constitute an incontrovertible representation by the bidder that he has complied with every requirement to bid the project and that the Contract Documents are sufficient in scope and detail to indicate and convey understanding of all terms and conditions for performance of the work.

1.6 ADDENDA

A. All questions concerning the meaning or intent of the Contract Documents are to be directed to the Engineer. During the bidding process, such inquiries must be made in writing. Interpretations or clarifications considered necessary by the Engineer in response to such questions will be made through the issuance of addenda to the Contract Documents. Any addenda to the Contract Documents issued during the time of bidding will be considered a part of the Contract Documents and will become a part of the Contract. Receipt of addenda shall be acknowledged by the bidder on the bid form.

1.7 INTERPRETATION OF ESTIMATED PROPOSAL QUANTITIES

A. See Section 20-05 INTERPRETATION OF ESTIMATED PROPOSAL QUANTITIES, of the General Provisions.

1.8 AWARD OF CONTRACT

- A. The Award of the Contract will be made to the lowest responsive and responsible bidder as soon as practicable. The Owner reserves the right to reject any or all bids and to waive informalities and minor irregularities. The Owner may require the apparent low bidder to qualify himself to be a responsible bidder by furnishing financial statements, experience in completion of similar projects, the names of holders of trade licenses and similar information.
- B. The NC Department of Transportation has agreed to reimburse the Owner for portions of the project costs. The Owner will not accept or consider proposals from which any Contractor whose name, at the time of opening of bids or award, appears on the current list of ineligible contractors published by the Comptroller General of the United States under Section 5.6 (b) of the Regulations of the Secretary of Labor (29 CFR Part 5), NC Department of Transportation list of ineligible contractors nor a proposal from any firm, corporation, partnership or proprietorship in which an ineligible Contractor has a substantial interest.
- C. All contractors and subcontractors must be pre-qualified with NCDOT to perform work on the project.

1.9 CANCELLATION OF AWARD

A. The Owner reserves the right to cancel the award without liability to the bidder, except return of the bid guaranty, at any time before a contract has been fully executed by all parties and approved by the Owner.

1.10 PERFORMANCE AND LABOR AND MATERIALS PAYMENT BONDS

A. The Contractor shall furnish Performance, Labor, and Materials Payment surety bonds in the form indicated in the Contract Documents executed by a surety company authorized to do business in the state. Each such bond shall be in an amount equal to one hundred percent (100%) of the Contract price. Separate surety bonds shall be provided for the faithful performance of the Contract, for the payment of all persons performing labor on the project, and for furnishing materials in connection therewith.

1.11 BIDS TO BE RETAINED

A. No bid shall be withdrawn within 90 days after the scheduled time for the receipt of bids pending the execution of a Contract between the Owner and the successful bidder. Should the successful bidder default and not execute a contract, the Contract may be offered to the next lowest bidder. In this event the low bidder's bid guaranty will be kept by the Owner as liquidated damages.

END OF SECTION

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CONTRACTOR CONTRACTUAL REQUIREMENTS AND TITLE VI ASSURANCES

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CIVIL RIGHTS ACT OF 1964, TITLE VI - CONTRACTOR CONTRACTUAL REQUIREMENTS

TITLE VI SOLICITATION NOTICE

Wayne County, in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 USC §§ 2000d to 2000d-4) and the Regulations, hereby notifies all bidders or offerors that it will affirmatively ensure that for any contract entered into pursuant to this advertisement, [select businesses, or disadvantaged business enterprises or airport concession disadvantaged business enterprises] will be afforded full and fair opportunity to submit bids in response to this invitation and no businesses will be discriminated against on the grounds of race, color, national origin (including limited English proficiency), creed, sex (including sexual orientation and gender identity), age, or disability in consideration for an award.

COMPLIANCE WITH NONDISCRIMINATION REQUIREMENTS:

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 Title VI List of Pertinent Nondiscrimination Acts and Authorities, as they may be amended from time to time, 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 grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor shall not participate either directly or indirectly in the discrimination prohibited by Nondiscrimination Acts and Authorities, including employment practices when the contract covers any activity, project, or program set forth in Appendix B of 49 CFR part 21.
- 3. Solicitations for Subcontracts, 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 a subcontract, including procurements of materials or leases of equipment, each potential subcontractor or supplier shall be notified by the contractor of the contractor's obligations under this contract and the Regulations relative to nondiscrimination on the grounds of race, color, or national origin.
- 4. **Information and Reports.** The contractor shall provide all information and reports required by the Acts, the Regulations and 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 Sponsor or the Federal Aviation Administration (FAA) to be pertinent to ascertain compliance with such Nondiscrimination Acts and Authorities 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 sponsor or the FAA, as appropriate, and shall set forth what efforts it has made to obtain the information.

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- 5. **Sanctions for Noncompliance.** In the event of the contractor's noncompliance with the nondiscrimination provisions of this contract, the sponsor shall impose such contract sanctions as it or the FAA may determine to be appropriate, including, but not limited to:
 - a. Withholding of payments to the contractor under the contract until the contractor complies, and/or
 - b. Cancellation, termination, or suspension of the contract, in whole or in part.
- 6. **Incorporation of Provisions.** The contractor shall include the provisions of paragraphs 1 through 6 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 sponsor or the FAA 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 Sponsor) to enter into such litigation to protect the interests of the sponsor and, in addition, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

THE VI LIST OF PERTINENT NONDISCRIMINATION ACTS AND AUTHORITIES

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:

- Title VI of the Civil Rights Act of 1964 (42 USC § 2000d *et seq.*, 78 stat. 252) (prohibits discrimination on the basis of race, color, national origin);
- 49 CFR part 21 (Non-discrimination in Federally-Assisted programs of the Department of Transportation—Effectuation of Title VI of the Civil Rights Act of 1964);
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 USC § 4601) (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- Section 504 of the Rehabilitation Act of 1973 (29 USC § 794 *et seq.*), as amended (prohibits discrimination on the basis of disability); and 49 CFR part 27 (Nondiscrimination on the Basis of Disability in Programs or Activities Receiving Federal Financial Assistance);
- The Age Discrimination Act of 1975, as amended (42 USC § 6101 *et seq.*) (prohibits discrimination on the basis of age);
- Airport and Airway Improvement Act of 1982 (49 USC § 47123), as amended (prohibits discrimination based on race, creed, color, national origin, or sex);
- The Civil Rights Restoration Act of 1987 (PL 100-259) (broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, the Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms "programs or activities" to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not);

- Titles II and III of the Americans with Disabilities Act of 1990 (42 USC § 12101, et seq) (prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities) as implemented by U.S. Department of Transportation regulations at 49 CFR parts 37 and 38;
- The Federal Aviation Administration's Nondiscrimination statute (49 USC § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);
- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations (ensures nondiscrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations);
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs [70 Fed. Reg. 74087 (2005)];
- Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 USC § 1681, et seq).

AIRPORT AND AIRWAY IMPROVEMENT ACT OF 1982, SECTION 520 - GENERAL CIVIL RIGHTS PROVISIONS

In all its activities within the scope of its airport program, the Contractor agrees to comply with pertinent statutes, Executive Orders, and such rules as identified in Title VI List of Pertinent Nondiscrimination Acts and Authorities to ensure that no person shall, on the grounds of race, color, national origin (including limited English proficiency), creed, sex (including sexual orientation and gender identity), age, or disability be excluded from participating in any activity conducted with or benefiting from Federal assistance.

This provision is in addition to that required by Title VI of the Civil Rights Act of 1964.

The above provision binds the Contractor and subcontractors from the bid solicitation period through the completion of the contract.

DISADVANTAGED BUSINESS ENTERPRISES

- 1. **Contract Assurance.** The Contractor, subrecipient 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:
 - a. Withholding monthly progress payments;

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- b. Assessing sanctions;
- c. Liquidated damages; and/or
- d. Disqualifying the Contractor from future bidding as non-responsible.
- 2. **Prompt Payment.** The prime contractor agrees to pay each subcontractor under this prime contract for satisfactory performance of its contract no later than seven days from the receipt of each payment the prime contractor receives from the recipient. The prime contractor agrees further to return retainage payments to each subcontractor within 7 days after the subcontractor's work is satisfactorily completed. Any delay or postponement of payment from the above referenced time frame may occur only for good cause following written approval of the recipient. This clause applies to both DBE or MBE/WBE and non-DBE or non-MBE/WBE subcontractors.

CERTIFICATION REGARDING LOBBYING

The Bidder or Offeror certifies by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

- (1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the Bidder or Offeror, 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 sub-awards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all sub-recipients 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 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.

ACCESS TO RECORDS AND REPORTS

The Contractor shall maintain an acceptable cost accounting system. The Contractor agrees to provide the Sponsor, the Federal Aviation Administration and the Comptroller General of the United States or any of

their duly authorized representatives, access to any books, documents, papers, and records of the contractor which are directly pertinent to the specific contract for the purpose of making audit, examination, excerpts

and transcriptions. The Contractor agrees to maintain all books, records and reports required under this contract for a period of not less than three years after final payment is made and all pending matters are

closed.

BREACH OF CONTRACT TERMS (2 CFR Part 200)

For all contracts that exceed the simplified acquisition threshold, presently set at \$150,000.

Any violation or breach of terms of this contract on the part of the Contractor or their subcontractors may result in the suspension or termination of this contract or such other action that may be necessary to enforce

the rights of the parties of this agreement.

Owner will provide Contractor written notice that describes the nature of the breach and corrective actions

the Contractor must undertake in order to avoid termination of the contract. Owner reserves the right to withhold payments to Contractor until such time the Contractor corrects the breach or the Owner elects to

terminate the contract. The Owner's notice will identify a specific date by which the Contractor must correct the breach. Owner may proceed with termination of the contract if the Contractor fails to correct

the breach by the deadline indicated in the Owner's notice.

The duties and obligations imposed by the Contract Documents and the rights and remedies available thereunder shall be in addition to and not a limitation of any duties, obligations, rights and remedies otherwise

imposed or available by law.

RIGHTS TO INVENTIONS

All rights to inventions and materials generated under this contract are subject to regulations issued by the

FAA and the Sponsor of the Federal grant under which this contract is executed.

TRADE RESTRICTION CLAUSE

The contractor or subcontractor, by submission of an offer and/or execution of a contract, certifies that it:

1. is not owned or controlled by one or more citizens of a foreign country included in the list of

countries that discriminate against U.S. firms published by the Office of the United States Trade

Representative (USTR):

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WK Dickson Project No.: 20190561.00.RA

- 2. has not knowingly entered into any contract or subcontract for this project with a person that is a citizen or national of a foreign country included on the list of countries that discriminate against U.S. firms as published by the USTR; and
- 3. has not entered into any subcontract for any product to be used on the Federal project that is produced in a foreign country included on the list of countries that discriminate against U.S. firms published by the USTR.

This certification concerns a matter within the jurisdiction of an agency of the United States of America and the making of a false, fictitious, or fraudulent certification may render the maker subject to prosecution under Title 18 USC Section 1001.

The Offeror/Contractor must provide immediate written notice to the Owner if the Offeror/Contractor learns that its certification or that of a subcontractor was erroneous when submitted or has become erroneous by reason of changed circumstances. The Contractor must require subcontractors provide immediate written notice to the Contractor if at any time it learns that its certification was erroneous by reason of changed circumstances.

Unless the restrictions of this clause are waived by the Secretary of Transportation in accordance with 49 CFR 30.17, no contract shall be awarded to an Offeror or subcontractor:

- 1) who is owned or controlled by one or more citizens or nationals of a foreign country included on the list of countries that discriminate against U.S. firms published by the USTR or
- 2) whose subcontractors are owned or controlled by one or more citizens or nationals of a foreign country on such USTR list or
- 3) who incorporates in the public works project any product of a foreign country on such USTR list.

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 provision. The knowledge and information of a contractor is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

The Offeror agrees that, if awarded a contract resulting from this solicitation, it will incorporate this provision for certification without modification in all lower tier subcontracts. The Contractor may rely on the certification of a prospective subcontractor that it is not a firm from a foreign country included on the list of countries that discriminate against U.S. firms as published by USTR, unless the Offeror has knowledge that the certification is erroneous.

This certification is a material representation of fact upon which reliance was placed when making an award. If it is later determined that the Contractor or subcontractor knowingly rendered an erroneous certification, the Federal Aviation Administration (FAA) may direct through the Owner cancellation of the contract or subcontract for default at no cost to the Owner or the FAA.

AC 150/5370-10H, Issued 12/21/18, Updated 5/24/23

TERMINATION OF CONTRACT

- 1. The Sponsor may, by written notice, terminate this contract in whole or in part at any time, either for the Sponsor's convenience or because of failure to fulfill the contract obligations. Upon receipt of such notice services shall be immediately discontinued (unless the notice directs otherwise) and all materials as may have been accumulated in performing this contract, whether completed or in progress, delivered to the Sponsor.
- 2. If the termination is for the convenience of the Sponsor, an equitable adjustment in the contract price shall be made, but no amount shall be allowed for anticipated profit on unperformed services.
- 3. If the termination is due to failure to fulfill the contractor's obligations, the Sponsor may take over the work and prosecute the same to completion by contract or otherwise. In such case, the contractor shall be liable to the Sponsor for any additional cost occasioned to the Sponsor thereby.
- 4. If, after notice of termination for failure to fulfill contract obligations, it is determined that the contractor had not so failed, the termination shall be deemed to have been effected for the convenience of the Sponsor. In such event, adjustment in the contract price shall be made as provided in paragraph 2 of this clause.
- 5. The rights and remedies of the sponsor provided in this clause are in addition to any other rights and remedies provided by law or under this contract.

CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

For all contracts that exceed \$25,000, and funded under the AIP, the bidder/offeror certifies, by submission of this proposal or acceptance of this contract, 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. It further agrees by submitting this proposal that it will include this clause without modification in all lower tier transactions, solicitations, proposals, contracts, and subcontracts. Where the bidder/offeror/contractor or any lower tier participant is unable to certify to this statement, it shall attach an explanation to this solicitation/proposal.

ENERGY CONSERVATION REQUIREMENTS

The contractor agrees to comply with mandatory standards and policies relating to energy efficiency that are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (42USC 6201 et seq).

VETERAN'S PREFERENCE

In the employment of labor (except in executive, administrative, and supervisory positions), preference shall be given to Veterans of the Vietnam, Persian Gulf and Afghanistan-Iraq war era and small business concerns owned and controlled by disabled veterans as defined in Title 49 United States Code, Section 47112. However, this preference shall apply only where the individuals are available and qualified to perform the work to which the employment relates.

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Wayne Executive Jetport Perimeter Fence NCDOT-DOA Project No.: 36237.22.17.2 WK Dickson Project No.: 20190561.00.RA

DAVIS BACON REQUIREMENTS (Applies to Phase 1 and Phase 3 Only)

1. Minimum Wages

(i) 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 the Secretary of Labor under the Copeland Act (29 CFR Part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalent 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)(iv) 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 Part 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 (1)(ii) 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 easily be seen by the workers.

- (ii)(A) 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:
 - (1) The work to be performed by the classification requested is not performed by a classification in the wage determination; and
 - (2) The classification is utilized in the area by the construction industry; and
 - (3) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.
- (B) 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, D.C. 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.

- (C) 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 Administrator for determination. The 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.
- (D) The wage rate (including fringe benefits where appropriate) determined pursuant to subparagraphs (1)(ii) (B) or (C) of this paragraph, 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.
- (iii) 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.
- (iv) 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.

General Decision Number: NC20240090 01/05/2024

Superseded General Decision Number: NC20230090

State: North Carolina

Construction Type: Highway

Counties: Brunswick, Cumberland, Currituck, Edgecombe, Franklin, Greene, Hoke, Johnston, Nash, New Hanover, Onslow, Pender, Pitt, Wake and Wayne Counties in North Carolina.

HIGHWAY CONSTRUCTION PROJECTS (excluding tunnels, building structures in rest area projects & railroad construction; bascule, suspension & spandrel arch bridges designed for commercial navigation, bridges involving marine construction; and other major bridges).

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that

these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(1).

| If the contract is entered | Executive Order 14026 |
|--------------------------------|-------------------------------|
| into on or after January 30, | generally applies to the |
| 2022, or the contract is | contract. |
| renewed or extended (e.g., an | . The contractor must pay |
| option is exercised) on or | all covered workers at |
| after January 30, 2022: | least \$17.20 per hour (or |
| | the applicable wage rate |
| İ | listed on this wage |
| İ | determination, if it is |
| İ | higher) for all hours |
| İ | spent performing on the |
| İ | contract in 2024. |
| İ | i i |
| If the contract was awarded on | Executive Order 13658 |
| or between January 1, 2015 and | generally applies to the |
| January 29, 2022, and the | contract. |
| contract is not renewed or | . The contractor must pay all |
| extended on or after January | covered workers at least |
| 30, 2022: | \$12.90 per hour (or the |
| İ | applicable wage rate listed |
| İ | on this wage determination, |
| İ | if it is higher) for all |
| j | hours spent performing on |
| İ | that contract in 2024. |
| | <u> </u> |

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at http://www.dol.gov/whd/govcontracts.

Modification Number Publication Date 0 01/05/2024

SUNC2014-005 11/17/2014

| $oldsymbol{arepsilon}$ |
|--|
| BLASTER\$ 21.04 |
| CARPENTER\$ 13.72 ** |
| CEMENT MASON/CONCRETE FINISHER\$ 14.48 ** |
| ELECTRICIAN Electrician\$ 17.97 Telecommunications Technician\$ 16.79 ** .63 |
| IRONWORKER\$ 16.02 ** |
| LABORER Asphalt Raker and Spreader\$ 12.46 ** Asphalt Screed/Jackman\$ 14.33 ** Carpenter Tender\$ 12.88 ** Cement Mason/Concrete Finisher Tender\$ 12.54 ** Common or General\$ 10.20 ** Guardrail/Fence Installer\$ 12.87 ** Pipelayer\$ 12.17 ** Traffic Signal/Lighting Installer\$ 14.89 ** |
| PAINTER Bridge\$ 24.57 POWER EQUIPMENT OPERATOR Asphalt Broom Tractor\$ 11.85 ** Bulldozer Fine\$ 17.04 ** Bulldozer Rough\$ 14.34 ** Concrete Grinder/Groover\$ 20.34 Crane Boom Trucks\$ 20.54 Crane Other\$ 20.67 Drill Operator Rock\$ 14.38 ** Drill Operator Structure\$ 21.14 Excavator Fine\$ 16.60 ** Excavator Rough\$ 14.00 ** Grader/Blade Fine\$ 18.47 Grader/Blade Rough\$ 14.62 ** Loader 2 Cubic Yards or Less\$ 13.76 ** Loader Greater Than 2 |

Fringes

Rates

| Cubic Yards\$ 14.14 ** |
|---------------------------------------|
| Material Transfer Vehicle |
| (Shuttle Buggy)\$ 15.18 ** |
| Mechanic\$ 17.55 |
| Milling Machine \$ 15.36 ** |
| Off-Road Hauler/Water |
| Tanker\$ 11.36 ** |
| Oiler/Greaser\$ 13.55 ** |
| Pavement Marking Equipment\$ 12.11 ** |
| Paver Asphalt\$ 15.59 ** |
| Paver Concrete\$ 18.20 |
| Roller Asphalt Breakdown\$ 12.45 ** |
| Roller Asphalt Finish\$ 13.85 ** |
| Roller Other\$ 11.36 ** |
| Scraper Finish \$ 12.71 ** |
| Scraper Rough\$ 11.35 ** |
| Slip Form Machine\$ 16.50 ** |
| Tack Truck/Distributor |
| Operator\$ 14.52 ** |
| |
| TRUCK DRIVER |
| GVWR of 26,000 or Less\$ 11.12 ** |
| GVWR of 26,001 Lbs or |
| Greater\$ 12.37 ** |

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

** Workers in this classification may be entitled to a higher minimum wage under Executive Order 14026 (\$17.20) or 13658 (\$12.90). Please see the Note at the top of the wage determination for more information. Please also note that the minimum wage requirements of Executive Order 14026 are not currently being enforced as to any contract or subcontract to which the states of Texas, Louisiana, or Mississippi, including their agencies, are a party.

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

https://www.dol.gov/agencies/whd/government-contracts.

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) (iii)).

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

AC 150/5370-10H, Issued 12/21/18, Updated 5/24/23

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.

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 National Office because National Office has 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.

END OF GENERAL DECISION

2. Withholding.

The Federal Aviation Administration or the Sponsor 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 David-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 work, all or part of the wages required by the contract, the Federal Aviation Administration may, after written notice to the contractor, sponsor, applicant, or owner, 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)(i) 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 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 costs 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.
- (ii) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the applicant, sponsor, or owner, as the case may be, for transmission to the Federal Aviation Administration. 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 https://www.dol.gov/agencies/whd/government-contracts/construction/payroll-certification 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 Federal Aviation Administration if the agency is a party to the contract, but if the agency is not such a party, the contractor will submit them to the applicant, sponsor, or owner, as the case may be, for transmission to the Federal Aviation Administration, the contractor, 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 sponsoring government agency (or the applicant, sponsor, or owner).

- (B) 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:
 - (1) That the payroll for the payroll period contains the information required to be maintained under paragraph (3)(i) above and that such information is correct and complete;
 - (2) That each laborer and 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;
 - (3) 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.
- (C) 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)(ii)(B) of this section.
- (D) 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.
- (iii) The contractor or subcontractor shall make the records required under paragraph (3)(i) of this section available for inspection, copying or transcription by authorized representatives of the Sponsor, the Federal Aviation Administration 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 Federal agency may, after written notice to the contractor, sponsor, applicant or owner, 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.

AC 150/5370-10H, Issued 12/21/18, Updated 5/24/23

- (i) Apprentices. 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, Bureau of Apprenticeship and Training, or with a State Apprenticeship Agency recognized by the Bureau, 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 Bureau of Apprenticeship and Training 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 Bureau of Apprenticeship and Training, or a State Apprenticeship Agency recognized by the Bureau, 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.
- (ii) Trainees. 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.

(iii) 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.

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 in any subcontracts the clauses contained in 29 CFR Part 5.5(a)(1) through (10) and such other clauses as the Federal Aviation Administration may by appropriate instructions require, and also a clause requiring the subcontractors to include these clauses 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 Part 5.5.

7. Contract Termination: Debarment.

A breach of the contract clauses in paragraph 1 through 10 of this section 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.

(i) 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).

AC 150/5370-10H, Issued 12/21/18, Updated 5/24/23

- (ii) 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).
- (iii) The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

EQUAL EMPLOYMENT OPPORTUNITY - 41 CFR PART 60-1.4(b)

During the performance of this contract, the contractor agrees as follows:

- 1. The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, or national origin. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex, sexual orientation, gender identify, or national origin. Such action shall include, but not be limited to, the following: 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. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.
- 2. The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, or national origin.
- 3. The Contractor will not discharge or in any other manner discriminate against any employee or applicant for employment because such employee or applicant has inquired about, discussed, or disclosed the compensation of the employee or applicant or another employee or applicant. This provision shall not apply to instances in which an employee who has access to the compensation information of other employees or applicants as a part of such employee's essential job functions discloses the compensation of such other employees or applicants to individuals who do not otherwise have access to such information, unless such disclosure is in response to a formal complaint or charge, in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or is consistent with the contractor's legal duty to furnish information.
- 4. The Contractor will send to each labor union or representative of workers with which it has a collective bargaining agreement or other contract or understanding, a notice to be provided by the agency contracting officer, advising the labor union or workers' representative of the Contractor's commitments under this section 202 of Executive Order 11246 of September 24, 1965, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- 5. The Contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.
- 6. The Contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by the rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the contracting agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

- 7. In the event of the Contractor's noncompliance with the nondiscrimination clauses of this contract or with any such rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the Contractor may be declared ineligible for further Government contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.
- 8. The Contractor will include the provisions of paragraphs (1) through (8) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The Contractor will take such action with respect to any subcontract or purchase order as may be directed by the Secretary of Labor as a means of enforcing such provisions, including sanctions for noncompliance: Provided, however, that in the event the contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction, the Contractor may request the United States to enter into such litigation to protect the interests of the United States.

CERTIFICATION OF NONSEGREGATED FACILITIES - 41 CFR PART 60-1.8

Notice to Prospective Federally Assisted Construction Contractors

- 1. A Certification of Non-segregated Facilities shall be submitted prior to the award of a federally-assisted construction contract exceeding \$10,000 which is not exempt from the provisions of the Equal Opportunity Clause.
- 2. Contractors receiving federally-assisted construction contract awards exceeding \$10,000 which are not exempt from the provisions of the Equal Opportunity Clause will be required to provide for the forwarding of the following notice to prospective subcontractors for supplies and construction contracts where the subcontracts exceed \$10,000 and are not exempt from the provisions of the Equal Opportunity Clause. NOTE: The penalty for making false statements in offers is prescribed in 18 U.S.C. 1001.

Notice to Prospective Subcontractors of Requirements for Certification of Non-Segregated Facilities

- 1. A Certification of Non-segregated Facilities shall be submitted prior to the award of a subcontract exceeding \$10,000, which is not exempt from the provisions of the Equal Opportunity Clause.
- 2. Contractors receiving subcontract awards exceeding \$10,000 which are not exempt from the provisions of the Equal Opportunity Clause will be required to provide for the forwarding of this notice to prospective subcontractors for supplies and construction contracts where the subcontracts exceed \$10,000 and are not exempt from the provisions of the Equal Opportunity Clause. NOTE: The penalty for making false statements in offers is prescribed in 18 U.S.C. 1001.

PROHIBITION OF SEGREGATED FACILITIES

The federally-assisted construction contractor certifies that she or he does not maintain or provide, for his employees, any segregated facilities at any of his establishments and that she or he does not permit his employees to perform their services at any location, under his control, where segregated facilities are

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maintained. The federally-assisted construction contractor certifies that she or he will not maintain or provide, for his employees, segregated facilities at any of his establishments and that she or he will not permit his employees to perform their services at any location under his control where segregated facilities are maintained. The federally-assisted construction contractor agrees that a breach of this certification is a violation of the Equal Opportunity Clause in this contract.

As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, restrooms, and washrooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directives or are, in fact, segregated on the basis of race, color, religion, or national origin because of habit, local custom, or any other reason. The federally-assisted construction contractor agrees that (except where she or he has obtained identical certifications from proposed subcontractors for specific time periods) she or he will obtain identical certifications from proposed subcontractors prior to the award of subcontracts exceeding \$10,000 which are not exempt from the provisions of the Equal Opportunity Clause and that she or he will retain such certifications in his files.

STANDARD FEDERAL EQUAL EMPLOYMENT OPPORTUNITY CONSTRUCTION CONTRACT SPECIFICATIONS - 41 CFR Part 60.4.3

- 1. As used in these specifications:
 - a. "Covered area" means the geographical area described in the solicitation from which this contract resulted:
 - b. "Director" means Director, Office of Federal Contract Compliance Programs (OFCCP), U.S. Department of Labor, or any person to whom the Director delegates authority;
 - c. "Employer identification number" means the Federal social security number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941;
 - d. "Minority" includes:
 - (1) Black (all) persons having origins in any of the Black African racial groups not of Hispanic origin);
 - (2) Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin regardless of race);
 - (3) Asian and Pacific Islander (all persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands); and
 - (4) American Indian or Alaskan native (all persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification).
- 2. Whenever the contractor, or any subcontractor at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of \$10,000 the provisions of these specifications and the Notice which contains the applicable goals for minority and female participation and which is set forth in the solicitations from which this contract resulted.
- 3. If the contractor is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan approved by the U.S. Department of Labor in the covered area either individually or through an association, its affirmative action obligations on all work in the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors shall be able to demonstrate their participation in and compliance with the provisions of any such Hometown Plan. Each contractor or subcontractor participating in an approved plan is individually required to comply with its obligations under the EEO clause and to make a good faith effort to achieve each goal under the Plan in each trade in which it has employees. The overall good faith performance by other contractors or subcontractors toward a goal in an approved Plan does not excuse any covered contractor's or subcontractor's failure to take good faith efforts to achieve the Plan goals and timetables.
- 4. The contractor shall implement the specific affirmative action standards provided in paragraphs 18.7a through 18.7p of these specifications. The goals set forth in the solicitation from which this contract

resulted are expressed as percentages of the total hours of employment and training of minority and female utilization the contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. Covered construction contractors performing construction work in a geographical area where they do not have a Federal or federally assisted construction contract shall apply the minority and female goals established for the geographical area where the work is being performed. Goals are published periodically in the Federal Register in notice form, and such notices may be obtained from any Office of Federal Contract Compliance Programs office or from Federal procurement contracting officers. The contractor is expected to make substantially uniform progress in meeting its goals in each craft during the period specified.

- 5. Neither the provisions of any collective bargaining agreement nor the failure by a union with whom the contractor has a collective bargaining agreement to refer either minorities or women shall excuse the contractor's obligations under these specifications, Executive Order 11246 or the regulations promulgated pursuant thereto.
- 6. In order for the non-working training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees shall be employed by the contractor during the training period and the contractor shall have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees shall be trained pursuant to training programs approved by the U.S. Department of Labor.
- 7. The contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its actions. The contractor shall document these efforts fully and shall implement affirmative action steps at least as extensive as the following:
 - a. Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and in all facilities at which the contractor's employees are assigned to work. The contractor, where possible, will assign two or more women to each construction project. The contractor shall specifically ensure that all foremen, superintendents, and other onsite supervisory personnel are aware of and carry out the contractor's obligation to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.
 - b. Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the contractor or its unions have employment opportunities available, and maintain a record of the organizations' responses.
 - c. Maintain a current file of the names, addresses, and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source, or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the contractor by the union or, if referred, not employed by the contractor, this shall be documented in the file with the reason therefore along with whatever additional actions the contractor may have taken.
 - d. Provide immediate written notification to the Director when the union or unions with which the contractor has a collective bargaining agreement has not referred to the contractor a minority person or

female sent by the contractor, or when the contractor has other information that the union referral process has impeded the contractor's efforts to meet its obligations.

- e. Develop on-the-job training opportunities and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the contractor's employment needs, especially those programs funded or approved by the Department of Labor. The contractor shall provide notice of these programs to the sources compiled under 7b above.
- f. Disseminate the contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.
- g. Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination, or other employment decisions including specific review of these items with onsite supervisory personnel such a superintendents, general foremen, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.
- h. Disseminate the contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the contractor's EEO policy with other contractors and subcontractors with whom the contractor does or anticipates doing business.
- i. Direct its recruitment efforts, both oral and written, to minority, female, and community organizations, to schools with minority and female students; and to minority and female recruitment and training organizations serving the contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the contractor shall send written notification to organizations, such as the above, describing the openings, screening procedures, and tests to be used in the selection process.
- j. Encourage present minority and female employees to recruit other minority persons and women and, where reasonable provide after school, summer, and vacation employment to minority and female youth both on the site and in other areas of a contractor's workforce.
- k. Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR Part 60-3.
- l. Conduct, at least annually, an inventory and evaluation at least of all minority and female personnel, for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.
- m. Ensure that seniority practices, job classifications, work assignments, and other personnel practices

do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the contractor's obligations under these specifications are being carried out.

- n. Ensure that all facilities and company activities are non-segregated except that separate or single user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.
- o. Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction contractors and suppliers, including circulation of solicitations to minority and female contractor associations and other business associations.
- p. Conduct a review, at least annually, of all supervisor's adherence to and performance under the contractor's EEO policies and affirmative action obligations.
- 8. Contractors are encouraged to participate in voluntary associations, which assist in fulfilling one or more of their affirmative action obligations (18.7a through 18.7p). The efforts of a contractor association, joint contractor union, contractor community, or other similar groups of which the contractor is a member and participant, may be asserted as fulfilling any one or more of its obligations under 18.7a through 18.7p of these specifications provided that the contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensures that the concrete benefits of the program are reflected in the contractor's minority and female workforce participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the contractor. The obligation to comply, however, is the contractor's and failure of such a group to fulfill an obligation shall not be a defense for the contractor's noncompliance.
- 9. A single goal for minorities and a separate single goal for women have been established. The contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, if the particular group is employed in a substantially disparate manner (for example, even though the contractor has achieved its goals for women generally,) the contractor may be in violation of the Executive Order if a specific minority group of women is underutilized.
- 10. The contractor shall not use the goals and timetables or affirmative action standards to discriminate against any person because of race, color, religion, sex, or national origin.
- 11. The contractor shall not enter into any subcontract with any person or firm debarred from Government contracts pursuant to Executive Order 11246.
- 12. The contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspension, termination, and cancellation of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations, by the Office of Federal Contract Compliance Programs. Any contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.
- 13. The contractor, in fulfilling its obligations under these specifications, shall implement specific

affirmative action steps, at least as extensive as those standards prescribed in paragraph 18.7 of these specifications, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the contractor fails to comply with the requirements of the Executive Order, the implementing regulations, or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.

- 14. The contractor shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the Government, and to keep records. Records shall at least include for each employee, the name, address, telephone number, construction trade, union affiliation if any, employee identification number when assigned, social security number, race, sex, status (e.g., mechanic, apprentice, trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, contractors shall not be required to maintain separate records.
- 15. Nothing herein provided shall be construed as a limitation upon the application of other laws which establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents (e.g., those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).

NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION (41 CFR PART 60-4)

- 1. The Offeror's or Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Opportunity Construction Contract Specifications" set forth herein.
- 2. The goals and timetables for minority and female participation, expressed in percentage terms for the contractor's aggregate work force in each trade on all construction work in the covered area, are as follows:

Timetables

Goals for minority participation in each trade 31.7%

Goals for female participation in each trade 6.9%

These goals are applicable to all the Contractor's construction work (whether or not it is Federal or federally-assisted) performed in the covered area. If the contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the Contractor also is subject to the goals for both its federally involved and non-federally involved construction.

The Contractor's compliance with the Executive Order and the regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet the goals. The hours of minority and female employment and training shall be substantially uniform throughout the length of the contract, and in each trade, and the contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project, for the sole purpose of meeting the

Contractor's goals, shall be a violation of the contract, the Executive Order, and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

- 3. The contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs (OFCCP) within 10 working days of award of any construction subcontract in excess of \$10,000 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address, and telephone number of the subcontractor; employer identification number of the subcontractor; estimated dollar amount of the subcontract; estimated starting and completion dates of subcontract; and the geographical area in which the subcontract is to be performed.
- 4. As used in this notice and in the contract resulting from this solicitation, the "covered area" is North Carolina, Wayne County, Goldsboro.

CONTRACT WORKHOURS AND SAFETY STANDARDS ACT REQUIREMENTS 29 CFR PART 5

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, including watchmen and guards, 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) above, the contractor and any subcontractor responsible therefore 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 above, in the sum of \$29 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 above.

3. Withholding for Unpaid Wages and Liquidated Damages.

The Federal Aviation Administration or the Sponsor 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 monies 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

such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph 2 above.

4. Subcontractors.

The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraphs 1 through 4 and also a clause requiring the subcontractor 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.

CLEAN AIR AND WATER POLLUTION CONTROL

Contractors and subcontractors agree:

- a. That any facility to be used in the performance of the contract or subcontract or to benefit from the contract is not listed on the Environmental Protection Agency (EPA) List of Violating Facilities;
- b. To comply with all the requirements of Section 114 of the Clean Air Act, as amended, 42 U.S.C. 1857 et seq. and Section 308 of the Federal Water Pollution Control Act, as amended, 33 U.S.C. 1251 et seq. relating to inspection, monitoring, entry, reports, and information, as well as all other requirements specified in Section 114 and Section 308 of the Acts, respectively, and all other regulations and guidelines issued thereunder;
- c. That, as a condition for the award of this contract, the contractor or subcontractor will notify the awarding official of the receipt of any communication from the EPA indicating that a facility to be used for the performance of or benefit from the contract is under consideration to be listed on the EPA List of Violating Facilities;
- d. To include or cause to be included in any construction contract or subcontract which exceeds \$150,000 the aforementioned criteria and requirements.

OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970

(Reference 20 CFR part 1910)

All contracts and subcontracts that result from this solicitation incorporate the following provisions by reference, with the same force and effect as if given in full text. The contractor has full responsibility to monitor compliance to the referenced statute or regulation. The contractor must address any claims or disputes that pertain to a referenced requirement directly with the U.S. Department of Labor – Occupational Safety and Health Administration.

| Requirement | Federal Agency with Enforcement Responsibilities |
|---|--|
| Occupational Safety and Health Act of 1970 (20 CFR Part 1910) | U.S. Department of Labor – Occupational Safety and Health Administration |

TEXTING WHEN DRIVING

(References: Executive Order 13513, and DOT Order 3902.10)

In accordance with Executive Order 13513, "Federal Leadership on Reducing Text Messaging While Driving" (10/1/2009) and DOT Order 3902.10 "Text Messaging While Driving" (12/30/2009), FAA encourages recipients of Federal grant funds to adopt and enforce safety policies that decrease crashes by

distracted drivers, including policies to ban text messaging while driving when performing work related to a grant or sub-grant.

COPELAND "ANTI-KICKBACK" ACT

Contractor must comply with the requirements of the Copeland "Anti-Kickback" Act (18 USC 874 and 40 USC 3145), as supplemented by Department of Labor regulation 29 CFR part 3. Contractor and subcontractors are prohibited from inducing, by any means, any person employed on the project to give up any part of the compensation to which the employee is entitled. The Contractor and each Subcontractor must submit to the Owner, a weekly statement on the wages paid to each employee performing on covered work during the prior week. Owner must report any violations of the Act to the Federal Aviation Administration.

FEDERAL FAIR LABOR STANDARDS ACT (MINIMUM WAGE)

All contracts and subcontracts that result from this solicitation incorporate by reference the provisions of 29 CFR part 201, the Federal Fair Labor Standards Act (FLSA), with the same force and effect as if given in full text. The FLSA sets minimum wage, overtime pay, recordkeeping, and child labor standards for full and part-time workers. The Contractor has full responsibility to monitor compliance to the referenced statute or regulation. The Contractor must address any claims or disputes that arise from this requirement directly with the U.S. Department of Labor – Wage and Hour Division.

PROCUREMENT OF RECOVERED MATERIALS

Contractor and subcontractor agree to comply with Section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act, and the regulatory provisions of 40 CFR Part 247. In the performance of this contract and to the extent practicable, the Contractor and subcontractors are to use products containing the highest percentage of recovered materials for items designated by the Environmental Protection Agency (EPA) under 40 CFR Part 247 whenever:

- 1. The contract requires procurement of \$10,000 or more of a designated item during the fiscal year; or
- 2. The contractor has procured \$10,000 or more of a designated item using Federal funding during the previous fiscal year.

The list of EPA-designated items is available at www.epa.gov/smm/comprehensive-procurement-guidelines-construction-products.

Section 6002(c) establishes exceptions to the preference for recovery of EPA-designated products if the contractor can demonstrate the item is:

a) Not reasonably available within a timeframe providing for compliance with

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- the contract performance schedule;
- b) Fails to meet reasonable contract performance requirements; or
- c) Is only available at an unreasonable price.

CERTIFICATION REGARDING DOMESTIC PREFERENCES FOR PROCUREMENTS

The Bidder or Offeror certifies by signing and submitting this bid or proposal that, to the greatest extent practicable, the Bidder or Offeror has provided a preference for the purchase, acquisition, or use of goods, products, or materials produced in the United States (including, but not limited to, iron, aluminum, steel, cement, and other manufactured products) in compliance with 2 CFR § 200.322.

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MINORITY BUSINESS ENTERPRISE AND WOMEN BUSINESS ENTERPRISE (DIVISIONS):

(10-16-07)(Rev. 8-17-21)

102-15(J)

SP1 G67

Description

The purpose of this Special Provision is to carry out the North Carolina Department of Transportation's policy of ensuring nondiscrimination in the award and administration of contracts financed in whole or in part with State funds.

Definitions

Additional MBE/WBE Subcontractors - Any MBE/WBE submitted at the time of bid that will <u>not</u> be used to meet the Combined MBE/WBE goal. No submittal of a Letter of Intent is required.

Combined MBE/WBE Goal: A portion of the total contract, expressed as a percentage that is to be performed by committed MBE/WBE subcontractors.

Committed MBE/WBE Subcontractor - Any MBE/WBE submitted at the time of bid that is being used to meet the Combined MBE / WBE goal by submission of a Letter of Intent. Or any MBE or WBE used as a replacement for a previously committed MBE or WBE firm.

Contract Goal Requirement - The approved participation at time of award, but not greater than the advertised Combined MBE/WBE contract goal.

Goal Confirmation Letter - Written documentation from the Department to the bidder confirming the Contractor's approved, committed participation along with a listing of the committed MBE and WBE firms.

Manufacturer - A firm that operates or maintains a factory or establishment that produces on the premises, the materials or supplies obtained by the Contractor.

MBE Participation (Anticipated) - A portion of the total contract, expressed as a percentage that is anticipated to be performed by committed MBE subcontractor(s).

Minority Business Enterprise (MBE) - A firm certified as a Disadvantaged Minority-Owned Business Enterprise through the North Carolina Unified Certification Program.

Regular Dealer - A firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials or supplies required for the performance of the contract are bought, kept in stock, and regularly sold to the public in the usual course of business. A regular dealer engages in, as its principal business and in its own name, the purchase and sale or lease of the products in question. A regular dealer in such bulk items as steel, cement, gravel, stone, and petroleum products need not keep such products in stock, if it owns and operates distribution equipment for the products. Brokers and packagers are not regarded as manufacturers or regular dealers within the meaning of this section.

Replacement / Substitution – A full or partial reduction in the amount of work subcontracted to a committed (or an approved substitute) MBE/WBE firm.

North Carolina Unified Certification Program (NCUCP) - A program that provides comprehensive services and information to applicants for MBE/WBE certification. The MBE/WBE program follows the same regulations as the federal Disadvantaged Business Enterprise (DBE) program in accordance with 49 CFR Part 26.

United States Department of Transportation (USDOT) - Federal agency responsible for issuing regulations (49 CFR Part 26) and official guidance for the DBE program.

WBE Participation (Anticipated) - A portion of the total contract, expressed as a percentage that is anticipated to be performed by committed WBE subcontractor(s).

Women Business Enterprise (WBE) - A firm certified as a Disadvantaged Women-Owned Business Enterprise through the North Carolina Unified Certification Program.

Forms and Websites Referenced in this Provision

Payment Tracking System - On-line system in which the Contractor enters the payments made to MBE and WBE subcontractors who have performed work on the project. https://apps.dot.state.nc.us/Vendor/PaymentTracking/

DBE-IS Subcontractor Payment Information - Form for reporting the payments made to all MBE/WBE firms working on the project. This form is for paper bid projects only. https://connect.ncdot.gov/business/Turnpike/Documents/Form%20DBE-IS%20Subcontractor%20Payment%20Information.pdf

RF-1 *MBE/WBE Replacement Request Form* - Form for replacing a committed MBE or WBE. http://connect.ncdot.gov/projects/construction/Construction%20Forms/DBE%20MBE%20WBE%20Replacement%20Request%20Form.pdf

SAF *Subcontract Approval Form* - Form required for approval to sublet the contract. http://connect.ncdot.gov/projects/construction/Construction%20Forms/Subcontract%20Approval%20Form%20Rev.%202012.zip

JC-1 *Joint Check Notification Form* - Form and procedures for joint check notification. The form acts as a written joint check agreement among the parties providing full and prompt disclosure of the expected use of joint checks.

 $\frac{http://connect.ncdot.gov/projects/construction/Construction\%20Forms/Joint\%20Check\%20Notification\%}{20Form.pdf}$

Letter of Intent - Form signed by the Contractor and the MBE/WBE subcontractor, manufacturer or regular dealer that affirms that a portion of said contract is going to be performed by the signed MBE/WBE for the estimated amount (based on quantities and unit prices) listed at the time of bid. http://connect.ncdot.gov/letting/LetCentral/Letter%20of%20Intent%20to%20Perform%20as%20a%20Subcontractor.pdf

Listing of MBE and WBE Subcontractors Form - Form for entering MBE/WBE subcontractors on a project that will meet the Combined MBE/WBE goal. This form is for paper bids only.

http://connect.ncdot.gov/municipalities/Bid%20Proposals%20for%20LGA%20Content/09%20MBE-WBE%20Subcontractors%20(State).docx

Subcontractor Quote Comparison Sheet - Spreadsheet for showing all subcontractor quotes in the work areas where MBEs and WBEs quoted on the project. This sheet is submitted with good faith effort packages.

 $\frac{http://connect.ncdot.gov/business/SmallBusiness/Documents/DBE\%20Subcontractor\%20Quote\%20Comparison\%20Example.xls}{}$

Combined MBE and WBE Goal

The Combined MBE/WBE Goal for this project is ten percent (10%)

The Combined Goal was established utilizing the following anticipated participation for Minority Business Enterprises and Women Business Enterprises:

- (A) Minority Business Enterprises
 - (1) If the anticipated MBE participation is more than zero, the Contractor shall exercise all necessary and reasonable steps to ensure that MBEs participate in at least the percent of the contract as set forth above.
 - (2) If the anticipated MBE participation is zero, the Contractor shall make an effort to recruit and use MBEs during the performance of the contract. Any MBE participation obtained shall be reported to the Department.
- (B) Women Business Enterprises
 - (1) If the anticipated WBE participation is more than zero, the Contractor shall exercise all necessary and reasonable steps to ensure that WBEs participate in at least the percent of the contract as set forth above.
 - (2) If the anticipated WBE participation is zero, the Contractor shall make an effort to recruit and use WBEs during the performance of the contract. Any WBE participation obtained shall be reported to the Department.

The Bidder is required to submit only participation to meet the Combined MBE/WBE Goal. The Combined Goal may be met by submitting all MBE participation, all WBE participation, or a combination of MBE and WBE participation.

Directory of Transportation Firms (Directory)

Real-time information is available about firms doing business with the Department and firms that are certified through NCUCP in the Directory of Transportation Firms. Only firms identified in the Directory as MBE and WBE certified shall be used to meet the Combined MBE / WBE goal. The Directory can be found at the following link.

https://www.ebs.nc.gov/VendorDirectory/default.html

The listing of an individual firm in the directory shall not be construed as an endorsement of the firm's capability to perform certain work.

Listing of MBE/WBE Subcontractors

At the time of bid, bidders shall submit <u>all</u> MBE and WBE participation that they anticipate to use during the life of the contract. Only those identified to meet the Combined MBE/WBE goal will be considered committed, even though the listing shall include both committed MBE/WBE subcontractors and additional MBE/WBE subcontractors. Any additional MBE/WBE subcontractor participation above the goal will follow the banking guidelines found elsewhere in this provision. All other additional MBE/WBE subcontractor participation submitted at the time of bid will be used toward the Department's overall race-neutral goals. Only those firms with current MBE and WBE certification at the time of bid opening will be acceptable for listing in the bidder's submittal of MBE and WBE participation. The Contractor shall indicate the following required information:

(A) Electronic Bids

Bidders shall submit a listing of MBE and WBE participation in the appropriate section of the electronic submittal file.

- (1) Submit the names and addresses of MBE and WBE firms identified to participate in the contract. If the bidder uses the updated listing of MBE and WBE firms shown in the electronic submittal file, the bidder may use the dropdown menu to access the name and address of the firms.
- (2) Submit the contract line numbers of work to be performed by each MBE and WBE firm. When no figures or firms are entered, the bidder will be considered to have no MBE or WBE participation.
- (3) The bidder shall be responsible for ensuring that the MBE and WBE are certified at the time of bid by checking the Directory of Transportation Firms. If the firm is not certified at the time of the bidletting, that MBE's or WBE's participation will not count towards achieving the Combined MBE/WBE goal.
- (B) Paper Bids
- (1) If the Combined MBE/ WBE goal is more than zero,
- (a) Bidders, at the time the bid proposal is submitted, shall submit a listing of MBE/WBE participation, including the names and addresses on *Listing of MBE and WBE Subcontractors* contained elsewhere in the contract documents in order for the bid to be considered responsive. Bidders shall indicate the total dollar value of the MBE and WBE participation for the contract.
- (b) If bidders have no MBE or WBE participation, they shall indicate this on the *Listing of MBE and WBE Subcontractors* by entering the word "None" or the number "0." This form shall be completed in its entirety. **Blank forms will not be deemed to represent zero participation.** Bids submitted that do not have MBE and WBE participation indicated on the appropriate form will not be read publicly during the opening of bids. The Department will not consider these bids for award and the proposal will be rejected.

- (c) The bidder shall be responsible for ensuring that the MBE/WBE is certified at the time of bid by checking the Directory of Transportation Firms. If the firm is not certified at the time of the bid-letting, that MBE's or WBE's participation will not count towards achieving the Combined MBE/WBE goal.
- (2) If the Combined MBE/WBE Goal is zero, entries on the Listing of MBE and WBE Subcontractors are not required for the zero goal, however any MBE or WBE participation that is achieved during the project shall be reported in accordance with requirements contained elsewhere in the special provision.

MBE or WBE Prime Contractor

When a certified MBE or WBE firm bids on a contract that contains a Combined MBE/WBE Goal, the firm is responsible for meeting the goal or making good faith efforts to meet the goal, just like any other bidder. In most cases, a MBE or WBE bidder on a contract will meet the Combined MBE/WBE goal by virtue of the work it performs on the contract with its own forces. However, all the work that is performed by the MBE or WBE bidder and any other similarly certified subcontractors will count toward the goal. The MBE or WBE bidder shall list itself along with any MBE or WBE subcontractors, if any, in order to receive credit toward the goals.

MBE/WBE prime contractors shall also follow Sections A or B listed under *Listing of MBE/WBE Subcontractors* just as a non-MBE/WBE bidder would.

Written Documentation - Letter of Intent

The bidder shall submit written documentation for each MBE/WBE that will be used to meet the Combined MBE/WBE goal of the contract, indicating the bidder's commitment to use the MBE/WBE in the contract. This documentation shall be submitted on the Department's form titled *Letter of Intent*.

The documentation shall be received in the office of the Owner no later than 2:00 p.m. of the fifth calendar day following opening of bids, unless the fifth day falls on Saturday, Sunday or an official state holiday. In that situation, it is due in the office of the Owner no later than 10:00 a.m. on the next official state business day.

If the bidder fails to submit the Letter of Intent from each committed MBE and WBE to be used toward the Combined MBE/WBE goal, or if the form is incomplete (i.e. both signatures are not present), the MBE/WBE participation will not count toward meeting the Combined MBE/WBE goal. If the lack of this participation drops the commitment below the Combined MBE/WBE goal, the Contractor shall submit evidence of good faith efforts for the goal not met, completed in its entirety, to the Engineer no later than 2:00 p.m. of the eighth calendar day following opening of bids, unless the eighth day falls on Saturday, Sunday or an official state holiday. In that situation, it is due in the office of the Engineer no later than 10:00 a.m. on the next official state business day.

Banking MBE/WBE Credit

If the committed MBE/WBE participation submitted exceeds the algebraic sum of the Combined MBE/WBE goal by \$1,000 or more, the excess will be placed on deposit by the Department for future use by the bidder. Separate accounts will be maintained for MBE and WBE participation and these may accumulate for a period not to exceed 24 months.

When the apparent lowest responsive bidder fails to submit sufficient participation by MBE and WBE firms to meet the advertised goal, as part of the good faith effort, the Department will consider allowing the bidder to withdraw funds to meet the Combined MBE/WBE goal as long as there are adequate funds available from the bidder's MBE and WBE bank accounts.

Submission of Good Faith Effort

If the bidder fails to meet or exceed the Combined MBE/WBE goal, the apparent lowest responsive bidder shall submit to the Owner documentation of adequate good faith efforts made to reach that specific goal.

One complete set and an electronic copy of this information shall be received in the office of the Owner no later than 2:00 p.m. of the fifth calendar day following opening of bids, unless the fifth day falls on Saturday, Sunday or an official state holiday. In that situation, it is due in the office of the Engineer no later than 10:00 a.m. on the next official state business day.

Note: Where the information submitted includes repetitious solicitation letters, it will be acceptable to submit a representative letter along with a distribution list of the firms that were solicited. Documentation of MBE/WBE quotations shall be a part of the good faith effort submittal. This documentation may include written subcontractor quotations, telephone log notations of verbal quotations, or other types of quotation documentation.

Consideration of Good Faith Effort for Projects with a Combined MBE/WBE Goal More Than Zero

Adequate good faith efforts mean that the bidder took all necessary and reasonable steps to achieve the goal which, by their scope, intensity, and appropriateness, could reasonably be expected to obtain sufficient MBE/WBE participation. Adequate good faith efforts also mean that the bidder actively and aggressively sought MBE/WBE participation. Mere *pro forma* efforts are not considered good faith efforts.

The Owner will consider the quality, quantity, and intensity of the different kinds of efforts a bidder has made. Listed below are examples of the types of actions a bidder will take in making a good faith effort to meet the goals and are not intended to be exclusive or exhaustive, nor is it intended to be a mandatory checklist.

- (A) Soliciting through all reasonable and available means (e.g. attendance at pre-bid meetings, advertising, written notices, use of verifiable electronic means through the use of the NCDOT Directory of Transportation Firms) the interest of all certified MBEs/WBEs that are also prequalified subcontractors. The bidder must solicit this interest within at least 10 days prior to bid opening to allow the MBEs/WBEs to respond to the solicitation. Solicitation shall provide the opportunity to MBEs/WBEs within the Division and surrounding Divisions where the project is located. The bidder must determine with certainty if the MBEs/WBEs are interested by taking appropriate steps to follow up initial solicitations.
- (B) Selecting portions of the work to be performed by MBEs/WBEs in order to increase the likelihood that the Combined MBE/WBE goal will be achieved.

- (1) Where appropriate, break out contract work items into economically feasible units to facilitate MBE/WBE participation, even when the prime contractor might otherwise prefer to perform these work items with its own forces.
- (2) Negotiate with subcontractors to assume part of the responsibility to meet the advertised goal when the work to be sublet includes potential for MBE/WBE participation (2nd and 3rd tier subcontractors).
- (C) Providing interested certified MBEs/WBEs that are also prequalified subcontractors with adequate information about the plans, specifications, and requirements of the contract in a timely manner to assist them in responding to a solicitation.
- (D) (1) Negotiating in good faith with interested MBEs/WBEs. It is the bidder's

responsibility to make a portion of the work available to MBE/WBE subcontractors and suppliers and to select those portions of the work or material needs consistent with the available MBE/WBE subcontractors and suppliers, so as to facilitate MBE/WBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of MBEs/WBEs that were considered; a description of the information provided regarding the plans and specifications for the work selected for subcontracting; and evidence as to why additional agreements could not be reached for MBEs/WBEs to perform the work.

- (2) A bidder using good business judgment would consider a number of factors in negotiating with subcontractors, including MBE/WBE subcontractors, and would take a firm's price and capabilities as well as the advertised goal into consideration. However, the fact that there may be some additional costs involved in finding and using MBEs/WBEs is not in itself sufficient reason for a bidder's failure to meet the advertised goal, as long as such costs are reasonable. Also, the ability or desire of a prime contractor to perform the work of a contract with its own organization does not relieve the bidder of the responsibility to make good faith efforts. Bidding contractors are not, however, required to accept higher quotes from MBEs/WBEs if the price difference is excessive or unreasonable.
- (E) Not rejecting MBEs/WBEs as being unqualified without sound reasons based on a thorough investigation of their capabilities. The bidder's standing within its industry, membership in specific groups, organizations, or associates and political or social affiliations (for example, union vs. non-union employee status) are not legitimate causes for the rejection or non-solicitation of bids in the bidder's efforts to meet the project goal.
- (F) Making efforts to assist interested MBEs/WBEs in obtaining bonding, lines of credit, or insurance as required by the recipient or bidder.
- (G) Making efforts to assist interested MBEs/WBEs in obtaining necessary equipment, supplies, materials, or related assistance or services.
- (H) Effectively using the services of available minority/women community organizations; minority/women contractors' groups; Federal, State, and local minority/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of MBEs/WBEs. Contact within 7 days from the bid opening the Business Opportunity and Work Force Development Unit at BOWD@ncdot.gov to give notification of the bidder's inability to get MBE or WBE quotes.

(I) Any other evidence that the bidder submits which shows that the bidder has made reasonable good faith efforts to meet the advertised goal.

In addition, the Owner may take into account the following:

- (1) Whether the bidder's documentation reflects a clear and realistic plan for achieving the Combined MBE/WBE goal.
- (2) The bidders' past performance in meeting the contract goal.
- (3) The performance of other bidders in meeting the advertised goal. For example, when the apparent successful bidder fails to meet the goal, but others meet it, you may reasonably raise the question of whether, with additional reasonable efforts the apparent successful bidder could have met the goal. If the apparent successful bidder fails to meet the advertised goal, but meets or exceeds the average MBE and WBE participation obtained by other bidders, the Owner may view this, in conjunction with other factors, as evidence of the apparent successful bidder having made a good faith effort.

If the Owner does not award the contract to the apparent lowest responsive bidder, the Department reserves the right to award the contract to the next lowest responsive bidder that can satisfy to the Department that the Combined MBE/WBE goal can be met or that an adequate good faith effort has been made to meet the advertised goal.

Non-Good Faith Appeal

The Owner will notify the contractor verbally and in writing of non-good faith. A contractor may appeal a determination of non-good faith made by the Owner. If a contractor wishes to appeal the determination made by the Owner, they shall provide written notification to the Owner. The appeal shall be made within 2 business days of notification of the determination of non-good faith.

Counting MBE/WBE Participation Toward Meeting the Combined MBE/WBE Goal

(A) Participation

The total dollar value of the participation by a committed MBE/WBE will be counted toward the contract goal requirements. The total dollar value of participation by a committed MBE/WBE will be based upon the value of work actually performed by the MBE/WBE and the actual payments to MBE/WBE firms by the Contractor.

(B) Joint Checks

Prior notification of joint check use shall be required when counting MBE/WBE participation for services or purchases that involves the use of a joint check. Notification shall be through submission of Form JC-1 (Joint Check Notification Form) and the use of joint checks shall be in accordance with the Department's Joint Check Procedures.

(C) Subcontracts (Non-Trucking)

A MBE/WBE may enter into subcontracts. Work that a MBE subcontracts to another MBE firm may be counted toward the anticipated MBE participation. The same holds for work that a WBE subcontracts to another WBE firm. Work that a MBE/WBE subcontracts to a non-MBE/WBE firm does <u>not</u> count toward the contract goal requirement. It should be noted that every effort shall be made by MBE and WBE contractors to subcontract to the same certification (i.e., MBEs to MBEs and WBEs to WBEs), in order to fulfill the MBE or WBE participation breakdown. This, however, may not always be possible due to the limitation of firms in the area. If the MBE or WBE firm shows a good faith effort has been made to reach out to similarly certified firms and there is no interest or availability, and they can get assistance from other certified firms, the Engineer will not hold the prime responsible for meeting the individual MBE or WBE breakdown. If a MBE or WBE contractor or subcontractor subcontracts a significantly greater portion of the work of the contract than would be expected on the basis of standard industry practices, it shall be presumed that the MBE or WBE is not performing a commercially useful function.

(D) Joint Venture

When a MBE or WBE performs as a participant in a joint venture, the Contractor may count toward its contract goal requirement a portion of the total value of participation with the MBE or WBE in the joint venture, that portion of the total dollar value being a distinct clearly defined portion of work that the MBE or WBE performs with its forces.

(E) Suppliers

A contractor may count toward its MBE /WBE requirement 60 percent of its expenditures for materials and supplies required to complete the contract and obtained from a MBE or WBE regular dealer and 100 percent of such expenditures from a MBE or WBE manufacturer.

(F) Manufacturers and Regular Dealers

A contractor may count toward its MBE /WBE requirement the following expenditures to MBE/WBE firms that are not manufacturers or regular dealers:

- (1) The fees or commissions charged by a MBE/WBE 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 DOT-assisted contract, provided the fees or commissions are determined to be reasonable and not excessive as compared with fees and commissions customarily allowed for similar services.
- (2) With respect to materials or supplies purchased from a MBE/WBE, which is neither a manufacturer nor a regular dealer, count the entire amount of fees or commissions charged for assistance in the procurement of the materials and supplies, or fees or transportation charges for the delivery of materials or supplies required on a job site (but not the cost of the materials and supplies themselves), provided the fees are determined to be reasonable and not excessive as compared with fees customarily allowed for similar services.

Commercially Useful Function

(A) MBE/WBE Utilization

The Contractor may count toward its contract goal requirement only expenditures to MBEs and WBEs that perform a commercially useful function in the work of a contract. A MBE/WBE 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 MBE/WBE shall 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. To determine whether a MBE/WBE 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 MBE/WBE credit claimed for its performance of the work, and any other relevant factors. If it is determined that a MBE or WBE is not performing a Commercially Useful Function, the contractor may present evidence to rebut this presumption to the Department.

(B) MBE/WBE Utilization in Trucking

The following factors will be used to determine if a MBE or WBE trucking firm is performing a commercially useful function:

- (1) The MBE/WBE shall be responsible for the management and supervision of the entire trucking operation for which it is responsible on a particular contract, and there shall not be a contrived arrangement for the purpose of meeting the Combined MBE/WBE goal.
- (2) The MBE/WBE shall itself own and operate at least one fully licensed, insured, and operational truck used on the contract.
- (3) The MBE/WBE receives credit for the total value of the transportation services it provides on the contract using trucks it owns, insures, and operates using drivers it employs.
- (4) MBE mav subcontract the work to another MBE an owner-operator who is certified as a MBE. The same holds true that a WBE may subcontract the work to another WBE firm, including an owner-operator who is certified as a WBE. When this occurs, the MBE or WBE who subcontracts work receives credit for the total value of the transportation services the subcontracted MBE or WBE provides on the contract. It should be noted that every effort shall be made by MBE and WBE contractors to subcontract to the same certification (i.e., MBEs to MBEs and WBEs to WBEs), in order to fulfill the participation breakdown. This, however, may not always be possible due to the limitation of firms in the area. If the MBE or WBE firm shows a good faith effort has been made to reach out to similarly certified transportation service providers and there is no interest or availability, and they can get assistance from other certified providers, the Owner will not hold the prime responsible for meeting the individual MBE or WBE participation breakdown.
- (5) The MBE/WBE may also subcontract the work to a non-MBE/WBE firm, including from an owner-operator. The MBE/WBE who subcontracts the work to a non-MBE/WBE is entitled to credit for the total value of transportation services provided by the non-MBE/WBE subcontractor not to exceed the value of transportation services provided by MBE/WBE-owned trucks on the contract. Additional participation by non-MBE/WBE subcontractors receives credit only for the fee or commission it receives as a result of the subcontract arrangement. The value of services performed under subcontract agreements between the MBE/WBE and the Contractor will not count towards the MBE/WBE contract requirement.

- (6) A MBE/WBE may lease truck(s) from an established equipment leasing business open to the general public. The lease must indicate that the MBE/WBE has exclusive use of and control over the truck. This requirement does not preclude the leased truck from working for others during the term of the lease with the consent of the MBE/WBE, so long as the lease gives the MBE/WBE absolute priority for use of the leased truck. This type of lease may count toward the MBE/WBE's credit as long as the driver is under the MBE/WBE's payroll.
- (7) Subcontracted/leased trucks shall display clearly on the dashboard the name of the MBE/WBE that they are subcontracted/leased to and their own company name if it is not identified on the truck itself. Magnetic door signs are not permitted.

MBE/WBE Replacement

When a Contractor has relied on a commitment to a MBE or WBE subcontractor (or an approved substitute MBE or WBE subcontractor) to meet all or part of a contract goal requirement, the contractor shall not terminate the MBE/WBE subcontractor for convenience. This includes, but is not limited to, instances in which the Contractor seeks to perform the work of the terminated subcontractor with another MBE/WBE subcontractor, a non-MBE/WBE subcontractor, or with the Contractor's own forces or those of an affiliate.

The Contractor must give notice in writing both by certified mail and email to the MBE/WBE subcontractor, with a copy to the Owner of its intent to request to terminate and/or substitute, and the reason for the request. The Contractor must give the MBE/WBE subcontractor five (5) business days to respond to the Contractor's Notice of Intent to Request Termination and/or Substitution. If the MBE/WBE subcontractor objects to the intended termination/substitution, the MBE/WBE, within five (5) business days must advise the Contractor and the Owner of the reasons why the action should not be approved. The five-day notice period shall begin on the next business day after written notice is provided to the MBE/WBE subcontractor.

A committed MBE/WBE subcontractor may only be terminated after receiving the Owner's written approval based upon a finding of good cause for the proposed termination and/or substitution. For purposes of this section, good cause shall include the following circumstances:

- (a) The listed MBE/WBE subcontractor fails or refuses to execute a written contract;
- (b) The listed MBE/WBE subcontractor fails or refuses to perform the work of its subcontract in a way consistent with normal industry standards. Provided, however, that good cause does not exist if the failure or refusal of the MBE/WBE subcontractor to perform its work on the subcontract results from the bad faith or discriminatory action of the prime contractor;
- (c) The listed MBE/WBE subcontractor fails or refuses to meet the prime contractor's reasonable, nondiscriminatory bond requirements;
- (d) The listed MBE/WBE subcontractor becomes bankrupt, insolvent, or exhibits credit unworthiness;
- (e) The listed MBE/WBE subcontractor is ineligible to work on public works projects because of suspension and debarment proceedings pursuant to 2 CFR Parts 180, 215 and 1,200 or applicable state law:
- (f) The listed MBE/WBE subcontractor is not a responsible contractor;

- (g) The listed MBE/WBE voluntarily withdraws from the project and provides written notice of withdrawal;
- (h) The listed MBE/WBE is ineligible to receive MBE/WBE credit for the type of work required;
- (i) A MBE/WBE owner dies or becomes disabled with the result that the listed MBE/WBE contractor is unable to complete its work on the contract;
- (j) Other documented good cause that compels the termination of the MBE/WBE subcontractor. Provided, that good cause does not exist if the prime contractor seeks to terminate a MBE/WBE it relied upon to obtain the contract so that the prime contractor can self-perform the work for which the MBE/WBE contractor was engaged or so that the prime contractor can substitute another MBE/WBE or non-MBE/WBE contractor after contract award.

The Contractor shall comply with the following for replacement of a committed MBE/WBE:

(A) Performance Related Replacement

When a committed MBE/WBE is terminated for good cause as stated above, an additional MBE/WBE that was submitted at the time of bid may be used to fulfill the MBE/WBE commitment to meet the Combined MBE/WBE Goal. A good faith effort will only be required for removing a committed MBE/WBE if there were no additional MBE/WBEs submitted at the time of bid to cover the same amount of work as the MBE/WBE that was terminated.

If a replacement MBE/WBE is not found that can perform at least the same amount of work as the terminated MBE/WBE, the Contractor shall submit a good faith effort documenting the steps taken. Such documentation shall include, but not be limited to, the following:

- (1) Copies of written notification to MBE/WBEs that their interest is solicited in contracting the work defaulted by the previous MBE/WBE or in subcontracting other items of work in the contract.
- (2) Efforts to negotiate with MBE/WBEs for specific subbids including, at a minimum:
- (a) The names, addresses, and telephone numbers of MBE/WBEs who were contacted.
- (b) A description of the information provided to MBE/WBEs regarding the plans and specifications for portions of the work to be performed.
- (3) A list of reasons why MBE/WBE quotes were not accepted.
- (4) Efforts made to assist the MBE/WBEs contacted, if needed, in obtaining bonding or insurance required by the Contractor.
- (B) Decertification Replacement
- (1) When a committed MBE/WBE is decertified by the Department after the SAF (Subcontract Approval Form) has been received by the Owner, the Owner will not require the Contractor to solicit replacement MBE/WBE participation equal to the remaining work to be performed by the decertified firm. The participation equal to the remaining work performed by the decertified firm will count toward the contract goal requirement.
- (2) When a committed MBE/WBE is decertified prior to the Owner receiving the SAF (Subcontract Approval Form) for the named MBE/WBE firm, the Contractor shall take all necessary and reasonable steps to replace the MBE/WBE subcontractor with another MBE/WBE subcontractor to perform at least

the same amount of work to meet the Combined MBE/WBE goal requirement. If a MBE/WBE firm is not found to do the same amount of work, a good faith effort must be submitted to NCDOT (see A herein for required documentation).

(3) Exception: If the MBE/WBE's ineligibility is caused solely by its having exceeded the size standard during the performance of the contract, the Owner will not require the Contractor to solicit replacement MBE/WBE participation equal to the remaining work to be performed by the decertified firm. The participation equal to the remaining work performed by the decertified firm will count toward the contract goal requirement and overall goal.

All requests for replacement of a committed MBE/WBE firm shall be submitted to the Owner for approval on Form RF-1 (DBE Replacement Request). If the Contractor fails to follow this procedure, the Contractor may be disqualified from further bidding for a period of up to 6 months.

Changes in the Work

When the Owner makes changes that result in the reduction or elimination of work to be performed by a committed MBE/WBE, the Contractor will not be required to seek additional participation. When the Owner makes changes that result in additional work to be performed by a MBE/WBE based upon the Contractor's commitment, the MBE/WBE shall participate in additional work to the same extent as the MBE/WBE participated in the original contract work.

When the Owner makes changes that result in extra work, which has more than a minimal impact on the contract amount, the Contractor shall seek additional participation by MBEs/WBEs unless otherwise approved by the Engineer.

When the Owner makes changes that result in an alteration of plans or details of construction, and a portion or all of the work had been expected to be performed by a committed MBE/WBE, the Contractor shall seek participation by MBEs/WBEs unless otherwise approved by the Owner.

When the Contractor requests changes in the work that result in the reduction or elimination of work that the Contractor committed to be performed by a MBE/WBE, the Contractor shall seek additional participation by MBEs/WBEs equal to the reduced MBE/WBE participation caused by the changes.

Reports and Documentation

A SAF (Subcontract Approval Form) shall be submitted for all work which is to be performed by a MBE/WBE subcontractor. The Owner reserves the right to require copies of actual subcontract agreements involving MBE/WBE subcontractors.

When using transportation services to meet the contract commitment, the Contractor shall submit a proposed trucking plan in addition to the SAF. The plan shall be submitted prior to beginning construction on the project. The plan shall include the names of all trucking firms proposed for use, their certification type(s), the number of trucks owned by the firm, as well as the individual truck identification numbers, and the line item(s) being performed.

Within 30 calendar days of entering into an agreement with a MBE/WBE for materials, supplies or services, not otherwise documented by the SAF as specified above, the Contractor shall furnish the

Engineer a copy of the agreement. The documentation shall also indicate the percentage (60% or 100%)

of expenditures claimed for MBE/WBE credit.

Reporting Minority and Women Business Enterprise Participation

The Contractor shall provide the Owner with an accounting of payments made to all MBE and WBE firms, including material suppliers and contractors at all levels (prime, subcontractor, or second tier subcontractor). This accounting shall be furnished to the Owner or any given month by the end of the

following month. Failure to submit this information accordingly may result in the following action:

(A) Withholding of money due in the next partial pay estimate; or

(B) Removal of an approved contractor from the prequalified bidders' list or the removal of other

entities from the approved subcontractors list.

While each contractor (prime, subcontractor, 2nd tier subcontractor) is responsible for accurate accounting of payments to MBEs/WBEs, it shall be the prime contractor's responsibility to report all

accounting of payments to MBES/WBES, it shall be the prime contractor's responsibility

monthly and final payment information in the correct reporting manner.

Failure on the part of the Contractor to submit the required information in the time frame specified may result in the disqualification of that contractor and any affiliate companies from further bidding until the

required information is submitted.

Failure on the part of any subcontractor to submit the required information in the time frame specified

may result in the disqualification of that contractor and any affiliate companies from being approved for

further work on future projects until the required information is submitted.

Contractors reporting transportation services provided by non-MBE/WBE lessees shall evaluate the value

of services provided during the month of the reporting period only.

At any time, the Owner can request written verification of subcontractor payments.

The Contractor shall report the accounting of payments through the Owner's DBE Payment Tracking

System.

Failure to Meet Contract Requirements

Failure to meet contract requirements in accordance with Subarticle 102-15(J) of the

2018 Standard Specifications may be cause to disqualify the Contractor.

I-51

Wayne Executive Jetport
Perimeter Fence – Phase 2

NCDOT-DOA Project No.: 36237.22.17.2 WK Dickson Project No.: 20190561.00.RA

DISADVANTAGED BUSINESS ENTERPRISE NCDOT – SPIG61

(PHASES 1 & 3)

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DISADVANTAGED BUSINESS ENTERPRISE

The purpose of this Special Provision is to carry out the U.S. Department of Transportation's policy of ensuring nondiscrimination in the award and administration of contracts financed in whole or in part with Federal funds. This provision is guided by 49 CFR Part 26. This provision is administered in North Carolina by the North Carolina Department of Transportation (NCDOT).

Additional DBE Subcontractors – Any DBE submitted at the time of bid that will <u>not</u> be used to meet the DBE goal. No submittal of a Letter of Intent is required.

Committed DBE Subcontractor – Any DBE submitted at the time of bid that is being used to meet the DBE goal by submission of a Letter of Intent. Or any DBE used as a replacement for a previously committed DBE firm.

Contract Goal Requirement – The approved DBE participation at time of award, but not greater than the advertised contract goal.

DBE Goal – A portion of the total contract, expressed as a percentage, that is to be performed by committed DBE subcontractor(s).

Disadvantaged Business Enterprise (DBE) – A firm certified as a Disadvantaged Business Enterprise through the North Carolina Unified Certification Program.

Goal Confirmation Letter – Written documentation from the NCDOT to the bidder confirming the Contractor's approved, committed DBE participation along with a listing of the committed DBE firms.

Manufacturer - A firm that operates or maintains a factory or establishment that produces on the premises, the materials or supplies obtained by the Contractor.

Regular Dealer – A firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials or supplies required for the performance of the contract are bought, kept in stock, and regularly sold to the public in the usual course of business. A regular dealer engages in, as its principal business and in its own name, the purchase and sale or lease of the products in question. A regular dealer in such bulk items as steel, cement, gravel, stone, and petroleum products need not keep such products in stock, if it owns and operates distribution equipment for the products. Brokers and packagers are not regarded as manufacturers or regular dealers within the meaning of this section.

North Carolina Unified Certification Program (NCUCP) – A program that provides comprehensive services and information to applicants for DBE certification, such that an applicant is required to apply only once for a DBE certification that will be honored by all recipients of USDOT funds in North Carolina and not limited to the Department of Transportation only. The Certification Program is in accordance with 49 CFR Part 26.

United States Department of Transportation (USDOT) – Federal agency responsible for issuing regulations (49 CFR Part 26) and official guidance for the DBE program.

Forms and Websites of the North Carolina Department of Transportation (NCDOT) Referenced in this Provision

DBE Payment Tracking System – Form for reporting payments made to DBE subcontractors who have performed work on the project.

https://apps.dot.state.nc.us/Vendor/Payment/Tracking/

DBE-IS Subcontractor Payment Information – Form for reporting the payments made to all DBE firms working on the project. This form is for paper bid projects only. http://www.ncdot.org/doh/forms/files/DBE-IS.xls

RF-1 DBE Replacement Request Form – Form for replacing a committed DBE.

 $\underline{http://apps.dot.state.nc.us/_includes/download/external.html?pdf=http\%3A//www.ncdot.gov/doh/for_ms/files/RF-1.pdf$

SAF *Subcontract Approval Form* – Form required for approval to sublet the contract. http://www.ncdot.org/doh/operations/dp chief eng/constructionunit/saf.xls

JC-1 *Joint Check Notification Form* – Form and procedures for joint check notification. The form acts as a written joint check agreement amount the parties providing full and prompt disclosure of the expected use of joint checks.

 $\underline{https://apps.dot.state.nc.us/_includes/download/external.html?pdf=http\%3A//www.ncdot.gov/doh/forms/files/JC-1.pdf$

Letter of Intent – Form signed by the Contractor and the DBE subcontractor, manufacturer or regular dealer that affirms that a portion of said contract is going to be performed by the signed DBE for the amount listed at the time of bid.

http://www.ncdot.org/doh/preconstruc/ps/contracts/letterofintent.pdf

Listing of DBE Subcontractors Form – Form for entering DBE subcontractors on a project that will meet this DBE goal. This form is for paper bids only. http://www.ncdot.gov/doh/preconstruct/ps/word/MISC2.doc

Subcontractor Quote Comparison Sheet – Spreadsheet for showing all subcontractor quotes in the work areas where DBEs quoted on the project. This sheet is submitted with good faith effort packages.

http://www.ncdot.gov/business/ocs/goodfaith/excel/Ex Subcontractor Quote Comparison.xls

DBE Goal

The following DBE goal for participation by Disadvantaged Business Enterprises is established for this contract:

Disadvantaged Business Enterprises – ten percent (10%)

(A) If the DBE goal is more than zero, the Contractor shall exercise all necessary and reasonable steps to ensure that DBEs participate in at least the percent of the contract as set forth above as the DBE goal

(B) If the DBE goal is zero, the Contractor shall make an effort to recruit and use DBEs during the performance of the contract. Any DBE participation obtained shall be reported to the Department.

Directory of Transportation Firms (NCDOT Directory)

Real-time information is available about firms doing business with the NCDOT and firms that are certified through NCUCP in the Directory of Transportation Firms. Only firms identified in the Directory as DBE certified shall be used to meet the DBE goal. The Directory can be found at the following link. https://partner.ncdot.gov/VendorDirectory/default.html

The listing of an individual firm in the directory shall not be construed as an endorsement of the firm's capability to perform certain work.

Listing of DBE Subcontractors

At the time of bid, bidders shall submit <u>all</u> DBE participation that they anticipate to use during the life of the contract. Only those identified to meet the DBE goal will be considered committed, even though the listing shall include both committed DBE subcontractors and additional DBE subcontractors. Additional DBE subcontractor participation submitted at the time of bid will be used toward the Owner's overall race-neutral goal. Only those firms with current DBE certification at the time of bid opening will be acceptable for listing in the bidder's submittal of DBE participation. The Contractor shall indicate the following required information:

Paper Bids

Blank forms will not be deemed to represent zero participation. Bids submitted that do not have DBE participation indicated on the appropriate form will not be read publicly during the opening of bids. The Owner will not consider these bids for award and the proposal will be rejected.

- (1) If the DBE goal is more than zero.
 - (a) Bidders, at the time the bid proposal is submitted, shall submit a listing of DBE participation, including the names and addresses on *Listing of DBE Subcontractors* contained elsewhere in the contract documents in order for the bid to be considered responsive. Bidders shall indicate the total dollar value of the DBE participation for the contract.
 - (b) If bidders have no DBE participation, they shall indicate this on the *Listing of DBE Subcontractors* by entering the word "None" or the number "0". This form shall be completed in its entirety.
 - (c) The bidder shall be responsible for ensuring that the DBE is certified at the time of bid by checking the Directory of NCDOT Firms. If the firm is not certified at the time of the bidletting, that DEB's participation will not count towards achieving the DBE goal.

(2) If the DBE goal is zero, bidders, at the time the bid proposal is submitted, shall enter the word "None"; or the number "0"; or if there is participation, add the value on the Listing of DBE Subcontractors contained elsewhere in the contract documents.

DBE Prime Contractor

When a certified DBE firm bids on a contract that contains a DBE goal, the DBE firm is responsible for meeting the goal or making good faith efforts to meet the goal, just like any other bidder. In most cases, a DBE bidder on a contract will meet the DBE goal by virtue of the work it performs on the contract with its own forces. However, all the work that is performed by the DBE bidder and any other DBE subcontractors will count toward the DBE goal. The DBE bidder shall list itself along with any DBE subcontractors, if any, in order to receive credit toward the DBE goal.

For example, if the DBE goal is 45% and the DBE bidder will only perform 40% of the contract work, the prime will list itself at 40%, and the additional 5% shall be obtained through additional DBE participation with DBE subcontractors or documented through a good faith effort.

DBE prime contractors shall also follow Sections A and B listed under *Listing of DBE Subcontractor* just as a non-DBE bidder would.

Written Documentation - Letter of Intent

The bidder shall submit written documentation for each DBE that will be used to meet the DBE goal of the contract, indicating the bidder's commitment to use the DBE in the contract. This documentation shall be submitted on the NCDOT form titled *Letter of Intent*.

The documentation shall be received in the office of the Owner no later than close of business day of the sixth calendar day following opening of bids.

If the bidder fails to submit the Letter of Intent from each committed DBE to be used toward the DBE goal, or if the form is incomplete (i.e. both signatures are not present), the DBE participation will not count toward meeting the DBE goal. If the lack of this participation drops the commitment below the DBE goal, the Contractor shall submit evidence of good faith efforts, completed in its entirety, to the Owner no later than close of business on the eighth calendar day following opening of bids.

Submission of Good Faith Effort

If the bidder fails to meet or exceed the DBE goal the apparent lowest responsive bidder shall submit to the Owner documentation of adequate good faith efforts made to reach the DBE goal.

A hard copy and an electronic copy of this information shall be received in the office of the Owner no later than close of business of the sixth calendar day following opening of bids.

Note: Where the information submitted includes repetitious solicitation letters, it will be acceptable to submit a representative letter along with a distribution list of the firms that were solicited. Documentation of DBE quotations shall be a part of the good faith effort submittal.

This documentation may include written subcontractor quotations, telephone log notations of verbal quotations, or other types of quotation documentation.

Consideration of Good Faith Effort for Projects with DBE Goals More Than Zero

Adequate good faith efforts mean that the bidder took all necessary and reasonable steps to achieve the goal which, by their scope, intensity, and appropriateness, could reasonably be expected to obtain sufficient DBE participation. Adequate good faith efforts also mean that the bidder actively and aggressively sought DBE participation. Mere *pro forma* efforts are not considered good faith efforts.

The Owner will consider the quality, quantity, and intensity of the different kinds of efforts a bidder has made. Listed below are examples of the types of actions a bidder will take in making a good faith effort to meet the goal and are not interested to be exclusive or exhaustive, nor is it intended to be a mandatory checklist.

- (A) Soliciting through all reasonable and available means (e.g. attendance at pre-bid meetings, advertising and/or written notices through the use of the NCDOT Directory of Transportation Firms) the interest of all certified DBEs who have the capability to perform the work of the contract. The bidder must solicit this interest within at least 10 days prior to bid opening to allow the DBEs to respond to the solicitation. Solicitation shall provide the opportunity to DBEs within the project area and surrounding areas where the project is located. The bidder must determine with certainty if the DBEs are interested by taking appropriate steps to follow up initial solicitations.
- (B) Selecting portions of the work to be performed by DBEs in order to increase the likelihood that the DBE goals will be achieved. This includes, where appropriate, breaking out contract work items into economically feasible units to facilitate DBE participation, even when the prime contractor might otherwise prefer to perform these work items with its own forces.
- (C) Providing interested DBEs with adequate information about the plans, specifications, and requirements of the contract in a timely manner to assist them in responding to a solicitation.
- (D) (1) Negotiating in good faith with interested DBEs. It is the bidder's responsibility to make a portion of the work available to DBE subcontractors and suppliers and to select those portions of the work or material needs consistent with the available DBE subcontractors and suppliers, so as to facilitate DBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of DBEs that were considered; a description of the information provided regarding the plans and specifications for the work selected for subcontracting; and evidence as to why additional agreements could not be reached for DBEs to perform the work.
 - (2) A bidder using good business judgment would consider a number of factors in negotiating with subcontractors, including DBE subcontractors, and would take a firm's price and capabilities as well as contract goals into consideration. However, the fact that there may be some additional costs involved in finding and using DBEs is not in itself sufficient reason for a bidder's failure to meet the contract DBE goal, as long as such costs are reasonable. Also, the ability or desire of a prime contractor to perform the work of a contract with its own organization does not relieve the bidder of the responsibility to make good faith efforts.

Bidding contractors are not, however, required to accept higher quotes from DBEs if the price difference is excessive or unreasonable.

- (3) Not rejecting DBEs as being unqualified without sound reasons based on a thorough investigation of their capabilities. The bidder's standing within its industry, membership in specific groups, organizations, or associates and political or social affiliations (for example, union vs. non-union employee status) are not legitimate causes for the rejection or non-solicitation of bids in the bidder's efforts to meet the project goal.
- (4) Making efforts to assist interested DBEs in obtaining bonding, lines of credit, or insurance as required by the recipient or bidder.
- (5) Making efforts to assist interested DBEs in obtaining necessary equipment, supplies, materials, or related assistance or services.
- (6) Effectively using the services of available minority/women community organizations; minority/women contractors' groups; Federal, State, and local minority/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of DBEs.
- (7) Any other evidence that the bidder submits which shows that the bidder has made reasonable good faith efforts to meet the DBE goal.

In addition, the Owner may take into account the following:

- (1) Whether the bidder's documentation reflects a clear and realistic plan for achieving the DBE goal.
- (2) The bidder' past performance in meeting the DBE goals.
- (3) The performance of other bidders in meeting the DBE goal. For example, when the apparent successful bidder fails to meet the DBE goal, but others meet it, you may reasonably raise the question of whether, with additional reasonable efforts the apparent successful bidder could have met the goal. If the apparent successful bidder fails to meet the DBE goal, but meets or exceeds the average DBE participation obtained by other bidders, the Owner may view this, in conjunction with other factors, as evidence of the apparent successful bidder having made a good faith effort.

If the Owner does not award the contract to the apparent lowest responsive bidder, the Owner reserves the right to award the contract to the next lowest responsive bidder that can satisfy to the Owner that the DBE goal can be met or that an adequate good faith effort has been made to meet the DBE goal.

Non-Good Faith Appeal

The Owner will notify the contractor verbally and in writing of non-good faith. A contractor may appeal a determination of non-good faith made by the Owner. If a contractor wishes to appeal the determination

This Section Applies to Phases 1 & 3

made by the Owner, they shall provide written notification to the Owner. The appeal shall be made within 2 business days of notification of the determination of non-good faith.

Counting DBE Participation Toward Meeting DBE Goal

(A) Participation

The total dollar value of the participation by a committed DBE will be counted toward the contract goal requirement. The total dollar value of participation by a committed DBE will be based upon the value of work actually performed by the DBE and the actual payments to DBE firms by the Contractor.

(B) Joint Checks

Prior notification of joint check use shall be required when counting DBE participation for services or purchases that involves the use of a joint check. Notification shall be through submission of Form JC-1 (*Joint Check Notification Form*).

(C) Subcontracts (Non-Trucking)

A DBE may enter into subcontracts. Work that a DBE subcontracts to another DBE firm may be counted toward the contract goal requirement. Work that a DBE subcontracts to a non-DBE firm does <u>not</u> count toward the contract goal requirement. If a DBE contractor of subcontractor subcontracts a significantly greater portion of the work of the contract than would be expected on the basis of standard industry practices, it shall be presumed that the DBE is not performing a commercially useful function. The DBE may present evidence to rebut this presumption to the Owner. The Owner decision on the rebuttal of this presumption is subject to review by the Federal Highway Administration but is not administratively appealable to USDOT.

(D) Joint Venture

When a DBE performs as a participant in a joint venture, the Contractor may count toward its contract goal requirement a portion of the total value of participation with the DBE in the joint venture, that portion of the total dollar value being a distinct clearly defined portion of work that the DBE performs with its forces.

(E) Suppliers

A contractor may count toward its DBE requirement 60 percent of its expenditures for materials and supplies required to complete the contract and obtained from a DBE regular dealer and 100 percent of such expenditures from a DBE manufacturer.

(F) Manufacturers and Regular Dealers

A contractor may count toward its DBE requirement the following expenditures to DBE firms that are not manufacturers or regular dealers.

- (1) The fees or commissions charged by a 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 DOT-assisted contract, provided the fees or commissions are determined to be reasonable and not excessive as compared with fees and commissions customarily allowed for similar services.
- (2) With respect to materials or supplies purchased from a DBE, which is neither a manufacturer nor a regular dealer, count the entire amount of fees or commissions charged for assistance in the procurement of the materials and supplies, or fees or transportation charges for the delivery of materials or supplies required on a job site (but not the cost of the materials and supplies themselves), provided the fees are determined to be reasonable and not excessive as compared with fees customarily allowed for similar services.

Commercially Useful Function

(A) DBE Utilization

The Contractor may count toward its contract goal requirement only expenditures to DBEs that perform a commercially useful function in the work of a contract. 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 shall 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. To determine whether a DBE is performing a commercially useful function, the NCDOT 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 any other relevant factors.

(B) DBE Utilization in Trucking

The following factors will be used to determine if a DBE trucking firm is performing a commercially useful function.

- (1) The DBE shall be responsible for the management and supervision of the entire trucking operation for which it is responsible on a particular contract, and there shall not be a contrived arrangement for the purpose of meeting DBE goals.
- (2) The DBE shall itself own and operate at least one fully licensed, insured, and operational truck used on the contract.
- (3) The DBE receives credit for the total value of the transportation services it provides on the contract using trucks it owns, insures, and operates using drivers it employs.

- (4) The DBE may subcontract the work to another DBE firm, including an owner-operator who is certified as a DBE. The DBE who subcontracts work to another DBE receives credit for the total value of the transportation services the subcontracted DBE provides on the contract.
- (5) The DBE may also subcontract the work to a non-DBE firm, including from an owner-operator. The DBE who subcontracts the work to a non-DBE is entitled to the total value of transportation services provided credit by the non-DBE subcontractor not to exceed the value of transportation services provided DBE-owned trucks on the contract. Additional participation non-DBE subcontractors receives credit only for the fee or commission it receives as a result of the subcontract arrangement. The value of services performed under subcontract agreements between the DBE and the Contractor will not count towards the DBE contract requirement.
- (6) A DBE may lease truck(s) from an established equipment leasing business open to the general public. The lease must indicate that the DBE has exclusive use of and control over the truck. This requirement does not preclude the leased truck from working for others during the term of the lease with the consent of the DBE, so long as the lease gives the DBE absolute priority for use of the leased truck. This type of lease may count toward the DBE's credit as long as the driver is under the DBE's payroll.
- (7) Subcontracted/leased trucks shall display clearly on the dashboard the name of DBE that they are subcontracted/leased to and their own company name if it is not identified on the truck itself. Magnetic door signs are not permitted.

DBE Replacement

When a Contractor has relied on a commitment to a DBE firm (or an approved substitute DBE firm) to meet all or part of a contract goal requirement, the contractor shall not terminate the DBE for convenience. This includes, but is not limited to, instances in which the Contractor seeks to perform the work of the terminated subcontractor with another DBE subcontractor, a non-DBE subcontractor, or with the Contractor's own forces or those of an affiliate. A DBE may only be terminated after receiving the Owner's written approval based upon a finding of good cause for the termination.

All requests for replacement of a committed DBE firm shall be submitted to the Owner for approval on Form RF-1 (DBE Replacement Request). If the Contractor fails to follow this procedure, the Contractor may be disqualified by the NCDOT from further bidding for a period of up to 6 months. The Contractor shall comply with the following for replacement of a committed DBE:

(A) Performance Related Replacement

When a committed DBE is terminated for good cause as stated above, an additional DBE that was submitted at the time of bid may be used to fulfill the DBE commitment. A good faith effort will only be required for removing a committed DBE if there were no additional DBEs submitted at the time of bid to cover the same amount of work as the DBE that was terminated.

If a replacement DBE is not found that can perform at least the same amount of work as the terminated DBE, the Contractor shall submit a good faith effort documenting the steps taken. Such documentation shall include, but not be limited to, the following:

- (1) Copies of written notification to DBEs that their interest is solicited in contracting the work defaulted by the previous DBE or in subcontracting other items of work in the contract.
- (2) Efforts to negotiate with DBEs for specific sub bids including, at a minimum:
 - (a) The names, addresses, and telephone numbers of DBEs who were contacted.
 - (b) A description of the information provided to DBEs regarding the plans and specifications for portions of the work to be performed.
- (3) A list of reasons why DBE quotes were not accepted.
- (4) Efforts made to assist the DBEs contacted, if needed, in obtaining bonding or insurance required by the Contractor.

(B) Decertification Replacement

- (1) When a committed DBE is decertified by the NCDOT after the SAF (Subcontract Approval Form) has been received by the Owner, the Owner will not require the Contractor to solicit replacement DBE participation equal to the remaining work to be performed by the decertified firm. The participation equal to the remaining work performed by the decertified firm will count toward the contract goal requirement.
- When a committed DBE is decertified prior to the Owner receiving the SAF (Subcontract Approval Form) for the named DBE firm, the Contractor shall take all necessary and reasonable steps to replace the DBE subcontractor with another DBE subcontractor to perform at least the same amount of work to meet the DBE goal requirement. If a DBE firm is not found to do the same amount of work, a good faith effort must be submitted to the Owner (see A herein for required documentation).

Changes in the Work

When the Owner makes changes that result in the reduction or elimination of work to be performed by a committed DBE, the Contractor will not be required to seek additional participation. When the Owner makes changes that result in additional work to be performed by a DBE based upon the Contractor's commitment, the DBE shall participate in additional work to the same extent as the DBE participated in the original contract work.

When the Owner makes changes that result in extra work, which has more than a minimal impact on the contract amount, the Contractor shall seek additional participation by DBEs unless otherwise approved by the Owner.

When the Owner makes changes that result in an alteration of plans or details of construction, and a portion or all of the work had been expected to be performed by a committed DBE, the Contractor shall seek participation by DBEs unless otherwise approved by the Owner.

When the Contractor requests changes in the work that result in the reduction or elimination of work that the Contractor committed to be performed by a DBE, the Contractor shall seek additional participation by DBEs equal to the reduced DBE participation caused by the changes.

Reports and Documentation

A SAF (Subcontract Approval Form) shall be submitted for all work which is to be performed by a DBE subcontractor. The Owner reserves the right to require copies of actual subcontract agreements involving DBE subcontractors.

When using transportation services to meet the contract commitment, the Contractor shall submit a proposed trucking plan in addition to the SAF. The plan shall be submitted prior to beginning construction on the project. The plan shall include the names of all trucking firms proposed for use, their certification type(s), the number of trucks owned by the firm, as well as the individual truck identification numbers, and the line item(s) being performed.

Within 30 calendar days of entering into an agreement with a DBE for materials, supplies or services, not otherwise documented by the SAF as specified above, the Contractor shall furnish the Owner a copy of the agreement. The documentation shall also indicate the percentage (60% or 100%) of expenditures claimed for DBE credit.

Reporting Disadvantaged Business Enterprise Participation

The Contractor shall provide the Owner with an accounting of payments made to all DBE firms, including material suppliers and contractors at all levels (prime, subcontractor, or second tier subcontractor). This accounting shall be furnished to the Owner for any given month by the end of the following month. Failure to submit this information accordingly may result in the following action:

- (A) Withholding of money due in the next partial pay estimate; or
- (B) Removal of an approved contractor from the prequalified bidders' list or the removal of other entities from the approved subcontractors list.

While each contractor (prime, subcontractor, 2nd tier subcontractor) is responsible for accurate accounting of payments to DBEs, it shall be the prime contractor's responsibility to report all monthly and final payment information in the correct reporting manner.

Failure on the part of the Contractor to submit the required information in the time frame specified may result in the disqualification of that contractor and any affiliate companies from further bidding until the required information is submitted.

Failure on the part of any subcontractor to submit the required information in the time frame specified may result in the disqualification of that contractor and any affiliate companies from being approved for work on future DOT projects until the required information is submitted.

Contractors reporting transportation services provided by non-DBE lessees shall evaluate the value of services provided during the month of the reporting period only.

This Section Applies to Phases 1 & 3

At any time, the Owner can request written verification of subcontractor payments.

The Contractor shall report the accounting of payments on the Owner's DBE-IS (Subcontractor Payment Information) with each invoice. Invoices will not be processed for payment until the DBE-IS is received.

Failure to Meet Contract Requirements

Failure to meet contract requirements in accordance with these specifications may be cause to disqualify the Contractor by the NCDOT from further bidding for a specified length of time.

BID FORMS

| Date: | | | |
|-------|--|------|------|
| | | | |
| | | | |
| | | | |

TO: Wayne County
Mandy Trujillo, Procurement Specialist
224 E. Walnut Street
4th Floor Wayne County Courthouse
Goldsboro, NC 27530

The undersigned, as bidder, hereby declares that the only person or persons interested in this bid as principal or principals is or are named herein and that no person other than those herein mentioned, has any interest in the bid or in the contract to be entered into; that this bid is made without connection with any other person, company or parties making a bid; and that it is in all respects fair and in good faith without collusion or fraud.

The bidder further declares that he has examined the site of the work and informed himself fully in regard to all conditions pertaining to the place where the work is to be done, that he has examined the specifications for the work and contract documents relative thereto, and has read all special provisions furnished prior to the opening of bids; that he has satisfied himself relative to the work performed. In case of conflict between words and figures, the words will govern.

The bidder proposes and agrees that if this bid is accepted, to contract with Wayne County in the form of contract specified, to furnish all necessary transportation and labor necessary to perform all construction in full and complete agreement with the plans and specifications and contract documents to the full and entire satisfaction of Wayne County as computed from the schedule of unit prices hereinafter shown. The quantities of work shown by unit prices are approximations only and the contract price will be based on the actual quantities included in the work.

The bidder agrees not to withdraw his bid within 90 days after the scheduled closing time for receipt of bids.

A bidder shall be considered disqualified for any of the following reasons, among others:

- (a) Submitting more than one bid from the same partnership, firm or corporation under the same or different name.
- (b) Evidence of collusion among bidders. Bidders participating in such collusion shall be disqualified as bidders for any future work of the Owner until any such participating bidder has been reinstated by the Owner as a qualified bidder.

The Owner reserves that right to reject any or all bids or sections thereof or to accept such bids or sections thereof, as it appears in its judgment to be in the best interest of the Owner.

Bidders are hereby notified that all bids may be rejected if the lowest responsible bid(s) received exceeds the Engineer's estimate by more than 7% and it is determined that an award of the contract would cause excessive inflationary impact. Nothing in this paragraph shall limit in any manner the Owner's right to reject any and all bids if it appears in its judgment to be its best interest to do so. The bidder agrees, if awarded the contract to commence work on the commencement date stated in the Notice to Proceed or within ten (10) days after

such specified commencement date. The bidder further agrees that in the case or failure on his part to execute said contract and the bonds required within ten (10) consecutive calendar days after written notice is given of the award of the contract, the bid bond accompanying this bid shall be paid into the hands of the Owner, as liquidated damages for such failure; otherwise, the bid bond accompanying this bid shall be returned to the undersigned.

Bidders are hereby notified that all bids may be rejected if the lowest responsible bid(s) received exceeds the Engineer's estimate by more than 7% and it is determined that an award of the contract would cause excessive inflationary impact. Nothing in this paragraph shall limit in any manner the Owner's right to reject any and all bids if it appears in its judgment to be its best interest to do so.

Respectfully submitted,

| Signatu | re of Bidder: | |
|---------|--|-----------------------|
| a. | If an Individual doing business as: | |
| b. | If a Partnership: | (Member of Firm) |
| c. | If a Corporation: | (Name of Corporation) |
| | | (Officer) |
| | | (Title) |
| ATTES | ST:(Witness) | Date: |
| Curren | t Contractor's North Carolina Registration | on Number: |
| Busine | ss Address: | |
| | | |

ADDENDA ACKNOWLEDGE

| Receipt of the fo | ollowing Addenda is here | eby acknowledged: | |
|-------------------|--------------------------|-------------------|--|
| Addendum No. | No. Addendum Date | | |
| | | | |
| | | | |
| | | | |
| | | | |

Wayne Executive Jetport Perimeter Fence Schedule of Work

| Item No. & Spec. | Description and Unit Price in Words | Quantity | Unit | Unit Price | Extended Total |
|---------------------|--|----------|------|-----------------|-------------------|
| Base Bid (Ph | ase 2) | | | | |
| 1 | Mobilization | 1 | LS | | |
| C-105 | @ (write in words) | | | | |
| 2 C-102-1 | Temporary Construction Entrance @ (write in words) | 1 | EA | | |
| | | | | | |
| 3 C-102-2 | Temporary Linear Fiber Roll @ (write in words) | 8,000 | LF | | |
| 4 P-151-1 | Clearing and Grubbing | 0.1 | AC | | |
| P-131-1 | @ (write in words) | | | | |
| 5 P-151-2 | Isolated Tree Removal @ (write in words) | 20 | EA | | |
| 6 F-164-1 | Remove Existing Chain Link Fence (Including Pedestrian Gates) @ (write in words) | 7,968 | LF | | |
| 7 F-164-3 | Wildlife Exclusion Fence @ (write in words) | 7,960 | LF | | |
| 8 F-164-4 | Manual Double Swing Gate (20' Opening) @ (write in words) | 1 | EA | | |
| 9 F-164-7 | Ditch Crossing @ (write in words) | 2 | EA | | |
| 10 T-901-1 | Seeding and Mulching @ (write in words) | 1 | AC | | |
| | | | BASI | E BID - TOTAL = | |

Wayne Executive Jetport Perimeter Fence Schedule of Work

| Item No. & Spec. | Description and Unit Price in Words | Quantity | Unit | Unit Price | Extended Total |
|---------------------|--|----------|------|---------------|-------------------|
| Additive Bid I | No. 1 (Phase 1) | | | | |
| 1 C-105 | Mobilization @ (write in words) | 1 | LS | | |
| 2 C-102-1 | Temporary Construction Entrance @ (write in words) | 1 | EA | | |
| 3 C-102-2 | Temporary Linear Fiber Roll @ (write in words) | 6,000 | LF | | |
| 4 P-151-1 | Clearing and Grubbing @ (write in words) | 0.5 | AC | | |
| 5 P-151-2 | Isolated Tree Removal @ (write in words) | 20 | EA | | |
| 6 323119-1 | Type I Ornamental Fence @ (write in words) | 205 | LF | | |
| 7 323119-2 | Type II Ornamental Fence @ (write in words) | 645 | LF | | |
| 8 323119-3 | Automatic Gate - Metal Ornamental w/ Keypad (20' Opening) @ (write in words) | 3 | EA | | |
| 9 323119-4 | Metal Ornamental Pedestrian Gate w/ Keypad (4' Opening) @ (write in words) | 4 | EA | | |
| 10 323119-5 | Power Connection - Gate & Key Pad @ (write in words) | 3 | EA | | |
| 11 F-164-1 | Remove Existing Chain Link Fence (Including Pedestrian Gates) @ (write in words) | 5,500 | LF | | |

Wayne Executive Jetport Perimeter Fence Schedule of Work

| Description and Unit Price in Words | Quantity | Unit | Unit Price | Extended Total |
|--|--|---|---|---|
| Remove Existing Drive Through Gates @ (write in words) | 3 | EA | | |
| Wildlife Exclusion Fence @ (write in words) | 5,750 | LF | | |
| Manual Double Swing Gate (20' Opening) @ (write in words) | 1 | EA | | |
| Automatic Gate - 10' Chain Link / Key Pad (24' Opening) @ (write in words) | 1 | EA | | |
| Automatic Gate Power Connections @ (write in words) | 1 | EA | | |
| Seeding and Mulching @ (write in words) | 1.0 | AC | | |
| | | ITIVE BID I | NO. 1 - TOTAL =_ | |
| | TOTAL BASE BI | D + ADDIT | IVE BID NO. 1 = | |
| Mobilization | 1 | LS _ | | |
| Temporary Construction Entrance @ (write in words) | 1 | EA | | |
| Temporary Linear Fiber Roll @ (write in words) | 6,000 | LF _ | | |
| | | | | |
| | Remove Existing Drive Through Gates ② (write in words) Wildlife Exclusion Fence ② (write in words) Manual Double Swing Gate (20' Opening) ② (write in words) Automatic Gate - 10' Chain Link / Key Pad (24' Opening) ② (write in words) Automatic Gate Power Connections ② (write in words) Seeding and Mulching ② (write in words) No. 2 (Phase 3) Mobilization ② (write in words) Temporary Construction Entrance ② (write in words) Temporary Linear Fiber Roll ② (write in words) | in Words Remove Existing Drive Through Gates ② (write in words) Wildlife Exclusion Fence ③ (write in words) Manual Double Swing Gate (20' Opening) ③ (write in words) Automatic Gate - 10' Chain Link / Key Pad (24' Opening) ② (write in words) Automatic Gate Power Connections ③ (write in words) Seeding and Mulching ④ (write in words) TOTAL BASE BI No. 2 (Phase 3) Mobilization ② (write in words) Temporary Construction Entrance ④ (write in words) Temporary Construction Entrance ④ (write in words) | In Words Remove Existing Drive Through Gates ② (write in words) Wildlife Exclusion Fence ③ (write in words) Manual Double Swing Gate (20' Opening) ③ (write in words) Automatic Gate - 10' Chain Link / Key Pad (24' Opening) ④ (write in words) Automatic Gate Power Connections ④ (write in words) Seeding and Mulching ④ (write in words) ADDITIVE BID IN TOTAL BASE BID + ADDITIVE BID IN Mobilization ⑥ (write in words) Temporary Construction Entrance ④ (write in words) Temporary Linear Fiber Roll ⑥ (write in words) | In Words Remove Existing Drive Through Gates @ (write in words) Wildlife Exclusion Fence @ (write in words) Manual Double Swing Gate (20' Opening) @ (write in words) Automatic Gate - 10' Chain Link / Key Pad (24' Opening) @ (write in words) Automatic Gate Power Connections @ (write in words) Automatic Gate Power Connections @ (write in words) Seeding and Mulching @ (write in words) ADDITIVE BID NO. 1 - TOTAL = TOTAL BASE BID + ADDITIVE BID NO. 1 = No. 2 (Phase 3) Mobilization @ (write in words) Temporary Construction Entrance @ (write in words) Temporary Linear Fiber Roll @ (write in words) Temporary Linear Fiber Roll @ (write in words) |

Wayne Executive Jetport Perimeter Fence Schedule of Work

| Item No. & Spec. | Description and Unit Price in Words | Quantity | Unit | Unit Price | Extended Total |
|---------------------|--|--------------|------------|------------------|-------------------|
| 5 F-164-1 | Remove Existing Chain Link Fence (Including Pedestrian Gates) @ (write in words) | 4,845 | LF | | |
| 6 F-164-3 | Wildlife Exclusion Fence @ (write in words) | 4,820 | LF | | |
| 7 F-164-4 | Manual Double Swing Gate (20' Opening) @ (write in words) | 1 | EA | | |
| 8 F-164-7 | Ditch Crossing @ (write in words) | 1 | EA | | |
| 9 T-901-1 | Seeding and Mulching @ (write in words) | 1 | AC | | |
| | | ADDI | TIVE BID I | NO. 2 - TOTAL =_ | |
| | то | TAL BASE BI | D + ADDIT | IVE BID NO. 2 = | |
| | TOTAL BASE BID + ADDIT | TIVE BID NO. | 1 + ADDIT | IVE BID NO. 2 = | |
| | | | | | |

For a bid to be considered responsive, the bidder shall provide bid prices for all bid items and the alternate items.

| | Liquidated Damages: | \$500 per Calendar | day overrun |
|--|-----------------------------------|--------------------|-------------|
| Contract award will be based on the Base Bid amount of | of the lowest responsive and resp | oonsible bidder. | |
| Required DBE | or Combined MBE / WBE Goal: | 10.0 | % |
| DBE or Combined MBE / V | VBE Percentage used by Bidder: | | % |

Contract Time: Phase 1:

Phase 2:

Phase 3:

60 Consecutive Calendar Days

45 Consecutive Calendar Days

45 Consecutive Calendar Days

Bid Bond

| Date of Bond: | | , 202 |
|---|--|-------|
| Name and address of Principal (Bidder) | | |
| Name and address of Surety: | | |
| Name and address of | | |
| Obligee (Owner) | Wayne County 224 E. Walnut Street 4th Floor Wayne County Courthouse Goldsboro, NC 27530 | |
| Amount of Bond: | | |
| Project | Perimeter Fence | |

KNOW ALL MEN BY THESE PRESENTS, that we, the Principal above named and the Surety above named, which is duly licensed under the laws of North Carolina to execute bid bonds, are held and firmly bound unto the Obligee above named in the penal sum of five percent (5%) of the amount bid in the bid above described in lawful money of the United States of America for the payment of which, well and truly to be made, we bind ourselves, our heirs, executors, administrators, assigns and successors, jointly and severally, firmly by these presents.

NOW THEREFORE, THE CONDITION OF THI S OBLIGATION is such, that if the Principal shall be awarded the contract for which the bid above described is submitted and shall execute the contract, give bond for the faithful performance of the contract, and give bond for the payment to all persons supplying labor and material in the prosecution of the work provided for in said contract, within ten (10) days after the award of the same to the Principal, then this obligation shall be null and void; but if the Principal fails to so execute such contract and give the performance bond and the payment bond as required by Section 129 of Chapter 44A of the North Carolina General Statutes, as amended, the Surety shall, upon demand, forthwith pay to the Obligee the amount of this bond set forth above.

Regardless of any statement to the contrary, the terms and provisions of this bond shall not be altered, amended or limited by any attachment, rider or condition.

IN WITNESS WHEREOF, the above-bounden parties have executed this instrument under their several seals on the date indicated above, the name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

| | Principal (Name of individual, individual Name, partnership, joint venture, or corp | |
|--|---|--------|
| WITNESS: | By: | (SEAL) |
| (If a proprietorship, partnership or joint venture) | Title:(Owner, partner, joint venture, of Office held in corporation) | or |
| ATTEST: (If a corporation) | | |
| By: | (Corporate Seal of Principal) | |
| Title: (Corporate Secretary or Assistant Secretary only) | | |
| | Surety (Name of Surety) | |
| WITNESS: | By:Attorney in Fact | |
| | (Type or Print Name of Attorney in Fact | t) |
| | (Corporate Seal of Surety) | |
| | (Address of Attorney in Fact) | |

EQUAL EMPLOYMENT OPPORTUNITY (EEO) REPORT STATEMENT

(41 CFR Part 60-1.7)

The Bidder shall complete the following statement by checking the appropriate boxes. Failure to complete these blanks may be grounds for rejection of bid.

| 1. The Bidder (Proposer) hashas notdeveloped and has on file at each establishment affirmativaction programs pursuant to 41 CFR 60-1.40 and 41 CFR 60-2. |
|--|
| 2. The Bidder (Proposer) hashas notparticipated in any previous contract or subcontract subject to the equal opportunity clause prescribed by Executive Order 11246, as amended. |
| 3. The Bidder (Proposer) has has not filed with the Joint Reporting Committee the annual compliance report on Standard Form 100 (EEO-1 Report). |
| 4. The Bidder (Proposer) doesdoes notemploy fifty (50) or more employees. |
| Name of Bidder: |
| By: |
| Title: |
| Date: |

DISADVANTAGED / MINORITY / WOMEN BUSINESS ENTERPRISE (DBE/MBE/WBE)

<u>Policy.</u> The requirements of NCDOT SPIG61/SPIG67, apply to this contract. It is the policy of Wayne County to practice nondiscrimination based on race, color, sex, or national origin in the award or performance of this contract. All firms qualifying under this solicitation are encouraged to submit bids/proposals. Award of this contract will be conditioned upon satisfying the requirements of this bid specification. These requirements apply to all bidders/offerors, including those who qualify as a DBE, MBE or WBE. A DBE or combined MBE/WBE contract goal of **ten percent (10%)** has been established for this contract. The bidder/offeror shall make good faith efforts, as defined in the Instruction to Bidders section of the specifications and Appendix A, SPIG61/SPIG67, to meet the contract goal by utilizing DBEs, MBEs or WBEs in the performance of this contract.

<u>DBE/MBE/WBE Obligation</u>. The contractor agrees to ensure that disadvantaged business enterprises as defined in NCDOT SPIG61/SPIG67 have the maximum opportunity to participate in the performance of contracts and subcontracts financed in whole or in part with federal funds provided under this agreement. In this regard, all contractors shall take all necessary and reasonable steps in accordance with 49 CFR Part 26 to ensure that disadvantaged business enterprises have the maximum opportunity to compete for and perform contracts. Contractors shall not discriminate on the basis of race, color, national origin, or sex in the performance of this subsequent subcontracts.

<u>DBE/MBE/WBE Participation</u>. The Bidder shall provide the following information for disadvantaged subcontractors whom it proposes to engage in carrying out and completing the work called for by this proposal. No change shall be made in any of the disadvantaged subcontractors proposed to be engaged by the bidder, should it be the successful bidder, following the opening of this proposal without the prior written consent and approval of Wayne County.

<u>Disadvantaged Business Enterprise Utilization.</u> The undersigned has satisfied the requirements of the specifications in the following manner (please check the appropriate space):

Total BID: _____ The Bidder is committed to a minimum of 10% DBE/MBE/WBE utilization on this project. ____ The Bidder (if unable to meet the goal of 10% is committed to a minimum of ____ DBE utilization on this project and has submitted documentation showing good faith effort as listed in the section entitled "Contractor's Required Submission" in the Instruction to Bidders. Contractor: _____ By: ____ Signature Title Address: _____ Title Address: _____ Phone Number:

| Contract Number C | |
|-------------------|--------------|
| | County (ies) |

| LISTING OF DBE/MBE | /WRF | SURCO | NTRACTORS | | |
|--|---------------------|-------------|------------------------------|--------------------------------|--------------------------------|
| EISTING OF DDE/NIDE | , wbe | БОВСО | THETORS | Sheet | _ of |
| | | | | | |
| FIRM NAME AND ADDRESS | DBE/ MBE/ WBE | ITEM NO. | ITEM DESCRIPTION | * AGREED UPON UNIT PRICE | ** DOLLAR VOLUME OF ITEM |
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| | | | | | |
| * The Dollar Volume shown in this column shall be the Agreed Upon by the Prime Contractor and the DBE/ME | | | ** Dollar Volume of DBE/MBE/ | WBE Subcontractor | \$ |
| these prices will be used to determine the percentage of | | | Percentage of Total | Contract Bid Price | % |
| participation in the contract. | | | | | |

This form must be completed in order for the Bid to be considered responsive and be publicly read. Bidders with no DBE/MBE/WBE participation must so indicate this on the form by entering the word or number *zero*.

^{**} Must have entry even if figure to be entered is zero.

LETTER OF INTENT TO PERFORM AS A SUBCONTRACTOR **CONTRACT:** NAME OF BIDDER: The undersigned intends to perform work in connection with the above contract upon execution of the bid and subsequent award of contract by the Board of Transportation as: Name of MBE/WBE/DBE Subcontractor Address City State Zip Please check all that apply: Minority Business Enterprise (MBE) Women Business Enterprise (WBE) Disadvantaged Business Enterprise (DBE) The MBE /WBE /DBE status of the above named subcontractor is certified by the North Carolina Department of Transportation. The above named subcontractor is prepared to perform the described work listed on the attached MBE/WBE/DBE Commitment Items sheet, in connection with the above contract upon execution of the bid and subsequent award of contract by the Board of Transportation. The above named subcontractor is prepared to perform the described work at the estimated Commitment Total for Subcontractor Price identified on the MBE/WBE/DBE Commitment Items sheet and amount indicated below. Commitment Total based on estimated Unit Prices and Quantities on the "attached" MBE/WBE/DBE Commitment Items sheet. Amount \$ The above named bidder and subcontractor mutually accepts the Commitment Total estimated for the Unit Prices and Quantities. This commitment total is based on estimated quantities only and most likely will vary up or down as the project is completed. Final compensation will be based on actual quantities of work performed and accepted during the pursuance of work. The above listed amount represents the entire dollar amount quoted based on these estimated quantities. No conversations, verbal agreements, and/or other forms of non-written representations shall serve to add, delete, or modify the terms as stated. This document shall not serve in any manner as an actual subcontract between the two parties. A separate subcontractor agreement will describe in detail the contractual obligations of the bidder and the MBE/WBE/DBE subcontractor. Affirmation The above named MBE/ WBE/ DBE subcontractor affirms that it will perform the portion(s) of the contract for the estimated dollar value as stated above. Name of MBE/ WBE/ DBE Subcontractor Name of Bidder Signature / Title Signature / Title Date Date

For SAP Payor Report ID and SAP Vendor/Sub Report ID, please go to https://www.ebs.nc.gov/VendorDirectory/default.html to verify IDs.

AIRPORT NAME:



CONTRACTOR REQUEST #:

AV-509/AV-510 DBE/MBE/WBE/HUB VENDOR COMMITMENTS/AWARDS/PAYMENTS

| WBS #: | | | | | | FINAL | | | |
|------------------------|-------------------|----------------------------------|--------------------------------|---------------------------------------|---------------------------|---------------------------|------------------------------|---|---|
| | Instruct | ions: Select the Final but | ton if this is the la | ast payment for this pro | oject. If any percentages | are not 100%, then also s | submit an AV-514. | | |
| | | The % | column includes | total payment, includir | ng the current payment t | o meet the goal. | | | |
| Payor SAP Vendor / Sub | Vendor / Sub | SAP Vendor / Sub Report ID | Awards and Billings | | | Date Paid to | | | |
| Name | Name Payor Name | | Committed Award (\$) AV-509 | Total Prior Payments (\$) (AV-510) | Current Payment (\$) | Total (\$) | Vendor / Sub this Invoice | % | |
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| | | | • | | | | | • | |
| PAYOR NAME: | | PAY | OR SIGNATURE: | | | DATE SIGNED: | | | _ |
| SPONSOR NAME: | | SPOI | NSOR SIGNATUR | E: | | DATE SIGNED: | | | _ |
| Notes: (AV-509/AV-510) | (10/19) Form must | be complete in order to be | e processed. Inco | mplete forms will be ret | urned which will delay re | imbursement request. | | | |

CERTIFICATE OF PROMPT PAYMENT

The prime contractor agrees to pay each subcontractor under this prime contract for satisfactory performance of its contract no later than seven (7) days from the receipt of each payment the prime contractor received from the Owner. The prime contractor agrees further to return retainage payments to each subcontractor within seven (7) days after the subcontractor's work is satisfactorily completed. Any delay or postponement of payment from the above-referenced time frame may occur only for good cause following written approval of the Owner. This clause applies to both DBE and non-DBE subcontractors.

| Name of Bidder:_ | | |
|------------------|--|--|
| | | |
| By: | | |
| • | | |
| Title: | | |
| | | |
| Date: | | |

CERTIFICATION

The undersigned hereby certifies to the Wayne County:

TRADE RESTRICTION CERTIFICATION

The contractor or subcontractor, by submission of an offer and/or execution of a contract, certifies that it:

- a. is not owned or controlled by one or more citizens of a foreign country included in the list of countries that discriminate against U.S. firms published by the Office of the United States Trade Representative (USTR);
- b. has not knowingly entered into any contract or subcontract for this project with a person that is a citizen or national of a foreign country on said list, or is owned or controlled directly or indirectly by one or more citizens or nationals of a foreign country on said list;
- c. has not procured any product nor subcontracted for the supply of any product for use on the project that is produced in a foreign country on said list.

Unless the restrictions of this clause are waived by the Secretary of Transportation in accordance with 49 CFR 30.17, no contract shall be awarded to a contractor or subcontractor who is unable to certify to the above. If the contractor knowingly procures or subcontracts for the supply of any product or service of a foreign country on said list for use on the project, the Federal Aviation Administration may direct through the Sponsor cancellation of the contract at no cost to the Government.

Further, the contractor agrees that, if awarded a contract resulting from this solicitation, it will incorporate this provision for certification without modification in each contract and in all lower tier subcontracts. The contractor may rely on the certification of a prospective subcontractor unless it has knowledge that the certification is erroneous.

The contractor shall provide immediate written notice to the sponsor if the contractor learns that its certification or that of a subcontractor was erroneous when submitted or has become erroneous by reason of changed circumstances. The subcontractor agrees to provide written notice to the contractor if at any time it learns that its certification was erroneous by reason of changed circumstances.

This certification is a material representation of fact upon which reliance was placed when making the award. If it is later determined that the contractor or subcontractor knowingly rendered an erroneous certification, the Federal Aviation Administration may direct through the Sponsor cancellation of the contract or subcontract for default at no cost to the Government.

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 provision. The knowledge and information of a contractor is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

This certification concerns a matter within the jurisdiction of an agency of the United States of America and the making of a false, fictitious, or fraudulent certification may render the maker subject to prosecution under Title 18, United States Code, Section 1001.

BUY AMERICAN CERTIFICATION

The contractor agrees to comply with 49 USC § 50101, which provides that Federal funds may not be obligated unless all steel and manufactured goods used in AIP-funded projects are produced in the United States, unless the FAA has issued a waiver for the product; the product is listed as an Excepted Article, Material Or Supply in Federal Acquisition Regulation subpart 25.108; or is included in the FAA Nationwide Buy American Waivers Issued list.

A bidder or offeror must submit the appropriate Buy America certification (below) with all bids or offers on AIP funded projects. Bids or offers that are not accompanied by a completed Buy America certification must be rejected as nonresponsive.

Certificate of Buy American Compliance for Manufactured Products

(Non-building construction projects, equipment acquisition projects)

As a matter of bid responsiveness, the bidder or offeror must complete, sign, date, and submit this certification statement with their proposal. The bidder or offeror must indicate how they intend to comply with 49 USC § 50101 by selecting one on the following certification statements. These statements are mutually exclusive. Bidder must select one or the other (not both) by inserting a checkmark (\checkmark) or the letter "X".

| | ☐Bidder or o | fferor hereby | certifies tha | t it will com | nly with 49 | USC 8 | 50101 | hv: |
|-----|--------------|----------------|---------------|---------------|-------------|-------|-------|-----|
| - 1 | | TICIOI HCICO Y | cerunies ma | t it will com | pry willitz | | 20101 | υy. |

- a) Only installing steel and manufactured products produced in the United States, or;
- b) Installing manufactured products for which the FAA has issued a waiver as indicated by inclusion on the current FAA Nationwide Buy American Waivers Issued listing, or;
- c) Installing products listed as an Excepted Article, Material or Supply in Federal Acquisition Regulation Subpart 25.108.

By selecting this certification statement, the bidder or offeror agrees:

- 1. To provide to the Owner evidence that documents the source and origin of the steel and manufactured product.
- 2. To faithfully comply with providing US domestic product
- 3. To furnish US domestic product for any waiver request that the FAA rejects
- 4. To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the FAA determines justified.
- The bidder or offeror hereby certifies it cannot comply with the 100% Buy American Preferences of 49 USC § 50101(a) but may qualify for either a Type 3 or Type 4 waiver under 49 USC § 50101(b). By selecting this certification statement, the apparent bidder or offeror with the apparent low bid agrees:
 - 1. To the submit to the Owner within 15 calendar days of the bid opening, a formal waiver request and required documentation that support the type of waiver being requested.

- 2. That failure to submit the required documentation within the specified timeframe is cause for a non-responsive determination may result in rejection of the proposal.
- 3. To faithfully comply with providing US domestic products at or above the approved US domestic content percentage as approved by the FAA.
- 4. To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the FAA determines justified.

Required Documentation

Type 3 Waiver - The cost of the item components and subcomponents produced in the United States is more that 60% of the cost of all components and subcomponents of the "item". The required documentation for a type 3 waiver is:

- a) Listing of all product components and subcomponents that are not comprised of 100%
 US domestic content (Excludes products listed on the FAA Nationwide Buy American
 Waivers Issued listing and products excluded by Federal Acquisition Regulation Subpart
 25.108; products of unknown origin must be considered as non-domestic products in their
 entirety)
- b) Cost of non-domestic components and subcomponents, excluding labor costs associated with final assembly at place of manufacture.
- c) Percentage of non-domestic component and subcomponent cost as compared to total "item" component and subcomponent costs, excluding labor costs associated with final assembly at place of manufacture.

Type 4 Waiver – Total cost of project using US domestic source product exceeds the total project cost using non-domestic product by 25%. The required documentation for a type 4 of waiver is:

- a) Detailed cost information for total project using US domestic product
- b) Detailed cost information for total project using non-domestic product

| False Statements: Per 49 USC § 47126, this | s certification concerns a matter within the jurisdiction of |
|---|--|
| the Federal Aviation Administration and the | making of a false, fictitious or fraudulent certification |
| may render the maker subject to prosecution | under Title 18, United States Code. |
| | |
| | |
| Date | Signature |

CERTIFICATION OF NONSEGREGATED FACILITIES

The federally-assisted construction contractor certifies that she or he does not maintain or provide, for his employees, any segregated facilities at any of his establishments and that she or he does not permit his employees to perform their services at any location, under his control, where segregated facilities are maintained. The federally-assisted construction contractor certifies that she or he will not maintain or provide, for his employees, segregated facilities at any of his establishments and that she or he will not permit his employees to perform their services at any location under his control where segregated facilities are maintained. The federally-assisted construction contractor agrees that a breach of this certification is a violation of the Equal Opportunity Clause in this contract.

As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, restrooms, and washrooms, restaurants and other eating areas, timeclocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directives or are, in fact, segregated on the basis of race, color, religion, or national origin because of habit, local custom, or any other reason. The federally-assisted construction contractor agrees that (except where she or he has obtained identical certifications from proposed subcontractors for specific time periods) she or he will obtain identical certifications from proposed subcontractors prior to the award of subcontracts exceeding \$10,000 which are not exempt from the provisions of the Equal Opportunity Clause and that she or he will retain such certifications in his files.

CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

The bidder/offeror certifies, by submission of this proposal or acceptance of this contract, 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. It further agrees by submitting this proposal that it will include this clause without modification in all lower tier transactions, solicitations, proposals, contracts, and subcontracts. Where the bidder/offeror/contractor or any lower tier participant is unable to certify to this statement, it shall attach an explanation to this solicitation/proposal.

| Name o | of Bidder: |
|--------|------------|
| | |
| | By: |
| | • |
| | Title: |
| | |
| | Date: |

AFFIDAVIT OF NON-COLLUSION

| STATE OF COUNTY | | | |
|---|-----------------------|---|---------|
| Personally appeared before me | | b | eing |
| duly sworn says that he is a member of | the firm of | | |
| and further says that his firm, association | on, or cooperation | has not, either directly or indirectly, entered | d any |
| agreement, participated in any collusion | on, or otherwise t | taken any action in resistant of for compe | etitive |
| bidding in connection with the submissi | on of a bid on the | above-named project. | |
| Further, | | swears and affirms that all | legal |
| formalities required for the proper exe | ecution of affidav | rits pursuant to the laws of his state have | been |
| complied with an further agrees on be | chalf of himself, h | his firm association, or corporation, that i | n any |
| subsequent prosecution of perjury of h | im, his firm assoc | ciation, or corporation, it shall note a defer | nse to |
| such charge perjury that said formalities | s were not in fact of | complied with. | |
| | | | |
| | | | |
| Typed Name and Title | _ | | |
| Legal Signature | _ | | |
| SWORN to me before this | _ day of | | |
| Notary Public for | _ | | |

Bidders List

All firms bidding or quoting on subcontracts for this DOT-assisted project are listed below.

| 5. Y | | Describe Type of Work | Certified NC DBE/MBE/WBE | 4 6 57 |
|-------------|---------|--------------------------|-----------------------------|-------------|
| Firm Name | Address | Firm Performs | (<u>Y or N)</u> | Age of Firm |
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E-VERIFY AFFIDAVIT OF AGREEMENT FOR NORTH CAROLINA

| STATE OF _ | | | |
|--------------------------------------|---|--|---|
| COUNTY O | F | | |
| | ore me, the undersigned authority, p by me first duly sworn, doth depose a | | (Affiant) |
| I, in (Business Er knowledge c | my capacity as(" ntity or Employer), having lawful au of the facts set out herein, do attest to | Title) of | and personal |
| Dur | ing the term or performance of any co | ontract with Wayne County, No. | rth Carolina |
| 1. | employment, or continue to emp Employer is enrolled in E-Verify E-Verify to verify the employment compliance with E-Verify; | y. The Business Entity or Emplent status of new hires, as well | e Business Entity or oyer will participate in |
| | **** | [OR] ***** | |
| 2. | employees or more for the purpo 786/S.L. 2013-418, vendors with E-Verify account and are require not registered and do not have an Business Entity or Employer acc Employer will acquire an E-Veri | n 25 or fewer employees are exed to supply a copy of their driven E-Verify User Identification I quire more than 26 employees, | ces. Per NC House Bill empt from acquiring an ver license if they have Number. Should the |
| Date | | Signature of Affiant | |
| I, the unders | igned Notary Public in and for | | hereby |
| certify that _ | whose name as | | (Title) of |
| that, being in | whose name as whose whose whose whose whose | Affidavit he/she, as such officer | r or agent and with full |
| Give | en under my hand and seal this | day of | , 202 |
| (affix seal) | | Notary Public Print Name: | |
| | | | res: |
| | (Att | each to Bid) | |

<u>AFFIDAVIT OF COMPLIANCE WITH IRAN DIVESTMENT ACT</u> (In Accordance with N.C.G.S. 143C-6A-1 to 6A-9 effective February 26, 2016)

| Vendor or Service Provider: | | | |
|--|--|--|--|
| | IRAN DIVESTMENT ACT CERTIFICATION REQUIRED BY N.C.G.S. 143C-6A-5(a) | | |
| Subsidiary List created by the Sta | ntity listed above is not listed on the Final Divestment List or the Iran Parent & ate Treasurer pursuant to N.C.G.S. 143-6A-4. Entity also certifies that they will not s that are on either list. These lists can be found by going to | | |
| The undersigned hereby certif statement. | fies that he or she is authorized by the entity listed above to make the foregoing | | |
| | | | |
| Signature | Date | | |
| Printed Name | Title | | |

The Iran Divestment Act's requirements applicable to Local Government Units** will become effective on February 26, 2016, at the time the State Treasurer publishes the first list of prohibited companies and individuals (a "Final Divestment List") under the Act.

Final Divestment List

The Department of State Treasurer develops the Final Divestment List using data from a research vendor, U.S. federal sanctions lists, and other credible information available to the public. It consists of any individual or company, including parent entities and majority owned subsidiaries, that:

- Provided goods or services of \$20,000,000 or more within any 12-month period in the energy sector of Iran during the preceding five years;
- Extended \$20,000,000 or more in credit, under certain circumstances, to another individual or company that will use the credit to provide goods or services in the energy sector in Iran. (G.S. 143C-6A-3(4).)

The Department of State Treasurer will update the Final Divestment List at least every 180 days. The list will be published on the State Treasurer's website at www.nctreasurer.com/Iran and periodically circulated to Local Government Units.

Requirement 1: Contract Certification

For new procurements and new, renewed, or assigned contracts on or after February 26, 2016, each Local Government Unit must obtain a simple certification from each bidder or vendor. The bidder or vendor must affirm that it is not listed on the State Treasurer's Final Divestment List found at www.nctreasurer.com/Iran as of the date of signature. The certification is due at the time a bid is submitted or the time a contract is entered into, renewed, or assigned. (G.S. 143C-6A- 5(a).)

We have attached on the preceding page a short form that can be used for this certification, but Local Government Units are free to instead use their own form or put the required certification in the text of a contract or purchase order. Each Local Government Unit shall maintain its own records demonstrating these certifications.

Requirement 2: Restriction on Contracting

Individuals or companies on the Final Divestment List are ineligible to contract or subcontract with Local Government Units. (G.S. 143C-6A-6(a).) Any existing contracts with these Iran-linked persons will be allowed to expire in accordance with the contract's terms. (G.S. 143C-6A-6(c).)

Contracts valued at less than \$1,000.00 are exempt from this restriction. (G.S. 143C-6A-7(a).) In addition, a Local Government Unit may contract with a listed individual or company if it makes a good-faith determination that (1) the commodities or services are necessary to perform its functions and (2) that, absent such an exemption, it would be unable to obtain those commodities or services. (G.S. 143C-6A-7(c).) Local Government Units shall enter such exemptions into the procurement record.

The Department of State Treasurer anticipates distributing the first Final Divestment List on February 26, 2016. Once the List has been distributed, all Local Government Units should meet the contract certification requirements.

| Sharon Edmundson at Sharon. Edmundson@nctreasurer.com or 919-814-4289. | | |
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If you have questions about the Department of State Treasurer's Iran Divestment Policy, please contact

CERTIFICATION OF OFFERER/BIDDER REGARDING TAX DELINQUENCY AND FELONY CONVICTIONS

The Bidder must complete the following two certification statements. The Bidder must indicate its current status as it relates to tax delinquency and felony conviction by inserting a checkmark (\checkmark) in the space following the applicable response. The Bidder agrees that, if awarded a contract resulting from this solicitation, it will incorporate this provision for certification in all lower tier subcontracts.

Certifications

- 1. The Bidder represents that it is () is not () a corporation that has any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability.
- 2. The Bidder represents that it is () is not () is not a corporation that was convicted of a criminal violation under any Federal law within the preceding 24 months.

Note

If an Bidder responds in the affirmative to either of the above representations, the Bidder is ineligible to receive an award unless the sponsor has received notification from the agency suspension and debarment official (SDO) that the SDO has considered suspension or debarment and determined that further action is not required to protect the Government's interests. The Bidder therefore must provide information to the owner about its tax liability or conviction to the Owner, who will then notify the required considerations before award decisions are made.

Term Definitions

Felony conviction: Felony conviction means a conviction within the preceding twenty-four (24) months of a felony criminal violation under any Federal law and includes conviction of an offense defined in a section of the U.S. code that specifically classifies the offense as a felony and conviction of an offense that is classified as a felony under 18 U.S.C. § 3559.

Tax Delinquency: A tax delinquency is any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability.

| Name of Bidder | : |
|----------------|------------|
| Ву | <i>7</i> : |
| Title | : |
| Date: | |

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CONTRACT

| THIS between W Contractor. | ayne County, North | de and entered into this day of, 202, by and a Carolina hereinafter called the Owner and hereinafter called the |
|---|---|---|
| | NESSETH: That the struction of work per | ne Contractor, for the consideration hereinafter fully set out, and the Owner rformed, agree that: |
| work in the documents Fence - Pha | which are attached ase 1/2/3. | e Contractor shall furnish and deliver all the materials and perform all the as provided in the following enumerated plans, specifications and contract hereto and made a part thereof as if fully contained herein: Perimete |
| SPE | ECIFICATIONS A | ND CONTRACT DOCUMENTS: |
| (a) | Notice to Bidders | |
| (b) | Instructions to Bio | lders |
| (c) | Proposal (as Acce | pted) |
| (d) | Performance Bon | d and Labor and Materials Payment Bond |
| (e) | General Provision | ıs |
| (f) | Technical Specific | |
| (g) | Addendum No. 1 | dateddated |
| (h) | Addendum No. 2 | dated |
| (i) | Addendum No. 3 | dated |
| (j) | Addendum No. 4 | dated |
| (k) | Drawings prepare 27607. | ed by_W.K. Dickson & Co., Inc., 720 Corporate Center Dr, Raleigh, NO |
| | Contract Amount | \$ |
| | Contract Time: | 60 Calendar Days (Phase 1) |
| | Commen inne. | 45 Calendar Days (Phase 2) |
| | | 45 Calendar Days (Phase 3) |

Liquidated Damages for Contract Time Overrun: \$500.00 Per Calendar Day

- 2. The Contractor shall commence the work to be performed under this contract not later than the date set by the Engineer in written notice to proceed, said date to be not less than ten (10) days after issuance of notice to proceed.
- 3. The Owner hereby agrees to pay to the Contractor for the faithful performance of this contract, subject to additions and deductions as provided in the specifications or proposal, in lawful money of the United States, such unit/or lump sum prices as are set forth in the accepted Proposal for quantities of each item actually accomplished. The Contractor shall repair or replace all defective work promptly and at no cost, charge or expense to the Owner. The warranty and guaranty, as provided for in this paragraph, are in addition to and not in limitation of any other bond, warranty or guaranty provided to the Owner by the Contractor or by a manufacturer, supplier or otherwise, or any other cause of action, right or remedy.

- 4. The Owner shall make partial payments to the Contractor on the basis of a duly certified and approved estimate of work performed during the preceding calendar month by the Contractor, less the specified retainage. All work must be performed strictly in accordance with this Contract and all work is subject to acceptance by the Owner.
- 5. Upon submission by the Contractor of evidence satisfactory to the Owner that all payrolls, materials, bills and other cost incurred by the Contractor in connection with the construction of the work have been paid in full, final payment on account of this Contract shall be made within thirty (30) days after the completion by the Contractor of all work covered by this Contract and the acceptance of such work by the Owner.
- 6. If at any time after the execution of this Contract and the bonds hereto attached; the Owner shall deem the surety or sureties upon such bond or bonds to be unsatisfactory, or if for any reason any such bond ceases to be adequate to cover the performance of the work or the payment for labor or materials, the Contractor shall, at his expense and within five (5) days after the receipt of notice from the Owner to do so, furnish an additional bond or bonds in such form and amount and with such surety or sureties as shall be satisfactory to the Owner. In such event, no further payment to the Contractor shall be deemed to be due under this Contract until such new or additional bonds shall have been furnished in a manner and form satisfactory to the Owner.
- 7. In respect to each phase of the work and for one (1) year from and after the date on which such phase is accepted for use by the Owner, or for such longer period as may be provided for in any written warranty or guaranty, the Contractor warrants and guarantees the work (including but not limited to all labor and materials in respect thereto); and the Contractor shall repair or replace all defective work promptly and at no cost, charge or expense to the Owner. The warranty and guaranty, as provided for in this paragraph, are in addition to and not in limitation of any other bond, warranty or guaranty provided to the Owner by the Contractor or by a manufacturer, supplier or otherwise, or any other cause of action, right or remedy.
- 8. The Owner may in its sole discretion suspend this Contract for ninety (90) days or terminate this Contract at any time, whereupon the Contractor shall be paid only for the work actually performed, the materials actually delivered to the job site, and the materials specifically ordered by the Contractor for this project if such specifically ordered materials cannot be returned to the manufacturer or supplier by the Contractor at no cost or expense to the Contractor. (It is understood, however, that the shall return all specifically ordered materials if the Owner agrees in writing to reimburse the Contractor for all of the latter's costs and expenses incurred in so returning the materials.) The Contractor shall not be entitled to recover any anticipated profits. This paragraph applies only to those situations where the Owner suspends or terminates this Contract for reasons other than the Contractor's performance or breach of or default under this Contract.
- 9. This Contract is made and entered into in Wayne County, and North Carolina law shall govern and apply to this Contract. In the event of a dispute or disputes between the parties hereto, and in the event litigation is instituted, such litigation shall be commenced only in a state superior or district court in Wayne County, North Carolina, and each party hereby waives any right or claim for a change of venue from Wayne County, North Carolina.
 - 10. Regardless of which party hereto is responsible for the preparation and drafting of this

Contract, it shall not be construed more strictly against either party.

WITNESS:

- 11. Whenever the context permits, words herein in any gender shall include the masculine, feminine and neuter.
- 12. This Contract may not be assigned by the Contractor unless the Owner has consented in writing to the assignment.
- 13. The parties hereto acknowledge, represent, state and warrant that they have signed and executed this Contract under seal, that they have adopted their respective seals as affixed to this Contract, and that they are executing this Contract with the intent that it shall be a sealed instrument.

IN WITNESS WHEREOF, the Owner and Contractor hereto have executed this contract on the date first above written in six counterparts, each of which shall be deemed an original contract.

| (As to Contractor) | (Contractor) | (Seal) |
|---|--|-------------------------|
| WITNESS: | Ву | |
| (Secretary – Treasurer) | Wayne County (Owner) | (Seal) |
| | By | |
| This instrument has been pre-audited Control Act. | I in the manner required by the Local Gove | ernment Budget and Fisc |

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PERFORMANCE BOND

| KNOW ALL MEN BY THESE PRESENTS: That | as Principal, |
|---|--|
| hereinafter called Contractor, and | as Surety, hereinafter called |
| Surety, are held and firmly bound unto Wayne County, as Obli | igee, hereinafter called Owner, in the |
| amount of | nt whereof Contractor and Surety bind |
| themselves, their heirs, executors, administrators, successors and as | ssigns, jointly and severally, firmly by |
| these presents. | |
| WHEREAS, Contractor has by written agreement dated entered into a contract with the Owner for the Perimeter Fence - I and Specifications prepared by W.K. Dickson & Co., Inc. which hereof, and is hereinafter referred to as the Contract. | Phase 1 in accordance with Drawings |

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that, if Contractor shall promptly and faithfully perform said Contract, then this obligation shall be null and void; otherwise it shall remain in full force and effect.

The Surety hereby waives notice of any alteration or extension of time made by the Owner.

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:

- (1) Complete the Contract in accordance with its terms and conditions, or
- (2) Obtain a bid or bids for completing the Contract in accordance with its terms and conditions, 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 Owner, and make available as 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 cost of completion less the balance of the contract price; but not exceeding, including other costs and damages for which the Surety may be liable hereunder, the amount set forth in the first paragraph hereof. The term "balance of the contract price," as used in this paragraph, shall mean the total amount payable by Owner to Contractor under the Contract and any amendments thereto, less the amount properly paid by Owner to Contractor.

Any suit under this bond must be instituted before the expiration of (2) two years from the date on which final payment under the Contract falls due.

| Signed and sealed this | day of | , 202 |
|------------------------|-------------|---------|
| (Witness) | (Principal) | (Seal) |
| | (Title) | |
| (Witness) | (Surety) | (Seal) |
| | (Title) | |

No right of action shall accrue on this bond to or for the use of any person or corporation other than the

Owner named herein or the heirs, executors, administrators or successors of the Owner.

LABOR AND MATERIAL PAYMENT BOND

| KNOW ALL MEN BY THESE PRESENTS: That | as |
|---|--------------|
| Principal, hereinafter called Principal, andas | Surety, |
| hereinafter called Surety, are held and firmly bound unto Wayne County, as Obligee, hereina | after called |
| Owner, for the use and benefit of claimants as herein below defined, in the amount of | |
| dollars (\$), for the payment whereof Prin | ncipal and |
| Surety bind themselves, their heirs, executors, administrators, successors and assigns, j | ointly and |
| severally, firmly by these presents. | |
| WHEREAS, Principal has by written agreement dated, 202, en | ntered into |
| a contract with the Owner for the Perimeter Fence - Phase 1 in accordance with Dra | wings and |
| Specifications prepared by W.K. Dickson & Co., Inc. which contract is by reference m | ade a part |
| hereof, and is hereinafter referred to as the Contract. | |
| | |

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that, if Principal shall promptly make payment to all claimants as hereinafter defined, for all labor and material used or reasonably required for use in the performance of the Contract, then this obligation shall be void; otherwise it shall remain in full force and effect, subject, however, to the following conditions:

- 1. A claimant is defined as one having a direct contract with the Principal or with a Subcontractor of the Principal for labor, material, or both, used or reasonably required for use in the performance of the Contract, labor and material being construed to include that part of water, gas, power, light, heat, oil, gasoline, telephone service or rental or equipment directly applicable to the Contract.
- 2. The above-named Principal and Surety hereby jointly and severally agree with the Owner that every Claimant as herein defined, who has not been paid in full before the expiration of a period of ninety (90) days after the date on which the last of such claimant's work or labor was done or performed, or materials were furnished by such claimant, may sue on this bond for the use of such claimant, prosecute the suit to final judgment for such sum or sums as may be justly due claimant, and have execution thereon. The Owner shall not be liable for the payment of any costs or expenses of any such suit.
 - 3. No suit or action shall be commenced hereunder by any claimant.
- a. Unless claimant, other than one having a direct contract with the Principal, shall have given written notice to any two of the following: the Principal, the Owner, or the Surety above-named, within ninety (90) days after such claimant did or performed the last of the work or labor, or furnished the last of the materials for which said claim is made, stating with substantial accuracy the amount claimed and the name of the party to whom the materials were furnished, or for whom the work or labor was done or performed. Such notice shall be served by mailing the same by registered mail or certified mail, postage prepaid, in an envelope addressed to the Principal, Owner, or Surety, at any place where an office is regularly maintained for the transaction of business, or served in any manner in which legal process may be served in the state in which the aforesaid project is located, save that such service need not be made by a public officer.
- b. After the expiration of two (2) years following the date on which Principal ceased work on said Contract, it being understood, however, that if any limitation embodied in this bond is prohibited by

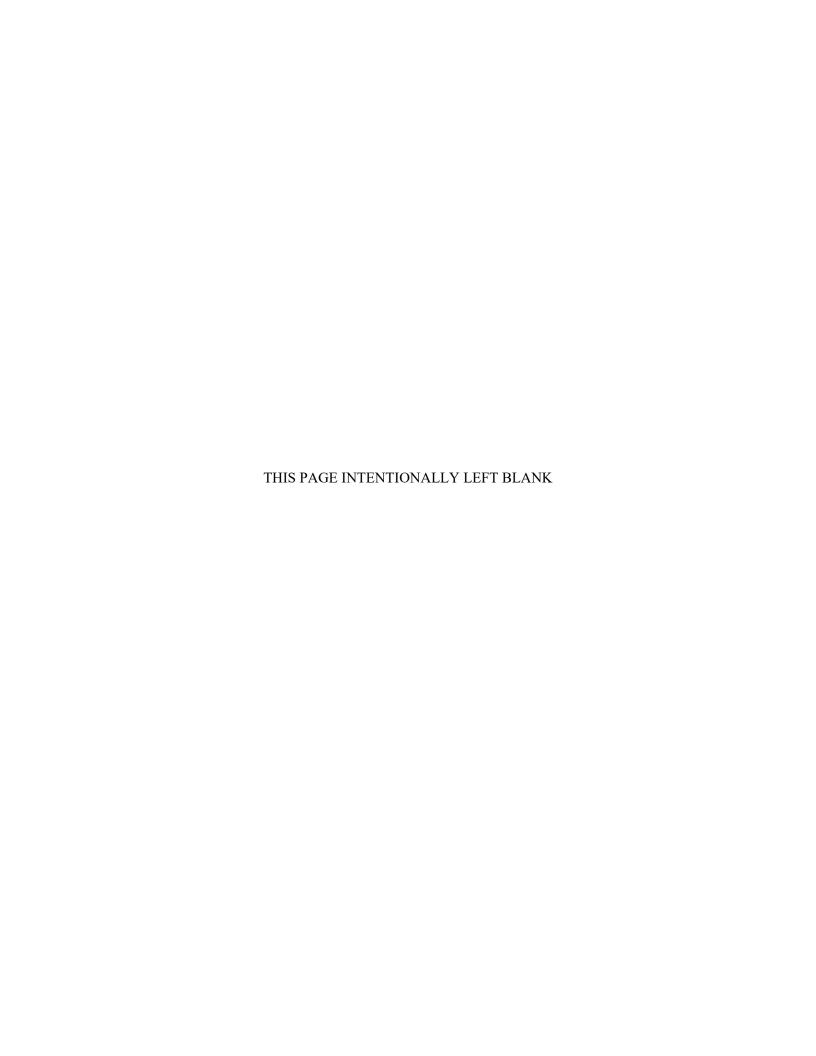
any law controlling the construction hereof, such limitation shall be deemed to be amended so as to be equal to the minimum period of limitation permitted by such law.

- c. Other than in a state court of competent jurisdiction in and for the county or other political subdivision of the state in which the Project, or any part thereof, is situated, or in the United States District Court for the district in which the Project, or any part thereof, is situated, and not elsewhere.
- 4. The amount of this bond shall be reduced by and to the extent of any payment or payments made in good faith hereunder, inclusive of the payment by Surety of mechanics' liens which may be filed of record against said improvement, whether or not claim for the amount of such lien be presented under and against this bond.

| Signed and sealed this | day of | , 202 |
|------------------------|-------------|--------|
| (Witness) | (Principal) | (Seal) |
| | (Title) | |
| (Witness) | (Surety) | (Seal) |
| | (Title) | |

DIVISION II

GENERAL PROVISIONS



DEFINITION OF TERMS

When the following terms are used in these specifications, in the contract, or in any documents or other instruments pertaining to construction where these specifications govern, the intent and meaning shall be defined as follows:

| Paragraph Number | Term | Definition |
|---------------------|--------------------------------------|---|
| 10-01 | AASHTO | The American Association of State Highway and Transportation Officials. |
| 10-02 | Access Road | The right-of-way, the roadway and all improvements constructed thereon connecting the airport to a public roadway. |
| 10-03 | Advertisement | A public announcement, as required by local law, inviting bids for work to be performed and materials to be furnished. |
| 10-04 | Airport | Airport means an area of land or water which is used or intended to be used for the landing and takeoff of aircraft; an appurtenant area used or intended to be used for airport buildings or other airport facilities or rights of way; airport buildings and facilities located in any of these areas, and a heliport. |
| 10-05 | Airport Improvement Program (AIP) | A grant-in-aid program, administered by the Federal Aviation Administration (FAA). |
| 10-06 | Air Operations Area (AOA) | The term air operations area (AOA) shall mean any area of the airport used or intended to be used for the landing, takeoff, or surface maneuvering of aircraft. An air operation area shall include such paved or unpaved areas that are used or intended to be used for the unobstructed movement of aircraft in addition to its associated runway, taxiway, or apron. |
| 10-07 | Apron | Area where aircraft are parked, unloaded or loaded, fueled and/or serviced. |
| 10-08 | ASTM International (ASTM) | Formerly known as the American Society for Testing and Materials (ASTM). |
| 10-09 | Award | The Owner's notice to the successful bidder of the acceptance of the submitted bid. |

| Paragraph Number | Term | Definition |
|---------------------|------------------------------------|---|
| 10-10 | Bidder | Any individual, partnership, firm, or corporation, acting directly or through a duly authorized representative, who submits a proposal for the work contemplated. |
| 10-11 | Building Area | An area on the airport to be used, considered, or intended to be used for airport buildings or other airport facilities or rights-of-way together with all airport buildings and facilities located thereon. |
| 10-12 | Calendar Day | Every day shown on the calendar. |
| 10-13 | Certificate of Analysis (COA) | The COA is the manufacturer's Certificate of Compliance (COC) including all applicable test results required by the specifications. |
| 10-14 | Certificate of Compliance (COC) | The manufacturer's certification stating that materials or assemblies furnished fully comply with the requirements of the contract. The certificate shall be signed by the manufacturer's authorized representative. |
| 10-15 | Change Order | A written order to the Contractor covering changes in the plans, specifications, or proposal quantities and establishing the basis of payment and contract time adjustment, if any, for work within the scope of the contract and necessary to complete the project. |
| 10-16 | Contract | A written agreement between the Owner and the Contractor that establishes the obligations of the parties including but not limited to performance of work, furnishing of labor, equipment and materials and the basis of payment. |
| | | The awarded contract includes but may not be limited to: Advertisement, Contract form, Proposal, Performance bond, payment bond, General provisions, certifications and representations, Technical Specifications, Plans, Supplemental Provisions, standards incorporated by reference and issued addenda. |
| 10-17 | Contract Item (Pay Item) | A specific unit of work for which a price is provided in the contract. |
| 10-18 | Contract Time | The number of calendar days or working days, stated in the proposal, allowed for completion of the contract, including authorized time extensions. If a calendar date of completion is stated in the proposal, in lieu of a number of calendar or working days, the contract shall be completed by that date. |

| Paragraph Number | Term | Definition |
|---------------------|---|--|
| 10-19 | Contractor | The individual, partnership, firm, or corporation primarily liable for the acceptable performance of the work contracted and for the payment of all legal debts pertaining to the work who acts directly or through lawful agents or employees to complete the contract work. |
| 10-20 | Contractors Quality Control (QC) Facilities | The Contractor's QC facilities in accordance with the Contractor Quality Control Program (CQCP). |
| 10-21 | Contractor Quality Control Program (CQCP) | Details the methods and procedures that will be taken to assure that all materials and completed construction required by the contract conform to contract plans, technical specifications and other requirements, whether manufactured by the Contractor, or procured from subcontractors or vendors. |
| 10-22 | Control Strip | A demonstration by the Contractor that the materials, equipment, and construction processes results in a product meeting the requirements of the specification. |
| 10-23 | Construction Safety and Phasing Plan (CSPP) | The overall plan for safety and phasing of a construction project developed by the airport operator, or developed by the airport operator's consultant and approved by the airport operator. It is included in the invitation for bids and becomes part of the project specifications. |
| 10-24 | Drainage System | The system of pipes, ditches, and structures by which surface or subsurface waters are collected and conducted from the airport area. |
| 10-25 | Engineer | The individual, partnership, firm, or corporation duly authorized by the Owner to be responsible for engineering, inspection, and/or observation of the contract work and acting directly or through an authorized representative. |
| 10-26 | Equipment | All machinery, together with the necessary supplies for upkeep and maintenance; and all tools and apparatus necessary for the proper construction and acceptable completion of the work. |
| 10-27 | Extra Work | An item of work not provided for in the awarded contract as previously modified by change order or supplemental agreement, but which is found by the Owner's Engineer to be necessary to complete the work within the intended scope of the contract as previously modified. |

| Paragraph Number | Term | Definition |
|---------------------|-----------------------------------|---|
| 10-28 | FAA | The Federal Aviation Administration. When used to designate a person, FAA shall mean the Administrator or their duly authorized representative. |
| 10-29 | Federal Specifications | The federal specifications and standards, commercial item descriptions, and supplements, amendments, and indices prepared and issued by the General Services Administration. |
| 10-30 | Force Account | a. Contract Force Account - A method of payment that addresses extra work performed by the Contractor on a time and material basis. b. Owner Force Account - Work performed for the project by the Owner's employees. |
| 10-31 | Intention of Terms | Whenever, in these specifications or on the plans, the words "directed," "required," "permitted," "ordered," "designated," "prescribed," or words of like import are used, it shall be understood that the direction, requirement, permission, order, designation, or prescription of the Engineer and/or Resident Project Representative (RPR) is intended; and similarly, the words "approved," "acceptable," "satisfactory," or words of like import, shall mean approved by, or acceptable to, or satisfactory to the Engineer and/or RPR, subject in each case to the final determination of the Owner. Any reference to a specific requirement of a numbered paragraph of the contract specifications or a cited standard shall be interpreted to include all general requirements of the entire section, specification item, or cited standard that |
| 10-32 | Lighting | may be pertinent to such specific reference. A system of fixtures providing or controlling the light sources used on or near the airport or within the airport buildings. The field lighting includes all luminous signals, markers, floodlights, and illuminating devices used on or near the airport or to aid in the operation of aircraft landing at, taking off from, or taxiing on the airport surface. |
| 10-33 | Major and Minor Contract Items | A major contract item shall be any item that is listed in the proposal, the total cost of which is equal to or greater than 20% of the total amount of the award contract. All other items shall be considered minor contract items. |
| 10-34 | Materials | Any substance specified for use in the construction of the contract work. |

| Paragraph Number | Term | Definition |
|---------------------|------------------------------------|---|
| 10-35 | Modification of Standards (MOS) | Any deviation from standard specifications applicable to material and construction methods in accordance with FAA Order 5300.1. |
| 10-36 | Notice to Proceed (NTP) | A written notice to the Contractor to begin the actual contract work on a previously agreed to date. If applicable, the Notice to Proceed shall state the date on which the contract time begins. |
| 10-37 | Owner | The term "Owner" shall mean the party of the first part or the contracting agency signatory to the contract. Where the term "Owner" is capitalized in this document, it shall mean airport Sponsor only. The Owner for this project is Wayne County . |
| 10-38 | Passenger Facility Charge (PFC) | Per 14 Code of Federal Regulations (CFR) Part 158 and 49 United States Code (USC) § 40117, a PFC is a charge imposed by a public agency on passengers enplaned at a commercial service airport it controls. |
| 10-39 | Pavement Structure | The combined surface course, base course(s), and subbase course(s), if any, considered as a single unit. |
| 10-40 | Payment bond | The approved form of security furnished by the Contractor and their own surety as a guaranty that the Contractor will pay in full all bills and accounts for materials and labor used in the construction of the work. |
| 10-41 | Performance bond | The approved form of security furnished by the Contractor and their own surety as a guaranty that the Contractor will complete the work in accordance with the terms of the contract. |
| 10-42 | Plans | The official drawings or exact reproductions which show the location, character, dimensions and details of the airport and the work to be done and which are to be considered as a part of the contract, supplementary to the specifications. Plans may also be referred to as 'contract drawings.' |
| 10-43 | Project | The agreed scope of work for accomplishing specific airport development with respect to a particular airport. |
| 10-44 | Proposal | The written offer of the bidder (when submitted on the approved proposal form) to perform the contemplated work and furnish the necessary materials in accordance with the provisions of the plans and specifications. |

| Paragraph Number | Term | Definition |
|---------------------|---|---|
| 10-45 | Proposal guaranty | The security furnished with a proposal to guarantee that the bidder will enter into a contract if their own proposal is accepted by the Owner. |
| 10-46 | Quality Assurance (QA) | Owner's responsibility to assure that construction work completed complies with specifications for payment. |
| 10-47 | Quality Control (QC) | Contractor's responsibility to control material(s) and construction processes to complete construction in accordance with project specifications. |
| 10-48 | Quality Assurance (QA) Inspector | An authorized representative of the Engineer assigned to make all necessary inspections, observations, tests, and/or observation of tests of the work performed or being performed, or of the materials furnished or being furnished by the Contractor. |
| 10-49 | Quality Assurance (QA) Laboratory | The official quality assurance testing laboratories of the Owner or such other laboratories as may be designated by the Engineer. May also be referred to as Engineer's, Owner's, or QA Laboratory. |
| 10-50 | Resident Project Representative (RPR) | The individual, partnership, firm, or corporation duly authorized by the Owner to be responsible for all field observations, and/or observations of tests of the contract work performed or being performed, or of the materials furnished or being furnished by the Contractor, and acting directly or through an authorized representative. |
| 10-51 | Runway | The area on the airport prepared for the landing and takeoff of aircraft. |
| 10-52 | Runway Safety Area (RSA) | A defined surface surrounding the runway prepared or suitable for reducing the risk of damage to aircraft. See the construction safety and phasing plan (CSPP) for limits of the RSA. |
| 10-53 | Safety Plan Compliance Document (SPCD) | Details how the Contractor will comply with the CSPP. |
| 10-54 | Specifications | A part of the contract containing the written directions and requirements for completing the contract work. Standards for specifying materials or testing which are cited in the contract specifications by reference shall have the same force and effect as if included in the contract physically. |
| 10-55 | Sponsor | A Sponsor is defined in 49 USC § 47102(24) as a public agency that submits to the FAA for an AIP grant; or a |

| Paragraph Number | Term | Definition |
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| | | private Owner of a public-use airport that submits to the FAA an application for an AIP grant for the airport. |
| 10-56 | Structures | Airport facilities such as bridges; culverts; catch basins, inlets, retaining walls, cribbing; storm and sanitary sewer lines; water lines; underdrains; electrical ducts, manholes, handholes, lighting fixtures and bases; transformers; navigational aids; buildings; vaults; and, other manmade features of the airport that may be encountered in the work and not otherwise classified herein. |
| 10-57 | Subgrade | The soil that forms the pavement foundation. |
| 10-58 | Superintendent | The Contractor's executive representative who is present on the work during progress, authorized to receive and fulfill instructions from the Engineer, and who shall supervise and direct the construction. |
| 10-59 | Supplemental Agreement | A written agreement between the Contractor and the Owner that establishes the basis of payment and contract time adjustment, if any, for the work affected by the supplemental agreement. A supplemental agreement is required if: (1) in scope work would increase or decrease the total amount of the awarded contract by more than 25%: (2) in scope work would increase or decrease the total of any major contract item by more than 25%; (3) work that is not within the scope of the originally awarded contract; or (4) adding or deleting of a major contract item. |
| 10-60 | Surety | The corporation, partnership, or individual, other than the Contractor, executing payment or performance bonds that are furnished to the Owner by the Contractor. |
| 10-61 | Taxilane | A taxiway designed for low speed movement of aircraft between aircraft parking areas and terminal areas. |
| 10-62 | Taxiway | The portion of the air operations area of an airport that has been designated by competent airport authority for movement of aircraft to and from the airport's runways, aircraft parking areas, and terminal areas. |
| 10-63 | Taxiway/Taxilane Safety Area (TSA) | A defined surface alongside the taxiway prepared or suitable for reducing the risk of damage to an aircraft. See the construction safety and phasing plan (CSPP) for limits of the TSA. |
| 10-64 | Work | The furnishing of all labor, materials, tools, equipment, and incidentals necessary or convenient to the Contractor's |

| Paragraph Number | Term | Definition |
|---------------------|---------------------|---|
| | | performance of all duties and obligations imposed by the contract, plans, and specifications. |
| 10-65 | Working day | A working day shall be any day other than a legal holiday, Saturday, or Sunday on which the normal working forces of the Contractor may proceed with regular work for at least six (6) hours toward completion of the contract. When work is suspended for causes beyond the Contractor's control, it will not be counted as a working day. Saturdays, Sundays and holidays on which the Contractor's forces engage in regular work will be considered as working days. |
| 10-66 | Owner Defined terms | None. |

END OF SECTION 10

PROPOSAL REQUIREMENTS AND CONDITIONS

20-01 Advertisement (Notice to Bidders). A copy of the advertisement is included elsewhere in the Bid package.

20-02 Qualification of bidders. Each bidder shall submit evidence of competency and evidence of financial responsibility to perform the work to the Owner at the time of bid opening.

Evidence of competency, unless otherwise specified, shall consist of statements covering the bidder's past experience on similar work, and a list of equipment and a list of key personnel that would be available for the work.

Each bidder shall furnish the Owner satisfactory evidence of their financial responsibility. Evidence of financial responsibility, unless otherwise specified, shall consist of a confidential statement or report of the bidder's financial resources and liabilities as of the last calendar year or the bidder's last fiscal year. Such statements or reports shall be certified by a public accountant. At the time of submitting such financial statements or reports, the bidder shall further certify whether their financial responsibility is approximately the same as stated or reported by the public accountant. If the bidder's financial responsibility has changed, the bidder shall qualify the public accountant's statement or report to reflect the bidder's true financial condition at the time such qualified statement or report is submitted to the Owner.

A bidder may also submit evidence that they are prequalified with the State Highway Department and are on the current "bidder's list" of the state in which the proposed work is located. Evidence of State Highway Department prequalification may be submitted as evidence of financial responsibility in lieu of the certified statements or reports specified above.

20-03 Contents of proposal forms. The Owner's proposal forms state the location and description of the proposed construction; the place, date, and time of opening of the proposals; and the estimated quantities of the various items of work to be performed and materials to be furnished for which unit bid prices are asked. The proposal form states the time in which the work must be completed, and the amount of the proposal guaranty that must accompany the proposal. The Owner will accept only those Proposals properly executed on physical forms or electronic forms provided by the Owner. Bidder actions that may cause the Owner to deem a proposal irregular are given in paragraph 20-09 *Irregular proposals*.

A prebid conference will be conducted to discuss as a minimum, the following items: material requirements; submittals; the construction safety and phasing plan including airport access and staging areas; and unique construction requirements. The prebid conference will be held at the date, time, and location indicated in the Notice to Bidders.

20-04 Issuance of proposal forms. The Owner reserves the right to refuse to issue a proposal form to a prospective bidder if the bidder is in default for any of the following reasons:

- **a.** Failure to comply with any prequalification regulations of the Owner, if such regulations are cited, or otherwise included, in the proposal as a requirement for bidding.
- **b.** Failure to pay, or satisfactorily settle, all bills due for labor and materials on former contracts in force with the Owner at the time the Owner issues the proposal to a prospective bidder.
 - c. Documented record of Contractor default under previous contracts with the Owner.
 - **d.** Documented record of unsatisfactory work on previous contracts with the Owner.

20-05 Interpretation of estimated proposal quantities. An estimate of quantities of work to be done and materials to be furnished under these specifications is given in the proposal. It is the result of careful

calculations and is believed to be correct. It is given only as a basis for comparison of proposals and the award of the contract. The Owner does not expressly, or by implication, agree that the actual quantities involved will correspond exactly therewith; nor shall the bidder plead misunderstanding or deception because of such estimates of quantities, or of the character, location, or other conditions pertaining to the work. Payment to the Contractor will be made only for the actual quantities of work performed or materials furnished in accordance with the plans and specifications. It is understood that the quantities may be increased or decreased as provided in Section 40, paragraph 40-02, Alteration of Work and Quantities, without in any way invalidating the unit bid prices.

20-06 Examination of plans, specifications, and site. The bidder is expected to carefully examine the site of the proposed work, the proposal, plans, specifications, and contract forms. Bidders shall satisfy themselves to the character, quality, and quantities of work to be performed, materials to be furnished, and to the requirements of the proposed contract. The submission of a proposal shall be prima facie evidence that the bidder has made such examination and is satisfied to the conditions to be encountered in performing the work and the requirements of the proposed contract, plans, and specifications.

Boring logs and other records of subsurface investigations and tests are available for inspection of bidders. It is understood and agreed that such subsurface information, whether included in the plans, specifications, or otherwise made available to the bidder, was obtained and is intended for the Owner's design and estimating purposes only. Such information has been made available for the convenience of all bidders. It is further understood and agreed that each bidder is solely responsible for all assumptions, deductions, or conclusions which the bidder may make or obtain from their own examination of the boring logs and other records of subsurface investigations and tests that are furnished by the Owner.

20-07 Preparation of proposal. The bidder shall submit their proposal on the forms furnished by the Owner. All blank spaces in the proposal forms, unless explicitly stated otherwise, must be correctly filled in where indicated for each and every item for which a quantity is given. The bidder shall state the price (written in ink or typed) both in words and numerals which they propose for each pay item furnished in the proposal. In case of conflict between words and numerals, the words, unless obviously incorrect, shall govern.

The bidder shall correctly sign the proposal in ink. If the proposal is made by an individual, their name and post office address must be shown. If made by a partnership, the name and post office address of each member of the partnership must be shown. If made by a corporation, the person signing the proposal shall give the name of the state where the corporation was chartered and the name, titles, and business address of the president, secretary, and the treasurer. Anyone signing a proposal as an agent shall file evidence of their authority to do so and that the signature is binding upon the firm or corporation.

20-08 Responsive and responsible bidder. A responsive bid conforms to all significant terms and conditions contained in the Owner's invitation for bid. It is the Owner's responsibility to decide if the exceptions taken by a bidder to the solicitation are material or not and the extent of deviation it is willing to accept.

A responsible bidder has the ability to perform successfully under the terms and conditions of a proposed procurement, as defined in 2 CFR § 200.318(h). This includes such matters as Contractor integrity, compliance with public policy, record of past performance, and financial and technical resources.

20-09 Irregular proposals. Proposals shall be considered irregular for the following reasons:

- **a.** If the proposal is on a form other than that furnished by the Owner, or if the Owner's form is altered, or if any part of the proposal form is detached.
- **b.** If there are unauthorized additions, conditional or alternate pay items, or irregularities of any kind that make the proposal incomplete, indefinite, or otherwise ambiguous.

- **c.** If the proposal does not contain a unit price for each pay item listed in the proposal, except in the case of authorized alternate pay items, for which the bidder is not required to furnish a unit price.
 - **d.** If the proposal contains unit prices that are obviously unbalanced.
 - e. If the proposal is not accompanied by the proposal guaranty specified by the Owner.
 - **f.** If the applicable Disadvantaged Business Enterprise information is incomplete.

The Owner reserves the right to reject any irregular proposal and the right to waive technicalities if such waiver is in the best interest of the Owner and conforms to local laws and ordinances pertaining to the letting of construction contracts.

- **20-10 Bid guaranty**. Each separate proposal shall be accompanied by a bid bond, certified check, or other specified acceptable collateral, in the amount specified in the proposal form. Such bond, check, or collateral, shall be made payable to the Owner.
- **20-11 Delivery of proposal.** Each proposal submitted shall be placed in a sealed envelope plainly marked with the project number, location of airport, and name, business address and state contractor's license of the bidder on the outside. When sent by mail, preferably registered, the sealed proposal, marked as indicated above, should be enclosed in an additional envelope. No proposal will be considered unless received at the place specified in the advertisement or as modified by Addendum before the time specified for opening all bids. Proposals received after the bid opening time shall be returned to the bidder unopened.
- **20-12** Withdrawal or revision of proposals. A bidder may withdraw or revise (by withdrawal of one proposal and submission of another) a proposal provided that the bidder's request for withdrawal is received by the Owner in writing before the time specified for opening bids. Revised proposals must be received at the place specified in the advertisement before the time specified for opening all bids.
- **20-13 Public opening of proposals**. Proposals shall be opened, and read, publicly at the time and place specified in the advertisement. Bidders, their authorized agents, and other interested persons are invited to attend. Proposals that have been withdrawn (by written or telegraphic request) or received after the time specified for opening bids shall be returned to the bidder unopened.
- **20-14 Disqualification of bidders**. A bidder shall be considered disqualified for any of the following reasons:
- **a.** Submitting more than one proposal from the same partnership, firm, or corporation under the same or different name.
- **b.** Evidence of collusion among bidders. Bidders participating in such collusion shall be disqualified as bidders for any future work of the Owner until any such participating bidder has been reinstated by the Owner as a qualified bidder.
- **c.** If the bidder is considered to be in default for any reason specified in paragraph 20-04, *Issuance of Proposal Forms*, of this section.
- **20-15 Discrepancies and Omissions.** A Bidder who discovers discrepancies or omissions with the project bid documents shall immediately notify the Owner's Engineer of the matter. A bidder that has doubt as to the true meaning of a project requirement may submit to the Owner's Engineer a written request for interpretation no later than 7 days prior to bid opening.

Any interpretation of the project bid documents by the Owner's Engineer will be by written addendum issued by the Owner. The Owner will not consider any instructions, clarifications or interpretations of the bidding documents in any manner other than written addendum.

END OF SECTION 20

AWARD AND EXECUTION OF CONTRACT

30-01 Consideration of proposals. After the proposals are publicly opened and read, they will be compared on the basis of the summation of the products obtained by multiplying the estimated quantities shown in the proposal by the unit bid prices. If a bidder's proposal contains a discrepancy between unit bid prices written in words and unit bid prices written in numbers, the unit bid price written in words shall govern.

Until the award of a contract is made, the Owner reserves the right to reject a bidder's proposal for any of the following reasons:

- **a.** If the proposal is irregular as specified in Section 20, paragraph 20-09, *Irregular Proposals*.
- **b.** If the bidder is disqualified for any of the reasons specified Section 20, paragraph 20-14, *Disqualification of Bidders*.

In addition, until the award of a contract is made, the Owner reserves the right to reject any or all proposals, waive technicalities, if such waiver is in the best interest of the Owner and is in conformance with applicable state and local laws or regulations pertaining to the letting of construction contracts; advertise for new proposals; or proceed with the work otherwise. All such actions shall promote the Owner's best interests.

30-02 Award of contract. The award of a contract, if it is to be awarded, shall be made within 90 calendar days of the date specified for publicly opening proposals, unless otherwise specified herein.

If the Owner elects to proceed with an award of contract, the Owner will make award to the lowest responsible bidder whose bid, conforming with all the material terms and conditions of the bid documents, is the lowest in price. The award will be based on the Phase 2 Bid Schedule (Base Bid).

- **30-03** Cancellation of award. The Owner reserves the right to cancel the award without liability to the bidder, except return of proposal guaranty, at any time before a contract has been fully executed by all parties and is approved by the Owner in accordance with paragraph 30-07 *Approval of Contract*.
- **30-04 Return of proposal guaranty**. All proposal guaranties, except those of the two lowest bidders, will be returned immediately after the Owner has made a comparison of bids as specified in the paragraph 30-01, *Consideration of Proposals*. Proposal guaranties of the two lowest bidders will be retained by the Owner until such time as an award is made, at which time, the unsuccessful bidder's proposal guaranty will be returned. The successful bidder's proposal guaranty will be returned as soon as the Owner receives the contract bonds as specified in paragraph 30-05, *Requirements of Contract Bonds*.
- **30-05 Requirements of contract bonds**. At the time of the execution of the contract, the successful bidder shall furnish the Owner a surety bond or bonds that have been fully executed by the bidder and the surety guaranteeing the performance of the work and the payment of all legal debts that may be incurred by reason of the Contractor's performance of the work. The surety and the form of the bond or bonds shall be acceptable to the Owner. Unless otherwise specified in this subsection, the surety bond or bonds shall be in a sum equal to the full amount of the contract.
- **30-06 Execution of contract**. The successful bidder shall sign (execute) the necessary agreements for entering into the contract and return the signed contract to the Owner, along with the fully executed surety bond or bonds specified in paragraph 30-05, *Requirements of Contract Bonds*, of this section, within 15 calendar days from the date mailed or otherwise delivered to the successful bidder.
- **30-07 Approval of contract.** Upon receipt of the contract and contract bond or bonds that have been executed by the successful bidder, the Owner shall complete the execution of the contract in accordance

with local laws or ordinances, and return the fully executed contract to the Contractor. Delivery of the fully executed contract to the Contractor shall constitute the Owner's approval to be bound by the successful bidder's proposal and the terms of the contract.

30-08 Failure to execute contract. Failure of the successful bidder to execute the contract and furnish an acceptable surety bond or bonds within the period specified in paragraph 30-06, *Execution of Contract*, of this section shall be just cause for cancellation of the award and forfeiture of the proposal guaranty, not as a penalty, but as liquidated damages to the Owner.

END OF SECTION 30

SCOPE OF WORK

40-01 Intent of contract. The intent of the contract is to provide for construction and completion, in every detail, of the work described. It is further intended that the Contractor shall furnish all labor, materials, equipment, tools, transportation, and supplies required to complete the work in accordance with the plans, specifications, and terms of the contract.

40-02 Alteration of work and quantities. The Owner reserves the right to make such changes in quantities and work as may be necessary or desirable to complete, in a satisfactory manner, the original intended work. Unless otherwise specified in the Contract, the Owner's Engineer shall be and is hereby authorized to make, in writing, such in-scope alterations in the work and variation of quantities as may be necessary to complete the work, provided such action does not represent a significant change in the character of the work.

For purpose of this section, a significant change in character of work means: any change that is outside the current contract scope of work; any change (increase or decrease) in the total contract cost by more than 25%; or any change in the total cost of a major contract item by more than 25%.

Work alterations and quantity variances that do not meet the definition of significant change in character of work shall not invalidate the contract nor release the surety. Contractor agrees to accept payment for such work alterations and quantity variances in accordance with Section 90, paragraph 90-03, Compensation for Altered Quantities.

Should the value of altered work or quantity variance meet the criteria for significant change in character of work, such altered work and quantity variance shall be covered by a supplemental agreement. Supplemental agreements shall also require consent of the Contractor's surety and separate performance and payment bonds. If the Owner and the Contractor are unable to agree on a unit adjustment for any contract item that requires a supplemental agreement, the Owner reserves the right to terminate the contract with respect to the item and make other arrangements for its completion.

40-03 Omitted items. The Owner, the Owner's Engineer may provide written notice to the Contractor to omit from the work any contract item that does not meet the definition of major contract item. Major contract items may be omitted by a supplemental agreement. Such omission of contract items shall not invalidate any other contract provision or requirement.

Should a contract item be omitted or otherwise ordered to be non-performed, the Contractor shall be paid for all work performed toward completion of such item prior to the date of the order to omit such item. Payment for work performed shall be in accordance with Section 90, paragraph 90-04, *Payment for Omitted Items*.

40-04 Extra work. Should acceptable completion of the contract require the Contractor to perform an item of work not provided for in the awarded contract as previously modified by change order or supplemental agreement, Owner may issue a Change Order to cover the necessary extra work. Change orders for extra work shall contain agreed unit prices for performing the change order work in accordance with the requirements specified in the order, and shall contain any adjustment to the contract time that, in the Engineer's opinion, is necessary for completion of the extra work.

When determined by the Engineer to be in the Owner's best interest, the Engineer may order the Contractor to proceed with extra work as provided in Section 90, paragraph 90-05, *Payment for Extra Work*. Extra work that is necessary for acceptable completion of the project, but is not within the general scope of the work covered by the original contract shall be covered by a supplemental agreement as defined in Section 10, paragraph 10-59, *Supplemental Agreement*.

If extra work is essential to maintaining the project critical path, Engineer may order the Contractor to commence the extra work under a Time and Material contract method. Once sufficient detail is available to establish the level of effort necessary for the extra work, the Owner shall initiate a change order or supplemental agreement to cover the extra work.

Any claim for payment of extra work that is not covered by written agreement (change order or supplemental agreement) shall be rejected by the Owner.

- **40-05 Maintenance of traffic.** It is the explicit intention of the contract that the safety of aircraft, as well as the Contractor's equipment and personnel, is the most important consideration. The Contractor shall maintain traffic in the manner detailed in the Construction Safety and Phasing Plan (CSPP).
- **a.** It is understood and agreed that the Contractor shall provide for the free and unobstructed movement of aircraft in the air operations areas (AOAs) of the airport with respect to their own operations and the operations of all subcontractors as specified in Section 80, paragraph 80-04, *Limitation of Operations*. It is further understood and agreed that the Contractor shall provide for the uninterrupted operation of visual and electronic signals (including power supplies thereto) used in the guidance of aircraft while operating to, from, and upon the airport as specified in Section 70, paragraph 70-15, *Contractor's Responsibility for Utility Service and Facilities of Others*.
- **b.** With respect to their own operations and the operations of all subcontractors, the Contractor shall provide marking, lighting, and other acceptable means of identifying personnel, equipment, vehicles, storage areas, and any work area or condition that may be hazardous to the operation of aircraft, fire-rescue equipment, or maintenance vehicles at the airport in accordance with the construction safety and phasing plan (CSPP) and the safety plan compliance document (SPCD).
- c. When the contract requires the maintenance of an existing road, street, or highway during the Contractor's performance of work that is otherwise provided for in the contract, plans, and specifications, the Contractor shall keep the road, street, or highway open to all traffic and shall provide maintenance as may be required to accommodate traffic. The Contractor, at their expense, shall be responsible for the repair to equal or better than preconstruction conditions of any damage caused by the Contractor's equipment and personnel. The Contractor shall furnish, erect, and maintain barricades, warning signs, flag person, and other traffic control devices in reasonable conformity with the Manual on Uniform Traffic Control Devices (MUTCD) (http://mutcd.fhwa.dot.gov/), unless otherwise specified. The Contractor shall also construct and maintain in a safe condition any temporary connections necessary for ingress to and egress from abutting property or intersecting roads, streets or highways. Unless otherwise specified herein, the Contractor will not be required to furnish snow removal for such existing road, street, or highway.
- **40-06 Removal of existing structures**. All existing structures encountered within the established lines, grades, or grading sections shall be removed by the Contractor, unless such existing structures are otherwise specified to be relocated, adjusted up or down, salvaged, abandoned in place, reused in the work or to remain in place. The cost of removing such existing structures shall not be measured or paid for directly, but shall be included in the various contract items.

Should the Contractor encounter an existing structure (above or below ground) in the work for which the disposition is not indicated on the plans, the Engineer shall be notified prior to disturbing such structure. The disposition of existing structures so encountered shall be immediately determined by the Engineer in accordance with the provisions of the contract.

Except as provided in Section 40, paragraph 40-07, *Rights in and Use of Materials Found in the Work*, it is intended that all existing materials or structures that may be encountered (within the lines, grades, or grading sections established for completion of the work) shall be used in the work as otherwise provided for in the contract and shall remain the property of the Owner when so used in the work.

40-07 Rights in and use of materials found in the work. Should the Contractor encounter any material such as (but not restricted to) sand, stone, gravel, slag, or concrete slabs within the established lines, grades, or grading sections, the use of which is intended by the terms of the contract to be embankment, the Contractor may at their own option either:

- **a.** Use such material in another contract item, providing such use is approved by the Engineer and is in conformance with the contract specifications applicable to such use; or,
 - **b.** Remove such material from the site, upon written approval of the Engineer; or
 - c. Use such material for the Contractor's own temporary construction on site; or,
 - **d.** Use such material as intended by the terms of the contract.

Should the Contractor wish to exercise option a., b., or c., the Contractor shall request the Engineer's approval in advance of such use.

Should the Engineer approve the Contractor's request to exercise option a., b., or c., the Contractor shall be paid for the excavation or removal of such material at the applicable contract price. The Contractor shall replace, at their expense, such removed or excavated material with an agreed equal volume of material that is acceptable for use in constructing embankment, backfills, or otherwise to the extent that such replacement material is needed to complete the contract work. The Contractor shall not be charged for use of such material used in the work or removed from the site.

Should the Engineer approve the Contractor's exercise of option a., the Contractor shall be paid, at the applicable contract price, for furnishing and installing such material in accordance with requirements of the contract item in which the material is used.

It is understood and agreed that the Contractor shall make no claim for delays by reason of their own exercise of option a., b., or c.

The Contractor shall not excavate, remove, or otherwise disturb any material, structure, or part of a structure which is located outside the lines, grades, or grading sections established for the work, except where such excavation or removal is provided for in the contract, plans, or specifications.

40-08 Final cleanup. Upon completion of the work and before acceptance and final payment will be made, the Contractor shall remove from the site all machinery, equipment, surplus and discarded materials, rubbish, temporary structures, and stumps or portions of trees. The Contractor shall cut all brush and woods within the limits indicated and shall leave the site in a neat and presentable condition. Material cleared from the site and deposited on adjacent property will not be considered as having been disposed of satisfactorily, unless the Contractor has obtained the written permission of the property Owner.

END OF SECTION 40

CONTROL OF WORK

50-01 Authority of the Engineer. The Engineer has final authority regarding the interpretation of project specification requirements. The Engineer shall determine acceptability of the quality of materials furnished, method of performance of work performed, and the manner and rate of performance of the work. The Engineer does not have the authority to accept work that does not conform to specification requirements.

50-02 Conformity with plans and specifications. All work and all materials furnished shall be in reasonably close conformity with the lines, grades, grading sections, cross-sections, dimensions, material requirements, and testing requirements that are specified (including specified tolerances) in the contract, plans, or specifications.

If the Engineer finds the materials furnished, work performed, or the finished product not within reasonably close conformity with the plans and specifications, but that the portion of the work affected will, in their opinion, result in a finished product having a level of safety, economy, durability, and workmanship acceptable to the Owner, the Engineer will advise the Owner of their determination that the affected work be accepted and remain in place. The Engineer will document the determination and recommend to the Owner a basis of acceptance that will provide for an adjustment in the contract price for the affected portion of the work. Changes in the contract price must be covered by contract change order or supplemental agreement as applicable.

If the Engineer finds the materials furnished, work performed, or the finished product are not in reasonably close conformity with the plans and specifications and have resulted in an unacceptable finished product, the affected work or materials shall be removed and replaced or otherwise corrected by and at the expense of the Contractor in accordance with the Engineer's written orders.

The term "reasonably close conformity" shall not be construed as waiving the Contractor's responsibility to complete the work in accordance with the contract, plans, and specifications. The term shall not be construed as waiving the Engineer's responsibility to insist on strict compliance with the requirements of the contract, plans, and specifications during the Contractor's execution of the work, when, in the Engineer's opinion, such compliance is essential to provide an acceptable finished portion of the work.

The term "reasonably close conformity" is also intended to provide the Engineer with the authority, after consultation with the Sponsor and FAA, to use sound engineering judgment in their determinations to accept work that is not in strict conformity, but will provide a finished product equal to or better than that required by the requirements of the contract, plans and specifications.

All change orders, supplemental agreements, and contract modifications must eventually be reviewed by the FAA. Unless specifically requested by the FAA, the Owner does not have to obtain prior FAA approval for contract changes except for the Buy American review, if required. However, if an Owner proceeds with contract changes without FAA approval, it is at the Owner's risk.

The Engineer will not be responsible for the Contractor's means, methods, techniques, sequences, or procedures of construction or the safety precautions incident thereto.

50-03 Coordination of contract, plans, and specifications. The contract, plans, specifications, and all referenced standards cited are essential parts of the contract requirements. If electronic files are provided and used on the project and there is a conflict between the electronic files and hard copy plans, the hard copy plans shall govern. A requirement occurring in one is as binding as though occurring in all. They are intended to be complementary and to describe and provide for a complete work. In case of discrepancy, calculated dimensions will govern over scaled dimensions; contract technical specifications shall govern over contract general provisions, plans, cited standards for materials or testing, and cited advisory circulars

(ACs); contract general provisions shall govern over plans, cited standards for materials or testing, and cited ACs; plans shall govern over cited standards for materials or testing and cited ACs. If any paragraphs contained in the Special Provisions conflict with General Provisions or Technical Specifications, the Special Provisions shall govern.

From time to time, discrepancies within cited testing standards occur due to the timing of the change, edits, and/or replacement of the standards. If the Contractor discovers any apparent discrepancy within standard test methods, the Contractor shall immediately ask the Engineer for an interpretation and decision, and such decision shall be final.

The Contractor shall not take advantage of any apparent error or omission on the plans or specifications. In the event the Contractor discovers any apparent error or discrepancy, Contractor shall immediately notify the Owner or the designated representative in writing requesting their written interpretation and decision.

50-05 Cooperation of Contractor. The Contractor shall be supplied with an electronic PDF of the plans and specifications. The Contractor shall have available on the construction site at all times one hardcopy each of the plans and specifications. Additional hard copies of plans and specifications may be obtained by the Contractor for the cost of reproduction.

The Contractor shall give constant attention to the work to facilitate the progress thereof, and shall cooperate with the Engineer and their inspectors and with other Contractors in every way possible. The Contractor shall have a competent superintendent on the work at all times who is fully authorized as their agent on the work. The superintendent shall be capable of reading and thoroughly understanding the plans and specifications and shall receive and fulfill instructions from the Engineer or their authorized representative.

50-06 Cooperation between Contractors. The Owner reserves the right to contract for and perform other or additional work on or near the work covered by this contract.

When separate contracts are let within the limits of any one project, each Contractor shall conduct the work not to interfere with or hinder the progress of completion of the work being performed by other Contractors. Contractors working on the same project shall cooperate with each other as directed.

Each Contractor involved shall assume all liability, financial or otherwise, in connection with their own contract and shall protect and hold harmless the Owner from any and all damages or claims that may arise because of inconvenience, delays, or loss experienced because of the presence and operations of other Contractors working within the limits of the same project.

The Contractor shall arrange their work and shall place and dispose of the materials being used to not interfere with the operations of the other Contractors within the limits of the same project. The Contractor shall join their work with that of the others in an acceptable manner and shall perform it in proper sequence to that of the others.

50-07 Construction layout and stakes. The Engineer shall establish necessary horizontal and vertical control. The establishment of Survey Control and/or reestablishment of survey control shall be by a State Licensed Land Surveyor. The Contractor is responsible for preserving integrity of horizontal and vertical controls established by Engineer. In case of negligence on the part of the Contractor or their employees, resulting in the destruction of any horizontal and vertical control, the resulting costs will be deducted as a liquidated damage against the Contractor.

Prior to the start of construction, the Contractor will check all control points for horizontal and vertical accuracy and certify in writing to the Engineer that the Contractor concurs with survey control established for the project. All lines, grades and measurements from control points necessary for the proper execution and control of the work on this project will be provided to the Engineer. The Contractor is responsible to establish all layout required for the construction of the project.

Copies of survey notes will be provided to the Engineer for each area of construction and for each placement of material as specified to allow the Engineer to make periodic checks for conformance with plan grades, alignments and grade tolerances required by the applicable material specifications. Surveys will be provided to the Engineer prior to commencing work items that cover or disturb the survey staking. Survey(s) and notes shall be provided in the following format(s): AutoCad Civil 3D File and XML File.

Laser, GPS, String line, or other automatic control shall be checked with temporary control as necessary. In the case of error, on the part of the Contractor, their surveyor, employees or subcontractors, resulting in established grades, alignment or grade tolerances that do not concur with those specified or shown on the plans, the Contractor is solely responsible for correction, removal, replacement and all associated costs at no additional cost to the Owner.

No direct payment will be made, unless otherwise specified in contract documents, for this labor, materials, or other expenses. The cost shall be included in the price of the bid for the various items of the Contract.

50-08 Authority and duties of Quality Assurance (QA) inspectors. QA inspectors shall be authorized to inspect all work done and all material furnished. Such QA inspection may extend to all or any part of the work and to the preparation, fabrication, or manufacture of the materials to be used. QA inspectors are not authorized to revoke, alter, or waive any provision of the contract. QA inspectors are not authorized to issue instructions contrary to the plans and specifications or to act as foreman for the Contractor.

QA Inspectors are authorized to notify the Contractor or their representatives of any failure of the work or materials to conform to the requirements of the contract, plans, or specifications and to reject such nonconforming materials in question until such issues can be referred to the Engineer for a decision.

50-09 Inspection of the work. All materials and each part or detail of the work shall be subject to inspection. The Engineer shall be allowed access to all parts of the work and shall be furnished with such information and assistance by the Contractor as is required to make a complete and detailed inspection.

If the Engineer requests it, the Contractor, at any time before acceptance of the work, shall remove or uncover such portions of the finished work as may be directed. After examination, the Contractor shall restore said portions of the work to the standard required by the specifications. Should the work thus exposed or examined prove acceptable, the uncovering, or removing, and the replacing of the covering or making good of the parts removed will be paid for as extra work; but should the work so exposed or examined prove unacceptable, the uncovering, or removing, and the replacing of the covering or making good of the parts removed will be at the Contractor's expense.

Provide advance written notice to the Engineer of work the Contractor plans to perform each week and each day. Any work done or materials used without written notice and allowing opportunity for inspection by the Engineer may be ordered removed and replaced at the Contractor's expense.

Should the contract work include relocation, adjustment, or any other modification to existing facilities, not the property of the (contract) Owner, authorized representatives of the Owners of such facilities shall have the right to inspect such work. Such inspection shall in no sense make any facility owner a party to the contract, and shall in no way interfere with the rights of the parties to this contract.

50-10 Removal of unacceptable and unauthorized work. All work that does not conform to the requirements of the contract, plans, and specifications will be considered unacceptable, unless otherwise determined acceptable by the Engineer as provided in paragraph 50-02, *Conformity with Plans and Specifications*.

Unacceptable work, whether the result of poor workmanship, use of defective materials, damage through carelessness, or any other cause found to exist prior to the final acceptance of the work, shall be removed immediately and replaced in an acceptable manner in accordance with the provisions of Section 70, paragraph 70-14, *Contractor's Responsibility for Work*.

No removal work made under provision of this paragraph shall be done without lines and grades having been established by the Engineer. Work done contrary to the instructions of the Engineer, work done beyond the lines shown on the plans or as established by the Engineer, except as herein specified, or any extra work done without authority, will be considered as unauthorized and will not be paid for under the provisions of the contract. Work so done may be ordered removed or replaced at the Contractor's expense.

Upon failure on the part of the Contractor to comply with any order of the Engineer made under the provisions of this subsection, the Engineer will have authority to cause unacceptable work to be remedied or removed and replaced; and unauthorized work to be removed and recover the resulting costs as a liquidated damage against the Contractor.

50-11 Load restrictions. The Contractor shall comply with all legal load restrictions in the hauling of materials on public roads beyond the limits of the work. A special permit will not relieve the Contractor of liability for damage that may result from the moving of material or equipment.

The operation of equipment of such weight or so loaded as to cause damage to structures or to any other type of construction will not be permitted. Hauling of materials over the base course or surface course under construction shall be limited as directed. No loads will be permitted on a concrete pavement, base, or structure before the expiration of the curing period. The Contractor, at their own expense, shall be responsible for the repair to equal or better than preconstruction conditions of any damage caused by the Contractor's equipment and personnel.

50-12 Maintenance during construction. The Contractor shall maintain the work during construction and until the work is accepted. Maintenance shall constitute continuous and effective work prosecuted day by day, with adequate equipment and forces so that the work is maintained in satisfactory condition at all times.

In the case of a contract for the placing of a course upon a course or subgrade previously constructed, the Contractor shall maintain the previous course or subgrade during all construction operations.

All costs of maintenance work during construction and before the project is accepted shall be included in the unit prices bid on the various contract items, and the Contractor will not be paid an additional amount for such work.

50-13 Failure to maintain the work. Should the Contractor at any time fail to maintain the work as provided in paragraph 50-12, *Maintenance during Construction*, the Engineer shall immediately notify the Contractor of such noncompliance. Such notification shall specify a reasonable time within which the Contractor shall be required to remedy such unsatisfactory maintenance condition. The time specified will give due consideration to the exigency that exists.

Should the Contractor fail to respond to the Engineer's notification, the Owner may suspend any work necessary for the Owner to correct such unsatisfactory maintenance condition, depending on the exigency that exists. Any maintenance cost incurred by the Owner, shall be recovered as a liquidated damage against the Contractor.

50-14 Partial acceptance. If at any time during the execution of the project the Contractor substantially completes a usable unit or portion of the work, the occupancy of which will benefit the Owner, the Contractor may request the Engineer to make final inspection of that unit. If the Engineer finds upon inspection that the unit has been satisfactorily completed in compliance with the contract, the Engineer may accept it as being complete, and the Contractor may be relieved of further responsibility for that unit. Such partial acceptance and beneficial occupancy by the Owner shall not void or alter any provision of the contract.

50-15 Final acceptance. Upon due notice from the Contractor of presumptive completion of the entire project, the Engineer and Owner will make an inspection. If all construction provided for and contemplated by the contract is found to be complete in accordance with the contract, plans, and specifications, such

inspection shall constitute the final inspection. The Engineer shall notify the Contractor in writing of final acceptance as of the date of the final inspection.

If, however, the inspection discloses any work, in whole or in part, as being unsatisfactory, the Engineer will notify the Contractor and the Contractor shall correct the unsatisfactory work. Upon correction of the work, another inspection will be made which shall constitute the final inspection, provided the work has been satisfactorily completed. In such event, the Engineer will make the final acceptance and notify the Contractor in writing of this acceptance as of the date of final inspection.

50-16 Claims for adjustment and disputes. If for any reason the Contractor deems that additional compensation is due for work or materials not clearly provided for in the contract, plans, or specifications or previously authorized as extra work, the Contractor shall notify the Engineer in writing of their intention to claim such additional compensation before the Contractor begins the work on which the Contractor bases the claim. If such notification is not given or the Engineer is not afforded proper opportunity by the Contractor for keeping strict account of actual cost as required, then the Contractor hereby agrees to waive any claim for such additional compensation. Such notice by the Contractor and the fact that the Engineer has kept account of the cost of the work shall not in any way be construed as proving or substantiating the validity of the claim. When the work on which the claim for additional compensation is based has been completed, the Contractor shall, within 10 calendar days, submit a written claim to the Engineer who will present it to the Owner for consideration in accordance with local laws or ordinances.

Nothing in this subsection shall be construed as a waiver of the Contractor's right to dispute final payment based on differences in measurements or computations.

END OF SECTION 50

CONTROL OF MATERIALS

60-01 Source of supply and quality requirements. The materials used in the work shall conform to the requirements of the contract, plans, and specifications. Unless otherwise specified, such materials that are manufactured or processed shall be new (as compared to used or reprocessed).

In order to expedite the inspection and testing of materials, the Contractor shall furnish documentation to the Engineer as to the origin, composition, and manufacture of all materials to be used in the work. Documentation shall be furnished promptly after execution of the contract but, in all cases, prior to delivery of such materials.

At the Engineer's option, materials may be approved at the source of supply before delivery. If it is found after trial that sources of supply for previously approved materials do not produce specified products, the Contractor shall furnish materials from other sources.

The Contractor shall furnish airport lighting equipment that meets the requirements of the specifications; and is listed in AC 150/5345-53, *Airport Lighting Equipment Certification Program* and *Addendum*, that is in effect on the date of advertisement.

60-02 Samples, tests, and cited specifications. All materials used in the work shall be inspected, tested, and approved by the Engineer before incorporation in the work unless otherwise designated. Any work in which untested materials are used without approval or written permission of the Engineer shall be performed at the Contractor's risk. Materials found to be unacceptable and unauthorized will not be paid for and, if directed by the Engineer, shall be removed at the Contractor's expense.

Unless otherwise designated, quality assurance tests will be made by and at the expense of the Owner in accordance with the cited standard methods of ASTM, American Association of State Highway and Transportation Officials (AASHTO), federal specifications, Commercial Item Descriptions, and all other cited methods, which are current on the date of advertisement for bids.

The testing organizations performing on-site quality assurance field tests shall have copies of all referenced standards on the construction site for use by all technicians and other personnel. Unless otherwise designated, samples for quality assurance will be taken by a qualified representative of the Engineer. All materials being used are subject to inspection, test, or rejection at any time prior to or during incorporation into the work. Copies of all tests will be furnished to the Contractor's representative at their request after review and approval of the Engineer.

A copy of all Contractor QC test data shall be provided to the Engineer daily, along with printed reports, in an approved format, on a weekly basis. After completion of the project, and prior to final payment, the Contractor shall submit a final report to the Engineer showing all test data reports, plus an analysis of all results showing ranges, averages, and corrective action taken on all failing tests.

60-03 Certification of compliance/analysis (COC/COA). The Engineer may permit the use, prior to sampling and testing, of certain materials or assemblies when accompanied by manufacturer's COC stating that such materials or assemblies fully comply with the requirements of the contract. The certificate shall be signed by the manufacturer. Each lot of such materials or assemblies delivered to the work must be accompanied by a certificate of compliance in which the lot is clearly identified. The COA is the manufacturer's COC and includes all applicable test results.

Materials or assemblies used on the basis of certificates of compliance may be sampled and tested at any time and if found not to be in conformity with contract requirements will be subject to rejection whether in place or not.

The form and distribution of certificates of compliance shall be as approved by the Engineer.

When a material or assembly is specified by "brand name or equal" and the Contractor elects to furnish the specified "or equal," the Contractor shall be required to furnish the manufacturer's certificate of compliance for each lot of such material or assembly delivered to the work. Such certificate of compliance shall clearly identify each lot delivered and shall certify as to:

- a. Conformance to the specified performance, testing, quality or dimensional requirements; and,
- **b.** Suitability of the material or assembly for the use intended in the contract work.

The Engineer shall be the sole judge as to whether the proposed "or equal" is suitable for use in the work.

The Engineer reserves the right to refuse permission for use of materials or assemblies on the basis of certificates of compliance.

60-04 Plant inspection. The Engineer or their authorized representative may inspect, at its source, any specified material or assembly to be used in the work. Manufacturing plants may be inspected from time to time for the purpose of determining compliance with specified manufacturing methods or materials to be used in the work and to obtain samples required for acceptance of the material or assembly.

Should the Engineer conduct plant inspections, the following conditions shall exist:

- **a.** The Engineer shall have the cooperation and assistance of the Contractor and the producer with whom the Contractor has contracted for materials.
- **b.** The Engineer shall have full entry at all reasonable times to such parts of the plant that concern the manufacture or production of the materials being furnished.
- **c.** If required by the Engineer, the Contractor shall arrange for adequate office or working space that may be reasonably needed for conducting plant inspections. Place office or working space in a convenient location with respect to the plant.

It is understood and agreed that the Owner shall have the right to retest any material that has been tested and approved at the source of supply after it has been delivered to the site. The Engineer shall have the right to reject only material which, when retested, does not meet the requirements of the contract, plans, or specifications.

60-05 Engineer field office. An Engineer field office is not required.

60-06 Storage of materials. Materials shall be stored to assure the preservation of their quality and fitness for the work. Stored materials, even though approved before storage, may again be inspected prior to their use in the work. Stored materials shall be located to facilitate their prompt inspection. The Contractor shall coordinate the storage of all materials with the Engineer. Materials to be stored on airport property shall not create an obstruction to air navigation nor shall they interfere with the free and unobstructed movement of aircraft. Unless otherwise shown on the plans and/or CSPP, the storage of materials and the location of the Contractor's plant and parked equipment or vehicles shall be as directed by the Engineer. Private property shall not be used for storage purposes without written permission of the Owner or lessee of such property. The Contractor shall make all arrangements and bear all expenses for the storage of materials on private property. Upon request, the Contractor shall furnish the Engineer a copy of the property Owner's permission.

All storage sites on private or airport property shall be restored to their original condition by the Contractor at their expense, except as otherwise agreed to (in writing) by the Owner or lessee of the property.

60-07 Unacceptable materials. Any material or assembly that does not conform to the requirements of the contract, plans, or specifications shall be considered unacceptable and shall be rejected. The Contractor

shall remove any rejected material or assembly from the site of the work, unless otherwise instructed by the Engineer.

Rejected material or assembly, the defects of which have been corrected by the Contractor, shall not be returned to the site of the work until such time as the Engineer has approved its use in the work.

60-08 Owner furnished materials. The Contractor shall furnish all materials required to complete the work, except those specified, if any, to be furnished by the Owner. Owner-furnished materials shall be made available to the Contractor at the location specified.

All costs of handling, transportation from the specified location to the site of work, storage, and installing Owner-furnished materials shall be included in the unit price bid for the contract item in which such Owner-furnished material is used.

After any Owner-furnished material has been delivered to the location specified, the Contractor shall be responsible for any demurrage, damage, loss, or other deficiencies that may occur during the Contractor's handling, storage, or use of such Owner-furnished material. The Owner will deduct from any monies due or to become due the Contractor any cost incurred by the Owner in making good such loss due to the Contractor's handling, storage, or use of Owner-furnished materials.

END OF SECTION 60

SECTION 70

LEGAL REGULATIONS AND RESPONSIBILITY TO PUBLIC

70-01 Laws to be observed. The Contractor shall keep fully informed of all federal and state laws, all local laws, ordinances, and regulations and all orders and decrees of bodies or tribunals having any jurisdiction or authority, which in any manner affect those engaged or employed on the work, or which in any way affect the conduct of the work. The Contractor shall at all times observe and comply with all such laws, ordinances, regulations, orders, and decrees; and shall protect and indemnify the Owner and all their officers, agents, or servants against any claim or liability arising from or based on the violation of any such law, ordinance, regulation, order, or decree, whether by the Contractor or the Contractor's employees.

70-02 Permits, licenses, and taxes. The Contractor shall procure all permits and licenses, pay all charges, fees, and taxes, and give all notices necessary and incidental to the due and lawful execution of the work.

70-03 Patented devices, materials, and processes. If the Contractor is required or desires to use any design, device, material, or process covered by letters of patent or copyright, the Contractor shall provide for such use by suitable legal agreement with the Patentee or Owner. The Contractor and the surety shall indemnify and hold harmless the Owner, any third party, or political subdivision from any and all claims for infringement by reason of the use of any such patented design, device, material or process, or any trademark or copyright, and shall indemnify the Owner for any costs, expenses, and damages which it may be obliged to pay by reason of an infringement, at any time during the execution or after the completion of the work.

70-04 Restoration of surfaces disturbed by others. The Owner reserves the right to authorize the construction, reconstruction, or maintenance of any public or private utility service, FAA or National Oceanic and Atmospheric Administration (NOAA) facility, or a utility service of another government agency at any time during the progress of the work. To the extent that such construction, reconstruction, or maintenance has been coordinated with the Owner, such authorized work (by others) must be shown on the plans and is indicated on the plans.

Except as listed above, the Contractor shall not permit any individual, firm, or corporation to excavate or otherwise disturb such utility services or facilities located within the limits of the work without the written permission of the Engineer.

Should the Owner of public or private utility service, FAA, or NOAA facility, or a utility service of another government agency be authorized to construct, reconstruct, or maintain such utility service or facility during the progress of the work, the Contractor shall cooperate with such Owners by arranging and performing the work in this contract to facilitate such construction, reconstruction or maintenance by others whether or not such work by others is listed above. When ordered as extra work by the Engineer, the Contractor shall make all necessary repairs to the work which are due to such authorized work by others, unless otherwise provided for in the contract, plans, or specifications. It is understood and agreed that the Contractor shall not be entitled to make any claim for damages due to such authorized work by others or for any delay to the work resulting from such authorized work.

70-05 Federal Participation. The United States Government has agreed to reimburse the Owner for some portion of the contract costs. The contract work is subject to the inspection and approval of duly authorized representatives of the FAA Administrator. No requirement of this contract shall be construed as making the United States a party to the contract nor will any such requirement interfere, in any way, with the rights of either party to the contract.

70-06 Sanitary, health, and safety provisions. The Contractor's worksite and facilities shall comply with applicable federal, state, and local requirements for health, safety and sanitary provisions.

70-07 Public convenience and safety. The Contractor shall control their operations and those of their subcontractors and all suppliers, to assure the least inconvenience to the traveling public. Under all circumstances, safety shall be the most important consideration.

The Contractor shall maintain the free and unobstructed movement of aircraft and vehicular traffic with respect to their own operations and those of their own subcontractors and all suppliers in accordance with Section 40, paragraph 40-05, *Maintenance of Traffic*, and shall limit such operations for the convenience and safety of the traveling public as specified in Section 80, paragraph 80-04, *Limitation of Operations*.

The Contractor shall remove or control debris and rubbish resulting from its work operations at frequent intervals, and upon the order of the Engineer. If the Engineer determines the existence of Contractor debris in the work site represents a hazard to airport operations and the Contractor is unable to respond in a prompt and reasonable manner, the Engineer reserves the right to assign the task of debris removal to a third party and recover the resulting costs as a liquidated damage against the Contractor.

70-08 Construction Safety and Phasing Plan (CSPP). The Contractor shall complete the work in accordance with the approved Construction Safety and Phasing Plan (CSPP) developed in accordance with AC 150/5370-2, Operational Safety on Airports During Construction. The CSPP is provided in the Project Manual Appendix.

70-09 Use of explosives. The use of explosives is not permitted on this project.

70-10 Protection and restoration of property and landscape. The Contractor shall be responsible for the preservation of all public and private property, and shall protect carefully from disturbance or damage all land monuments and property markers until the Engineer has witnessed or otherwise referenced their location and shall not move them until directed.

The Contractor shall be responsible for all damage or injury to property of any character, during the execution of the work, resulting from any act, omission, neglect, or misconduct in manner or method of executing the work, or at any time due to defective work or materials, and said responsibility shall not be released until the project has been completed and accepted.

When or where any direct or indirect damage or injury is done to public or private property by or on account of any act, omission, neglect, or misconduct in the execution of the work, or in consequence of the non-execution thereof by the Contractor, the Contractor shall restore, at their expense, such property to a condition similar or equal to that existing before such damage or injury was done, by repairing, or otherwise restoring as may be directed, or the Contractor shall make good such damage or injury in an acceptable manner.

70-11 Responsibility for damage claims. The Contractor shall indemnify and hold harmless the Engineer/RPR and the Owner and their officers, agents, and employees from all suits, actions, or claims, of any character, brought because of any injuries or damage received or sustained by any person, persons, or property on account of the operations of the Contractor; or on account of or in consequence of any neglect in safeguarding the work; or through use of unacceptable materials in constructing the work; or because of any act or omission, neglect, or misconduct of said Contractor; or because of any claims or amounts recovered from any infringements of patent, trademark, or copyright; or from any claims or amounts arising or recovered under the "Workmen's Compensation Act," or any other law, ordinance, order, or decree. Money due the Contractor under and by virtue of their own contract considered necessary by the Owner for such purpose may be retained for the use of the Owner or, in case no money is due, their own surety may be held until such suits, actions, or claims for injuries or damages shall have been settled and suitable evidence to that effect furnished to the Owner, except that money due the Contractor will not be withheld when the Contractor produces satisfactory evidence that he or she is adequately protected by public liability and property damage insurance.

70-12 Third party beneficiary clause. It is specifically agreed between the parties executing the contract that it is not intended by any of the provisions of any part of the contract to create for the public or any member thereof, a third-party beneficiary or to authorize anyone not a party to the contract to maintain a suit for personal injuries or property damage pursuant to the terms or provisions of the contract.

70-13 Opening sections of the work to traffic. If it is necessary for the Contractor to complete portions of the contract work for the beneficial occupancy of the Owner prior to completion of the entire contract, such "phasing" of the work must be specified below and indicated on the approved Construction Safety and Phasing Plan (CSPP) and the project plans. When so specified, the Contractor shall complete such portions of the work on or before the date specified or as otherwise specified.

Upon completion of any portion of work listed above, such portion shall be accepted by the Owner in accordance with Section 50, paragraph 50-14, *Partial Acceptance*.

No portion of the work may be opened by the Contractor until directed by the Owner in writing. Should it become necessary to open a portion of the work to traffic on a temporary or intermittent basis, such openings shall be made when, in the opinion of the Engineer, such portion of the work is in an acceptable condition to support the intended traffic. Temporary or intermittent openings are considered to be inherent in the work and shall not constitute either acceptance of the portion of the work so opened or a waiver of any provision of the contract. Any damage to the portion of the work so opened that is not attributable to traffic which is permitted by the Owner shall be repaired by the Contractor at their expense.

The Contractor shall make their own estimate of the inherent difficulties involved in completing the work under the conditions herein described and shall not claim any added compensation by reason of delay or increased cost due to opening a portion of the contract work.

The Contractor must conform to safety standards contained AC 150/5370-2G and the approved CSPP.

Contractor shall refer to the plans, specifications, and the approved CSPP to identify barricade requirements, temporary and/or permanent markings, airfield lighting, guidance signs and other safety requirements prior to opening up sections of work to traffic.

70-14 Contractor's responsibility for work. Until the Engineer's final written acceptance of the entire completed work, excepting only those portions of the work accepted in accordance with Section 50, paragraph 50-14, *Partial Acceptance*, the Contractor shall have the charge and care thereof and shall take every precaution against injury or damage to any part due to the action of the elements or from any other cause, whether arising from the execution or from the non-execution of the work. The Contractor shall rebuild, repair, restore, and make good all injuries or damages to any portion of the work occasioned by any of the above causes before final acceptance and shall bear the expense thereof except damage to the work due to unforeseeable causes beyond the control of and without the fault or negligence of the Contractor, including but not restricted to acts of God such as earthquake, tidal wave, tornado, hurricane or other cataclysmic phenomenon of nature, or acts of the public enemy or of government authorities.

If the work is suspended for any cause whatever, the Contractor shall be responsible for the work and shall take such precautions necessary to prevent damage to the work. The Contractor shall provide for normal drainage and shall erect necessary temporary structures, signs, or other facilities at their own expense. During such period of suspension of work, the Contractor shall properly and continuously maintain in an acceptable growing condition all living material in newly established planting, seeding, and sodding furnished under the contract, and shall take adequate precautions to protect new tree growth and other important vegetative growth against injury.

70-15 Contractor's responsibility for utility service and facilities of others. As provided in paragraph 70-04, *Restoration of Surfaces Disturbed by Others*, the Contractor shall cooperate with the owner of any public or private utility service, FAA or NOAA, or a utility service of another government agency that may

be authorized by the Owner to construct, reconstruct or maintain such utility services or facilities during the progress of the work. In addition, the Contractor shall control their operations to prevent the unscheduled interruption of such utility services and facilities.

To the extent that such public or private utility services, FAA, or NOAA facilities, or utility services of another governmental agency are known to exist within the limits of the contract work, the approximate locations have been indicated on the plans and/or in the contract documents.

The plans shall show the approximate location of the utilities or facilities known to exist within the limits of the contract work. The proposed contract plans and specifications shall be coordinated with the various Owners at the earliest possible time to avoid overlooking utility conflicts in the design and to obtain the best possible information needed to protect such utility services or facilities from damage resulting from the Contractor's operations. Where conflicts are indicated during the coordination, they shall be resolved by the airport Owner and the utility owner, in accordance with existing legal agreements, by providing for work in the proposed contract or by the utility owner. In such cases of conflict, regardless of how the conflict is resolved, the airport Owner and utility owner should also be advised of the need to furnish the best information possible as to location of the utility service or facility to ensure protection during the proposed contract work.

It is understood and agreed that the Owner does not guarantee the accuracy or the completeness of the location information relating to existing utility services, facilities, or structures that may be shown on the plans or encountered in the work. Any inaccuracy or omission in such information shall not relieve the Contractor of the responsibility to protect such existing features from damage or unscheduled interruption of service.

It is further understood and agreed that the Contractor shall, upon execution of the contract, notify the Owners of all utility services or other facilities of their plan of operations. Such notification shall be in writing addressed to "The Person to Contact" as provided in this paragraph and paragraph 70-04, Restoration of Surfaces Disturbed By Others. A copy of each notification shall be given to the Engineer.

In addition to the general written notification provided, it shall be the responsibility of the Contractor to keep such individual Owners advised of changes in their plan of operations that would affect such Owners.

Prior to beginning the work in the general vicinity of an existing utility service or facility, the Contractor shall again notify each such Owner of their plan of operation. If, in the Contractor's opinion, the Owner's assistance is needed to locate the utility service or facility or the presence of a representative of the Owner is desirable to observe the work, such advice should be included in the notification. Such notification shall be given by the most expeditious means to reach the utility owner's "Person to Contact" no later than two normal business days prior to the Contractor's commencement of operations in such general vicinity. The Contractor shall furnish a written summary of the notification to the Engineer.

The Contractor's failure to give the two days' notice shall be cause for the Owner to suspend the Contractor's operations in the general vicinity of a utility service or facility.

Where the outside limits of an underground utility service have been located and staked on the ground, the Contractor shall be required to use hand excavation methods within 3 feet (1 m) of such outside limits at such points as may be required to ensure protection from damage due to the Contractor's operations.

Should the Contractor damage or interrupt the operation of a utility service or facility by accident or otherwise, the Contractor shall immediately notify the proper authority and the Engineer and shall take all reasonable measures to prevent further damage or interruption of service. The Contractor, in such events, shall cooperate with the utility service or facility owner and the Engineer continuously until such damage has been repaired and service restored to the satisfaction of the utility or facility owner.

The Contractor shall bear all costs of damage and restoration of service to any utility service or facility due to their operations whether due to negligence or accident. The Owner reserves the right to deduct such costs from any monies due or which may become due the Contractor, or their own surety.

70-16 Furnishing rights-of-way. The Owner will be responsible for furnishing all rights-of-way upon which the work is to be constructed in advance of the Contractor's operations.

70-17 Personal liability of public officials. In carrying out any of the contract provisions or in exercising any power or authority granted by this contract, there shall be no liability upon the Engineer, Engineer, their authorized representatives, or any officials of the Owner either personally or as an official of the Owner. It is understood that in such matters they act solely as agents and representatives of the Owner.

70-18 No waiver of legal rights. Upon completion of the work, the Owner will expeditiously make final inspection and notify the Contractor of final acceptance. Such final acceptance, however, shall not preclude or stop the Owner from correcting any measurement, estimate, or certificate made before or after completion of the work, nor shall the Owner be precluded or stopped from recovering from the Contractor or their surety, or both, such overpayment as may be sustained, or by failure on the part of the Contractor to fulfill their obligations under the contract. A waiver on the part of the Owner of any breach of any part of the contract shall not be held to be a waiver of any other or subsequent breach.

The Contractor, without prejudice to the terms of the contract, shall be liable to the Owner for latent defects, fraud, or such gross mistakes as may amount to fraud, or as regards the Owner's rights under any warranty or guaranty.

70-19 Environmental protection. The Contractor shall comply with all federal, state, and local laws and regulations controlling pollution of the environment. The Contractor shall take necessary precautions to prevent pollution of streams, lakes, ponds, and reservoirs with fuels, oils, asphalts, chemicals, or other harmful materials and to prevent pollution of the atmosphere from particulate and gaseous matter.

70-20 Archaeological and historical findings. Unless otherwise specified in this subsection, the Contractor is advised that the site of the work is not within any property, district, or site, and does not contain any building, structure, or object listed in the current National Register of Historic Places published by the United States Department of Interior.

Should the Contractor encounter, during their operations, any building, part of a building, structure, or object that is incongruous with its surroundings, the Contractor shall immediately cease operations in that location and notify the Engineer. The Engineer will immediately investigate the Contractor's finding and the Owner will direct the Contractor to either resume operations or to suspend operations as directed.

Should the Owner order suspension of the Contractor's operations in order to protect an archaeological or historical finding, or order the Contractor to perform extra work, such shall be covered by an appropriate contract change order or supplemental agreement as provided in Section 40, paragraph 40-04, *Extra Work*, and Section 90, paragraph 90-05, *Payment for Extra Work*. If appropriate, the contract change order or supplemental agreement shall include an extension of contract time in accordance with Section 80, paragraph 80-07, *Determination and Extension of Contract Time*.

70-21 Insurance Requirements. Refer to the Special Provision section included herein which includes information related to insurance requirements.

END OF SECTION 70

SECTION 80

EXECUTION AND PROGRESS

80-01 Subletting of contract. The Owner will not recognize any subcontractor on the work. The Contractor shall at all times when work is in progress be represented either in person, by a qualified superintendent, or by other designated, qualified representative who is duly authorized to receive and execute orders of the Engineer.

The Contractor shall perform, with his organization, an amount of work equal to at least twenty-five percent (25%) of the total contract cost.

Should the Contractor elect to assign their contract, said assignment shall be concurred in by the surety, shall be presented for the consideration and approval of the Owner, and shall be consummated only on the written approval of the Owner.

The Contractor shall provide copies of all subcontracts to the Engineer 14 days prior to being utilized on the project. As a minimum, the information shall include the following:

- Subcontractor's legal company name.
- Subcontractor's legal company address, including County name.
- Principal contact person's name, telephone and fax number.
- Complete narrative description, and dollar value of the work to be performed by the subcontractor.
- Copies of required insurance certificates in accordance with the specifications.
- Minority/ non-minority status.

80-02 Notice to proceed (NTP). The Owners notice to proceed will state the date on which contract time commences. The Contractor is expected to commence project operations within ten (10) days of the NTP date. The Contractor shall notify the Engineer at least 24 hours in advance of the time contract operations begins. The Contractor shall not commence any actual operations prior to the date on which the notice to proceed is issued by the Owner.

80-03 Execution and progress. Unless otherwise specified, the Contractor shall submit their coordinated construction schedule showing all work activities for the Engineer's review and acceptance at least ten (10) days prior to the start of work. The Contractor's progress schedule, once accepted by the Engineer, will represent the Contractor's baseline plan to accomplish the project in accordance with the terms and conditions of the Contract. The Engineer will compare actual Contractor progress against the baseline schedule to determine that status of the Contractor's performance. The Contractor shall provide sufficient materials, equipment, and labor to guarantee the completion of the project in accordance with the plans and specifications within the time set forth in the proposal.

If the Contractor falls significantly behind the submitted schedule, the Contractor shall, upon the Engineer's request, submit a revised schedule for completion of the work within the contract time and modify their operations to provide such additional materials, equipment, and labor necessary to meet the revised schedule. Should the execution of the work be discontinued for any reason, the Contractor shall notify the Engineer at least 24 hours in advance of resuming operations.

The Contractor shall not commence any actual construction prior to the date on which the NTP is issued by the Owner.

The project schedule shall be prepared as a network diagram in Critical Path Method (CPM), Program Evaluation and Review Technique (PERT), or other format, or as otherwise specified. It shall include information on the sequence of work activities, milestone dates, and activity duration. The schedule shall show all work items identified in the project proposal for each work area and shall include the project start date and end date.

The Contractor shall maintain the work schedule and provide an update and analysis of the progress schedule on a monthly basis, or as otherwise specified in the contract. Submission of the work schedule shall not relieve the Contractor of overall responsibility for scheduling, sequencing, and coordinating all work to comply with the requirements of the contract.

80-04 Limitation of operations. The Contractor shall control their operations and the operations of their subcontractors and all suppliers to provide for the free and unobstructed movement of aircraft in the air operations areas (AOA) of the airport.

When the work requires the Contractor to conduct their operations within an AOA of the airport, the work shall be coordinated with airport operations (through the Engineer) at least 48 hours prior to commencement of such work. The Contractor shall not close an AOA until so authorized by the Engineer and until the necessary temporary marking, signage and associated lighting is in place as provided in Section 70, paragraph 70-08, *Construction Safety and Phasing Plan (CSPP)*.

When the contract work requires the Contractor to work within an AOA of the airport on an intermittent basis (intermittent opening and closing of the AOA), the Contractor shall maintain constant communications as specified; immediately obey all instructions to vacate the AOA; and immediately obey all instructions to resume work in such AOA. Failure to maintain the specified communications or to obey instructions shall be cause for suspension of the Contractor's operations in the AOA until satisfactory conditions are provided. The areas of the AOA identified in the Construction Safety Phasing Plan (CSPP) and as listed below, cannot be closed to operating aircraft to permit the Contractor's operations on a continuous basis and will therefore be closed to aircraft operations intermittently as follows:

No work shall be done within an active Runway or Taxiway Safety Area at any time during the project.

The Contractor shall be required to conform to safety standards contained in AC 150/5370-2, Operational Safety on Airports During Construction and the approved CSPP.

80-04.1 Operational safety on airport during construction. All Contractors' operations shall be conducted in accordance with the approved project Construction Safety and Phasing Plan (CSPP) and the Safety Plan Compliance Document (SPCD) and the provisions set forth within the current version of AC 150/5370-2G, Operational Safety on Airports During Construction. The CSPP included within the contract documents conveys minimum requirements for operational safety on the airport during construction activities. The Contractor shall prepare and submit a SPCD that details how it proposes to comply with the requirements presented within the CSPP.

The Contractor shall implement all necessary safety plan measures prior to commencement of any work activity. The Contractor shall conduct routine checks to assure compliance with the safety plan measures.

The Contractor is responsible to the Owner for the conduct of all subcontractors it employs on the project. The Contractor shall assure that all subcontractors are made aware of the requirements of the CSPP and SPCD and that they implement and maintain all necessary measures.

No deviation or modifications may be made to the approved CSPP and SPCD unless approved in writing by the Owner. The necessary coordination actions to review Contractor proposed modifications to an approved CSPP or approved SPCD can require a significant amount of time.

80-05 Character of workers, methods, and equipment. The Contractor shall, at all times, employ sufficient labor and equipment for prosecuting the work to full completion in the manner and time required by the contract, plans, and specifications.

All workers shall have sufficient skill and experience to perform properly the work assigned to them. Workers engaged in special work or skilled work shall have sufficient experience in such work and in the operation of the equipment required to perform the work satisfactorily.

Any person employed by the Contractor or by any subcontractor who violates any operational regulations or operational safety requirements and, in the opinion of the Engineer, does not perform his work in a proper and skillful manner or is intemperate or disorderly shall, at the written request of the Engineer, be removed immediately by the Contractor or subcontractor employing such person, and shall not be employed again in any portion of the work without approval of the Engineer.

Should the Contractor fail to remove such person or persons, or fail to furnish suitable and sufficient personnel for the proper execution of the work, the Engineer may suspend the work by written notice until compliance with such orders.

All equipment that is proposed to be used on the work shall be of sufficient size and in such mechanical condition as to meet requirements of the work and to produce a satisfactory quality of work. Equipment used on any portion of the work shall not cause injury to previously completed work, adjacent property, or existing airport facilities due to its use.

When the methods and equipment to be used by the Contractor in accomplishing the work are not prescribed in the contract, the Contractor is free to use any methods or equipment that will accomplish the work in conformity with the requirements of the contract, plans, and specifications.

When the contract specifies the use of certain methods and equipment, such methods and equipment shall be used unless otherwise authorized by the Engineer. If the Contractor desires to use a method or type of equipment other than specified in the contract, the Contractor may request authority from the Engineer to do so. The request shall be in writing and shall include a full description of the methods and equipment proposed and of the reasons for desiring to make the change. If approval is given, it will be on the condition that the Contractor will be fully responsible for producing work in conformity with contract requirements. If, after trial use of the substituted methods or equipment, the Engineer determines that the work produced does not meet contract requirements, the Contractor shall discontinue the use of the substitute method or equipment and shall complete the remaining work with the specified methods and equipment. The Contractor shall remove any deficient work and replace it with work of specified quality, or take such other corrective action as the Engineer may direct. No change will be made in basis of payment for the contract items involved nor in contract time as a result of authorizing a change in methods or equipment under this paragraph.

80-06 Temporary suspension of the work. The Owner shall have the authority to suspend the work wholly, or in part, for such period or periods the Owner may deem necessary, due to unsuitable weather, or other conditions considered unfavorable for the execution of the work, or for such time necessary due to the failure on the part of the Contractor to carry out orders given or perform any or all provisions of the contract.

In the event that the Contractor is ordered by the Owner, in writing, to suspend work for some unforeseen cause not otherwise provided for in the contract and over which the Contractor has no control, the Contractor may be reimbursed for actual money expended on the work during the period of shutdown. No allowance will be made for anticipated profits. The period of shutdown shall be computed from the effective date of the written order to resume the work. Claims for such compensation shall be filed with the Engineer within the time period stated in the Engineer's order to resume work. The Contractor shall submit with their own claim information

substantiating the amount shown on the claim. The Engineer will forward the Contractor's claim to the Owner for consideration in accordance with local laws or ordinances. No provision of this article shall be construed as entitling the Contractor to compensation for delays due to inclement weather or for any other delay provided for in the contract, plans, or specifications.

If it becomes necessary to suspend work for an indefinite period, the Contractor shall store all materials in such manner that they will not become an obstruction nor become damaged in any way. The Contractor shall take every precaution to prevent damage or deterioration of the work performed and provide for normal drainage of the work. The Contractor shall erect temporary structures where necessary to provide for traffic on, to, or from the airport.

80-07 Determination and extension of contract time. The number of calendar days shall be stated in the proposal and contract and shall be known as the Contract Time.

If the contract time requires extension for reasons beyond the Contractor's control, it shall be adjusted as follows:

80-07.1 Contract time based on calendar days. Contract Time based on calendar days shall consist of the number of calendar days stated in the contract counting from the effective date of the Notice to Proceed and including all Saturdays, Sundays, holidays, and non-work days. All calendar days elapsing between the effective dates of the Owner's orders to suspend and resume all work, due to causes not the fault of the Contractor, shall be excluded.

At the time of final payment, the contract time shall be increased in the same proportion as the cost of the actually completed quantities bears to the cost of the originally estimated quantities in the proposal. Such increase in the contract time shall not consider either cost of work or the extension of contract time that has been covered by a change order or supplemental agreement. Charges against the contract time will cease as of the date of final acceptance.

80-08 Failure to complete on time. For each calendar day or working day, as specified in the contract, that any work remains uncompleted after the contract time (including all extensions and adjustments as provided in paragraph 80-07, *Determination and Extension of Contract Time*) the sum specified in the contract and proposal as liquidated damages (LD) will be deducted from any money due or to become due the Contractor or their own surety. Such deducted sums shall not be deducted as a penalty but shall be considered as liquidation of a reasonable portion of damages including but not limited to additional engineering services that will be incurred by the Owner should the Contractor fail to complete the work in the time provided in their contract.

| Schedule | Liquidated Damages Cost | Allowed Construction Time |
|--------------------------|----------------------------|------------------------------|
| Base Bid (Phase 2) | \$500 / Day | 60 Calendar Days |
| Add. Bid No. 1 (Phase 1) | \$500 / Day | 45 Calendar Days |
| Add. Bid No. 2 (Phase 3) | \$500 / Day | 45 Calendar Days |

The maximum construction time allowed for all three Bid Schedules will be the sum of the time allowed for individual schedules but not more than 150 days. Permitting the Contractor to continue and finish the work or any part of it after the time fixed for its completion, or after the date to which the time for completion may have been extended, will in no way operate as a wavier on the part of the Owner of any of its rights under the contract.

80-09 Default and termination of contract. The Contractor shall be considered in default of their contract and such default will be considered as cause for the Owner to terminate the contract for any of the following reasons, if the Contractor:

- a. Fails to begin the work under the contract within the time specified in the Notice to Proceed, or
- **b.** Fails to perform the work or fails to provide sufficient workers, equipment and/or materials to assure completion of work in accordance with the terms of the contract, or
- **c.** Performs the work unsuitably or neglects or refuses to remove materials or to perform anew such work as may be rejected as unacceptable and unsuitable, or
 - d. Discontinues the execution of the work, or
 - e. Fails to resume work which has been discontinued within a reasonable time after notice to do so, or
 - f. Becomes insolvent or is declared bankrupt, or commits any act of bankruptcy or insolvency, or
 - g. Allows any final judgment to stand against the Contractor unsatisfied for a period of 10 days, or
 - h. Makes an assignment for the benefit of creditors, or
 - i. For any other cause whatsoever, fails to carry on the work in an acceptable manner.

Should the Owner consider the Contractor in default of the contract for any reason above, the Owner shall immediately give written notice to the Contractor and the Contractor's surety as to the reasons for considering the Contractor in default and the Owner's intentions to terminate the contract.

If the Contractor or surety, within a period of 10 days after such notice, does not proceed in accordance therewith, then the Owner will, upon written notification from the Engineer of the facts of such delay, neglect, or default and the Contractor's failure to comply with such notice, have full power and authority without violating the contract, to take the execution of the work out of the hands of the Contractor. The Owner may appropriate or use any or all materials and equipment that have been mobilized for use in the work and are acceptable and may enter into an agreement for the completion of said contract according to the terms and provisions thereof, or use such other methods as in the opinion of the Engineer will be required for the completion of said contract in an acceptable manner.

All costs and charges incurred by the Owner, together with the cost of completing the work under contract, will be deducted from any monies due or which may become due the Contractor. If such expense exceeds the sum which would have been payable under the contract, then the Contractor and the surety shall be liable and shall pay to the Owner the amount of such excess.

80-10 Termination for national emergencies. The Owner shall terminate the contract or portion thereof by written notice when the Contractor is prevented from proceeding with the construction contract as a direct result of an Executive Order of the President with respect to the execution of war or in the interest of national defense.

When the contract, or any portion thereof, is terminated before completion of all items of work in the contract, payment will be made for the actual number of units or items of work completed at the contract price or as mutually agreed for items of work partially completed or not started. No claims or loss of anticipated profits shall be considered.

Reimbursement for organization of the work, and other overhead expenses, (when not otherwise included in the contract) and moving equipment and materials to and from the job will be considered, the intent being that an equitable settlement will be made with the Contractor.

Acceptable materials, obtained or ordered by the Contractor for the work and that are not incorporated in the work shall, at the option of the Contractor, be purchased from the Contractor at actual cost as shown by receipted bills and actual cost records at such points of delivery as may be designated by the Engineer.

Termination of the contract or a portion thereof shall neither relieve the Contractor of their responsibilities for the completed work nor shall it relieve their surety of its obligation for and concerning any just claim arising out of the work performed.

80-11 Work area, storage area and sequence of operations. The Contractor shall obtain approval from the Engineer prior to beginning any work in all areas of the airport. No operating runway, taxiway, or air operations area (AOA) shall be crossed, entered, or obstructed while it is operational. The Contractor shall plan and coordinate work in accordance with the approved CSPP and SPCD.

END OF SECTION 80

SECTION 90

MEASUREMENT AND PAYMENT

90-01 Measurement of quantities. All work completed under the contract will be measured by the Engineer, or their authorized representatives, using United States Customary Units of Measurement.

The method of measurement and computations to be used in determination of quantities of material furnished and of work performed under the contract will be those methods generally recognized as conforming to good engineering practice.

Unless otherwise specified, longitudinal measurements for area computations will be made horizontally, and no deductions will be made for individual fixtures (or leave-outs) having an area of 9 square feet or less. Unless otherwise specified, transverse measurements for area computations will be the neat dimensions shown on the plans or ordered in writing by the Engineer.

Unless otherwise specified, all contract items which are measured by the linear foot such as electrical ducts, conduits, pipe culverts, underdrains, and similar items shall be measured parallel to the base or foundation upon which such items are placed.

The term "lump sum" when used as an item of payment will mean complete payment for the work described in the contract. When a complete structure or structural unit (in effect, "lump sum" work) is specified as the unit of measurement, the unit will be construed to include all necessary fittings and accessories.

When requested by the Contractor and approved by the Engineer in writing, material specified to be measured by the cubic yard may be weighed, and such weights will be converted to cubic yards payment purposes. Factors for conversion from weight measurement to volume measurement will be determined by the Engineer and shall be agreed to by the Contractor before such method of measurement of pay quantities is used.

Measurement and Payment Terms

| Term | Description |
|--|--|
| Excavation and Embankment Volume | In computing volumes of excavation, the average end area method will be used unless otherwise specified. |
| Measurement and Proportion by Weight | The term "ton" will mean the short ton consisting of 2,000 pounds avoirdupois. All materials that are measured or proportioned by weights shall be weighed on accurate, independently certified scales by competent, qualified personnel at locations designated by the Engineer. If material is shipped by rail, the car weight may be accepted provided that only the actual weight of material is paid for. However, car weights will not be acceptable for material to be passed through mixing plants. Trucks used to haul material being paid for by weight shall be weighed empty daily at such times as the Engineer directs, and each truck shall bear a plainly legible identification mark. |
| Measurement by Volume | Materials to be measured by volume in the hauling vehicle shall be hauled in approved vehicles and measured therein at the point of delivery. Vehicles for this purpose may be of any size or type acceptable for the materials hauled, provided that the body is of such shape that the actual contents may be readily and accurately determined. All vehicles shall be loaded to at least their water level |

| Term | Description |
|------------------------|--|
| | capacity, and all loads shall be leveled when the vehicles arrive at the point of delivery. |
| Asphalt Material | Asphalt materials will be measured by the gallon or ton. When measured by volume, such volumes will be measured at 60°F or will be corrected to the volume at 60°F using ASTM D1250 for asphalts. Net certified scale weights or weights based on certified volumes in the case of rail shipments will be used as a basis of measurement, subject to correction when asphalt material has been lost from the car or the distributor, wasted, or otherwise not incorporated in the work. When asphalt materials are shipped by truck or transport, net certified weights by volume, subject to correction for loss or foaming, will be used for computing quantities. |
| Cement | Cement will be measured by the ton or hundredweight |
| Structure | Structures will be measured according to neat lines shown on the plans or as altered to fit field conditions. |
| Timber | Timber will be measured by the thousand feet board measure (MFBM) actually incorporated in the structure. Measurement will be based on nominal widths and thicknesses and the extreme length of each piece. |
| Plates and Sheets | The thickness of plates and galvanized sheet used in the manufacture of corrugated metal pipe, metal plate pipe culverts and arches, and metal cribbing will be specified and measured in decimal fraction of inch. |
| Miscellaneous Items | When standard manufactured items are specified such as fence, wire, plates, rolled shapes, pipe conduit, etc., and these items are identified by gauge, unit weight, section dimensions, etc., such identification will be considered to be nominal weights or dimensions. Unless more stringently controlled by tolerances in cited specifications, manufacturing tolerances established by the industries involved will be accepted. |
| Scales | Scales must be tested for accuracy and serviced before use. Scales for weighing materials which are required to be proportioned or measured and paid for by weight shall be furnished, erected, and maintained by the Contractor, or be certified permanently installed commercial scales. Platform scales shall be installed and maintained with the platform level and rigid bulkheads at each end. |
| | Scales shall be accurate within 0.5% of the correct weight throughout the range of use. The Contractor shall have the scales checked under the observation of the Engineer before beginning work and at such other times as requested. The intervals shall be uniform in spacing throughout the graduated or marked length of the beam or dial and shall not exceed 0.1% of the nominal rated capacity of the scale, but not less than one pound. The use of spring balances will not be permitted. |
| | In the event inspection reveals the scales have been "overweighing" (indicating more than correct weight) they will be immediately adjusted. All materials |

| Term | Description | |
|------------------|--|--|
| | received subsequent to the last previous correct weighting-accuracy test will be reduced by the percentage of error in excess of 0.5%. | |
| | In the event inspection reveals the scales have been under-weighing (indicating less than correct weight), they shall be immediately adjusted. No additional payment to the Contractor will be allowed for materials previously weighed and recorded. | |
| | Beams, dials, platforms, and other scale equipment shall be so arranged that the operator and the Engineer can safely and conveniently view them. | |
| | Scale installations shall have available ten standard 50-pound weights for testing the weighing equipment or suitable weights and devices for other approved equipment. | |
| | All costs in connection with furnishing, installing, certifying, testing, and maintaining scales; for furnishing check weights and scale house; and for all other items specified in this subsection, for the weighing of materials for proportioning or payment, shall be included in the unit contract prices for the various items of the project. | |
| Rental Equipment | Rental of equipment will be measured by time in hours of actual working time and necessary traveling time of the equipment within the limits of the work. Special equipment ordered in connection with extra work will be measured as agreed in the change order or supplemental agreement authorizing such work as provided in paragraph 90-05 <i>Payment for Extra Work</i> . | |
| Pay Quantities | When the estimated quantities for a specific portion of the work are designated as the pay quantities in the contract, they shall be the final quantities for which payment for such specific portion of the work will be made, unless the dimensions of said portions of the work shown on the plans are revised by the Engineer. If revised dimensions result in an increase or decrease in the quantities of such work, the final quantities for payment will be revised in the amount represented by the authorized changes in the dimensions. | |

90-02 Scope of payment. The Contractor shall receive and accept compensation provided for in the contract as full payment for furnishing all materials, for performing all work under the contract in a complete and acceptable manner, and for all risk, loss, damage, or expense of whatever character arising out of the nature of the work or the execution thereof, subject to the provisions of Section 70, paragraph 70-18, *No Waiver of Legal Rights*.

When the "basis of payment" subsection of a technical specification requires that the contract price (price bid) include compensation for certain work or material essential to the item, this same work or material will not also be measured for payment under any other contract item which may appear elsewhere in the contract, plans, or specifications.

90-03 Compensation for altered quantities. When the accepted quantities of work vary from the quantities in the proposal, the Contractor shall accept as payment in full, so far as contract items are concerned, payment at the original contract price for the accepted quantities of work actually completed and accepted. No allowance, except as provided for in Section 40, paragraph 40-02, *Alteration of Work and Quantities*, will be made for any increased expense, loss of expected reimbursement, or loss of anticipated

profits suffered or claimed by the Contractor which results directly from such alterations or indirectly from their own unbalanced allocation of overhead and profit among the contract items, or from any other cause.

90-04 Payment for omitted items. As specified in Section 40, paragraph 40-03, *Omitted Items*, the Engineer shall have the right to omit from the work (order nonperformance) any contract item, except major contract items, in the best interest of the Owner.

Should the Engineer omit or order nonperformance of a contract item or portion of such item from the work, the Contractor shall accept payment in full at the contract prices for any work actually completed and acceptable prior to the Engineer's order to omit or non-perform such contract item.

Acceptable materials ordered by the Contractor or delivered on the work prior to the date of the Engineer's order will be paid for at the actual cost to the Contractor and shall thereupon become the property of the Owner.

In addition to the reimbursement hereinbefore provided, the Contractor shall be reimbursed for all actual costs incurred for the purpose of performing the omitted contract item prior to the date of the Engineer's order. Such additional costs incurred by the Contractor must be directly related to the deleted contract item and shall be supported by certified statements by the Contractor as to the nature the amount of such costs.

90-05 Payment for extra work. Extra work, performed in accordance with Section 40, paragraph 40-04, *Extra Work*, will be paid for at the contract prices or agreed prices specified in the change order or supplemental agreement authorizing the extra work.

90-06 Partial payments. Partial payments will be made to the Contractor at least once each month as the work progresses. Said payments will be based upon estimates, prepared by the Engineer, of the value of the work performed and materials complete and in place, in accordance with the contract, plans, and specifications. Such partial payments may also include the delivered actual cost of those materials stockpiled and stored in accordance with paragraph 90-07, *Payment for Materials on Hand*. No partial payment will be made when the amount due to the Contractor since the last estimate amounts to less than five hundred dollars.

- a. From the total of the amount determined to be payable on a partial payment, five percent (5%) of such total amount will be deducted and retained by the Owner for protection of the Owner's interests. Unless otherwise instructed by the Owner, the amount retained by the Owner will be in effect until the final payment is made except as follows:
 - (1) Contractor may request release of retainage on work that has been partially accepted by the Owner in accordance with Section 50-14. Contractor must provide a certified invoice to the Engineer that supports the value of retainage held by the Owner for partially accepted work.
 - (2) In lieu of retainage, the Contractor may exercise at its option the establishment of an escrow account per paragraph 90-08.
 - b. The Contractor is required to pay all subcontractors for satisfactory performance of their contracts no later than 30 days after the Contractor has received a partial payment. Contractor must provide the Owner evidence of prompt and full payment of retainage held by the prime Contractor to the subcontractor within 30 days after the subcontractor's work is satisfactorily completed. A subcontractor's work is satisfactorily completed when all the tasks called for in the subcontract have been accomplished and documented as required by the Owner. When the Owner has made an incremental acceptance of a portion of a prime contract, the work of a subcontractor covered by that acceptance is deemed to be satisfactorily completed.

c. When at least 95% of the work has been completed to the satisfaction of the Engineer, the Engineer shall, at the Owner's discretion and with the consent of the surety, prepare estimates of both the contract value and the cost of the remaining work to be done. The Owner may retain an amount not less than twice the contract value or estimated cost, whichever is greater, of the work remaining to be done. The remainder, less all previous payments and deductions, will then be certified for payment to the Contractor.

It is understood and agreed that the Contractor shall not be entitled to demand or receive partial payment based on quantities of work in excess of those provided in the proposal or covered by approved change orders or supplemental agreements, except when such excess quantities have been determined by the Engineer to be a part of the final quantity for the item of work in question.

No partial payment shall bind the Owner to the acceptance of any materials or work in place as to quality or quantity. All partial payments are subject to correction at the time of final payment as provided in paragraph 90-09, *Acceptance and Final Payment*.

The Contractor shall deliver to the Owner a complete release of all claims for labor and material arising out of this contract before the final payment is made. If any subcontractor or supplier fails to furnish such a release in full, the Contractor may furnish a bond or other collateral satisfactory to the Owner to indemnify the Owner against any potential lien or other such claim. The bond or collateral shall include all costs, expenses, and attorney fees the Owner may be compelled to pay in discharging any such lien or claim.

90-07 Payment for materials on hand. Partial payments may be made to the extent of the delivered cost of materials to be incorporated in the work, provided that such materials meet the requirements of the contract, plans, and specifications and are delivered to acceptable sites on the airport property or at other sites in the vicinity that are acceptable to the Owner. Such delivered costs of stored or stockpiled materials may be included in the next partial payment after the following conditions are met:

- **a.** The material has been stored or stockpiled in a manner acceptable to the Engineer at or on an approved site.
- **b.** The Contractor has furnished the Engineer with acceptable evidence of the quantity and quality of such stored or stockpiled materials.
- **c.** The Contractor has furnished the Engineer with satisfactory evidence that the material and transportation costs have been paid.
- **d.** The Contractor has furnished the Owner legal title (free of liens or encumbrances of any kind) to the material stored or stockpiled.
- **e.** The Contractor has furnished the Owner evidence that the material stored or stockpiled is insured against loss by damage to or disappearance of such materials at any time prior to use in the work.

It is understood and agreed that the transfer of title and the Owner's payment for such stored or stockpiled materials shall in no way relieve the Contractor of their responsibility for furnishing and placing such materials in accordance with the requirements of the contract, plans, and specifications.

In no case will the amount of partial payments for materials on hand exceed the contract price for such materials or the contract price for the contract item in which the material is intended to be used.

No partial payment will be made for stored or stockpiled living or perishable plant materials.

The Contractor shall bear all costs associated with the partial payment of stored or stockpiled materials in accordance with the provisions of this paragraph.

- **90-08 Payment of withheld funds**. At the Contractor's option, if an Owner withholds retainage in accordance with the methods described in paragraph 90-06 *Partial Payments*, the Contractor may request that the Owner deposit the retainage into an escrow account. The Owner's deposit of retainage into an escrow account is subject to the following conditions:
- **a.** The Contractor shall bear all expenses of establishing and maintaining an escrow account and escrow agreement acceptable to the Owner.
- **b.** The Contractor shall deposit to and maintain in such escrow only those securities or bank certificates of deposit as are acceptable to the Owner and having a value not less than the retainage that would otherwise be withheld from partial payment.
 - c. The Contractor shall enter into an escrow agreement satisfactory to the Owner.
 - **d.** The Contractor shall obtain the written consent of the surety to such agreement.
- **90-09** Acceptance and final payment. When the contract work has been accepted in accordance with the requirements of Section 50, paragraph 50-15, *Final Acceptance*, the Engineer will prepare the final estimate of the items of work actually performed. The Contractor shall approve the Engineer's final estimate or advise the Engineer of the Contractor's objections to the final estimate which are based on disputes in measurements or computations of the final quantities to be paid under the contract as amended by change order or supplemental agreement. The Contractor and the Engineer shall resolve all disputes (if any) in the measurement and computation of final quantities to be paid within 30 calendar days of the Contractor's receipt of the Engineer's final estimate. If, after such 30-day period, a dispute still exists, the Contractor may approve the Engineer's estimate under protest of the quantities in dispute, and such disputed quantities shall be considered by the Owner as a claim in accordance with Section 50, paragraph 50-16, *Claims for Adjustment and Disputes*.

After the Contractor has approved, or approved under protest, the Engineer's final estimate, and after the Engineer's receipt of the project closeout documentation required in paragraph 90-11, *Contractor Final Project Documentation*, final payment will be processed based on the entire sum, or the undisputed sum in case of approval under protest, determined to be due the Contractor less all previous payments and all amounts to be deducted under the provisions of the contract. All prior partial estimates and payments shall be subject to correction in the final estimate and payment.

If the Contractor has filed a claim for additional compensation under the provisions of Section 50, paragraph 50-16, *Claims for Adjustments and Disputes*, or under the provisions of this paragraph, such claims will be considered by the Owner in accordance with local laws or ordinances. Upon final adjudication of such claims, any additional payment determined to be due the Contractor will be paid pursuant to a supplemental final estimate.

90-10 Construction warranty.

- **a.** In addition to any other warranties in this contract, the Contractor warrants that work performed under this contract conforms to the contract requirements and is free of any defect in equipment, material, workmanship, or design furnished, or performed by the Contractor or any subcontractor or supplier at any tier.
- **b.** This warranty shall continue for a period of one year from the date of final acceptance of the work, except as noted. If the Owner takes possession of any part of the work before final acceptance, this warranty shall continue for a period of one year from the date the Owner takes possession.
- c. The Contractor shall remedy at the Contractor's expense any failure to conform, or any defect. In addition, the Contractor shall remedy at the Contractor's expense any damage to Owner real or personal

property, when that damage is the result of the Contractor's failure to conform to contract requirements; or any defect of equipment, material, workmanship, or design furnished by the Contractor.

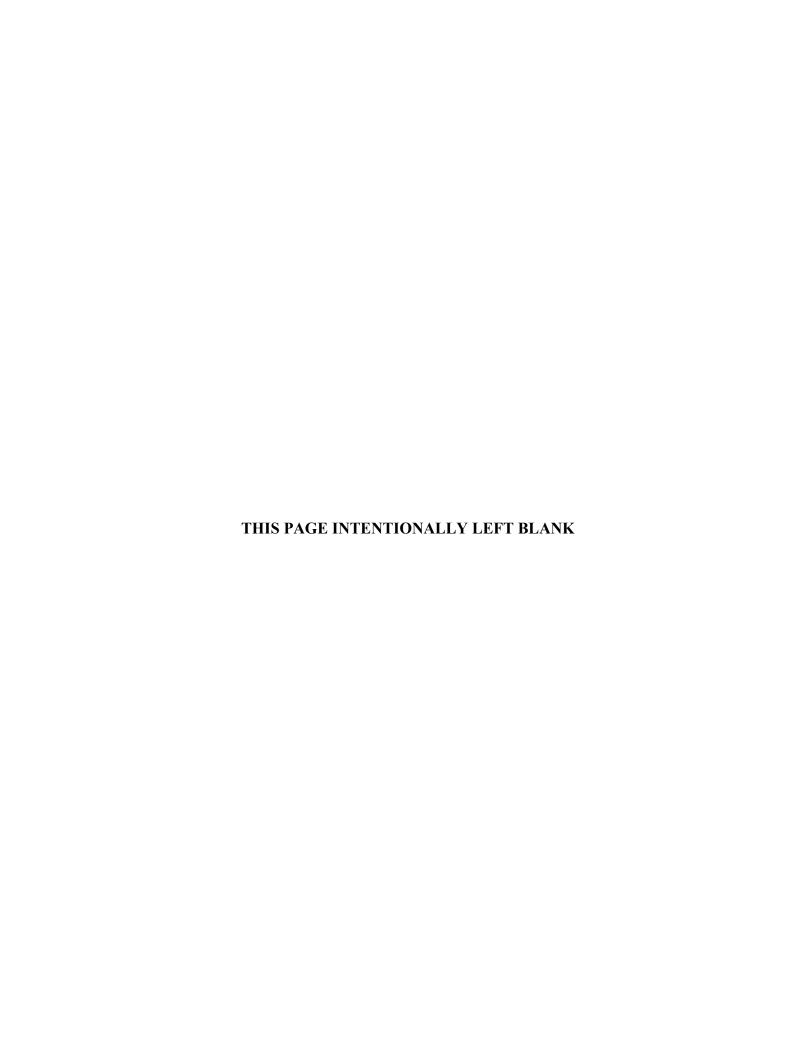
- **d.** The Contractor shall restore any work damaged in fulfilling the terms and conditions of this clause. The Contractor's warranty with respect to work repaired or replaced will run for one year from the date of repair or replacement.
- **e.** The Owner will notify the Contractor, in writing, within seven (7) days after the discovery of any failure, defect, or damage.
- **f.** If the Contractor fails to remedy any failure, defect, or damage within 14 days after receipt of notice, the Owner shall have the right to replace, repair, or otherwise remedy the failure, defect, or damage at the Contractor's expense.
 - (1) With respect to all warranties, express or implied, from subcontractors, manufacturers, or suppliers for work performed and materials furnished under this contract, the Contractor shall: (1) Obtain all warranties that would be given in normal commercial practice;
 - (2) Require all warranties to be executed, in writing, for the benefit of the Owner, as directed by the Owner, and
 - (3) Enforce all warranties for the benefit of the Owner.
- **g.** This warranty shall not limit the Owner's rights with respect to latent defects, gross mistakes, or fraud.
- **90-11 Contractor Final Project Documentation.** Approval of final payment to the Contractor is contingent upon completion and submittal of the items listed below. The final payment will not be approved until the Engineer approves the Contractor's final submittal. The Contractor shall:
- **a.** Provide two (2) copies of all manufacturers warranties specified for materials, equipment, and installations.
- **b.** Provide weekly payroll records (not previously received) from the general Contractor and all subcontractors.
 - c. Complete final cleanup in accordance with Section 40, paragraph 40-08, Final Cleanup.
 - **d.** Complete all punch list items identified during the Final Inspection.
 - e. Provide complete release of all claims for labor and material arising out of the Contract.
- **f.** Provide a certified statement signed by the subcontractors, indicating actual amounts paid to the Disadvantaged Business Enterprise (DBE) subcontractors and/or suppliers associated with the project.
 - g. When applicable per state requirements, return copies of sales tax completion forms.
 - **h.** Manufacturer's certifications for all items incorporated in the work.
 - i. All required record drawings, as-built drawings or as-constructed drawings.
 - **i.** Project Operation and Maintenance (O&M) Manual(s).
 - **k.** Security for Construction Warranty.
 - **l.** Equipment commissioning documentation submitted, if required.
 - m. DBE Payment Shortfall form (if applicable)
 - n. Contractor Warranty Statement

- o. Consent of Surety to Final Payment
- p. Final Waiver of Lien for Prime and Sub-contractors
- q. Final Statement Letter

END OF SECTION 90

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SPECIAL PROVISIONS

1. GENERAL

1.1. These Special Provisions are supplemental to the General Provisions and shall be considered as a part of the Contract Documents.

2. SHOP DRAWINGS

- 2.1. The Contractor shall submit to the Engineer all shop drawings required for the work. The Contractor shall carefully review all shop drawings for accuracy and conformance to the Contract Documents. The Contractor shall clearly indicate:
 - 2.1.1. the products and materials being submitted for review
 - 2.1.2. reference specification and
 - 2.1.3. the Contractor's stamp of approval before being forwarded to the Engineer
- 2.2. Six copies of all shop drawings shall be submitted to the Engineer in a timely manner so as to cause no delay to any part of the work. The Engineer shall review all shop drawings with reasonable promptness, and shall approve or note thereon any desired corrections. The Engineer shall retain two (2) copies of the shop drawings and shall return the remaining four (4) copies to the Contractor.
 - 2.2.1. If the shop drawings are returned without approval, the Contractor shall then make the required corrections and shall re-submit another six (6) copies of the corrected drawings to the Engineer. The Engineer shall retain two (2) copies of the corrected drawings. If additional corrections are required, then the Contractor shall resubmit as above.
- 2.3. Review of shop drawings by the Engineer shall not relieve the Contractor from responsibility for compliance with terms or designs of the Contract Documents nor from responsibility for errors of any sort in the shop drawings. The contractor is solely responsible for meeting the construction/installation requirements of the project.

3. COORDINATION, INTERPRETATION AND INTENT OF CONTRACT DOCUMENTS

- 3.1. It is the intent of the Specifications and the Plans to describe a complete project in accordance with the Contract Documents. The Contract Documents comprise the entire Contract between the Owner and the Contractor. They may be altered only by a written change order or Supplemental Agreement.
- 3.2. See section 50-03 COORDINATION OF CONTRACT, PLANS, AND SPECIFICATIONS in the General Provisions.
- 3.3. Dimensions on plans shall govern over general drawings, and detailed drawings shall govern over general drawings.

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4. INSURANCE

- 4.1. The Contract shall not be executed by the Contractor and Owner until the Contractor has obtained, at his sole expense, all required insurance policies and certificates and such policies and certificates have been approved by the Engineer. Contractor shall not allow any Subcontractor to commence work on his subcontract until all insurance required to be procured by the Subcontractor hereunder has been so obtained by or for the Subcontractor. If a Subcontractor does not take out insurance in his own name and the Contractor wishes to provide insurance protection for such Subcontractor and such Subcontractor's employees, the Contractor must either
 - 4.1.1. Procure appropriate policies in the name of the Subcontractor, or
 - 4.1.2. Cause a rider to be attached to the Contractor's policies which must identify the Subcontractor as an "additional insured". Such rider need not be attached to the Contractor's workers compensation policy if that policy is sufficiently broad to cover all employees of all Subcontractors performing work under the contract. All required insurance shall be procured from insurance companies licensed to do business in North Carolina and shall be maintained continuously during the life of the contract.
- 4.2. **Worker's Compensation Insurance** The Contractor shall take out and maintain during the life of this contract, worker's compensation insurance for all of his employees employed at the site of the project. In case any class of persons engaged in work under this Contract is not protected under the worker's compensation laws, the Contractor shall provide all adequate coverage for the protection of his employees not otherwise protected.
- 4.3. Comprehensive General Liability and Property Damage Insurance The Contractor shall take out and maintain during the life of this Contract such public liability and property damage insurance as shall protect him and the Owner from claims for damages for personal injury, including death, as well as from claims for property damages which may arise from operations under this contract, whether such operations be by himself or by any Subcontractor or by anyone directly or indirectly employed by either of them, and the amounts of such insurance shall be as follows:
 - 4.3.1. comprehensive General Liability Insurance not less than \$1,000,000 for accidental injury or death on account of any one occurrence, and
 - 4.3.2. Property Damage Insurance of not less than \$1,000,000 for each occurrence.
 - 4.3.3. The Owner and the Engineer shall be named as additional insureds.
- 4.4. **Comprehensive Automobile Liability Insurance** The Contractor shall procure and maintain during the life of the Contract complete comprehensive automobile liability insurance in the amounts of \$300,000 each occurrence for bodily injury or death, and \$300,000 each occurrence for property damage.
 - 4.4.1. The Owner and the Engineer shall be named as additional insureds.
- 4.5. **Umbrella Excess Liability Insurance** In addition to the requirements of the above paragraphs, the Contractor will be responsible for procuring and maintaining during the life of

the Contract an umbrella excess liability policy in the amount of \$5,000,000, providing excess coverage on insurance required in Paragraphs 4.3 and 4.4 above.

- 4.5.1. The Owner and the Engineer shall be named as additional insureds.
- 4.6. Unless provided otherwise, Each and every Subcontractor performing work covered by this Contract shall procure and maintain insurance of the types and in the amounts specified and prescribed above. It shall be the Contractor's responsibility to ensure that each Subcontractor procures and maintains the required insurance. If for any reason, such insurance is not provided and maintained in full force, the Contractor shall indemnify and save harmless the Owner and the Engineer from any damages resulting therefrom.
- 4.7. The Contractor shall require each Subcontractor to submit certificates of insurance coverage to the Contractor as evidence required coverage before such Subcontractor commences work on the project. The Contractor shall submit to the Engineer before the Contract is executed certificates of insurance evidencing coverage required to be procured by the Contractor hereunder. The Contractor shall submit evidence of Subcontractor coverage for each Subcontractor before that Subcontractor commences work on the project.
- 4.8. Each certificate of Insurance and each insurance policy (except worker's compensation) shall bear the provision that
 - 4.8.1. "The policy cannot be canceled, reduced in amount or coverage eliminated in less than 30 days after written notice is mailed (via certified mail) to the Owner, the insured, the Contractor (unless the Contractor is the insured) and the Engineer of such alteration, cancellation, or elimination."
 - 4.8.2. This provision is to be enforced at all times.
- 4.9. A provision regarding cancellations, reductions in amount or elimination of coverage to the effect that the insurer's failure to mail notice will impose no liability upon the insurer will not be acceptable. If an insurance policy is canceled, it will be the Contractor's obligation to procure a replacement policy at the Contractor's expense.

5. CONTRACTOR

- 5.1. The Contractor shall supervise and direct the work efficiently and with his best skill and attention. He is solely responsible for the means, methods, techniques, sequences, and procedures of construction. The Contractor will be responsible to see that the finished work complies accurately with the Contract Documents.
- 5.2. The Contractor will employ on the project at all times during its progress, a competent resident superintendent whose name and qualifications will be furnished to the Engineer at the preconstruction meeting and who shall not be replaced without prior written notice to the Engineer except under extraordinary circumstances, in which event immediate written notice shall be given to the Engineer. The superintendent will be the Contractor's representative at the site and shall have good communication skills and the authority to act on behalf of the Contractor and to receive any and all notices or instructions given pursuant to the Contract Documents. The superintendent shall be an employee of the Contractor. The Contractor will provide competent and suitable qualified personnel, equipment and supplies to perform the

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- work required by the Contract Documents and will at all times maintain good discipline and order at the site.
- 5.3. The Contractor will provide competent, suitably qualified personnel, equipment and supplies to survey and layout the work as required by the Contract Documents.
- 5.4. The Contractor shall attend job site progress conferences as called by the Engineer. The Contractor shall be represented at these job progress conferences by an authorized representative of the home office of the Contractor as well as by the resident superintendent. These meetings shall be open to Subcontractors, material suppliers and any others who can contribute beneficially toward maintaining required job progress, and such personnel shall be encouraged by the Contractor to attend. It shall be the principal purpose of these meetings or conferences to effect coordination, cooperation and assistance in every practical way to facilitate maintaining progress of the project on schedule and to complete the project within the approved schedule. The Contractor shall be prepared to assess progress of the work as required in the Contract and to recommend remedial measures for correction of progress as may be appropriate. The Engineer shall be the coordinator of the conferences and shall preside as chairperson.
- 5.5. It shall be the responsibility of the Contractor to schedule the work of all Subcontractors and suppliers to conform to the Construction Schedule submitted by the Contractor at the preconstruction meeting and approved by the Engineer and Owner; to maintain such construction schedule; and to notify the Engineer of any changes in the Construction Schedule. If the Contractor falls significantly behind the Construction Schedule, he shall, upon the Engineer's request, submit the following:
 - 5.5.1. a revised schedule for completion of work within the Contract time, such revised schedule shall be subject to approval by the Engineer and Owner, and,
 - 5.5.2. any other supporting data the Engineer and/or Owner may require.
 - 5.5.3. The Contractor shall modify his operations to provide such additional materials, equipment and labor necessary to meet such approved revised schedule. He shall be responsible for providing adequate notice to all Subcontractors to ensure efficient continuity of all phases of the project work.
- 5.6. In the event that the prosecution of the work is discontinued for any reason, the Contractor shall notify the Engineer at least forty-eight (48) hours in advance of resuming operations.
- 5.7. If in the opinion of the Engineer, any Subcontractor on the project proves to be incompetent or otherwise unsatisfactory, he shall be replaced by the Contractor if and when so directed by the Engineer in writing.
- 5.8. The Contractor will maintain one record copy of all Specifications, plans, addenda, modifications, and shop drawings at the site in good order and annotated to show all changes made during the construction process. These shall be available to the Engineer and shall be delivered to him/her for the Owner's purposes upon completion of the project. They shall be used for this purpose only.

- 5.9. The Contractor shall be responsible for the entire site and the necessary protections, as required by the Engineer and by laws or ordinances governing such conditions. He shall be responsible for any damage to the Owner's property, or that of others, by the Contractor, his employees, Subcontractors or their employees, and shall make good such damages. He shall hold harmless the Owner and Engineer for any such claims.
- 5.10. The Contractor shall provide cover and/or protect all portions of the work and provide all materials necessary to protect the work whether performed by him/her or any of the Subcontractors. Any work damaged through the lack of proper protection, or from any other cause, shall be repaired or replaced without extra cost to the Owner.
- 5.11. The Contractor shall maintain the work during construction and until the work is accepted. This maintenance shall constitute continuous and effective work prosecuted day by day, with adequate equipment and forces so that the work is maintained in satisfactory condition at all times. All costs of maintenance work during the construction and before the project is accepted shall be included in the unit prices bid on the various Contract items, and the Contractor will not be paid an additional amount for such work.
- 5.12. Should the Contractor at any time fail to maintain the work as provided herein, the Engineer shall immediately notify the Contractor of such noncompliance. Such notification shall specify a reasonable time within which the Contractor shall be required to remedy such unsatisfactory maintenance condition. The time specified will give due consideration to the exigency that exists. Should the Contractor fail to respond to the Engineer's notification, the Engineer may suspend any work necessary for the Owner to correct such unsatisfactory condition, depending on the exigency that exists. Any maintenance cost incurred by the Owner shall be deducted from monies due or to become due the Contractor.
- 5.13. Burning will not be allowed.
- 5.14. The Contractor shall designate a responsible member of his organization as safety inspector, whose duties shall include accident prevention on the project. The name of the safety inspector shall be made known to the Engineer at the pre-construction conference. Safety requirements outlined in the General Provisions must be strictly enforced.
- 5.15. In emergencies affecting the safety of persons or the work or property at the site or adjacent thereto, the Contractor, without special instructions or authorization from the Engineer or Owner, is obligated to act at his discretion to prevent threatened damage, injury or loss. As soon as practicable, he will notify the Engineer of such emergency and he will thereafter act at the Engineer's instruction. The Contractor will give the Engineer prompt written notice of any significant changes in the work or deviations from the Contract Documents caused by such emergency, and a change order, if found by the Engineer to be justified, shall thereupon be issued covering the changes and deviations involved. If the Contractor believes that additional work completed during an emergency entitles him/her to an increase in the Contract price or an extension of the Contract time, he may make a claim therefore as provided in the General Provisions.
- 5.16. The Contractor shall keep the premises free from accumulation of waste materials or rubbish caused by the work at all times. At the completion of the work, he shall remove any residual

waste materials and rubbish from and about the project as well as all tools, construction equipment, machinery and surplus materials. If the Contractor fails to clean up at the completion of the work, the Owner may do so and the cost thereof shall be charged to the Contractor. The Contractor shall leave the work in condition for occupancy by the Owner such that no cleaning or other operations are required. Material cleared from the site and deposited on adjacent property will not be considered as having been disposed of satisfactorily.

5.17. Utilities, Structures and Signs shall be provided as follows:

5.17.1. Temporary Structures

5.17.1.1. The Contractor shall provide all necessary storage sheds, shanties, and other similar structures required for his own use. Temporary structures shall be placed as directed by the Engineer and shall be built in a sound waterproof manner and shall remain on the premises until the Engineer directs their removal. Requirements of applicable local codes and ordinances shall apply.

5.17.2. Water

5.17.2.1. The Contractor shall consult with the Engineer in regard to water supply. A source and manner for obtaining water shall be approved by the Engineer before any water is secured. Any expenses of securing water shall be borne by the Contractor. Requirements of applicable local codes and ordinances shall apply.

5.17.3. Electricity

5.17.3.1. The Contractor shall consult with the Engineer in regard to electrical service. Any expenses of securing construction electrical service from the source of supply shall be borne by the Contractor. The Engineer shall approve the source of supply. If the Contractor constructs any temporary structures and/or field office(s) that require the installation of electrical service, the Contractor shall pay for electrical energy used in such facility at the rates of the utility company furnishing power. Requirements of applicable local codes and ordinances shall apply.

5.18. Signs

- 5.18.1. Directional signs may be erected on the Owner's property subject to the approval of the Engineer with respect to size, type, and location of such directional signs. Such signs may bear the name of the Contractor and a directional symbol.
- 5.18.2. A project bulletin board shall be erected and maintained by the Contractor that is waterproof and of sufficient size to post bulletins, wage and labor requirements, DBE requirements and other related information. The size, style and location of this bulletin board must be approved by the Engineer prior to its installation.
- 5.18.3. No other signs will be permitted unless approved by the Engineer.
- 5.18.4. Requirements of applicable local codes and ordinances shall apply to any posted signs.

- 5.19. Use of the terminal buildings and facilities located in and around said terminal area by employees of the Contractor and his Subcontractors and material and equipment suppliers shall be prohibited, except upon written permission from the Engineer.
- 5.20. The Contractor shall comply with all legal load restrictions in the hauling of materials on public roads beyond the limits of the work. A special permit will not relieve the Contractor of liability for damage that may result from the moving of material or equipment. The operation of equipment of such weight or so loaded as to cause damage to structures or to any other type of construction will not be permitted. Hauling of materials over the base course or surface course under constriction shall be limited as directed by the Engineer. No loads will be permitted on a concrete pavement, base, or structure before the expiration of the curing period. The Contractor shall be responsible for all damage done by his hauling equipment on or off the airport and shall correct such damage at his own expense.

6. OWNER

- 6.1. The Owner will issue all communications to the Contractor through the Engineer.
- 6.2. In case of termination of the employment of the Engineer, the Owner will appoint another Engineer who will have and assume all rights and duties held by the original Engineer named herein.
- 6.3. The Owner shall have the right to take possession of and use any portion of the work notwithstanding the fact that the time for completion of such portion of the work may not have expired but such taking possession and use shall not be deemed an acceptance of any work not completed in accordance with the Contract Documents. Should the Owner take possession of and use any portion of the work for which the time for completion has not yet expired and should the Contractor believe that such prior use increases the cost or delays in the work, he may make a claim for an increase in the Contract price and/or for an extension of time as provided the General Provisions.
- 6.4. A waiver on the part of the Owner for any breach of any part of the Contract shall not be held to be a waiver of any other or subsequent breach.

7. TESTING AND SURVEYING

- 7.1. Field surveys shall be made by the Contractor to determine compliance of construction with the Plans and Specifications and for quantity measurements. The Owner will incur the costs of routine compliance and measurement surveys performed during the ordinary course of construction. However, the Contractor shall pay for all costs of additional field surveys required due to inconsistent or inaccurate construction techniques, or performance of unacceptable or unauthorized work, or any other reason determined by the Engineer to be principally the cause of the Contractor. Said additional surveys are not considered to be routine. Work found to be unacceptable or unauthorized shall not be paid for and, if directed by the Engineer, shall be removed at the Contractor's expense.
- 7.2. The Contractor will be provided horizontal and vertical control points by the Engineer. The Contractor must furnish, at his expense, all additional stakes and materials for layout and construction of the work.

- 7.3. The Contractor shall provide Quality Control Testing as required to record that the project materials have been constructed per the requirements of the plans and specifications.
- 7.4. Owner will provide quality assurance testing as required by the specifications. Quality assurance testing will be completed when Contractor notifies the Engineer that materials have been constructed per the requirements of the plans and specifications and items are ready for testing. Re-testing or re-inspection required because of non-conformance to specified requirements shall be performed by the Engineer. Payment for re-testing or re-inspection will be charged to the Contractor by deducting testing charges from the contract price.

8. CHANGE OF THE CONTRACT PRICE

- 8.1. The Contract Price constitutes the total compensation payable to the Contractor for performing the work subject to additions and deductions as provided in the Contract Documents. All duties, responsibilities and obligations assigned to or undertaken by the Contractor shall be at his expense without change in the Contract Price. Except as otherwise specified, the Contract Price may only be changed by a Change Order, or Supplemental Agreement.
- 8.2. The Contractor shall not act on instructions received by him from persons other than the Engineer, and any claims for extra compensation on account of such instructions will not be honored.
- 8.3. In determining the amount of Contract Price adjustment, the parties shall apply the following methods, as appropriate:
 - 8.3.1. Emergency Work: In the event of emergency endangering life or property, the Contractor may be directed by the Engineer to proceed on a time and material basis whereupon the Contractor shall so proceed and keep accurately in such form as may be required, a correct account of costs together with all proper invoices, payrolls, and supporting data therefore.
 - 8.3.2. Claims for Increase: Where the Engineer and Owner, upon receipt of a proper claim for increase in Contract Price determine that an increase is warranted and where none of the above methods of Contract Price adjustment are applicable, the amount of increase shall be determined by negotiation between the Contractor and the Engineer, subject to final approval by the Owner.

9. CORRECTION OF WORK BEFORE FINAL PAYMENT

- 9.1. Any work, materials, fabricated items, or other parts of the work which have been found by the Engineer to be faulty or not in accordance with the Contract Documents shall be removed from the work site by the Contractor, and immediately replaced by new work in accordance with the Contract at no additional cost to the Owner. Work or property of the Owner or others damaged or destroyed by virtue of such condemned work shall be made good at the expense of the Contractor.
- 9.2. Correction of condemned work described above shall commence by the Contractor immediately after notice from the Engineer and shall be pursued to completion.
- 9.3. Final payment will not be made until the Engineer has approved such corrections.

- 9.4. Should the Contractor fail to proceed reasonably with the above-mentioned corrections within 24 hours of receiving notice from the Engineer, the Owner may proceed with corrections, paying the cost of same from amounts due or to become due to the Contractor. Condemned work so removed shall be the property of the Contractor, and shall be removed from the site of the work by him within five (5) days after notice to remove it, or thereafter may be disposed of by the Owner without compensation to the Contractor. The cost of such disposal shall be deducted from amounts due or to become due to the Contractor.
- 9.5. Should the cost of correction of the work and, if applicable, disposal of the condemned work by Owner exceed amounts due or to become due the Contractor, then the Contractor and his surety shall be liable for and shall pay to the Owner the amount of said excess.

10. CORRECTION OF WORK AFTER FINAL PAYMENT

10.1. Neither the final certificate, final payment, occupation of the premises by the Owner, nor any provision of the Contract, nor any other act or instrument of the Owner or the Engineer shall relieve the Contractor from responsibility for negligence, or faulty material or workmanship, or failure to comply with the Plans and Specifications. He shall correct or make good any defects due thereto and repair any damage resulting therefrom which may appear during a period of twelve (12) months following final acceptance of the work except as stated otherwise under the provisions of the Contract Documents. The Owner will report any defects as they may appear to the Engineer, who will give instructions and a time limit for completion of corrections to the Contractor, which instructions shall be binding upon the Contractor. The Engineer will be the judge as to the responsibility for correction of defects.

11. OWNER'S RIGHT TO DO WORK

- 11.1. If, during the progress of the work or during the period of guarantee, the Contractor fails to prosecute the work properly or to perform any provision of the contract, the Owner, after written notice to the Contractor from the Engineer or Owner, may perform or have performed that portion of the work and may deduct the cost thereof from any amounts due or to become due the Contractor.
- 11.2. Should the cost of such action of the Owner exceed the amount due or to become due the Contractor, then the Contractor and his surety shall be liable for and shall pay to the Owner the amount of said excess.

12. CONTRACTOR, SUBCONTRACTOR & SUPPLIER AFFIDAVIT

- 12.1. The final payment of retained amounts due the Contractor under this Contract shall not become due until the Contractor has furnished to the Owner through the Engineer:
 - 12.1.1. an affidavit, signed, sworn, and notarized by the Contractor to the effect that all payments for materials, services, or for any other reason in connection with this Contract have been satisfied and that no claims or liens exist against the Contractor in connection with this contract; and
 - 12.1.2. affidavits from each Subcontractor, of any tier, and supplier signed, sworn and notarized to the effect that:

- 12.1.2.1. each such Subcontractor or supplier has been paid in full by the Contractor for all work performed and/or materials supplied by him/her in connection with the project, and
- 12.1.2.2. that all payments for materials, services, and for any other reason in connection with his subcontract or supply contract have been satisfied and that no claims or liens exist against the Subcontractor or supplier in connection therewith.
- 12.2. In the event that the Contractor cannot obtain similar affidavits from Subcontractors or suppliers to protect the Contractor and the Owner from possible liens or claims against the Subcontractors or suppliers, the Contractor shall state in his affidavit that no claims or liens exist against any Subcontractor or supplier to the best of the Contractor's knowledge, and that if any appear afterwards, the Contractor shall save the Owner harmless on account thereof.

13. USE OF PREMISES

- 13.1. The Contractor shall confine his apparatus, the storage of materials and the operations of his workers to limits indicated by law, ordinances, permits and directions of the Engineer and shall not exceed those established limits in his operation.
- 13.2. The Contractor shall not load or permit any part of any structure to be loaded with a weight that will endanger its safety.
- 13.3. The Contractor shall enforce all of the Engineer's instructions, including, but not limited to, those regarding signs, advertisements, fires and smoking.

14. LIMITATIONS OF WORK AREA

- 14.1. Limited parking areas, for employees of the Contractor and the Subcontractors, shall be designated in the vicinity of the project, and it shall be the responsibility of the Contractor to require such employees to park in this designated area and not any area which may interfere with the operations in and around the construction site or the airport.
- 14.2. The Contractor and his employees and all Subcontractors and their employees shall be aware of the security procedures in effect in the work area. Full responsibilities will be explained at the preconstruction meeting.

15. CUTTING, PATCHING AND FITTING

15.1. The Contractor shall 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 to be received by work shown upon or which can be reasonably implied from the Plans and Specifications for the completed project and to fit the project to existing facilities surrounding the work area.

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16. DISPUTE RESOLUTION

- 16.1. In the event of any dispute, claim, question or disagreement arising out of or relating to this Agreement or breach thereof, the parties hereto shall use their best effort to settle such matter by mutual agreement. To this effect, responsible, authorized representatives of the parties shall meet, consult, and negotiate with each other in good faith, and, recognizing their mutual interests, attempt to reach a joint and equitable solution satisfactory to both parties. If they do not reach such solution within a period of thirty (30) days after the first notice by either party to the other of the existence of the dispute, and upon the notice of either party to the other, the dispute shall be resolved by proceeding with the dispute resolution procedures set forth herein below.
- 16.2. If the parties fail to agree on the resolution of any dispute through the negotiation process above, the parties shall proceed in good faith to attempt to settle the dispute through mediation under the Construction Industry Mediation Rules of the American Arbitration Association ("AAA"), subject to and in accordance with its rules governing the mediation of such disputes. Any party who chooses to first refer the dispute to mediation may, in its notice to the other, elect to refer the matter to either the AAA or to the CIDRS for mediation. Mediation is a precondition to further dispute resolution by the parties, and the dispute resolution procedure set forth herein below shall only be available following a declaration of "impasse" by a mediator or by the mutual agreement of the parties.
- 16.3. If "impasse" is declared in any mediated dispute, the matter shall be submitted to arbitration with the AAA or Construction Industry Rules of the CIDRS. Notice of intent to seek arbitration of any unresolved dispute shall be given by the claiming party within ten (10) days of the declaration of impasse. The responding party shall select either AAA or CIDRS within seven (7) days of the receipt of the notice of intent to arbitrate.
- 16.4. The following additional rules and procedures shall apply to all disputes arising under this Agreement and shall be in addition to or, in the case of any conflict with, shall be in lieu of the applicable rules of the AAA or CIDRS:
 - 16.4.1. The parties acknowledge that this Agreement may evidence a transaction involving interstate commerce. Nonetheless, in rendering the award, the arbitrator(s) shall determine the rights and obligations of the parties according to substantive and procedural laws of North Carolina.
 - 16.4.2. All negotiations and mediation sessions and all arbitration hearings shall take place in the offices of the Airport, or such other place as the parties may agree upon.
 - 16.4.3. In the arbitration of any dispute less than \$100,000, the sole arbitrator shall be a retired North Carolina or Federal Judge residing in North Carolina. In disputes of \$100,000 or more, an arbitration panel of three (3) experienced construction industry professionals shall be appointed and shall include
 - 16.4.3.1. one architect or Engineer,
 - 16.4.3.2. one construction attorney or retired State or Federal Judge residing in North Carolina, and

- 16.4.3.3. either one construction industry executive or a senior staff representative of a public or private Owner of a facility of the kind described in this Agreement.
- 16.5. The Owner, the Contractor, all Subcontractors, material suppliers, engineers, designers, architects, and their respective bonding companies and insurers and all other parties concerned with the construction of the improvements described in this Agreement are bound by this Dispute Resolution Clause to the greatest extent permitted by law, and all such parties consent and agree to the consolidation of all phases of the dispute resolution process hereunder with the dispute resolution proceedings pending among other parties whenever such proceeding arises out of the same transaction or are related to the same subject matter. The motion to consolidate may be made by any interested party and will be by an order of the arbitrator(s)' petitioned If such arbitrator(s) fail to make such order, parties may apply to the local Superior Court for such order.
- 16.6. At any time in the dispute resolution proceeding, the parties may agree to a high/low limitation which shall be binding upon all further proceedings.
- 16.7. Discovery procedures may not be undertaken during negotiations or mediation phases. However, the parties shall proceed in good faith to make disclosures to the other party of all facts, documents, records and other evidence upon which each party bases its claim or defense.
- 16.8. Prior to any arbitration hearing, limited discovery shall be permitted for the purpose of obtaining production of documents and taking depositions. The Rules of Civil Procedure imposed by North Carolina shall govern all discovery. The arbitrator(s) shall decide all issues regarding conformation with discovery requests. Request for discovery shall be initiated within thirty (30) days after the notice of intent to arbitrate is given and shall be fully responded to within thirty (30) days after receipt. All discovery, including depositions, shall be completed within seventy-five (75) days of the notice of intent to arbitrate or the arbitrator(s) or either party shall extend or reduce the time for discovery.
- 16.9. Upon request of either party made prior to the initial hearing the arbitrators' award shall be in writing and shall include findings of fact and conclusions of law, which support the award.
- 16.10. Either party may appeal the arbitration award to appellate arbitration by filing with the AAA, within twenty (20) days after transmittal of the award, a written brief; not to exceed twenty (20) pages, stating the reason why the arbitrator(s') decision should be reversed or modified. The opposing party shall have twenty (20) days to file a responsive brief; not to exceed twenty (20) pages. An appellate arbitrator shall be appointed by the AAA and shall be a retired North Carolina Superior Court or Appellate Judge. Either party may request oral argument which must be concluded within fourteen (14) days following submission of the final brief. No additional evidentiary material may be introduced in the appellate arbitration. The appellate arbitrator shall render a written decision affirming, reversing modifying or remanding the arbitrator(s)' decision within twenty (20) days after receiving the final appellate submission. The appellate arbitrator may base its decision only on one or more of the following grounds:
 - 16.10.1. Any ground specified in 9 U.S.C. Sections 10 or 11;
 - 16.10.2. A material error of applicable law by the arbitrator;

- 16.10.3. A determination that the award was partially or wholly arbitrary or capricious.
- 16.10.4. The appellate arbitrator may render a final decision on appeal or may remand the matter for further proceeding by the arbitrator(s).
- 16.11. All fees and expenses of the mediation and of the arbitration procedures shall be borne by the parties equally. However, each party shall bear the expense of its own counsel, experts, witnesses, and preparation and presentation of proofs. Only in the case of extreme abuse of the procedure may the arbitrator(s) reallocate such costs and expenses among the parties.
- 16.12. The dispute resolution procedures set forth hereinabove shall be the exclusive remedies available to the parties to the Agreement to settle or resolve any and all disputes arising hereunder and any settlement or arbitral award may be enforced by an action in the Superior Court of the county in which the project resides.

17. TAXES

- 17.1. The Contractor shall include in the bid and shall pay all taxes (including sales or use taxes) assessed by any authority on the work or the labor and materials used therein. The Contractor understands and agrees that the Contractor is responsible for payment of any such taxes owed, and further agrees that in the case of the joint liability of the Contractor and the Owner for any such tax, the Contractor is responsible for paying the tax. The Contractor agrees to indemnify and hold harmless the Owner against any such tax liabilities. In the event the Contractor fails to pay any such tax when due and the Owner is required to pay such tax, the Contractor agrees to reimburse Owner for same and further agrees that the Owner shall have the right to set off the amount of such tax against any sum owed the Contractor. It is understood by the parties that the above section of this Contract shall apply to and be fully enforceable against the Contractor, regardless of whether it is "engaged in business" in North Carolina, is an out-of-state Contractor, or is legally domiciled and qualified to do business in this state.
- 17.2. The Contractor shall maintain all tax records during the life of the project and furnish the Engineer with a complete listing of all taxes paid by county, material purchased, invoice number, date, amount, etc. for all material purchased that qualifies for reimbursement of such taxes to the Owner pursuant to State and Local tax codes. The Contractor shall use the form bound in these Contract Documents for its monthly submittals. The Contractor is required to maintain a file showing taxes paid on the project for one year or turn said documents over to the Owner.
- 17.3. The following is a list of requirements to be followed by the Contractor in maintaining proper records and reporting North Carolina Sales and Use Tax and Local Sales and Use Tax. The Contractor shall comply fully with the requirements outlined below, in order that the Owner may recover the amount of the tax permitted under the law.
 - 17.3.1. It shall be the Contractor's responsibility to furnish the Engineer documentary evidence showing the materials used and Sales and Use Tax paid by the Contractor and each of his Subcontractors. Such evidence shall be transmitted to the Engineer monthly with the following month's request for payment.
 - 17.3.2. The documentary evidence shall consist of a certified statement by the Contractor and each of his Subcontractors individually showing total purchases of materials

from each separate vendor and total Sales and Use Taxes paid each vendor. Certified statements must show the material purchased, invoice number (or numbers) covered and inclusive dates of such invoices.

- 17.3.3. Materials used from Contractor's or Subcontractor's warehouse stock shall be shown in a certified statement at warehouse stock prices.
- 17.3.4. The Contractor shall not be required to certify the Subcontractor's statements.
- 17.3.5. NOT USED.
- 17.3.6. NOT USED.

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| 18 CONTRACTOR'S STATE AND LOCAL | SALES TAX REPORT TAXES PAID | | | | | | | |] |
|------------------------------------|---|-------------------------------|-------------------|--------------------------------|--|----------------|-------------------|----------------|--------------------|
| CONTRACTOR: ADDRESS: | | | | OWNER PROJECT FOR PERIOD | <u> </u> | | То: | | _ |
| | | | | FOR PERIOD | : | | 10: | | |
| * County is the count | ty of delivery or county in which t | he contractor directly pic | ked up the me | erchandise. | | | | | |
| VENDOR | ADDRESS | SUMMARY OF ITEMS PURCHASED | INVOICE NUMBER | INVOICE DATE | INVOICE AMOUNT | STATE TAXES | COUNTY TAXES | TOTAL TAXES | *NAME OF COUNTY |
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| NOTE: ATTACH | I COPIES OF INVOICES A | S DESCRIBED AB | OVE | | | | | | |
| I, | my knowledge and belief. | _certify that the foregoin | g statement o | of applicable sa | ales taxes paid | d in connecti | on with the refer | renced contrac | t |
| | my knowledge and belief. | Title: | | | _ | | | | |
| I, | , Notary Public for his day and acknowledged the d | County, State of | f | _, do hereby c | ertify that | | perso | nally | |
| | d official seal, this the da | _ | _ | | | | | | |
| Notary Pub | lic. | (Official Seal) | | | | | | | |
| , | | (Onicial Seal) | | | | | | | |
| | | | | | | | | | |
| My commission expir | res, 20 | | | | | | | | |

19. OPERATION OF AIRPORT

19.1. Insofar as is possible, the Contractor agrees that the sequence of operations under this Contract shall be scheduled and carried out so as to ensure regular operation of the airport except for scheduled closings. The Contractor will not be allowed to close any areas for construction until so authorized by the Engineer. When the Contract work requires the Contractor to work within the areas used by aircraft and support vehicles of the airport on an intermittent basis, the Contractor shall obtain an airfield radio and constantly monitor radio communications (Unicom Frequency 122.975 from pilots using the airport, immediately vacate runway and taxiway areas until traffic is clear. Failure to maintain the specified communications or to obey these instructions shall be cause for suspension of the Contractor's operations in such areas until the satisfactory conditions are provided.

20. SEVERABILITY

20.1. If any provision of the Contract shall be declared invalid or unenforceable, the remainder of the Contract shall continue in full force and effect.

21. NOT USED

22. DUTIES, RESPONSIBILITIES AND LIMITATIONS OF AUTHORITY OF RESIDENT PROJECT REPRESENTATIVE

22.1. GENERAL - The Resident Project Representative shall be the representative of the Engineer and shall act under the direction of the Engineer. The Engineer and the Engineer's Resident Project Representative shall have authority to act on behalf of the Owner only to the extent provided in the contractual agreements to which the Engineer is a party. The Resident Project Representative shall confer with the Engineer regarding their required actions at intervals and on occasions appropriate to the progress of construction. The Resident Project Representative's interaction and communications in matters pertaining to the on-site work in general shall be only with the Engineer and the Contractor. The Resident Project Representative shall communicate with Subcontractors only through, or with the full knowledge and authorization of, the Contractor or his superintendent. The Resident Project Representative shall generally communicate with the Owner only through or as directed by the Engineer.

22.2. DUTIES AND RESPONSIBILITIES - The Resident Project Representative shall:

- 22.2.1. Review the construction progress schedule, schedule of Shop Drawing submittals, schedule of values, schedules of equipment, materials and supplies order placement, project manpower schedule and other schedules prepared by the Contractor and consult with the Engineer, who shall likewise consult with the Owner in this same regard, concerning their acceptability. Throughout the course of the Work, he shall monitor the construction progress schedule and report to the Engineer, who shall likewise report to the Owner, any conditions which may cause delay in completion of the Work.
- 22.2.2. Attend the project preconstruction meeting. Schedule progress meetings and other job conferences in consultation with the Engineer and notify in advance those expected to attend. Attend meetings, including progress meetings, job conferences

- and any others as directed by the Engineer, maintain and circulate copies of minutes thereof, and report to the Engineer, who shall likewise report to the Owner, on the proceedings.
- 22.2.3. Serve as the Engineer's liaison with the Contractor, working principally through the Contractor's superintendent, and assist the Contractor in understanding the intent of the Contract Documents. Assist the Engineer in serving as the Owner's liaison with the Contractor when the Contractor's operations affect the Owner's on-site operations.
- 22.2.4. As requested by the Engineer, assist in obtaining from the Owner additional details or information and in making necessary arrangements and carrying out coordination of activities when required at the job site for proper execution of the Work.
- 22.2.5. In the interest of preserving the proper channels of communication, advise the Engineer if he is aware of any direct communication between the Owner and the Contractor.
- 22.2.6. Assist the Engineer in reviewing Shop Drawings, Product Data and Samples.
- 22.2.7. Receive and record the date of receipt of Shop Drawings and Samples and any actions subsequent to shop drawing reviews by the Engineer.
- 22.2.8. Receive and log Samples which are required to be furnished at the site by the Contractor for the Engineer's approval, notify the Engineer of their availability and readiness for examination, and record the Engineer's approval or other action. Maintain custody of approved samples.
- 22.2.9. Notify the Engineer and the Contractor or his resident superintendent immediately if any portion of the Work requiring submittal of Shop Drawings, Product Data or Samples is commenced before the Engineer has approved such submittals.
- 22.2.10. Conduct on-site observations and inspections of the progress and quality of the Work to determine and assist the Engineer in determining and to make certain within reason that the project is proceeding in accordance with the Contract Documents and that all work performed by the Contractor is in accordance with the intent and conforms to the requirements of the Contract Documents.
- 22.2.11. Notify the Engineer, who shall likewise notify the Owner, and the Contractor immediately whenever he believes that any Work in progress or completed is unsatisfactory, faulty or defective, is not in accordance with the intent and/or does not conform to the requirements of the Contract Documents, has been damaged, or does not meet the requirements of any inspections, tests or approvals required to be made.
- 22.2.12. Notify the Engineer, who shall likewise notify the Owner and the Contractor immediately whenever he believes that Work in progress or completed should be uncovered for observation or requires special inspection or testing.
- 22.2.13. Reject unsatisfactory, faulty or defective Work in progress or completed which is not in accordance with the intent and/or the requirements of the Contract Documents, immediately and directly inform the Contractor or his superintendent of such rejection, and report such rejection to the Engineer, who shall likewise notify the

- Owner, and require correction of such unsatisfactory, faulty or defective Work immediately or within a reasonable period of time.
- 22.2.14. Make certain that all unsatisfactory, faulty or defective Work previously rejected is properly corrected before being covered up by the Contractor or other Work being placed above.
- 22.2.15. Verify that tests, equipment and systems startups and operating and maintenance instructions are conducted or followed as required by the Contract Documents and in the presence of the required personnel, that the Contractor maintains adequate records thereof, and maintain details relative to test procedures, startups and test results. Verify the accuracy of all testing invoices which are to be paid by the Owner. Order all tests required by the Contract Documents which are to be paid for by the Owner.
- 22.2.16. Accompany the Owner's authorized representative and visiting inspectors representing public or other agencies having jurisdiction over the Project on visits to the Project site, record the names, titles, dates, times and outcomes relative to such inspections, and report this information to the Engineer.
- 22.2.17. Review the Contract Documents with the Contractor's superintendent. Obtain necessary clarifications and interpretations of the Contract Documents from the Engineer and transmit them to the Contractor.
- 22.2.18. Consider and evaluate the suggestions and recommendations of the Contractor for modifications to the Plans and Specifications and submit them with recommendations to the Engineer for a final decision.
- 22.2.19. Maintain at the job site orderly records and files for correspondence, reports of job conferences, Shop Drawings, Product Data and Sample submittals, reproductions of original Contract Documents including all Addenda, Change Orders, Field Orders, additional or supplementary Plans issued subsequent to the execution of the Contract, the Engineer's clarifications and interpretation of the Contract Documents, progress reports, requests for payment, directives of the Engineer, names, addresses, and telephone numbers of all contractors, subcontractors and principal equipment and materials suppliers, and other Project-related documents. Transmitting communications on acceptance of work, requests for information to or from the Contractor, or other important information relating to project schedule, inspections, activities or work issues shall be made in writing to the Contractor with a copy to the Engineer. These written communications should include the date and time of transmittal.
- 22.2.20. Keep a diary or log book throughout the Construction Phase, recording the Contractor's hours, manpower and equipment on the job site, the Resident Project Representative's time on and daily activities related to the Project, weather conditions, nature and location of Work being performed each working day by each Contractor, verbal instructions and interpretations received from the Engineer and/or given to the Contractor, data relative to questions of extras or deductions, list of principal visitors with dates and times of visits, decisions reached, observations in general, specific observations in more detail as in the case of observing test procedures, instances of rejected Work and corrective action taken by the Contractor

relative thereto, and other pertinent and relevant information. The Resident Project Representative should have available a digital camera to record meaningful construction progress, buried or obscured utilities, potentially faulty work or other items of work where digital photograph records would prove beneficial to documenting the construction work. These digital records should be stored on reproducible media and transmitted along with copies of each week's daily inspection reports to the Engineer and the Owner the first of the following week.

- 22.2.21. Observe the Contractor's record plans continually and notify the Engineer and the Contractor of any apparent failure by the Contractor to maintain an up-to-date copy of record plans at the Project site.
- 22.2.22. Furnish the Engineer and the Owner periodic summary reports, in addition to the daily inspection reports, of the progress of the Work and of the Contractor's compliance with the approved construction progress schedule, schedule of Shop Drawing submittals and other schedules.
- 22.2.23. Consult with the Engineer in advance of schedules major tests, inspections or start of important phases of the Work.
- 22.2.24. Review Applications for Payment with the Contractor for compliance with the procedure established by the Contract Documents for their submittal and forward them with recommendations for disposition to the Engineer, noting particularly their relation to the schedule of values, work satisfactorily completed and materials and equipment delivered to and stored at the Project site.
- 22.2.25. During the course of the Work, verify that guarantees, certificates, maintenance and operating manuals and other data required to be assembled and furnished by the Contractor are applicable to the items actually installed, and deliver these data to the Engineer for his review and forwarding to the Owner prior to final acceptance of the Work.
- 22.2.26. If a semi-final inspection is performed, transmit to the Contractor a list of observed items requiring correction.
- 22.2.27. Assist the Engineer in final inspection of the Work in the company of the Owner and the Contractor and preparation and transmittal to the Contractor of a final list of items to be corrected.
- 22.2.28. Verify that all items on the final inspection list have been corrected and make recommendations to the Engineer concerning acceptance.
- 22.2.29. Receive from the Contractor and prepare for transmittal to the Owner the documentation the Contractor is required to furnish at the completion of the Work.
- 22.3. LIMITATIONS OF AUTHORITY Except upon written instructions and directions of the Engineer, the Resident Project Representative shall not:
 - 22.3.1. Authorize any deviation from the Contract Documents or approve any substitute materials or equipment.

- 22.3.2. Assume or undertake any of the responsibilities of the Contractor, Subcontractors or the Contractor's superintendent.
- 22.3.3. Expedite the Work for the Contractor.
- 22.3.4. Advise on or issue directions relative to any aspect of the means, methods, techniques, sequences or procedures of construction unless such is specifically called for in the Contract Documents.
- 22.3.5. Advise on or issue directions as to safety precautions and programs in connection with the Work.
- 22.3.6. Authorize or suggest that the Owner occupy the Project in whole or in part.
- 22.3.7. Personally conduct or participate in specialized field or laboratory tests or inspections conducted by others or require special inspection or testing.
- 22.3.8. Assist the Contractor in maintaining an up-to-date copy of record plans or prepare or certify to the preparation of record plans.
- 22.3.9. Issue a Certificate of Payment or a Certificate of Completion of the Work.
- 22.3.10. Order the Contractor to stop the Work or any portion thereof.

23. AIRPORT PROJECT PROCEDURES (CONSTRUCTION SAFETY PLAN)

- 23.1. The Contractor shall limit his work within the areas designated on the Construction Safety Plan. Regardless of any other written or verbal communication issued on this Project, Safety is solely the responsibility of the Contractor.
- 23.2. The Contractor is required to employ a Safety Officer who will be the liaison between the Contractor, the Engineer, and the Owner in all safety related matters for the duration of the project. The safety officer shall be on call 24 hours per day for emergency maintenance of airport hazard lighting, barricades, and other safety features.
- 23.3. The Contractor shall be responsible for field marking and protecting all utilities within the construction limits.
- 23.4. All equipment, vehicles, and materials must be stored in the designated storage or staging area or in areas acceptable to the Engineer. The Contractor's vehicles and equipment shall be marked in accordance with state and federal safety regulations.
- 23.5. No open flames or burning will be allowed on Airport property except as specifically authorized by the Engineer in writing.
- 23.6. The Contractor shall comply with all applicable federal, state, and local laws, ordinances, and regulations governing safety, health, and sanitation; shall provide barricades; and shall take any other needed actions, on his own responsibility, that are reasonably necessary to protect life and health of employees on the job, the safety of airport users, the safety of moving and parked vehicles and other property during the performance of the work.
- 23.7. Except as otherwise specified, the most current version of FAA AC 150/5370-2 and all its references shall be used in maintaining airport operational safety during construction.

- 23.8. The Contractor shall integrate and maintain requirements of airport operational safety into each planning and work schedule. The Contractor's Safety Officer shall continuously monitor all planning schedules and work underway for compliance to AC 150/5370-2; and shall maintain vigilance to detect areas needing attention due to oversight or altered construction activities. Airport operational safety during construction will be on the agenda at the pre-construction conference and each coordination and progress meeting.
- 23.9. Except as specified directly, no measurement or payment will be made for the work in this section; it will be considered as incidental cost to Mobilization and other items of work.

24. PROJECT TIME AND LIQUIDATED DAMAGES

- 24.1. The work as described by the Contract documents and as shown on the plans shall be completed and ready for use by the Owner within the time shown below after the date of Notice to Proceed. The time schedule for completion of this project is critical and liquidated damages as prescribed in the Contract will be enforced.
- 24.2. Owner and Contractor recognize that time is of the essence and that the Owner will suffer financial loss if the work is not substantially complete in the accordance with the time specified herein. They also recognize the delays, expenses and difficulties involved in proving in a legal or arbitration preceding the actual loss suffered by the Owner if the work is not completed on time. Accordingly, instead of requiring any such proof, the Owner and Contractor agree that as liquidated damages for delay (but not as a penalty) the Contractor shall pay the Owner the amounts stipulated herein.
- 24.3. The Contractor further understands and hereby expressly agrees that in addition to liquidated damages specified herein, to pay the Owner the actual costs to the Owner for any inspector or inspectors necessarily employed by the Owner on the work and the actual costs to the Owner for the Engineer's observation of construction and project representative services including all travel and subsistence expenses after the date specified for project completion until the work is completed and ready for final payment. Further, the Contractor agrees that the sums to be paid the Owner may be deducted from the sum due the Contractor for work performed.

Contract Time: 60 Calendar Days (Phase 1) 45 Calendar Days (Phase 2) 45 Calendar Days (Phase 3)

24.4. The Contractor shall complete all punch list items determined by the Owner and the Engineer within 14 consecutive calendar days from the date of Final Inspection, except for final pavement marking. Failure to do so will result in liquidated damages of \$500 per day beyond the 14-day period.

25. PROJECT RECORD DOCUMENTS

25.1. RECORDING

- 25.1.1. During daily progress of the work, the job superintendent for the Contractor shall record information concurrently with construction progress. Do not conceal any work until required information is recorded.
- 25.1.2. All field data for record information shall be obtained by a surveyor who is a Registered Land Surveyor (RLS) in the State of North Carolina. All field notes to determine the "as-built" conditions shall be sealed by the RLS who performed the survey and shall be submitted to the Engineer.
- 25.1.3. Record Information includes but is not limited to the following:
 - 25.1.3.1. Depths of various elements of foundation in relation to finish reference datum.
 - 25.1.3.2. Horizontal and vertical locations of pavements and underground utilities and appurtenances, referenced to permanent surface improvements or finish reference datum.
 - 25.1.3.3. Field changes of dimension and detail.
 - 25.1.3.4. Details not on original Contract Drawings.
 - 25.1.3.5. Changes made by field order or by Change Order.
 - 25.1.3.6. Extent and dimensions of pavement removal.
 - 25.1.3.7. Any other changes in the plans.
 - 25.1.3.8. Storm Drainage and Sanitary Sewer Systems:
 - 25.1.3.8.1. Pipes: Size, Material and invert elevations
 - 25.1.3.8.2. Structures (manhole, junction box, headwalls, etc.):

 Dimensions, invert, top and bottom elevations, and special weir walls.
 - 25.1.3.9. Electrical, Communication, Water, Gas and other non-gravity utilities:
 - 25.1.3.9.1. Exact distance between all manholes and points of intersection.
 - 25.1.3.9.2. Exact size and location of duct bank or conduit run and what circuits it applies to.
 - 25.1.3.9.3. Rim and invert elevation of all manholes and duct banks.
 - 25.1.3.9.4. Depth of cover on direct burial lines.
- 25.1.4. All horizontal control dimensions shall be to the nearest tenth of a foot. Elevations shall be to the nearest one-hundredth of a foot.

25.2. SUBMITTAL

25.2.1. At the close of the job and prior to receipt of final payment, the Contractor shall deliver to the Engineer for the Owner one complete set of Record Documents. Record drawings shall be submitted in AutoCAD and as a PDF signed and sealed by a Registered Land Surveyor (RLS) in the State of North Carolina.

END OF SECTION

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ITEM C-102

TEMPORARY AIR AND WATER POLLUTION, SOIL EROSION, AND SILTATION CONTROL

DESCRIPTION

102-1. This item shall consist of temporary control measures as shown on the plans or as ordered by the Engineer during the life of a contract to control pollution of air and water, soil erosion, and siltation through the use of silt fences, berms, dikes, dams, sediment basins, fiber mats, gravel, mulches, grasses, slope drains, and other erosion control devices or methods.

Temporary erosion control shall be in accordance with the approved erosion control plan; the approved Construction Safety and Phasing Plan (CSPP) and AC 150/5370-2, *Operational Safety on Airports During Construction*. The temporary erosion control measures contained herein shall be coordinated with the permanent erosion control measures specified as part of this contract to the extent practical to assure economical, effective, and continuous erosion control throughout the construction period.

Temporary control may include work outside the construction limits such as borrow pit operations, equipment and material storage sites, waste areas, and temporary plant sites.

Temporary control measures shall be designed, installed and maintained to minimize the creation of wildlife attractants that have the potential to attract hazardous wildlife on or near public-use airports.

MATERIALS

- **102-2.1 Grass.** Grass that will not compete with the grasses sown later for permanent cover per Item T-901shall be a quick-growing species (such as ryegrass, Italian ryegrass, or cereal grasses) suitable to the area providing a temporary cover. Selected grass species shall not create a wildlife attractant. Use of bird attracting seed such as millet will not be allowed.
- **102-2.2 Mulches.** Mulches may be hay, straw, fiber mats, netting, bark, wood chips, or other suitable material reasonably clean and free of noxious weeds and deleterious materials per Item T-908. Mulches shall not create a wildlife attractant.
- **102-2.3 Fertilizer.** Fertilizer shall be a standard commercial grade and shall conform to all federal and state regulations and to the standards of the Association of Official Agricultural Chemists.
- **102-2.4 Slope drains.** Slope drains may be constructed of pipe, fiber mats, rubble, concrete, asphalt, or other materials that will adequately control erosion.
- **102-2.5 Silt fence.** Silt fence shall consist of polymeric filaments which are formed into a stable network such that filaments retain their relative positions. Synthetic filter fabric shall contain ultraviolet ray inhibitors and stabilizers to provide a minimum of six months of expected usable construction life. Silt fence shall meet the requirements of ASTM D6461.
- **102-2.6 Other.** All other materials shall meet commercial grade standards and shall be approved by the Engineer before being incorporated into the project.

CONSTRUCTION REQUIREMENTS

102-3.1 General. In the event of conflict between these requirements and pollution control laws, rules, or regulations of other federal, state, or local agencies, the more restrictive laws, rules, or regulations shall apply.

The Engineer shall be responsible for assuring compliance to the extent that construction practices, construction operations, and construction work are involved.

102-3.2 Schedule. Prior to the start of construction, the Contractor shall submit schedules in accordance with the approved Construction Safety and Phasing Plan (CSPP) and the plans for accomplishment of temporary and permanent erosion control work for clearing and grubbing; grading; construction; paving; and structures at watercourses. The Contractor shall also submit a proposed method of erosion and dust control on haul roads and borrow pits and a plan for disposal of waste materials. Work shall not be started until the erosion control schedules and methods of operation for the applicable construction have been accepted by the Engineer.

102-3.3 Construction details. The Contractor will be required to incorporate all permanent erosion control features into the project at the earliest practicable time as outlined in the plans and approved CSPP. Except where future construction operations will damage slopes, the Contractor shall perform the permanent seeding and mulching and other specified slope protection work in stages, as soon as substantial areas of exposed slopes can be made available. Temporary erosion and pollution control measures will be used to correct conditions that develop during construction that were not foreseen during the design stage; that are needed prior to installation of permanent control features; or that are needed temporarily to control erosion that develops during normal construction practices, but are not associated with permanent control features on the project.

Where erosion may be a problem, schedule and perform clearing and grubbing operations so that grading operations and permanent erosion control features can follow immediately if project conditions permit. Temporary erosion control measures are required if permanent measures cannot immediately follow grading operations. The Engineer shall limit the area of clearing and grubbing, excavation, borrow, and embankment operations in progress, commensurate with the Contractor's capability and progress in keeping the finish grading, mulching, seeding, and other such permanent control measures current with the accepted schedule. If seasonal limitations make such coordination unrealistic, temporary erosion control measures shall be taken immediately to the extent feasible and justified as directed by the Engineer.

The Contractor shall provide immediate permanent or temporary pollution control measures to minimize contamination of adjacent streams or other watercourses, lakes, ponds, or other areas of water impoundment as directed by the Engineer. If temporary erosion and pollution control measures are required due to the Contractor's negligence, carelessness, or failure to install permanent controls as a part of the work as scheduled or directed by the Engineer, the work shall be performed by the Contractor and the cost shall be incidental to this item.

The Engineer may increase or decrease the area of erodible earth material that can be exposed at any time based on an analysis of project conditions.

The erosion control features installed by the Contractor shall be maintained by the Contractor during the construction period.

Provide temporary structures whenever construction equipment must cross watercourses at frequent intervals. Pollutants such as fuels, lubricants, bitumen, raw sewage, wash water from concrete mixing operations, and other harmful materials shall not be discharged into any waterways, impoundments or into natural or manmade channels.

102-3.4 Installation, maintenance and removal of silt fence. Silt fences shall extend a minimum of 16" and a maximum of 34" above the ground surface. Posts shall be set no more than 10' on center. Filter fabric shall be cut from a continuous roll to the length required minimizing joints where possible. When joints are necessary, the fabric shall be spliced at a support post with a minimum 12" overlap and securely sealed. A trench shall be excavated approximately 4" deep by 4" wide on the upslope side of the silt fence. The trench shall be backfilled and the soil compacted over the silt fence fabric. The Contractor shall remove and dispose of silt that accumulates during construction and prior to establishment of permanent erosion control.

The fence shall be maintained in good working condition until permanent erosion control is established. Silt fence shall be removed upon approval of the Engineer.

METHOD OF MEASUREMENT

- **102-4.1** Temporary erosion and pollution control work required will be performed as scheduled or directed by the Engineer. Completed and accepted work will be measured as follows:
 - a. Temporary seeding and mulching will be measured by the acre
 - **b.** Temporary slope drains will be measured by the linear foot
- **c.** Temporary benches, dikes, dams, and sediment basins will be measured by the cubic yard of excavation performed, including necessary cleaning of sediment basins, and the cubic yard of embankment placed as directed by the Engineer.
 - **d.** All fertilizing will be measured by the ton.
 - e. Installation and removal of silt fence will be measured by the linear foot
- **102-4.2** Control work performed for protection of construction areas outside the construction limits, such as borrow and waste areas, haul roads, equipment and material storage sites, and temporary plant sites, will not be measured and paid for directly but shall be considered as a subsidiary obligation of the Contractor.

BASIS OF PAYMENT

102-5.1 Accepted quantities of temporary water pollution, soil erosion, and siltation control work ordered by the Engineer and measured as provided in paragraph 102-4.1 will be paid for under:

Item C-102-1 Temporary Construction Entrance - per each
Item C-102-5.1b Temporary linear fiber roll - per linear foot

Where other directed work falls within the specifications for a work item that has a contract price, the units of work shall be measured and paid for at the contract unit price bid for the various items.

Temporary control features not covered by contract items that are ordered by the Engineer will be paid for in accordance with Section 90, paragraph 90-05 *Payment for Extra Work*.

REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

Advisory Circulars (AC)

AC 150/5200-33 Hazardous Wildlife Attractants on or Near Airports
AC 150/5370-2 Operational Safety on Airports During Construction

ASTM International (ASTM)

ASTM D6461 Standard Specification for Silt Fence Materials

United States Department of Agriculture (USDA)

FAA/USDA Wildlife Hazard Management at Airports, A Manual for Airport Personnel

END OF ITEM C-102

ITEM C-105 MOBILIZATION

DESCRIPTION

- **105-1 Description.** This item of work shall consist of, but is not limited to, work and operations necessary for the movement of personnel, equipment, material and supplies to and from the project site for work on the project except as provided in the contract as separate pay items.
- 105-2 Mobilization limit. Mobilization shall be limited to 10 percent of the total project cost as bid.
- **105-3 Posted notices.** Prior to commencement of construction activities, the Contractor must post the following documents in a prominent and accessible place where they may be easily viewed by all employees of the prime Contractor and by all employees of subcontractors engaged by the prime Contractor: Equal Employment Opportunity (EEO) Poster "Equal Employment Opportunity is the Law" in accordance with the Office of Federal Contract Compliance Programs Executive Order 11246, as amended; Davis Bacon Wage Poster (WH 1321) DOL "Notice to All Employees" Poster; and Applicable Davis-Bacon Wage Rate Determination. These notices must remain posted until final acceptance of the work by the Owner.
- **105-4 Engineer field office.** An Engineer/RPR field office is not required.

METHOD OF MEASUREMENT

- **105-5 Basis of measurement and payment.** Based upon the contract lump sum price for "Mobilization" partial payments will be allowed as follows:
 - a. With first pay request, 25%.
 - **b.** When 25% or more of the original contract is earned, an additional 25%.
 - **c.** When 50% or more of the original contract is earned, an additional 40%.
- **d.** After Final Inspection, Staging area clean-up and delivery of all Project Closeout materials as required by Section 90, paragraph 90-11, *Contractor Final Project Documentation*, the final 10%.

BASIS OF PAYMENT

105-6 Payment will be made under:

Item C-105 Mobilization

REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

Office of Federal Contract Compliance Programs (OFCCP)

Executive Order 11246, as amended

EEOC-P/E-1 – Equal Employment Opportunity is the Law Poster

United States Department of Labor, Wage and Hour Division (WHD)

WH 1321 – Employee Rights under the Davis-Bacon Act Poster

END OF ITEM C-105

ITEM P-151 CLEARING AND GRUBBING

DESCRIPTION

- **151-1.1** This item shall consist of clearing and grubbing and disturbance for skirt installation, including the disposal of materials, for all areas within the limits of disturbance (LOD) shown on the plans or as required by the Engineer.
- **a. Clearing and grubbing** shall consist of clearing the surface of the ground of the designated areas of all trees, stumps, down timber, logs, snags, brush, undergrowth, hedges, heavy growth of grass or weeds, fences, structures, debris, and rubbish of any nature, natural obstructions or such material which in the opinion of the Engineer is unsuitable for the installation of fence posts or fence line, including the grubbing of stumps, roots, matted roots, foundations, rocks or boulders and the disposal from the project of all spoil materials resulting from clearing and grubbing. All tree and vegetative material (living and non-living) gathered by clearing operations shall be mulched and spread as defined in P-151-1.1b.

Limits of clearing and grubbing are limited to those shown on the plans. Contractor to confirm limits of necessary clearing and grubbing with the Engineer/Owners Representative prior to completion of the work. Clearing and grubbing shall be paid for by the acre.

- **b. Disturbance for Skirt Installation** must be minimized to that <u>only needed to achieve</u> <u>installation of fence fabric unless otherwise shown on the plans.</u> Limits of disturbance to install the wildlife deterrent skirt shall be considered incidental to P-164.
- **c. Isolated Tree Removal** shall consist of removing of existing trees (living and not living), tree stumps, branches, fallen trees, tree debris and all other vegetation (living and not living) located within the disturbance limits required for skirt installation unless noted otherwise. Tree debris shall be removed from the Airport.

CONSTRUCTION METHODS

151-2.1 General. The areas denoted on the plans to be cleared and grubbed shall be staked on the ground by the Contractor, prior to the start of construction and shall remain throughout construction to clearly identify limits of clearing and grubbing.

All materials collected by clearing and grubbing shall be disposed of offsite. In no case shall any discarded materials be left in windrows or piles adjacent to or within the airport limits. The manner and location of disposal of materials shall be subject to the approval of the Engineer and shall not create an unsightly or objectionable view. When the Contractor is required to locate a disposal area outside the airport property limits, the Contractor shall obtain and file with the Engineer permission in writing from the property owner for the use of private property for this purpose.

Burning shall not be allowed. Blasting shall not be allowed.

The removal of existing structures and utilities required to permit orderly progress of work shall be accomplished by local agencies, unless otherwise shown on the plans. Whenever a utility pole, pipeline, conduit, sewer, roadway, or other utility is encountered and must be removed or relocated, the Contractor shall advise the Engineer who will notify the proper local authority or owner to secure prompt action.

151-2.2 Clearing and grubbing. In areas designated to be cleared and grubbed, all stumps, roots, buried logs, brush, grass, and other unsatisfactory materials shall be removed.

151-2.3 Isolated Tree Removal. The contractor shall remove existing trees (living and not living), tree stumps, branches, fallen trees, tree debris and all other vegetation (living and not living) located within the disturbance limits for skirt installation unless noted otherwise.

METHOD OF MEASUREMENT

- **151-3.1** The quantities of clearing and grubbing shall be paid for by the acre.
- **151-3.2** The quantity of Isolated Tree Removal as shown on the plans or as ordered by the Engineer shall be measured per each. Quantity shall be confirmed with as-built survey prepared by a North Carolina licensed professional surveyor.

BASIS OF PAYMENT

- **151-4.1** Payment shall be made at the contract unit price per acre for clearing and grubbing. This price shall be full compensation for furnishing all materials and for all labor, equipment, tools, and incidentals necessary to complete the item.
- **151-4.** Payment shall be made at the contract unit price per each for Isolated Tree Removal. This price shall be full compensation for furnishing all materials and for all labor, equipment, tools, and incidentals necessary to complete the item.

Payment will be made under:

Item P-151-1 – Clearing and Grubbing - per acre Item P-151-2 – Isolated Tree Removal – per each

END OF SECTION

ITEM P-610 CONCRETE FOR MISCELLANEOUS STRUCTURES

DESCRIPTION

610-1.1 This item shall consist of concrete and reinforcement as needed for fence posts, prepared and constructed in accordance with these specifications.

MATERIALS

610-2.1 General. Only approved materials, conforming to the requirements of these specifications, shall be used in the work. Materials may be subject to inspection and tests at any time during their preparation or use. The source of all materials shall be approved by the Resident Project Representative (RPR) before delivery or use in the work. Representative preliminary samples of the materials shall be submitted by the Contractor, when required, for examination and test. Materials shall be stored and handled to ensure preservation of their quality and fitness for use and shall be located to facilitate prompt inspection. All equipment for handling and transporting materials and concrete must be clean before any material or concrete is placed in them.

The use of pit-run aggregates shall not be permitted unless the pit-run aggregate has been screened and washed, and all fine and coarse aggregates stored separately and kept clean. The mixing of different aggregates from different sources in one storage stockpile or alternating batches of different aggregates shall not be permitted.

a. Reactivity. Fine aggregate and coarse aggregates to be used in all concrete shall have been tested separately within six months of the project in accordance with ASTM C1260. Test results shall be submitted to the RPR. The aggregate shall be considered innocuous if the expansion of test specimens, tested in accordance with ASTM C1260, does not exceed 0.08% at 14 days (16 days from casting). If the expansion either or both test specimen is greater than 0.08% at 14 days, but less than 0.20%, a minimum of 25% of Type F fly ash, or between 40% and 55% of slag cement shall be used in the concrete mix.

If the expansion is greater than 0.20%, the aggregates shall not be used, and test results for other aggregates must be submitted for evaluation; or aggregates that meet P-501 reactivity test requirements may be utilized.

610-2.2 Coarse aggregate. The coarse aggregate for concrete shall meet the requirements of ASTM C33 and the requirements of Table 4, Class Designation 5S; and the grading requirements shown below, as required for the project.

Coarse Aggregate Grading Requirements

| Maximum Aggregate Size | ASTM C33, Table 3 Grading Requirements (Size No.) |
|--|--|
| 1 1/2 inch (37.5 mm) | 467 or 4 and 67 |
| 1 inch (25 mm) | 57 |
| ³ / ₄ inch (19 mm) | 67 |
| ½ inch (12.5 mm) | 7 |

610-2.2.1 Coarse Aggregate susceptibility to durability (D) cracking. Coarse aggregate may only be accepted from sources that have a 20-year service history for the same gradation to be supplied with no history of D-Cracking. Aggregates that do not have a 20-year record of service free from major repairs (less than 5% of slabs replaced) in similar conditions without D-cracking shall not be used unless the material currently being produced has a durability factor greater than or equal to 95 per ASTM C666. The Contractor shall submit a current certification and test results to verify the aggregate acceptability. Test results will only be accepted from a State Department of Transportation (DOT) materials laboratory or an accredited laboratory. Certification and test results which are not dated or which are over one (1) year old or which are for different gradations will not be accepted.

Crushed granite, calcite cemented sandstone, quartzite, basalt, diabase, rhyolite or trap rock are considered to meet the D-cracking test requirements but must meet all other quality tests specified in Item P-501.

610-2.3 Fine aggregate. The fine aggregate for concrete shall meet all fine aggregate requirements of ASTM C33.

The fine aggregate shall be well graded from fine to coarse and shall meet the requirements of the table below when tested in accordance with ASTM C136:

Gradation For Fine Aggregate

| Sieve Designation | Percentage by Weight | | |
|-------------------|----------------------|--|--|
| (square openings) | Passing Sieves | | |
| 3/8" | 100 | | |
| No. 4 | 95-100 | | |
| No. 16 | 45-80 | | |
| No. 30 | 25-55 | | |
| No. 50 | 10-30 | | |
| No. 100 | 2-10 | | |

610-2.4 Cement. Cement shall conform to the requirements of ASTM C150 - Type I, IA, II, IIA, III, or IIIA.

If aggregates are deemed innocuous when tested in accordance with paragraph 610-2.1.a.1 and accepted in accordance with paragraph 610-2.1.a.3, higher equivalent alkali content in the cement may be allowed if approved by the Engineer and FAA. If cement becomes partially set or contains lumps of caked cement, it shall be rejected. Cement salvaged from discarded or used bags shall not be used.

The Contractor shall furnish vendors' certified test reports for each carload, or equivalent, of cement shipped to the project. The report shall be delivered to the Engineer before use of the cement is granted. All test reports shall be subject to verification by testing sample materials received for use on the project.

610-2.5 Cementitious materials.

a. Fly ash. Fly ash shall meet the requirements of ASTM C618, except for loss of ignition, where the maximum shall be less than 6%. Fly ash shall have a Calcium Oxide (CaO) content of less than 15% and a total available alkali content less than 3% per ASTM C311. Fly ash produced in furnace operations using liming materials or soda ash (sodium carbonate) as an additive shall not be acceptable. The Contractor shall furnish the previous three most recent, consecutive ASTM C618 reports for each source of fly ash proposed in the concrete mix and shall furnish each additional report as they become available during the project. The reports can be used for acceptance or the material may be tested independently by the RPR.

- **b. Slag cement (ground granulated blast furnace (GGBF)).** Slag cement shall conform to ASTM C989, Grade 100 or Grade 120. Slag cement shall be used only at a rate between 25% and 55% of the total cementitious material by mass.
- **610-2.6 Water.** Water used in mixing or curing shall be from potable water sources. Other sources shall be tested in accordance with ASTM C1602 prior to use.
- **610-2.7 Admixtures.** The Contractor shall submit certificates indicating that the material to be furnished meets all of the requirements indicated below. In addition, the RPR may require the Contractor to submit complete test data from an approved laboratory showing that the material to be furnished meets all of the requirements of the cited specifications. Subsequent tests may be made of samples taken by the RPR from the supply of the material being furnished or proposed for use on the work to determine whether the admixture is uniform in quality with that approved.
- **a. Air-entraining admixtures.** Air-entraining admixtures shall meet the requirements of ASTM C260 and shall consistently entrain the air content in the specified ranges under field conditions. The air-entrainment agent and any water reducer admixture shall be compatible.
- **b. Water-reducing admixtures.** Water-reducing admixture shall meet the requirements of ASTM C494, Type A, B, or D. ASTM C494, Type F and G high range water reducing admixtures and ASTM C1017 flowable admixtures shall not be used.
- **c. Other chemical admixtures**. The use of set retarding and set-accelerating admixtures shall be approved by the RPR. Retarding shall meet the requirements of ASTM C494, Type A, B, or D and set-accelerating shall meet the requirements of ASTM C494, Type C. Calcium chloride and admixtures containing calcium chloride shall not be used.
- **610-2.8 Premolded joint material.** Premolded joint material for expansion joints shall meet the requirements of ASTM D1751.
- **610-2.9 Joint filler.** The filler for joints shall meet the requirements of Item P-605, unless otherwise specified.
- **610-2.10 Steel reinforcement.** Reinforcing shall consist of welded steel wire fabric conforming to the requirements of ASTM A1064.
- **610-2.11 Materials for curing concrete.** Curing materials shall conform to one of the following:

Materials for Curing

| Waterproof paper | ASTM C171 |
|---|-----------|
| Clear or white Polyethylene Sheeting | ASTM C171 |
| White-pigmented Liquid Membrane-Forming Compound, Type 2, Class B | ASTM C309 |

CONSTRUCTION METHODS

610-3.1 General. The Contractor shall furnish all labor, materials, and services necessary for, and incidental to, the completion of all work as shown on the drawings and specified here. All machinery and equipment used by the Contractor on the work, shall be of enough size to meet the requirements of the work. All work shall be subject to the inspection and approval of the RPR.

610-3.2 Concrete Mixture. The concrete shall develop a compressive strength of 4000 psi in 28 days as determined by test cylinders made in accordance with ASTM C31 and teste d in accordance with ASTM C39. The concrete shall contain not less than 470 pounds of cementitious material per cubic yard (280 kg per cubic meter). The water cementitious ratio shall not exceed 0.45 by weight. The air content of the concrete shall be 5% +/- 1.2% as determined by ASTM C231 and shall have a slump of not more than 4 inches (100 mm) as determined by ASTM C143.

610-3.3 Mixing. Concrete may be mixed at the construction site, at a central point, or wholly or in part in truck mixers. The concrete shall be mixed and delivered in accordance with the requirements of ASTM C94 or ASTM C685.

The concrete shall be mixed only in quantities required for immediate use. Concrete shall not be mixed while the air temperature is below 40°F (4°C) without the RPRs approval. If approval is granted for mixing under such conditions, aggregates or water, or both, shall be heated and the concrete shall be placed at a temperature not less than 50°F (10°C) nor more than 100°F (38°C). The Contractor shall be held responsible for any defective work, resulting from freezing or injury in any manner during placing and curing, and shall replace such work at his expense.

Retempering of concrete by adding water or any other material is not permitted.

The rate of delivery of concrete to the job shall be sufficient to allow uninterrupted placement of the concrete.

610-3.4 Forms. Concrete shall not be placed until all the forms and reinforcements have been inspected and approved by the RPR. Forms shall be of suitable material and shall be of the type, size, shape, quality, and strength to build the structure as shown on the plans. The forms shall be true to line and grade and shall be mortar-tight and sufficiently rigid to prevent displacement and sagging between supports. The surfaces of forms shall be smooth and free from irregularities, dents, sags, and holes. The Contractor shall be responsible for their adequacy.

The internal form ties shall be arranged so no metal will show in the concrete surface or discolor the surface when exposed to weathering when the forms are removed. All forms shall be wetted with water or with a non-staining mineral oil, which shall be applied immediately before the concrete is placed. Forms shall be constructed so they can be removed without injuring the concrete or concrete surface.

- **610-3.5 Placing reinforcement.** All reinforcement shall be accurately placed, as shown on the plans, and shall be firmly held in position during concrete placement. Bars shall be fastened together at intersections. The reinforcement shall be supported by approved metal chairs. Shop drawings, lists, and bending details shall be supplied by the Contractor when required.
- **610-3.6 Embedded items.** Before placing concrete, all embedded items shall be firmly and securely fastened in place as indicated. All embedded items shall be clean and free from coating, rust, scale, oil, or any foreign matter. The concrete shall be spaded and consolidated around and against embedded items. The embedding of wood shall not be allowed.
- **610-3.7 Concrete Consistency**. The Contractor shall monitor the consistency of the concrete delivered to the project site; collect each batch ticket; check temperature; and perform slump tests on each truck at the project site in accordance with ASTM C143.
- **610-3.8 Placing concrete.** All concrete shall be placed during daylight hours, unless otherwise approved. The concrete shall not be placed until the depth and condition of foundations, the adequacy of forms and

falsework, and the placing of the steel reinforcing have been approved by the RPR. Concrete shall be placed as soon as practical after mixing, but in no case later than one (1) hour after water has been added to the mix. The method and manner of placing shall avoid segregation and displacement of the reinforcement. Troughs, pipes, and chutes shall be used as an aid in placing concrete when necessary. The concrete shall not be dropped from a height of more than 5 feet (1.5 m). Concrete shall be deposited as nearly as practical in its final position to avoid segregation due to rehandling or flowing. Do not subject concrete to procedures which cause segregation. Concrete shall be placed on clean, damp surfaces, free from running water, or on a properly consolidated soil foundation.

- **610-3.9 Vibration.** Vibration shall follow the guidelines in American Concrete Institute (ACI) Committee 309R. Guide for Consolidation of Concrete.
- **610-3.10 Joints.** Joints shall be constructed as indicated on the plans.
- **610-3.11 Finishing.** All exposed concrete surfaces shall be true, smooth, and free from open or rough areas, depressions, or projections. All concrete horizontal plane surfaces shall be brought flush to the proper elevation with the finished top surface struck-off with a straightedge and floated.
- **610-3.12** Curing and protection. All concrete shall be properly cured in accordance with the recommendations in American Concrete Institute (ACI) 308R, Guide to External Curing of Concrete. The concrete shall be protected from damage until project acceptance.
- **610-3.13** Cold weather placing. When concrete is placed at temperatures below 40°F (4°C), follow the cold weather concreting recommendations found in ACI 306R, Cold Weather Concreting.
- **610-3.14 Hot weather placing.** When concrete is placed in hot weather greater than 85°F (30 °C), follow the hot weather concreting recommendations found in ACI 305R, Hot Weather Concreting.

QUALITY ASSURANCE (QA)

610-4.1 Quality Assurance sampling and testing. Concrete for each day's placement will be accepted based on the compressive strength specified in paragraph 610-3.2. The RPR will sample the concrete in accordance with ASTM C172; test the slump in accordance with ASTM C143; make and cure compressive strength specimens in accordance with ASTM C31; and test in accordance with ASTM C39. The QA testing agency will meet the requirements of ASTM C1077.

The Contractor shall provide adequate facilities for the initial curing of cylinders.

610-4.2 Defective work. Any defective work that cannot be satisfactorily repaired as determined by the RPR, shall be removed and replaced at the Contractor's expense. Defective work includes, but is not limited to, uneven dimensions, honeycombing and other voids on the surface or edges of the concrete.

METHOD OF MEASUREMENT

610-5.1 Concrete shall be considered incidental and no separate measurement shall be made.

BASIS OF PAYMENT

610-6.1 Concrete shall be considered incidental and no separate payment shall be made. This price shall be full compensation for furnishing all materials including reinforcement and embedded items and for all

preparation, delivery, installation, and curing of these materials, and for all labor, equipment, tools, and incidentals necessary to complete the item.

Payment will be made under:

Item P-610-6.1 Concrete: incidental to other work items

REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

| ASTM International (AS |
|------------------------|
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| IM International (ASIM) | |
|-------------------------|---|
| ASTM A184 | Standard Specification for Welded Deformed Steel Bar Mats for Concrete Reinforcement |
| ASTM A615 | Standard Specification for Deformed and Plain Carbon-Steel Bars for |
| | Concrete Reinforcement |
| ASTM A704 | Standard Specification for Welded Steel Plain Bar or Rod Mats for |
| | Concrete Reinforcement |
| ASTM A706 | Standard Specification for Low-Alloy Steel Deformed and Plain Bars for Concrete Reinforcement |
| ASTM A775 | Standard Specification for Epoxy-Coated Steel Reinforcing Bars |
| ASTM A884 | Standard Specification for Epoxy-Coated Steel Wire and Welded Wire |
| | Reinforcement |
| ASTM A934 | Standard Specification for Epoxy-Coated Prefabricated Steel Reinforcing Bars |
| ASTM A1064 | Standard Specification for Carbon-Steel Wire and Welded Wire |
| 710111111001 | Reinforcement, Plain and Deformed, for Concrete |
| ASTM C31 | Standard Practice for Making and Curing Concrete Test Specimens in the |
| | Field |
| ASTM C33 | Standard Specification for Concrete Aggregates |
| ASTM C39 | Standard Test Method for Compressive Strength of Cylindrical Concrete |
| 1121111 009 | Specimens |
| ASTM C94 | Standard Specification for Ready-Mixed Concrete |
| ASTM C136 | Standard Test Method for Sieve or Screen Analysis of Fine and Coarse |
| | Aggregates |
| ASTM C114 | Standard Test Methods for Chemical Analysis of Hydraulic Cement |
| ASTM C136 | Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates |
| ASTM C143 | Standard Test Method for Slump of Hydraulic-Cement Concrete |
| ASTM C150 | Standard Specification for Portland Cement |
| ASTM C171 | Standard Specification for Sheet Materials for Curing Concrete |
| ASTM C172 | Standard Practice for Sampling Freshly Mixed Concrete |
| ASTM C231 | Standard Test Method for Air Content of Freshly Mixed Concrete by the |
| | Pressure Method |
| ASTM C260 | Standard Specification for Air-Entraining Admixtures for Concrete |
| ASTM C309 | Standard Specification for Liquid Membrane-Forming Compounds for |
| | Curing Concrete |
| ASTM C311 | Standard Test Methods for Sampling and Testing Fly Ash or Natural |
| | Pozzolans for Use in Portland-Cement Concrete |
| ASTM C494 | Standard Specification for Chemical Admixtures for Concrete |
| ASTM C618 | Standard Specification for Coal Fly Ash and Raw or Calcined Natural |
| | Pozzolan for Use in Concrete |
| ASTM C666 | Standard Test Method for Resistance of Concrete to Rapid Freezing and |
| | Thawing |
| | - |

| ASTM C685 | Standard Specification for Concrete Made by Volumetric Batching and |
|------------|--|
| | Continuous Mixing |
| ASTM C989 | Standard Specification for Slag Cement for Use in Concrete and Mortars |
| ASTM C1017 | Standard Specification for Chemical Admixtures for Use in Producing |
| | Flowing Concrete |
| ASTM C1077 | Standard Practice for Agencies Testing Concrete and Concrete Aggregates |
| | for Use in Construction and Criteria for Testing Agency Evaluation |
| ASTM C1157 | Standard Performance Specification for Hydraulic Cement |
| ASTM C1260 | Standard Test Method for Potential Alkali Reactivity of Aggregates |
| | (Mortar-Bar Method) |
| ASTM C1365 | Standard Test Method for Determination of the Proportion of Phases in |
| | Portland Cement and Portland-Cement Clinker Using X-Ray Powder |
| | Diffraction Analysis |
| ASTM C1602 | Standard Specification for Mixing Water Used in the Production of |
| | Hydraulic Cement Concrete |
| ASTM D1751 | Standard Specification for Preformed Expansion Joint Filler for Concrete |
| | Paving and Structural Construction (Nonextruding and Resilient Asphalt |
| | Types) |
| ASTM D1752 | Standard Specification for Preformed Sponge Rubber Cork and Recycled |
| | PVC Expansion Joint Fillers for Concrete Paving and Structural |
| | Construction |

American Concrete Institute (ACI) ACI 305R Ho

| ACI 305R | Hot Weather Concreting |
|----------|--------------------------------------|
| ACI 306R | Cold Weather Concreting |
| ACI 308R | Guide to External Curing of Concrete |
| ACI 309R | Guide for Consolidation of Concrete |

END OF ITEM P-610

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SECTION 32 31 19

DECORATIVE METAL FENCES AND GATES

PART 1 GENERAL

- 1.1 SUMMARY
 - A. Section Includes:
 - 1. Decorative Fences.
 - 2. Drive through and Pedestrian Gates
 - 3. Gate Operators and Controls
- 1.2 UNIT PRICE MEASUREMENT AND PAYMENT
 - A. Type I Ornamental Fence (9' Height)
 - 1. Basis of Measurement: Per linear foot.
 - 2. Basis of Payment: Includes all components of the wildlife exclusion fence listed in this specification and detailed on the plan set.
 - B. Type II Ornamental Fence (9' Height)
 - 1. Basis of Measurement: per linear foot.
 - 2. Basis of Payment: Includes all components of the wildlife exclusion fence listed in this specification and detailed on the plan set.
 - C. Automatic Drive Through Gate 9' Metal w/ Key Pad (20' Opening):
 - 1. Basis of Measurement: By each.
 - 2. Basis of Payment: Includes frame posts, rails, accessories, hardware, keypad and keypad pedestal & wiring, bollards, gate operator, concrete pads for keypad and operator, loop detector system, installation, excavation, and concrete footings.
 - D. Keypad Operated Metal Pedestrian Gate (4' Opening):
 - 1. Basis of Measurement: By each.
 - 2. Basis of Payment: Includes frame posts, rails, accessories, outdoor rated battery operated keypad and handle, keypad box mount, installation, excavation, and concrete footings.
 - E. Power Connection for Automatic Drive Through Gate—Gate & Key Pad:
 - 1. Basis of Measurement: By each.

- 2. Basis of Payment: Includes power supply connections as required by the manufacturer, installing electric line underground to nearest acceptable power source, and energizing equipment (operator, backup battery, keypads).
- F. Power Connection for Pedestrian Gate– Gate & Key Pad:
 - 1. Basis of Measurement: No separate measurement. Cost shall be incidental to pedestrian gate.
 - 2. Basis of Payment: No separate payment. Cost shall be incidental to pedestrian gate. Includes power supply connections as required by the manufacturer, installing electric line underground to nearest acceptable power source, and energizing equipment (operator, backup battery, keypads).

1.3 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Shop Drawings: For gates. Include plans, elevations, sections, details, wiring and attachments to other work.
- C. Samples: For each fence material and for each color specified.
- D. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency, for decorative aluminum fences, including finish, indicating compliance with referenced standard.
- E. Maintenance Data: For gate operators to include in maintenance manuals.

1.4 QUALITY ASSURANCE

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- B. UL Standard: Provide gate operators that comply with UL 325.
- C. Emergency Access Requirements: Comply with requirements of authorities having jurisdiction for automatic gate operators on gates that must provide emergency access.

PART 2 PRODUCTS

2.1 STEEL MATERIAL

A. Steel material for fence panels and posts shall conform to the requirements of ASTM A653/A653M, with a minimum yield strength of 45,000 psi (310 MPa) and a minimum zinc (hot-dip galvanized) coating weight of 0.90 oz/ft2 (276 g/m2), Coating Designation G-90.

2.2 COATING MATERIALS

A. Per manufacturer's requirements.

2.3 MISCELLANEOUS MATERIALS

- A. Concrete for foundations: Class A Concrete conforming to Section 1000 of the NCDOT Standard Specifications.
 - 1. Compressive strength of 3,000 psi at 28 days.
 - 2. Air entrained.
 - 3. Water cement ratio of 0.488 with rounded aggregate and 0.532 with angular aggregate.
 - 4. Maximum slump of 3.5 inch for non-vibrated concrete and 4 inch for vibrated concrete.
 - 5. Minimum cement content of 564 lbs per cubic yard for non-vibrated and 602 lbs per cubic yard for vibrated concrete.
- B. Nonshrink Grout: Factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C 1107 and specifically recommended by manufacturer for exterior applications.

2.4 GROUNDING MATERIALS

- A. Grounding Conductors: Bare, solid wire for No. 6 AWG and smaller; stranded wire for No. 4 AWG and larger.
- B. Material above Finished Grade: Copper.
- C. Material on or below Finished Grade: Copper.
- D. Grounding Connectors and Grounding Rods: Comply with UL 467.

2.5 DECORATIVE FENCES

- A. Decorative Steel Fence: Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings by Ameristar Fence Products Inc (Montage Commercial "Classic") or approved equal that matches existing metal fence adjacent to the terminal building.
- B. Decorative Steel Cantilever Gate: Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings by Ameristar Fence Products Inc. (TransPort II design, Classic style. The system shall include all components (i.e., tracks, uprights, bracing, pickets, hardware, fittings and fasteners) required.

- C. Decorative Steel Manual Gate: Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings by Ameristar Fence Products Inc (Montage Commercial "Classic") or approved equal.
- D. Posts, Caps, Rails & Pickets and spacing shall be as indicated on plans.
- E. Fasteners: Manufacturer's standard tamperproof, corrosion-resistant, color-coated fasteners matching fence components with resilient polymer washers.
- F. Fabrication: Assemble fences into sections by welding pickets to rails, per manufactures recommendations and specifications
- G. Finish: Fence color shall be Black and finish shall meet the requirements ASTM F2408

2.6 GATE OPERATORS

- A. General: Provide factory-assembled automatic operating system designed for gate size, type, weight, and operation frequency. Provide operation control system with characteristics suitable for Project conditions, with remote-control stations, safety devices, and weatherproof enclosures; coordinate electrical requirements with building electrical system.
 - 1. Provide operator with UL approved components.
 - 2. Provide controllers, electrical devices, and wiring that comply with requirements specified applicable project electrical specifications.
- B. Motors: Comply with NEMA designation, temperature rating, service factor, enclosure type, and efficiency requirements for motors specified in applicable project electrical specifications.
 - 1. Motor Sizes: Minimum size as indicated. If not indicated, large enough so driven load will not require motor to operate in service factor range above 1.0.
- C. Gate Operators: Commercial/Industrial Duty, Concrete base mounted Hydraulic Slide Gate Operator for Cantilever Gate.
- D. Remote Controls: Electric controls separated from gate and motor and drive mechanism, with NEMA ICS 6, Type 4 enclosure for concrete base mounting, and with space for additional optional equipment.
 - 1. Vehicle Detector: Loop system including automatic closing timer with adjustable time delay before closing, and timer cutoff switch designed to open and close gate.
- E. Cantilever Gate Keypad: Digital Key Pad for code entry, mountable to 42" pad mounted gooseneck stand or double keypad configuration as detailed on the plans. Housing to match finish and color of gate. Contractor to submit for owner approval prior to installation. Keypads shall be provided by Linear Pro Access or approved equal products by the engineer.

1. Obstruction Detection Devices: Provide each motorized gate with automatic safety sensor(s). Activation of sensor(s) causes operator to immediately reverse gate in both opening and closing cycles and hold until clear of obstruction.

2. Accessories:

- a. Warning Module: Audio, ADA/ABA-compliant, strobe-light alarm.
- b. Battery Backup System: Battery-powered drive and access-control system.
- c. Instructional, Safety, and Warning Labels and Signs: According to UL 325.
- d. Gate operator shall be equipped with a visual and audible alarm to sound at the gate location, to be activated if the gate is forced open, held open, or not closed properly.

PART 3 EXECUTION

3.1 DECORATIVE FENCE INSTALLATION

- A. Install fences according to manufacturer's written instructions.
- B. Install fences by setting posts as indicated and fastening rails and infill panels to posts.
- C. Post Excavation: Excavate holes to a diameter of not less than 4 times post size and a depth of not less than 24 inches plus 3 inches for each foot or fraction of a foot that fence height exceeds 4 feet.
- D. Post Setting: Set posts in concrete at indicated spacing into firm, undisturbed soil.
 - 1. Hold posts in position during setting with concrete or mechanical devices.
 - 2. Concrete Fill: Place concrete around posts and sleeves and vibrate or tamp for consolidation. Protect aboveground portion of posts from concrete splatter.
 - 3. Posts Set in Concrete: Extend post to within 6 inches (150 mm) of specified excavation depth, but not closer than 3 inches (75 mm) to bottom of concrete.
 - 4. Space posts uniformly at 8 feet o.c.

3.2 GATE INSTALLATION

A. Install gates according to manufacturer's written instructions, level, plumb, and secure for full opening without interference. Attach hardware using tamper-resistant or concealed means. Install ground-set items in concrete for anchorage. Adjust hardware for smooth operation and lubricate where necessary.

3.3 GATE OPERATOR INSTALLATION

A. General: Install gate operators according to manufacturer's written instructions, aligned and true to fence line and grade.

- B. Concrete Bases: Cast-in-place or precast concrete, dimensioned and reinforced according to gate operator component manufacturer's written instructions.
- C. Vehicle Loop Detector System: Bury and seal wire loop according to manufacturer's written instructions. Connect to equipment operated by detector.
- D. Comply with NFPA 70 and manufacturer's written instructions for grounding of electric-powered motors, controls, and other devices.

3.4 GROUNDING AND BONDING

- A. Fence Grounding: Install at maximum intervals of 1,500 feet except as follows:
 - 1. Fences within 100 Feet of Buildings, Structures, Walkways, and Roadways: Ground at maximum intervals of 750 feet.
 - a. Gates and Other Fence Openings: Ground fence on each side of opening. Bond metal gates to gate posts.
- B. Grounding Method: At each grounding location, drive a grounding rod vertically until the top is 6 inches below finished grade. Connect rod to fence with No. 6 AWG conductor. Connect conductor to each fence component at the grounding location.
- C. Bonding Method for Gates: Connect bonding jumper between gate post and gate frame.
- D. Connections: Make connections so possibility of galvanic action or electrolysis is minimized. Select connectors, connection hardware, conductors, and connection methods so metals in direct contact will be galvanically compatible.
- E. Bonding to Lightning-Protection System: If fence terminates at lightning-protected building or structure, ground the fence and bond the fence grounding conductor to lightning-protection down conductor or lightning-protection grounding conductor, complying with NFPA 780.

3.5 FIELD QUALITY CONTROL

A. Grounding-Resistance Testing: Engage a qualified testing agency to perform tests and inspections.

END OF SECTION 32 31 19

ITEM F-164 WILDLIFE EXCLUSION FENCE

DESCRIPTION

164-1.1 This item covers the requirements for furnishing materials and constructing new wire wildlife exclusion fences and gates with steel posts and furnishing and installing chain-link fence fabric underground along the wire fence line in accordance with the details included here and as shown on the plans. The fence to be erected shall be woven wire fencing topped by three strands of barbed wire, as indicated on the plans and in the bid proposal.

MATERIALS

164-2.0 Wire.

- **a. Woven wire (zinc-coated).** The woven wire fence shall be 23-bar, 120-inch (3 m) field fence with top and bottom wires No. 12-1/2 gauge, and filler and stay wires No. 12-1/2 gauge. Stay wires shall be spaced 6 inches (150 mm) apart. All wires shall be smooth galvanized steel wire, conforming to ASTM A116. All wires shall be twice dipped and shall be spaced as shown on the plans.
 - **b.** Chain-Link fence Fabric. Chain-link fence fabric is not required.
- **c.** Chain link skirt fabric. The fabric shall be woven with a 9-gauge galvanized steel wire in a 2-inch (50-mm) mesh and shall meet the requirements of ASTM A392, Class II. The fabric shall be 5 feet wide.
- **d. Barbed wire (zinc-coated).** Zinc-coated barbed wire shall be 2-strand twisted No. 12-1/2-gauge galvanized steel wire with 4-point barbs of No. 14 gauge galvanized steel wire. All wire shall conform to ASTM A121, Type A. The barbs shall be spaced approximately 5 inches (125 mm) apart.
- **e. Wire ties and tension wires.** Wire fabric ties, wire ties, and tension wire for a given type of fabric shall be the same material as the fabric type. The tension wire shall be 7-gauge coiled spring wire coated similarly to the respective wire fabric being used. The fabric shall be attached to the tension wire as shown on the plans, but not greater than every four feet. Wire fabric ties shall be hog rings of galvanized steel wire not less than 9-gauge. All material shall conform to Federal Specification RR-F-191/4.
- **f. Bracing wire (zinc-coated).** Wire used for cable for bracing shall be No. 9 smooth galvanized soft wire.
- **164-2.1 Gates and hardware.** Gates shall be constructed of galvanized steel tubing conforming to Federal Specification RR-F-191 and shall be the size shown on the plans. Heavily galvanized hinges and latches for wood posts shall be furnished with each gate. A bolt or lag screw hinge shall be used, and either a wing or butterfly latch shall be furnished. The fabric shall be the same as required for the fence, F-164-2.0.
- **164-2.2 Miscellaneous fittings and hardware.** Miscellaneous steel fittings and hardware for use with zinc-coated steel fabric shall be of commercial grade steel or better quality, wrought or cast as appropriate to the fitting or hardware, and sufficient in strength to provide a balanced design when used with fabric, posts, and wires of the specified quality. All steel fittings and hardware shall be protected with a zinc coating applied in conformance with ASTM A153.
- **164-2.3 Steel posts, rails, and braces**. Line posts, rails, and braces shall conform to the requirements of ASTM F1043 or ASTM F1083 as follows:

Galvanized tubular steel pipe shall conform to the requirements of Group IA, (Schedule 40) coatings conforming to Type A, or Group IC (High Strength Pipe), External coating Type B, and internal coating Type B or D.

Roll Formed Steel Shapes (C-Sections) shall conform to the requirements of Group IIA, and be galvanized in accordance with the requirements of ASTM F1043, Type A.

Hot-Rolled Shapes (H Beams) shall meet the requirements of Group III, and be galvanized in accordance with the requirements of ASTM F1043, Type A.

Aluminum Pipe shall conform to the requirements of Group IB.

Aluminum Shapes shall conform to the requirements of Group IIB.

Vinyl or polyester coated steel shall conform to the requirements of ASTM F1043, Paragraph 7.3, Optional Supplemental Color Coating.

Composite posts shall conform to the strength requirements of ASTM F1043 or ASTM F1083. The strength loss of composite posts shall not exceed 10% when subjected to 3,600 hours of exposure to light and water in accordance with ASTM G152, ASTM G153, ASTM G154, and ASTM G155.

Posts, rails, and braces furnished for use in conjunction with aluminum alloy fabric shall be aluminum alloy or composite.

Posts, rails, and braces, with the exception of galvanized steel conforming to ASTM F1043 or ASTM F1083, Group 1A, Type A, or aluminum alloy, shall demonstrate the ability to withstand testing in salt spray in accordance with ASTM B117 as follows:

- External: 1,000 hours with a maximum of 5% red rust.
- Internal: 650 hours with a maximum of 5% red rust.

The dimensions of the posts, rails, and braces shall be in accordance with Tables I through VI of Federal Specification RR-F-191/3.

164-2.6 Staples. The staples shall be No. 9 galvanized steel wire, one inch (25 mm) long for hardwood posts and 1-1/2 inch (38 mm) long for use in softwood posts.

164-2.7 Concrete pads at gates. Not required.

164-2.8 Weed control material. A commercially available weed control material shall be applied at the manufacturer's recommended rate.

164-2.9 Cantilever Sliding Gate. Each roll of fabric shall carry a tag showing the kind of base metal, kind of coating, the gauge of the wire, the length of fencing in the roll, and the name of the manufacturer. Posts, wire, and other fittings shall be identified as to manufacturer, kind of base metal, and kind of coating.

- 1. Fabricate gate leaf frames and tracks of aluminum conforming to ASTM B429 alloy 6063-T6 or as required to meet performance requirements of ASTM F1184.
- 2. Frame Members: Minimum 2 inches 0.91 lb/ft aluminum tubing welded assembly forming rigid, one piece unit.
- 3. Install fabric securely stretched and held in center of tubing.
- 4. Brace cantilever overhang frames with 3/8 inch brace rods. For gate leaf sizes greater than 23 feet, fabricate with additional lateral support rail welded adjacent to top and bottom horizontal rails.
- 5. Provide minimum overhang for each leaf opening size as follows:

| Opening | Overhang |
|-----------------|----------|
| Up to 10'-0" | 6'-6" |
| 10'-0" -14'-0" | 7'-6" |
| 14'-1" -22'-0" | 10'-0" |
| 22'-1" - 30'-0" | 12'-0" |

- 6. Track: Combined, integral track and rail.
- 7. Rail: Aluminum extrusion; minimum total weight of 3.72 lb/ft; designed to withstand reaction load of 2,000 lbs.
- 8. Roller Track Assembly: Two swivel type, zinc, die cast trucks having four, sealed lubricant ball bearing wheels minimum 2 inches diameter by 9/16 inches width designed for same reaction load as rail. Provide two side-rolling wheels for each gate leaf to maintain alignment of truck in track.
- 9. Fasten trucks to post brackets by minimum 7/8 inch diameter, 1/2 inch shank ball bolts.
- 10. Provide galvanized steel guide wheel assemblies consisting of two rubber wheels of minimum 4 inch diameter with oil-impregnated bearings for each supporting post.
- 11. Attach guide wheel assembly to post so bottom horizontal member rolls between wheels and permitting adjustment to maintain plumb gate frames and proper alignment.
- **162-2.10 Gate Operator.** Each roll of fabric shall carry a tag showing the kind of base metal, kind of coating, the gauge of the wire, the length of fencing in the roll, and the name of the manufacturer. Posts, wire, and other fittings shall be identified as to manufacturer, kind of base metal, and kind of coating.
 - A. General: Provide factory-assembled automatic operating system designed for gate size, type, weight, and operation frequency. Provide operation control system with characteristics suitable for Project conditions, with remote-control stations, safety devices, and weatherproof enclosures; coordinate electrical requirements with building electrical system.

Provide operator with UL approved components.

- Provide controllers, electrical devices, and wiring that comply with requirements specified applicable project electrical specifications.
- B. Motors: Comply with NEMA designation, temperature rating, service factor, enclosure type, and efficiency requirements for motors specified in applicable project electrical specifications.
 - 1. Motor Sizes: Minimum size as indicated. If not indicated, large enough so driven load will not require motor to operate in service factor range above 1.0.
- C. Gate Operators: Commercial/Industrial Duty, Concrete base mounted Hydraulic Slide Gate Operator for Cantilever Gate.
- D. Remote Controls: Electric controls separated from gate and motor and drive mechanism, with NEMA ICS 6, Type 4 enclosure for concrete base mounting, and with space for additional optional equipment.

- 1. Vehicle Detector: Loop system including automatic closing timer with adjustable time delay before closing, and timer cutoff switch designed to open and close gate.
- E. Cantilever Gate Key Pad. Digital Key Pad for code entry, mountable to 42" pad mounted gooseneck stand as detailed on the plans. Housing to be black. Contractor to submit for owner/engineer approval prior to installation. Key pads shall be provided by Linear Pro Access or approved equal products by the engineer.
- F. Obstruction Detection Devices: Provide each motorized gate with automatic safety sensor(s). Activation of sensor(s) causes operator to immediately reverse gate in both opening and closing cycles and hold until clear of obstruction.

G. Accessories:

- 1. Warning Module: Audio, ADA/ABA-compliant, strobe-light alarm.
- 2. Battery Backup System: Battery-powered drive and access-control system.
- 3. Instructional, Safety, and Warning Labels and Signs: According to UL 325.
- 4. Gate operator shall be equipped with a visual and audible alarm to sound at the gate location, to be activated if the gate is forced open, held open, or not closed properly.

CONSTRUCTION METHODS

- 164-3.1 General. The fence shall be constructed in accordance with the details on the plans using new materials. All work shall be performed in a workmanlike manner, satisfactory to the RPR. The Contractor shall layout the fence line based on the plans. The Contractor shall span the opening below the fence with barbed wire at all locations where it is not practical to conform the fence to the general contour of the ground surface because of natural or manmade features such as drainage ditches. The new fence shall be permanently tied to the terminals of existing fences whenever required by the RPR. The finished fence shall be plumb, taut, true to line and ground contour, and complete in every detail. When shown on the plans or directed by the RPR, the Contractor shall stake down the woven wire fence at several points between posts. The Contractor shall arrange the work, so construction of the new fence immediately follows the removal of existing fences. The length of unfenced section at any time shall not exceed 300 feet (90 m). The work shall progress in this manner, and at the close of the working day, the newly constructed fence shall be tied to the unremoved existing fence.
- **164-3.2 Clearing fence line.** The site of the fence shall be sufficiently clear of obstructions, and surface irregularities. The fence line shall be graded so that the fence will conform to the general contour of the ground. The fence line shall be cleared on each side of the centerline of the fence. This clearing shall consist of the removal of all stumps, brush, rocks, trees, or other obstructions that will interfere with proper construction of the fence. Stumps within the cleared area of the fence line shall be grubbed or excavated. The bottom of the fence shall be placed a uniform distance above ground as specified in the plans. When shown on the plans or as directed by the RPR, the existing fences which interfere with the new fence location shall be removed by the Contractor as part of the construction work, unless removal is listed as a separate item in the bid schedule. All holes remaining after post and stump removal shall be refilled with suitable soil, gravel, or other suitable material and shall be compacted with tampers.

The work shall include the handling and disposal of all material cleared, of excess excavation and the removal of spoiled material regardless of the type, character, composition, or condition of such material encountered.

- **164-3.3 Setting posts.** Steel posts shall be spaced as shown on the plans. Corner, brace, anchor, end, and gate posts shall be set in concrete bases as shown on the plans. The top of the base concrete shall be slightly above the ground surface, trowel finished, and sloped to drain. Post holes of full depth and size for the concrete bases for posts shall be provided. All line posts may be either driven or set in dug holes to a penetration depth of 3 feet (90 cm). All post setting shall be done carefully and to true alignment. Dirt removed for placing posts, anchor bars, flanges, etc., shall be replaced, tamped, and leveled. When posts are driven, care shall be exercised to prevent marring or buckling of the posts. Damaged posts shall be replaced at the Contractor's expense. After posts are placed and lined, the holes shall be backfilled with concrete. The posts adjacent to end, corner, anchor, and gate posts shall be set and braced with braces and wire, as shown on the plans. No extra compensation shall be made for rock excavation.
- **164-3.4** Anchoring and bracing. Corner, end, gate, and adjacent intermediate posts shall be anchored and brace as shown on the plans. Anchor posts shall be set at approximately 500 feet (150 m) intervals and braced to the adjacent posts. Posts shall be braced before the wire fencing is placed.
- 164-3.5 Installing wire. The wire shall be placed on the side of the posts away from the airport or as shown on the plans. The wire fence shall be placed on the posts at the height indicated on the plans. Longitudinal wires shall be installed parallel and drawn uniformly taut. The vertical stay wires of the woven wire fencing shall be straight and vertical. At end and gate posts the woven wire and barbed wire shall be wrapped once around the post; each longitudinal wire shall be stapled at least three times and the ends of these wires shall be tied with a snug, tight twist. Each longitudinal wire shall be stapled to each intermediate post with one steel wire staple; at the corner and anchor posts, two or more staples shall be used. The top strands of barbed wire of all fences shall be stapled with two staples in each post. All staples shall be set diagonally with the grain of the wood and driven up tight. After the fence has been erected, the tops of the wood posts shall be sawed off with a 1-to-3 pitch. The bottom wire of the wire fencing shall clear the ground by not more than 2 inches (50 mm) or less than one inch (25 mm) at any place.
- **164-3.6 Splicing wire.** Wire splices in longitudinal wires will be permitted if made with an approved galvanized bolt-clamp splice or a wire splice made as follows: the end of the wires shall be carried 3 inches (75 mm) past the splice tool and wrapped around the other wire away from the tool for at least six turns in opposite directions. After the tool is removed, the space occupied by it shall be closed by pulling the ends together. The unused ends of the wires shall be cut close to make a neat, workmanlike job. Woven wire shall be spliced only at posts.
- **164-3.7 Installing chain-link skirt fabric.** Excavate trench to the depth required for proper installation of the chain-link fabric. Obtain RPR's approval of depth of excavation before placing the wire fabric. Place the fabric and lap splice it to existing fence fabric and tie with wire ties at 2-foot (0.6-m) spacing. Cut wire fabric around fence post footing to allow proper placement. Backfill with native soil to original grade.
- **164-3.8 Installing gates.** Gates shall be hung on gate fittings, as shown on the plans. Fittings on the gate posts shall be clamped, screwed, or bolted to prevent slipping. Gates shall be erected to swing in the direction indicated and shall be provided with gate stops, as specified or as shown on the plans. Gates shall be erected at locations shown on the plans.
- **164-3.9 Existing fence connections.** Wherever the new fence joins an existing fence, either at a corner or at the intersection of straight fence lines, a corner or anchor post shall be set at the junction and braced and anchored the same as described for corner posts. If the connection is made at other than the corner of the new fence, the last span of the old fence shall contain a brace span.
- **164-3.10 Electrical grounds.** Electrical grounds shall be constructed at 500 feet (150 m) intervals. The ground shall be accomplished with a copper clad rod 8 feet (2.4 m) long and a minimum of 5/8 inches (16 mm) in diameter driven vertically until the top is 6 inches (150 mm) below the ground surface. A No. 6

solid copper conductor shall be clamped to the rod and to the fence in such a manner that each element of the fence is grounded. Installation of ground rods shall not constitute a pay item and shall be considered incidental to fence construction. The Contractor shall comply with FAA-STD-019, Lightning and Surge Protection, Grounding, Bonding and Shielding Requirements for Facilities and Electronic Equipment, paragraph 4.2.3.8, Lightning Protection for Fences and Gates when fencing is adjacent to FAA facilities.

- **164-3.11 Weed control application.** Weed control material shall be applied over an area 5 feet (1.5 m) wide, measured from the fence centerline, and over the chain link wildlife fence. Apply weed control material as recommended by the manufacturer's instructions and in compliance with state and local regulations. No separate payment shall be made.
- **164-3.12 Cleaning up.** The Contractor shall remove from the vicinity of the completed work all tools, buildings, equipment, etc., used during construction. All disturbed areas shall be seeded per Item T-901.

METHOD OF MEASUREMENT

- **164-4.1 Existing Fence Removal.** Fence removal shall be measured in place from outside to outside of end posts or corner posts and shall be the length of fence actually constructed, except for the space occupied by the gates.
- **164-4.2 Fence Installation.** Fence installation shall be measured in place from outside to outside of end posts or corner posts and shall be the length of fence actually constructed, except for the space occupied by the gates.
- **164-4.3 Gates.** Gates shall be measured in units for each gate installed and accepted.
- **164-4.4 Automatic Gate Power Connections.** Power Connections will be measured for each gate and include all power supply connections as required by the manufacturer, installing electric underground lines to the nearest acceptable power source, and energizing equipment (operator, backup battery, keypads).
- **164-4.5 Ditch Crossings.** Crossing an existing ditch shall be paid for by each.

BASIS OF PAYMENT

- **164-5.1 Existing Fence Removal.** Payment will be made at the contract unit price per linear foot for wire fence. This price shall be full compensation for furnishing all materials and for preparation, erection, and installation of these materials, and for all labor, equipment, tools and incidentals necessary to complete the item.
- **164-5.3 Fence Installation.** Payment will be made at the contract unit price per linear foot for wire fence. This price shall be full compensation for furnishing all materials and for preparation, erection, and installation of these materials, and for all labor, equipment, tools and incidentals necessary to complete the item.
- **164-5.4 Gates.** Payment will be made at the contract unit price per each for gates. This price shall be full compensation for furnishing all materials and for all preparation, erection, and installation of these materials and for all labor, equipment, tools, and necessary incidentals to complete the item.
- **164-5.5 Ditch Crossings.** Payment will be made at the contract unit price per each for crossing existing ditches or wetland areas. This price shall be full compensation for furnishing all materials and for all preparation, erection, and installation of these materials and for all labor, equipment, tools, and necessary incidentals to complete the item.

Payment will be made under:

| Item F-164-1 | Remove Existing Chain Link Fence (including pedestrian gates), per linear foot | |
|--------------|--|--|
| Item F-164-2 | Remove Existing Drive Through Gates, per each | |
| Item F-164-3 | Wildlife Exclusion Fence, per linear foot | |
| Item F-164-4 | Manual Double Swing Gate (20' Opening), per each | |
| Item F-164-5 | Automatic Gate – 10' Chain Link / Key Pad (24' Opening), per each | |
| Item F-164-6 | Automatic Gate Power Connections, per each | |
| Item F-164-7 | Ditch Crossing, per each | |

REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

ASTM International (ASTM)

| ASTM A116 | Standard Specification for Metallic-Coated, Steel Woven Wire Fence Fabric |
|------------|---|
| ASTM A121 | Standard Specification for Metallic-Coated Carbon Steel Barbed Wire |
| ASTM A153 | Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware |
| ASTM A392 | Standard Specification for Zinc-Coated Steel Chain-Link Fence Fabric |
| ASTM A491 | Standard Specification for Aluminum-Coated Steel Chain-Link Fence Fabric |
| ASTM F668 | Standard Specification for Polyvinyl Chloride(PVC), Polyolefin and other Organic Polymer Coated Steel Chain-Link Fence Fabric |
| ASTM F1043 | Standard Specification for Strength and Protective Coatings on Steel Industrial Fence Framework |
| ASTM F1083 | Standard Specification for Pipe, Steel, Hot-Dipped Zinc-Coated (Galvanized) Welded, for Fence Structures |
| ASTM F1183 | Standard Specification for Aluminum Alloy Chain Link Fence Fabric |
| ASTM F1345 | Standard Specification for Zinc 5% Aluminum-Mischmetal Alloy Coated Steel Chain-Link Fence Fabric |
| ASTM G152 | Standard Practice for Operating Open Flame Carbon Arc Light Apparatus for Exposure of Nonmetallic Materials |
| ASTM G153 | Standard Practice for Operating Enclosed Carbon Arc Light Apparatus for Exposure of Nonmetallic Materials |
| ASTM G154 | Standard Practice for Operating Fluorescent Ultraviolet (UV) Lamp Apparatus for Exposure of Nonmetallic Materials |
| | |

ASTM G155 Standard Practice for Operating Xenon Arc Light Apparatus for

Exposure of Nonmetallic Materials

American Wood Preservers Association (AWPA)

AWPA U1 Use Category System: User Specification for Treated Wood

Federal Specifications (FED SPEC)

FED SPEC RR-F-191/Gen Fencing, Wire, and Post Metal (and Gates, Chain-link Fence

Fabric, and Accessories) (General Specification)

FED SPEC RR-F-191/4 Fencing, Wire and Post, Metal (Chain-Link Fence Accessories)

FAA Standard

FAA-STD-019 Lightning and Surge Protection, Grounding, Bonding and Shielding

Requirements for Facilities and Electronic Equipment

FAA Order

5300.38 AIP Handbook

END OF ITEM F-164

ITEM T-901 SEEDING

DESCRIPTION

901-1.1 This item shall consist of soil preparation and seeding of the areas shown on the plans or as directed by the RPR in accordance with these specifications.

MATERIALS

901-2.1 Seed. The species and application rates of grass, legume, and cover-crop seed furnished shall be those stipulated herein. Seed shall conform to the requirements of Federal Specification JJJ-S-181, Federal Specification, Seeds, Agricultural.

Seed shall be furnished separately or in mixtures in standard containers labeled in conformance with the Agricultural Marketing Service (AMS) Seed Act and applicable state seed laws with the seed name, lot number, net weight, percentages of purity and of germination and hard seed, and percentage of maximum weed seed content clearly marked for each kind of seed. The Contractor shall furnish the RPR duplicate signed copies of a statement by the vendor certifying that each lot of seed has been tested by a recognized laboratory for seed testing within six (6) months of date of delivery. This statement shall include: name and address of laboratory, date of test, lot number for each kind of seed, and the results of tests as to name, percentages of purity and of germination, and percentage of weed content for each kind of seed furnished, and, in case of a mixture, the proportions of each kind of seed. Wet, moldy, or otherwise damaged seed will be rejected.

Seeds shall be applied as indicated on the seeding schedule in the plans.

- 901-2.2 Lime. Lime shall be ground limestone containing not less than 85% of total carbonates and shall be ground to such fineness that 90% will pass through a No. 20 (850 μ m) mesh sieve and 50% will pass through a No. 100 (150 μ m) mesh sieve. Coarser material will be acceptable, providing the rates of application are increased to provide not less than the minimum quantities and depth specified in the special provisions on the basis of the two sieve requirements above. Dolomitic lime or a high magnesium lime shall contain at least 10% of magnesium oxide. Lime shall be applied at the rate of 1,000 lb/acre. All liming materials shall conform to the requirements of ASTM C602.
- **901-2.3 Fertilizer**. Fertilizer shall be standard commercial fertilizers supplied separately or in mixtures containing the percentages of total nitrogen, available phosphoric acid, and water-soluble potash. They shall be applied at the rate and to the depth specified and shall meet the requirements of applicable state laws. They shall be furnished in standard containers with name, weight, and guaranteed analysis of contents clearly marked thereon. No cyanamide compounds or hydrated lime shall be permitted in mixed fertilizers. The fertilizers may be supplied in one of the following forms:
 - a. A dry, free-flowing fertilizer suitable for application by a common fertilizer spreader;
 - b. A finely-ground fertilizer soluble in water, suitable for application by power sprayers; or
 - c. A granular or pellet form suitable for application by blower equipment.

Contractor to obtain a soil test report for the project site from the local agricultural cooperative extension office for the recommended fertilizer mixture and application rate.

901-2.4 Soil for repairs. The soil for fill and topsoiling of areas to be repaired shall be at least of equal quality to that which exists in areas adjacent to the area to be repaired. The soil shall be relatively free from large stones, roots, stumps, or other materials that will interfere with subsequent sowing of seed, compacting, and establishing turf, and shall be approved by the RPR before being placed.

CONSTRUCTION METHODS

901-3.1 Advance preparation and cleanup. After grading of areas has been completed and before applying fertilizer and ground limestone, areas to be seeded shall be raked or otherwise cleared of stones larger than 2 inches (50 mm) in any diameter, sticks, stumps, and other debris that might interfere with sowing of seed, growth of grasses, or subsequent maintenance of grass-covered areas. If any damage by erosion or other causes has occurred after the completion of grading and before beginning the application of fertilizer and ground limestone, the Contractor shall repair such damage include filling gullies, smoothing irregularities, and repairing other incidental damage.

An area to be seeded shall be considered a satisfactory seedbed without additional treatment if it has recently been thoroughly loosened and worked to a depth of not less than 5 inches (125 mm) as a result of grading operations and, if immediately prior to seeding, the top 3 inches (75 mm) of soil is loose, friable, reasonably free from large clods, rocks, large roots, or other undesirable matter, and if shaped to the required grade.

When the area to be seeded is sparsely sodded, weedy, barren and unworked, or packed and hard, any grass and weeds shall first be cut or otherwise satisfactorily disposed of, and the soil then scarified or otherwise loosened to a depth not less than 5 inches (125 mm). Clods shall be broken and the top 3 inches (75 mm) of soil shall be worked into a satisfactory seedbed by discing, or by use of cultipackers, rollers, drags, harrows, or other appropriate means.

901-3.2 Dry application method.

- **a. Liming.** Lime shall be applied separately and prior to the application of any fertilizer or seed and only on seedbeds that have previously been prepared as described above. The lime shall then be worked into the top 3 inches (75 mm) of soil after which the seedbed shall again be properly graded and dressed to a smooth finish.
- **b. Fertilizing.** Following advance preparations and cleanup fertilizer shall be uniformly spread at the rate that will provide not less than the minimum quantity stated in paragraph 901-2.3.
- **c. Seeding.** Grass seed shall be sown at the rate specified in paragraph 901-2.1 immediately after fertilizing. The fertilizer and seed shall be raked within the depth range stated in the special provisions. Seeds of legumes, either alone or in mixtures, shall be inoculated before mixing or sowing, in accordance with the instructions of the manufacturer of the inoculant. When seeding is required at other than the seasons shown on the plans or in the special provisions, a cover crop shall be sown by the same methods required for grass and legume seeding.
- **d. Rolling.** After the seed has been properly covered, the seedbed shall be immediately compacted by means of an approved lawn roller, weighing 40 to 65 pounds per foot (60 to 97 kg per meter) of width for clay soil (or any soil having a tendency to pack), and weighing 150 to 200 pounds per foot (223 to 298 kg per meter) of width for sandy or light soils.

901-3.3 Wet application method.

- **a. General.** The Contractor may elect to apply seed and fertilizer (and lime, if required) by spraying them on the previously prepared seedbed in the form of an aqueous mixture and by using the methods and equipment described herein. The rates of application shall be as specified in the special provisions.
- **b. Spraying equipment.** The spraying equipment shall have a container or water tank equipped with a liquid level gauge calibrated to read in increments not larger than 50 gallons (190 liters) over the entire range of the tank capacity, mounted so as to be visible to the nozzle operator. The container or tank shall also be equipped with a mechanical power-driven agitator capable of keeping all the solids in the mixture in complete suspension at all times until used.

The unit shall also be equipped with a pressure pump capable of delivering 100 gallons (380 liters) per minute at a pressure of 100 lb/sq inches (690 kPa). The pump shall be mounted in a line that will recirculate the mixture through the tank whenever it is not being sprayed from the nozzle. All pump passages and pipe lines shall be capable of providing clearance for 5/8-inch (16 mm) solids. The power unit for the pump and agitator shall have controls mounted so as to be accessible to the nozzle operator. There shall be an indicating pressure gauge connected and mounted immediately at the back of the nozzle.

The nozzle pipe shall be mounted on an elevated supporting stand in such a manner that it can be rotated through 360 degrees horizontally and inclined vertically from at least 20 degrees below to at least 60 degrees above the horizontal. There shall be a quick-acting, three-way control valve connecting the recirculating line to the nozzle pipe and mounted so that the nozzle operator can control and regulate the amount of flow of mixture delivered to the nozzle. At least three different types of nozzles shall be supplied so that mixtures may be properly sprayed over distance varying from 20 to 100 feet (6 to 30 m). One shall be a close-range ribbon nozzle, one a medium-range ribbon nozzle, and one a long-range jet nozzle. For case of removal and cleaning, all nozzles shall be connected to the nozzle pipe by means of quick-release couplings.

In order to reach areas inaccessible to the regular equipment, an extension hose at least 50 feet (15 m) in length shall be provided to which the nozzles may be connected.

c. Mixtures. Lime, if required, shall be applied separately, in the quantity specified, prior to the fertilizing and seeding operations. Not more than 220 pounds (100 kg) of lime shall be added to and mixed with each 100 gallons (380 liters) of water. Seed and fertilizer shall be mixed together in the relative proportions specified, but not more than a total of 220 pounds (100 kg) of these combined solids shall be added to and mixed with each 100 gallons (380 liters) of water.

All water used shall be obtained from fresh water sources and shall be free from injurious chemicals and other toxic substances harmful to plant life. The Contractor shall identify to the RPR all sources of water at least two (2) weeks prior to use. The RPR may take samples of the water at the source or from the tank at any time and have a laboratory test the samples for chemical and saline content. The Contractor shall not use any water from any source that is disapproved by the RPR following such tests.

All mixtures shall be constantly agitated from the time they are mixed until they are finally applied to the seedbed. All such mixtures shall be used within two (2) hours from the time they were mixed, or they shall be wasted and disposed of at approved locations.

d. Spraying. Lime, if required, shall be sprayed only upon previously prepared seedbeds. After the applied lime mixture has dried, the lime shall be worked into the top 3 inches (75 mm), after which the seedbed shall again be properly graded and dressed to a smooth finish.

Mixtures of seed and fertilizer shall only be sprayed upon previously prepared seedbeds on which the lime, if required, shall already have been worked in. The mixtures shall be applied by means of a high-pressure spray that shall always be directed upward into the air so that the mixtures will fall to the ground like rain in a uniform spray. Nozzles or sprays shall never be directed toward the ground in such a manner as might produce erosion or runoff.

Particular care shall be exercised to ensure that the application is made uniformly and at the prescribed rate and to guard against misses and overlapped areas. Proper predetermined quantities of the mixture in accordance with specifications shall be used to cover specified sections of known area.

Checks on the rate and uniformity of application may be made by observing the degree of wetting of the ground or by distributing test sheets of paper or pans over the area at intervals and observing the quantity of material deposited thereon.

On surfaces that are to be mulched as indicated by the plans or designated by the RPR, seed and fertilizer applied by the spray method need not be raked into the soil or rolled. However, on surfaces on which mulch is not to be used, the raking and rolling operations will be required after the soil has dried.

901-3.4 Maintenance of seeded areas. The Contractor shall protect seeded areas against traffic or other use by warning signs or barricades, as approved by the RPR. Surfaces gullied or otherwise damaged following seeding shall be repaired by regrading and reseeding as directed. The Contractor shall mow, water as directed, and otherwise maintain seeded areas in a satisfactory condition until final inspection and acceptance of the work.

When either the dry or wet application method outlined above is used for work done out of season, it will be required that the Contractor establish a good stand of grass of uniform color and density to the satisfaction of the RPR. A grass stand shall be considered adequate when bare spots are one square foot (0.01 sq m) or less, randomly dispersed, and do not exceed 3% of the area seeded.

BASIS OF MEASUREMENT AND PAYMENT

901-4.1 Payment shall be made at the contract unit price per acre or fraction thereof, which price and payment shall be full compensation for furnishing and placing all material and for all labor, equipment, tools, and incidentals necessary to complete the work prescribed in this item.

Payment will be made under:

Item 901-4.1 Seeding and Mulching - per acre

REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

ASTM International (ASTM)

ASTM C602 Standard Specification for Agricultural Liming Materials

Federal Specifications (FED SPEC)

FED SPEC JJJ-S-181, Federal Specification, Seeds, Agricultural

Advisory Circulars (AC)

AC 150/5200-33 Hazardous Wildlife Attractants on or Near Airports

FAA/United States Department of Agriculture Wildlife Hazard Management at Airports, A Manual for Airport Personnel

END OF ITEM T-901

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ITEM T-908 MULCHING

DESCRIPTION

908-1.1 This item shall consist of furnishing, hauling, placing, and securing mulch on surfaces indicated on the plans or designated by the RPR.

MATERIALS

- **908-2.1 Mulch material.** Acceptable mulch shall be the materials listed below or any approved locally available material that is similar to those specified. Mulch shall be free from noxious weeds, mold, and other deleterious materials. Mulch materials, which contain matured seed of species that would volunteer and be detrimental to the proposed overseeding, or to surrounding farm land, will not be acceptable. Straw or other mulch material which is fresh and/or excessively brittle, or which is in such an advanced stage of decomposition as to smother or retard the planted grass, will not be acceptable.
- **a.** Hay. Hay shall be native hay in an air-dry condition and of proper consistency for placing with commercial mulch blowing equipment. Hay shall be sterile, containing no fertile seed.
- **b. Straw.** Straw shall be the stalks from threshed plant residue of oats, wheat, barley, rye, or rice from which grain has been removed. Furnish in air-dry condition and of proper consistency for placing with commercial mulch blowing equipment. Straw shall contain no fertile seed.
- **c.** Hay mulch containing seed. Hay mulch shall be mature hay containing viable seed of native grasses or other desirable species stated in the special provisions or as approved by the RPR. The hay shall be cut and handled so as to preserve the maximum quantity of viable seed. Hay mulch that cannot be hauled and spread immediately after cutting shall be placed in weather-resistant stacks or baled and stored in a dry location until used.
- **d. Manufactured mulch**. Cellulose-fiber or wood-pulp mulch shall be products commercially available for use in spray applications.
- **e. Asphalt binder.** Asphalt binder material shall conform to the requirements of ASTM D977, Type SS-1 or RS-1.
- **908-2.2 Inspection.** The RPR shall be notified of sources and quantities of mulch materials available and the Contractor shall furnish him with representative samples of the materials to be used 30 days before delivery to the project. These samples may be used as standards with the approval of the RPR and any materials brought on the site that do not meet these standards shall be rejected.

CONSTRUCTION METHODS

908-3.1 Mulching. Before spreading mulch, all large clods, stumps, stones, brush, roots, and other foreign material shall be removed from the area to be mulched. Mulch shall be applied immediately after seeding. The spreading of the mulch may be by hand methods, blower, or other mechanical methods, provided a uniform covering is obtained.

Mulch material shall be furnished, hauled, and evenly applied on the area shown on the plans or designated by the RPR. Straw or hay shall be spread over the surface to a uniform thickness at the rate of 2 to 3 tons

per acre (1800 - 2700 kg per acre) to provide a loose depth of not less than 1-1/2 inches (38 cm) nor more than 3 inches (75 mm). Other organic material shall be spread at the rate directed by the RPR. Mulch may be blown on the slopes and the use of cutters in the equipment for this purpose will be permitted to the extent that at least 95% of the mulch in place on the slope shall be 6 inches (150 mm) or more in length. When mulches applied by the blowing method are cut, the loose depth in place shall be not less than one inch (25 mm) nor more than 2 inches (50 mm).

908-3.2 Securing mulch. The mulch shall be held in place by light discing, a very thin covering of topsoil, pins, stakes, wire mesh, asphalt binder, or other adhesive material approved by the RPR. Where mulches have been secured by either of the asphalt binder methods, it will not be permissible to walk on the slopes after the binder has been applied. When an application of asphalt binder material is used to secure the mulch, the Contractor must take every precaution to guard against damaging or disfiguring structures or property on or adjacent to the areas worked and will be held responsible for any such damage resulting from the operation.

If the "peg and string" method is used, the mulch shall be secured by the use of stakes or wire pins driven into the ground on 5-foot (1.5-m) centers or less. Binder twine shall be strung between adjacent stakes in straight lines and crisscrossed diagonally over the mulch, after which the stakes shall be firmly driven nearly flush to the ground to draw the twine down tight onto the mulch.

908-3.3 Care and repair.

- **a.** The Contractor shall care for the mulched areas until final acceptance of the project. Care shall consist of providing protection against traffic or other use by placing warning signs, as approved by the RPR, and erecting any barricades that may be shown on the plans before or immediately after mulching has been completed on the designated areas.
- **b.** The Contractor shall be required to repair or replace any mulch that is defective or becomes damaged until the project is finally accepted. When, in the judgment of the RPR, such defects or damages are the result of poor workmanship or failure to meet the requirements of the specifications, the cost of the necessary repairs or replacement shall be borne by the Contractor.
- c. If the "asphalt spray" method is used, all mulched surfaces shall be sprayed with asphalt binder material so that the surface has a uniform appearance. The binder shall be uniformly applied to the mulch at the rate of approximately 8 gallons (32 liters) per 1,000 square feet (100 sq m), or as directed by the RPR, with a minimum of 6 gallons (24 liters) and a maximum of 10 gallons (40 liters) per 1,000 square feet (100 sq m) depending on the type of mulch and the effectiveness of the binder securing it. Asphalt binder material may be sprayed on the mulched slope areas from either the top or the bottom of the slope. An approved spray nozzle shall be used. The nozzle shall be operated at a distance of not less than 4 feet (1.2 m) from the surface of the mulch and uniform distribution of the asphalt material shall be required. A pump or an air compressor of adequate capacity shall be used to ensure uniform distribution of the asphalt material.
- **d.** If the "asphalt mix" method is used, the mulch shall be applied by blowing, and the asphalt binder material shall be sprayed into the mulch as it leaves the blower. The binder shall be uniformly applied to the mulch at the rate of approximately 8 gallons (32 liters) per 1,000 square feet (100 sq m) or as directed by the RPR, with a minimum of 6 gallons (24 liters) and a maximum of 10 gallons (40 liters) per 1,000 square feet (100 sq m) depending on the type of mulch and the effectiveness of the binder securing it.

METHOD OF MEASUREMENT AND BASIS OF PAYMENT

908-4.1 All work in this section will not be measured for payment and shall be incidental to T-901, Seeding and Mulching. Payment will be on a lump sum basis and shall be full compensation for furnishing all materials, for preparing and placing these materials, and for all labor, equipment, tools, and incidentals necessary to complete the item.

REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

ASTM International (ASTM)

ASTM D977 Standard Specification for Emulsified Asphalt

Advisory Circulars (AC)

AC 150/5200-33 Hazardous Wildlife Attractants on or Near Airports

FAA/United States Department of Agriculture

Wildlife Hazard Management at Airports, A Manual for Airport Personnel

END OF ITEM T-908

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APPENDIX A

CONSTRUCTION SAFETY AND PHASING PLAN (CSPP)



CONSTRUCTION SAFETY AND PHASING PLAN (CSPP) for the

PERIMETER FENCE at WAYNE EXECUTIVE JETPORT



February 6, 2024 WKD PROJ. NO. 20190561.00.RA NCDOT PROJ. NO. 36237.22.17.2

> Prepared for: Wayne County 224 E. Walnut Street Goldsboro, NC 27530

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CONSTRUCTION SAFETY AND PHASING PLAN (CSPP) WAYNE EXECUTIVE JETPORT (GWW) PERIMETER FENCE

PURPOSE

Aviation safety is the primary consideration at airports, especially during construction. This Construction Safety and Phasing Plan (CSPP) and the Contractor's Safety Plan Compliance Document (SPCD) will serve as a companion document to the project plans and specifications for the Perimeter Fence project at the Wayne Executive Jetport (MCZ) and has been written in compliance with *FAA Advisory Circular (AC) 150-5370-2G, Operational Safety on Airports During Construction.* The phasing developed for this project is intended to minimize the impact the project will have on airport operations while providing a logical sequence of construction activities. The subsequent sections of this document will address scheduling, coordination, and airfield safety precautions as they relate to the Project.

The CSPP is a standalone document, written to correspond and comply with the safety and security requirements set forth in FAA AC 150/5370-2G, the airport safety and security requirements, and local codes and requirements. The CSPP is to be used by all personnel involved in the project and covers the actions of not only the construction personnel and equipment, but also the action of inspection personnel and airport staff.

The Contractor shall be required to submit a SPCD to the Airport, describing how the Contractor will comply with the requirements set forth in this CSPP. The SPCD must be submitted to the Airport and approved prior to issuance of the Notice to Proceed. In the event the Contractor's activities are found in non-compliance with the provisions of the CSPP or the SPCD, the Airport will direct the Contractor, in writing, to immediately cease those operations in violation. In addition, a safety meeting will be conducted for the purpose of reviewing those provisions in the CSPP / SPCD which were violated. The Contractor will not be allowed to resume any construction operations until conclusion of the safety meeting and all corrective actions required by the Contractor have been implemented.

PROJECT SCOPE

The project involves the removal and replacement of the existing fence around the airport's perimeter. The majority of the new fence will be a wildlife exclusion fence. The wildlife fence will consist of a 10-foot-tall chain link fence with 18 inches of barbed wire at the top and a buried

wildlife deterrent skirt along the bottom of the fence. Phase 1 also includes approximately 1,000 linear feet of ornamental fencing in the terminal area.

The project is split into three (3) separate phases. See the Project Layout Plan sheets in Appendix A for overall project layout for each phase. Additional safety information can also be found in the General Notes sheets.

There will be no work impacts to the Airport Operations Areas (AOA) as part of this project.

PLAN REQUIREMENTS

- 1. Coordination: Project stakeholders potentially impacted during construction have had the opportunity to pose questions at pre-design meetings, pre-bid, and pre-construction conferences, during which the subject of airport operation safety during construction is introduced. In addition, construction progress meetings, scope or schedule changes, and meetings with the NCDOT, Division of Aviation (DOA) will be coordinated as required throughout the performance of the contract.
 - **a. Project Contacts**. Below is a comprehensive list of parties involved during the design of the Project.

| Organization | Organization Role Point of Contact | | Contact Information |
|--|------------------------------------|---------------|------------------------|
| WK Dickson | Engineer | Jason Elliott | 919-412-7235 |
| Wayne Executive Jetport | Airport Director | Gene Dawson | 919-734-7630 |
| Wayne Executive Jetport Operations Manager | | Mark Loveday | 919-734-7630 |
| DOA | Airport Project Mgr. | Tommy Mann | 919-814-0554 |

Table 1: Points of Contact

b. Design Submittals. Throughout design, coordination between WK Dickson, the Sponsor, and DOA was required. Project documents were reviewed by the Sponsor and DOA at the 90% design stage. Below is a summary of the project schedule. Airport operations and safety during construction, as well as other design elements, were discussed during meetings with airport personnel prior to and during the design process.

Table 2: Milestone Dates

| Milestone | Date |
|--|-------------------|
| 90% Construction Documents | April 4, 2020 |
| Advertisement/Issued for Bid Documents | February 1, 2024 |
| Pre-Bid Meeting | February 8, 2024 |
| Bid Opening | February 21, 2024 |
| Contract Execution | TBD |
| Pre-Construction Meeting | TBD |
| Notice to Proceed | TBD |

- c. Pre-Bid Meeting. A pre-bid conference will be held. The meeting will provide bidding firms the opportunity to ask project specific questions. A general outline of topics covered are:
 - → Project Overview / Scope of work
 - → Construction Duration and Liquidated Damages
 - → Insurance and Contract Requirements
 - → Proposal Requirements
 - → DBE Goals and Requirements
 - → Safety Requirements (CSPP and SPCD)
 - → Phasing Requirements
 - → Quality Assurance and Quality Control Testing Requirements
 - → Questions and Answers
 - → Site Tour
- d. Pre-Construction Conference. A pre-construction conference will be held prior to issuance of Notice to Proceed. At a minimum, required attendees will include the Airport Engineer, Airport operations staff, project superintendent and foreman of prime Contractor, as well as the project foreman for each subcontractor employed by the prime Contractor. Agenda of preconstruction conference will introduce the subject of airport operation safety during construction and will include a review of this CSPP and the Safety Plan Compliance Documents (SPCD).
- e. Construction Progress Meetings. Regular construction progress meetings will be held throughout the duration of the project. At a minimum, required attendees will include the Airport Engineer, Airport operations staff, project superintendent and foreman of prime Contractor, as well as the project foreman for each subcontractor with work occurring

during the current period. Construction phasing and operation safety will be a standing agenda item at the construction progress meetings.

f. FAA ATO Coordination. Early coordination with Federal Aviation Administration (FAA) Air Traffic Organization (ATO) is required to schedule airway facility shutdowns and restarts. Relocation or adjustments to NAVAIDs, or changes to final grades in critical areas, may require an FAA flight inspection prior to restarting the facility. Flight inspections shall be coordinated and scheduled well in advance of the intended facility restart. Flight inspections shall be as required by technical specifications or special provisions.

A flight check will not be required for this project.

- **g. Scope or Schedule Changes.** Changes in the scope or duration of any of the project stages may require revisions to the CSPP and review and approval by the airport operator and the FAA and/or DOA.
- h. Daily Coordination. At all times when construction activities are being performed on this project the prime Contractor must have a foreman on-site or immediately available who is authorized to make decisions regarding the operations and safety of all personnel employed by the Contractor and Subcontractors. Contractor must provide 48-hour notice to the Owner before accessing any work area.
- 2. Phasing: Construction phasing for this project has been coordinated with Airport staff and stakeholders. The sequenced construction phases established in this CSPP have been incorporated into the project design and are reflected in the contract drawings and specifications.
 - **a. Phase Elements.** The Project consists of three (3) phases that are being bid as separate bid schedules. The bid award will be based on Phase 2 (Base Bid). Phases 1 and 3 will be additive bid schedules. The decision of whether or not to award the additive bid schedules will be made based on funding availability.

Work for all three phases will be performed during daylight hours and will not impact aircraft operations.

Table 3: Phasing

| Phase | Duration | Work Hours | Work Elements |
|-------|----------|----------------|---|
| 1 | 60 Days | Daylight Hours | Removal of existing chain link fence and gates Clearing and grubbing Isolated tree removal Installation of metal ornamental fence Installation of 10' chain link wildlife fence Installation of drive through and pedestrian gates Installation of temporary erosion control measures Seeding & mulching |
| 2 | 45 Days | Daylight Hours | Removal of existing chain link fence and gates Clearing and grubbing Isolated tree removal Installation of 10' chain link wildlife fence Installation of a manual swing gate Installation of temporary erosion control measures Seeding & mulching |
| 3 | 45 Days | Daylight Hours | Removal of existing chain link fence and gates Isolated tree removal Installation of 10' chain link wildlife fence Installation of a manual swing gate Installation of temporary erosion control measures Seeding & mulching |

b. Construction Safety Drawings. Drawings specifically indicating operational safety procedures and methods in areas affected by construction activities associated with this project (by phase) have been provided with this CSPP and incorporated into the project drawing set.

The Construction Safety and Phasing Plan drawings can be found in Appendix A.

3. Areas and Operations Affected by Construction Activity. Runways, taxiways, and other airfield surfaces shall remain in use by aircraft or airport support vehicles to the maximum extent possible without compromising safety. The affected areas for each phase are graphically illustrated in the attached drawings in Appendix A.

There will be no operational impacts for any phase of construction.

- **a. Identification of Affected Areas.** Reference Appendix A for graphical identification of areas affected by construction operations. Of particular concern are the following:
 - i. Closing or partial closing of runways, taxiways, and aprons, and displaced thresholds. There will be no airfield closures during this project.
 - ii. Closing of Aircraft Rescue and Fire Fighting (ARFF) access routes. N/A
 - **iii.** Closing of access routes used by airport and airline support vehicles. Airport staff will have access to the airfield at all times.
 - **iv. Interruption of utilities, including water supplies for firefighting.** There will be no planned impacts to utilities during this project.
 - v. Approach / departure surfaces affected by heights of objects. There will be no approach / departure surface impacts during this project.
 - vi. Construction areas. These areas include the project work area, storage/stockpile areas, staging areas, and contractor haul routes near active airfield surfaces. These areas are identified graphically in attached drawings in Appendix A.
- **b. Mitigation of Effects.** This CSPP has established specific requirements and operational procedures necessary to maintain the safety and efficiency of airport operations during the construction of this project.

All coordination pertaining to airport operations during construction will go through the Engineer and the Airport Manager. All NOTAM requests will be reviewed by the Engineer and submitted to the Airport for issuance.

i. Temporary changes to runway and/or taxiway operations. There will be no operational impacts during this project.

ii. Detours for ARFF and other airport vehicles. N/A

- iii. Maintenance of essential utilities. Special attention shall be given to preventing unscheduled interruption of utility services and facilities. Where required due to construction purposes, the FAA shall locate all of their underground utilities. The Contractor shall locate and/or arrange for the location of all the underground utilities. When an underground cable or utility is damaged due to the Contractor's negligence the Contractor shall immediately repair the affected cable or utility at his/her own expense. Full coordination between the Airport, Engineer, and Contractor will be exercised to ensure that all airport power and control cables are fully protected prior to any excavation. Locations of cabling and other underground utilities will be marked prior to beginning excavation. Contractor should anticipate the need to hand dig around utilities.
- 4. Navigation Aid (NAVAID) Protection. Contractor shall protect all NAVAIDS during construction activities. This includes, but is not limited to, protection of landing lighting systems, guidance and approach systems, etc. Construction activities and materials/equipment storage near a NAVAID must not obstruct access to the equipment and instruments for maintenance. Submittal of a 7460-1 form is required for construction vehicles operating near FAA NAVAIDs. While the runway is open, all construction shall be routed outside of NAVAID critical areas. There are no NAVAID impacts anticipated with this project.
- **5. Contractor Access.** All construction personnel shall be regularly reminded that an aircraft always has "Right of Way". This CSPP details those areas to which the Contractor must have access, and how contractor personnel will access those project work areas.
 - a. Location of Stockpiled Construction Materials. Stockpiled materials and equipment storage are not permitted within the Runway Safety Area (RSA), Runway Protection Zone (RPZ), Taxiway Safety Area (TSA), Obstacle Free Zone (OFZ), Object Free Area (OFA) of an operational runway or taxiway, critical area of an electronic NAVAID, or blocking a visual NAVAID. Stockpiled materials and equipment adjacent to these areas are to be prominently marked and lighted during hours of restricted visibility or darkness. Stockpiled material shall be constrained in a manner to prevent movement resulting from either aircraft jet blast or wind conditions in excess of ten miles per hour. In addition, stockpiled material shall have silt fence located around the material to prevent Foreign Object Debris (FOD) from moving onto the airfield pavements or polluting watercourses.

Open trenches exceeding 3 inches in depth and 5 inches in width or stockpiled material are not permitted within the limits of safety areas of operational runways or taxiways. In addition, unclassified excavation materials shall be removed and legally disposed of off airport property and not stockpiled on airport property.

Reference Section 7 Foreign Object Debris (FOD) Management, Section 8 Hazardous Materials (HAZMAT) Management, and Section 18 Protection of Runway and Taxiway Safety Areas (RSA/TSA) for additional information regarding stockpile management

- b. Vehicle and Pedestrian Operations. Vehicle and pedestrian access routes for airport construction projects must be controlled to prevent inadvertent or unauthorized entry of persons, vehicles, or animals onto the AOA. The Airport will coordinate requirements for vehicle operations with the affected airport tenants and contractors. Specific vehicle and pedestrian requirements for this project are as follows:
 - i. Construction Site and Equipment Parking. All construction vehicles and personnel shall be restricted to the immediate work areas specified by the contract for this project. These areas include the haul routes into the work area, the designated contractor staging area(s) and the area under construction. Use of alternate haul routes or staging areas by the Contractor shall not be permitted without prior notification and approval by the Engineer and Airport.
 - ii. Access and Haul Routes. Access or haul routes used by contractor vehicles must be clearly marked to prevent inadvertent entry to areas open to airport operations. Construction traffic must remain on the haul road, never straying from the approved paths. Maintenance and upkeep of the haul roads are the responsibility of the Contractor. Dust must be removed from the haul roads by mechanical sweeping. Application of water on dirt or gravel haul routes must be provided as often as necessary. Haul roads in any airport traffic areas must be especially monitored for dust and debris to prevent any potential FOD situations. The Contractor is responsible for any damage caused by construction traffic on the haul roads, regardless of whether in an approved or un-approved traffic area. Following construction completion, the Contractor shall repair, repave, patch, grade, reseed, clean, or otherwise restore the haul route areas to their original conditions prior to construction activities. Special attention must be given to ensure that if construction traffic is to share or cross any ARFF routes that ARFF right of way is not impeded at any time, and that construction traffic on haul roads do not interfere with NAVAIDs or approach surfaces of operational runways. Work necessary in maintaining the haul roads and compliance with safety and

security requirements is considered incidental to the project, and therefore, shall not be directly paid for.

- **iii. Marking and Lighting of Vehicles.** All vehicles used on the airport must be provided with marking and lighting in accordance with FAA Advisory Circular 150/5210-5.
 - 1) Each contractor licensed vehicle must display a company logo on both sides of sufficient size to be recognizable to personnel. Signs shall be approved by the Airport. The company name on the signs must be at least 4 inches in height. Specialized construction equipment does not require signs.
 - 2) Each contractor licensed vehicle must have a yellow/amber rotating beacon affixed to the uppermost part of the vehicle. Light must be visible from any direction, day and night, including the air. Specialized construction equipment does not require rotating beacon lights.
 - 3) All vehicles and equipment operating on the airport and in the general vicinity of the safety area or in aircraft movement areas must be marked with orange and white flags during daylight hours. Flags shall be 3' by 3' with alternating 1' by 1' international orange and white squares and shall be replaced by the Contractor if they become faded, discolored, or ragged as determined by the Airport or Engineer.
 - 4) Contractor vehicle marking and lighting is the sole responsibility of the contractor. The airport will not provide markings or lights.

iv. Description of Proper Vehicle Operations. Contractor shall adhere to the following:

- 1) All persons operating motor vehicles or equipment must possess a valid operator's license as required by the State of North Carolina.
- 2) No person shall operate a motor vehicle or other motorized equipment of any kind on the airport in a reckless or negligent manner or without caution or in any manner that endangers or is likely to endanger persons or property.
- 3) All speed limits established by the Owner shall be obeyed at all times.
- 4) No person shall fail to give pedestrians the right of way over vehicular traffic.
- 5) No person operating a motor vehicle on the airport shall fail to give proper signals or fail to observe the directions of posted traffic signs or traffic lanes.
- 6) No person under the influence of alcohol or drugs shall operate a motor vehicle on the airport property.
- 7) Contractor will not be allowed to operate motor vehicles outside of the designated work areas as shown on the plans.

- 8) Driving privileges to operate in movement areas are limited to vehicles with an operational necessity who have been approved by the Airport Operations Staff.
- 9) The airport staff shall have the authority to tow or otherwise move motor vehicles that are parked by their owners or operators on the airport in violation of the regulations of the airport, at the operator's expense and without liability for damage that may result in the course of or by reason of such moving.
- 10) All vehicles operating on the airport must have their head/taillights turned on during darkness and low visibility conditions.
- v. Situational Awareness. Vehicle drivers must confirm by personal observation that no aircraft is approaching their position (either in the air or on the ground) when given clearance to cross a runway, taxiway, or any other area open to airport operations. Aircraft have the right of way at all times.

vi. Two-Way Radio Communication Procedures.

- 1) **General.** Prior to entering any movement area, Airport Operator must be notified.
- 2) Areas Requiring Two-Way Radio Communication with the Airport Operations Staff. Vehicular traffic crossing active movement areas must be controlled either by two-way radio with the Airport Operations Staff, escort, flagman, signal light, or other means as designated by the Owner.
- 3) **Frequencies to be Used.** Airport Unicom Frequency: 122.975.

vii. Maintenance of the secured area of the airfield

- Contractor shall be required to maintain security at the access gate used for construction. Gate shall be equipped with code locks provided by the Owner. Contractor shall maintain strict control over access code and shall limit their distribution. Contractor shall wait for gate to close behind them, insuring they are not providing airfield access to any unauthorized individuals.
- 2) Contractor must establish, and submit for review and approval, procedures for ensuring that only authorized persons and vehicles enter the AOA through the access gate.
- **6. Wildlife Management.** Construction contractors must carefully control and continuously remove waste or loose materials that might attract wildlife. Contractor personnel must be aware of and avoid construction activities that can create wildlife hazards on airports.

- **a. Trash.** The Contractor shall perform trash clean-up, including food scraps from construction personnel activity, daily.
- **b. Standing Water.** Standing water is a potential wildlife hazard that can be created from construction activity or rainfall events. For this project, standing water due to construction activities will not be allowed to stand after a rain event for more than 48 hours. The Contractor will take precautions and have ready, at no additional cost to the Owner, a pump to remove standing water from the project area by pumping it to the nearest stormwater inlet.
- c. Tall Grass and Seeds. Tall grass and seeds represent another wildlife attractant on airfields. The Contractor is responsible for maintaining its staging and parking areas free from tall stands of grass. The Contractor shall adhere to the requirements of sections T-901 of the specifications. The use of millet seed in turfing and seeding operations shall not be permitted.
- **d. Poorly Maintained Fencing and Gates.** The Contractor, Engineer, and Airport representative shall perform inspections of the site daily. The contractor shall immediately report any damage to gates or fence. The contractor will be responsible for repairs caused by negligence by the contractor.
- 7. Foreign Object Debris (FOD) Management. Waste and loose materials, commonly referred to as FOD, are capable of causing damage to aircraft landing gears, propellers, and jet engines. Construction contractors must not leave or place FOD on or near active aircraft movement areas. Materials capable of creating FOD must be continuously removed during the construction project. Fencing (other than security fencing) may be necessary to contain material that can be carried by wind into areas where aircraft operate. See AC 150/5210-24, Foreign Object Debris (FOD) Management.

Special care and measures shall be taken to prevent FOD when working in an airport environment. The Contractor shall be held responsible for implementing an approved FOD Management Plan as a part of the SPCD. The FOD Management Plan will have procedures for prevention, regular cleanup, and containment of construction material and debris. The Contractor will ensure all vehicles related to the construction project using paved surfaces in the AOA shall be free of any debris that could create a FOD hazard. All taxiways, taxilanes, security perimeter roads, aprons, and runways must remain clean. Waste containers with attached lids shall be required on construction sites.

Special attention should be given to securing lightweight construction material (concrete insulating blankets, tarps, insulation, etc.). Specific securing procedures and/or chain-link enclosures may be required.

Contractors will provide their own equipment for vehicle and equipment washing and clean up. The Contractor shall clean the necessary vehicles within the Contractor staging area as to prevent tracking of mud and debris onto the AOA. The Contractor shall be responsible for a containment area as to prevent pollution onto and into adjacent conveyance systems. All personnel will be responsible for picking up FOD or reporting spills/hazards.

Immediate access to a power sweeper and vacuum truck is required when construction occurs on any pavement area inside the AOA, unless an appropriate alternative has been approved by the Engineer and Operations Supervisor.

Reference Section 10 INSPECTION REQUIREMENTS for additional information regarding daily inspection requirements.

- 8. Hazardous Materials (HAZMAT) Management. Contractors operating construction vehicles and equipment on the airport must be prepared to expeditiously contain and clean-up spills resulting from fuel, hydraulic fluid, or other chemical fluid leaks. Transport and handling of other hazardous materials on an airport also requires special procedures. To that end, the Contractor is required to develop and implement spill prevention and response procedures for vehicle operations. The Contractor shall incorporate these procedures into the SPCD. This includes maintenance of appropriate MSDS data and appropriate prevention and response equipment on-site. Refer to FAA AC 150/5320-15 Management of Airport Industrial Waste for more information.
- **9. Notification of Construction Activities.** The following is information and procedures for immediate notification of airport stakeholders and the FAA of any conditions adversely affecting the operational safety of the airport.
 - a. Points of Contact / List of Responsible Representatives.

<u>Airport Information and Assistance:</u>

Gene Dawson, Airport Director (919) 922-3135 Mark Loveday, Operations Manager (919) 243-1442

- b. NOTAMs. The Airport will coordinate and issue NOTAMs to reflect construction related impacts. NOTAMs about airport conditions resulting from construction activities with tenants and the local air traffic facility and must provide information on closed or hazardous conditions on airport movement areas to the FAA Flight Service Station (FSS) so it can issue a NOTAM. The Airport must file and maintain a list of authorized representatives with the FSS. NOTAMs are to be kept current and reflect the actual conditions with respect to construction situations. Active NOTAMs will be reviewed periodically and revised to reflect the current conditions.
- c. Emergency Notification Procedures. In the event of a life-threatening emergency, the contractor shall be required to call Gene Dawson, Airport Director, (919) 922-3135 or Mark Loveday, Operations Manager, (919) 243-1442. Additional emergency contacts are as follows:

| 1. | Emergency Response: | 911 |
|------|--|----------------|
| ii. | Wayne County Sheriff's Office: | (919) 731-1481 |
| iii. | Wayne County EMS: | (919)-705-1851 |
| iv. | Wayne County Office of Emergency Services: | (919) 731-1416 |
| v. | Carolina Poison Center: | (800) 222-1222 |

In the event of an aircraft emergency, severe weather conditions, or any issue as determined by the airport that may affect aircraft operations, the Contractor's personnel and/or equipment may be required to immediately vacate the area(s) affected. Points of contact for the various parties involved with the project shall be identified and shared at the pre-construction meeting among the various parties, reference Section 1.D *Pre-construction Conference*. *Specific emergency notification procedures shall be incorporated into the Contractor's SPCD*.

d. Coordination with ARFF Personnel. N/A

e. Notification to FAA.

i. Part 77. Any person proposing construction or alteration of objects that affect navigable airspace, as defined in Part 77, must notify the FAA. This includes construction equipment and proposed parking areas for this equipment (i.e. cranes, graders, other equipment) on airports. FAA Form 7460-1, Notice of Proposed Construction or Alteration, can be used for this purpose and submitted to the appropriated FAA Airports Regional or District Office.

- **ii. Part 157**. With exceptions, Title 14CFR Part 157, Notice of Construction, Alteration, Activation, and Deactivation of Airports, requires that the Operations Supervisor notify the FAA in writing whenever a non-Federally funded project involves the construction of a new airport; the construction, realigning, altering, activating, or abandoning of a runway, landing strip, or associated taxiway; or the deactivation or abandoning of an entire airport. Notification involves submitting FAA Form 7480-1, Notice of Landing Area Proposal, to the nearest FAA Airports Regional or District Office. It is not anticipated that Part 157 notifications will be required for this project.
- **iii. NAVAIDS.** For emergency (short-notice) notification about impacts to NAVAIDs, contact Airport personnel. It is not anticipated that NAVAID notifications will be required for this project.

10. Inspection Requirements.

- a. Daily (or More Frequent) Inspections. Inspections shall be conducted by the Contractor at least daily, but more frequently, if necessary, to ensure conformance with the CSPP. A sample checklist is provided in Appendix E of this document. In addition to contractor's required inspections, the Airport will inspect the construction site prior to the reopening of any closed active taxiway, runway, and apron. WK Dickson will have full-time inspectors monitoring activity throughout construction. The contractor is required to immediately remedy and correct any deficiencies to the satisfaction of the Engineer or Airport.
- **b. Final Inspections.** A final inspection with the Airport will take place prior to allowing aircraft operations to resume.
- 11. Underground Utilities. Special attention shall be given to preventing unscheduled interruption of utility services and facilities. Where required due to construction purposes, the FAA shall locate all their underground cables. The Contractor shall locate and/or arrange for the location of all the underground cables. When an underground cable is damaged due to the Contractor's negligence the Contractor shall immediately notify the Operations Supervisor, as referenced in Section 9 Notification of Construction Activities within this document, to repair including possible replacement of the cable affected at his/her own expense. Full coordination between airport staff, field inspectors, and construction personnel will be exercised to ensure that all airport power and control cables are fully protected prior to any excavation. Locations of cabling will be marked prior to beginning excavation. This may involve coordinating with public utilities and FAA ATO/Technical Operations. Note that

"NC811" or services do not include FAA ATO/Technical Operations and may not locate utilities within the airfield fence.

12. Penalties. Failure on the part of the Contractor to adhere to prescribed requirements may have consequences that jeopardize the health, safety or lives of customers and employees at the airport. Operations Supervisor may issue warnings on the first offense based upon the circumstances of the incident. Individuals involved in non-compliance violations may be required to surrender their driving privilege, access to the AOA, and/or be prohibited from working at the airport, pending an investigation of the matter.

Penalties for violations related to airport safety and security procedures will be established by the Airport and may be assessed by the FAA, TSA, or a court of competent jurisdiction.

Note: Project shutdown or misdemeanor citations may be issued on a first offense. When construction operations are suspended, activity shall not resume until all deficiencies are rectified.

- 13. Special Conditions. In the event of an aircraft emergency, the Contractor's personnel and/or equipment may be required to immediately vacate the area. The Contractor will receive notification from Airport when special conditions require the construction site to be vacated. In any event, extreme care should be exercised should construction personnel identify any ARFF (Airport Rescue and Fire-Fighting) vehicle moving toward the Runway with emergency lights displayed. This will generally mean that an emergency situation is imminent. Reference Sections 3.B.II and 9.D.
- 14. Runway and Taxiway Visual Aids. Markings, lighting, signs, and visual NAVAIDs. Those areas where aircraft will be operating shall be clearly and visibly separated from construction areas, including closed runways. Throughout the duration of the construction project, the Contractor shall inspect and verify that these areas remain clearly marked and visible at all times and that marking, lighting, signs and visual NAVAIDs remain in place and operational.
 - **a. General.** Airport markings, lighting, signs, and visual NAVAIDs must be clearly visible to pilots, not misleading, confusing, or deceptive. All must be secured in place to prevent movement by prop wash, jet blast, wing vortices, or other wind currents and constructed of materials that would minimize damage to an aircraft in the event of inadvertent contact. Any visual aid within the ROFA or ROFZ that is more than 3 inches above ground must be frangible.

- b. Markings. Markings shall be in accordance with AC 150/5340-1 Standards for Airport Markings.
- c. Lighting. Runway and taxiway lights in closed sections shall be either de-energized, removed from the circuit by use of jumpers, or covered during the closure period. Airfield lighting shall conform to AC 150/5340-30, Design and Installation Details for Airport Visual Aids, AC 150/5345-50, Specification for Portable Runway and Taxiway Lights, and AC 150/5345-53, Airport Lighting Certification Program.
- **d. Signs.** Signs directing aircraft into closed areas shall be de-energized or covered during the closure period. All signs within the AOA shall conform to AC 150/5345-44, Specification for Runway and Taxiway Signs, AC 150/5340-18, Standards for Airport Sign Systems, and AC 150/5345-53, Airport Lighting Certification Program.
- **15. Marking and Signs for Access Routes.** Pavement markings and signs intended for construction personnel shall conform to AC 150/5340-18 and, to the extent practical, the Federal Highway Administration Manual on Uniform Traffic Control Devices (MUTCD) and/or state highway specifications.

16. Hazard Marking, Lighting, and Signing.

a. Purpose: Hazard marking and lighting is a visual aid to help prevent pilots from entering areas closed to aircraft, and prevents construction personnel from entering areas open to aircraft. To that end, comprehensible warning indicators for any area affected by construction that is normally accessible to aircraft, personnel, or vehicles must be installed and maintained by the Contractor for the duration of construction operations. Hazard marking and lighting may also be used for the identification of open manholes, small areas under repair, stockpiled material, waste areas, and taxiway object free areas (TOFA's).

b. Equipment:

i. Barricades. Type 1-Low profile barricades of the type detailed in the project drawings shall be placed at the edge of existing taxiway safety areas. Layout locations for this equipment are shown in the project drawing set and attached exhibits, reference Appendix A. Barricade spacing shall be such that a breach is physically prevented barring a deliberate act. The Contractor shall have a person on call 24 hours a day for emergency maintenance of airport hazard lighting and barricades. The Contractor must file the contact person's information with the

- Operations Supervisor. Lighting should be checked for proper operation at least once per day, preferably at dusk.
- ii. Barricade Lights. Barricade lights must be red, either steady burning or flashing, and must meet the luminance requirements of the State Highway Department. Batteries powering lights will last longer if lights flash. Lights must be mounted on barricades and spaced at no more than 10 ft. Lights must be operated between sunset and sunrise and during periods of low visibility whenever the airport is open for operations. They may be operated by photocell, but this may require that the Contractor turn them on manually during periods of low visibility during daytime hours.
- **iii. Supplement barricades with signs** (for example "No Entry," "No Vehicles") as necessary.
- iv. Air Operations Area (AOA) General. Barricades are not permitted in any active safety areas. Within a runway or taxiway object free area, Type 1-Low profile lighted barricades with flashing red lights as noted above, may be used to separate all construction/maintenance areas from the movement area. All barricades adjacent to any open runway or taxiway safety area, or apron must be as low as possible to the ground, and no more than 18 inches high, exclusive of supplementary lights and flags. Barricades must be of low mass; easily collapsible upon contact with an aircraft or any of its components; and weighted or sturdily attached to the surface to prevent displacement from prop wash, jet blast, wing vortex, or other surface wind currents. If affixed to the surface, they must be frangible at grade level or as low as possible, but not to exceed 3 in (7.6 cm) above the ground.
- v. Air Operations Area (AOA) Runway/Taxiway Intersections. Use highly reflective barricades with red lights to close taxiways leading to closed runways. The Operations Supervisor shall evaluate all operating factors when determining how to mark temporary closures that can last from 10 to 15 minutes to a much longer period of time. However, even for closures of relatively short duration, close all taxiway/runway intersections with barricades. The use of traffic cones may be appropriate for short duration closures if approved by the Engineer and Airport.
- vi. Air Operations Area (AOA) *Other*. Outside runway and taxiway object free areas and aprons, barricades intended for construction vehicles and personnel may be many different shapes and made from various materials, including jersey barriers, or barrels, as determined by the Engineer and Airport.

- **vii. Maintenance.** The construction specifications include a provision requiring the Contractor to have a person on call 24 hours a day for emergency maintenance of airport hazard lighting and barricades. The Contractor must file the contact person's information with the Operations Supervisor and other notifications shall be in accordance with Section 9 *Notification of Construction Activities*. Lighting should be checked for proper operation at least once per day, preferably at dusk.
- 17. Work Zone lighting for Nighttime Construction. The Contractor must provide lighting equipment to adequately illuminate the work area if the construction is to be performed during nighttime hours. Additionally, all support equipment, except haul trucks, shall be equipped with artificial illumination to safely illuminate the area immediately surrounding their work areas. The lights shall be positioned to provide the most natural color illumination and contrast with a minimum of shadows. The spacing must be determined by trial. Light towers should be positioned and adjusted to aim away from active runways to prevent blinding effects. Shielding may be necessary. Light towers should be removed from the construction site when the area is reopened to aircraft operations. A plan for placement of necessary construction lighting units shall be developed by the Contractor and provided to the Owner for approval prior to beginning nighttime operations.
- **18. Protection of Runway and Taxiway Safety Areas.** Safety area encroachments, improper ground vehicle operations and unmarked or uncovered holes and trenches in the vicinity of aircraft operation surfaces and construction areas are the three most recurring threats to safety during construction. Protection of runway and taxiway safety areas, object free areas, obstacle free zones, and approach/departure surfaces shall be a standing requirement for the duration of construction operations.
 - a. Runway Safety Area (RSA). A runway safety area is the defined surface surrounding the runway prepared or suitable for reducing the risk of damage to airplanes in the event of an undershoot, overshoot, or excursion from the runway. No construction may occur within the RSA while the runway is open for aircraft operations. The RSA dimensions may be temporarily adjusted if the runway is restricted to aircraft operations requiring an RSA that is equal to the RSA width and length beyond the runway ends available during construction (see AC 150/5300-13).

Table 4: RSA Dimensions

| Runway Design Code | RSA Distance from | RSA Width (ft) | RSA Length from |
|--------------------|-------------------|----------------|-----------------|
| (RDC) | Centerline (ft) | | RW End (ft) |
| B-II-4,000 | 75 | 150 | 300 |

Open trenches and excavations are not permitted within the RSA while the runway is open. All trenches and excavations must be backfilled prior to opening the runway. If the runway must be opened before excavations are backfilled, cover the excavations appropriately to the satisfaction of the Engineer and Airport. Covering for open trenches must be designed to allow the safe operation of the heaviest aircraft operating on the runway across the trench without damage to the aircraft.

Construction contractors must prominently mark and barricade open trenches and excavations at the construction site by using lighted low-profile barricades with flashing red lights during hours of restricted visibility or darkness.

Soil erosion must be controlled to maintain RSA standards, that is, the RSA must be cleared and graded and have no potentially hazardous ruts, humps, depressions, or other surface variations, and capable, under dry conditions, of supporting snow removal equipment, aircraft rescue and firefighting equipment, and the occasional passage of aircraft without causing structural damage to the aircraft.

b. Runway Object Free Area (ROFA). Construction, including excavations, may be permitted in the ROFA. However, equipment must be removed from the ROFA when not in use, and material should not be stockpiled in the ROFA if not necessary. Stockpiling material in the OFA requires submittal of a 7460-1 form and justification provided to the appropriate FAA Airports Regional or District Office for approval.

Table 5: ROFA Dimensions

| Runway Design Code | ROFA Distance from | ROFA Width (ft) | ROFA Length | |
|--------------------|--------------------|-----------------|------------------|--|
| (RDC) | Centerline (ft) | | from RW End (ft) | |
| B-II-4,000 | 250 | 500 | 300 | |

c. Taxiway Safety Area (TSA). The taxiway safety area is a defined surface alongside the taxiway prepared or suitable for reducing the risk of damage to an airplane unintentionally departing the taxiway. No construction may occur within the TSA while the taxiway is open for aircraft operations. Adjustment of TSA dimensions shall be coordinated with the Airport and the appropriate FAA Airports Regional or District Office; issuing a NOTAM will be required.

Table 6: TSA Dimensions

| Taxiway (TDG) | TSA Distance from Centerline (ft) | TSA Width (ft) |
|---------------|--------------------------------------|----------------|
| TDG 2 | 39.5 | 79 |

Open trenches and excavations are not permitted within the TSA while the taxiway is open. All trenches and excavations must be backfilled prior to opening taxiway. If backfilling excavations before the taxiway must be opened is impracticable, cover the excavations appropriately. Covering for open trenches must be designed to allow the safe operation of the heaviest aircraft operating on the taxiway across the trench without damage to the aircraft.

After a taxiway has been closed, Contractors must prominently mark and barricade open trenches and excavations at the construction site with red or orange flags, as approved by the Engineer or Airport, and light them with red lights during hours of restricted visibility or darkness.

Soil erosion must be controlled by the Contractor as to maintain TSA standards, that is, the TSA must be cleared and graded and have no potentially hazardous ruts, humps, depressions, or other surface variations, and capable, under dry conditions, of supporting snow removal equipment, aircraft rescue and firefighting equipment, and the occasional passage of aircraft without causing structural damage to the aircraft.

d. Taxiway Object Free Area (TOFA). Unlike the Runway Object Free Area, aircraft wings regularly penetrate the taxiway object free area during normal operations. Thus, the restrictions are more stringent than for Runway Object Free Areas. No construction may occur within the TOFA while the taxiway is open for aircraft operations. Aircraft operations may be restricted to reduced ADG to provide adequate wingtip clearance near construction operations.

Table 7: TOFA Dimensions

| Taxiway (TDG) | TOFA Distance from Centerline (ft) | TOFA Width (ft) |
|---------------|---------------------------------------|-----------------|
| TDG 2 | 65.5 | 131 |

- e. Obstacle Free Zone (OFZ). The OFZ is a defined volume of airspace centered about and above the runway centerline. Personnel, material, and/or equipment may not penetrate the OFZ while the runway is open for aircraft operations. No work will be performed within an active OFZ during this project.
- f. Runway Approach/Departure Areas and Clearways. All personnel, materials, and/or equipment must remain clear of the applicable threshold siting surfaces. Objects that do not penetrate these surfaces may still be obstructions to air navigation and may affect standard instrument approach procedures.

Construction activity in a runway approach/departure area may result in the need to partially close a runway or displace the existing runway threshold. Partial runway closure, displacement of the runway threshold, as well as closure of the complete runway and other portions of the movement area also require coordination through the airport operator with the appropriate FAA air traffic manager (FSS if non-towered) and ATO/Technical Operations (for affected NAVAIDS) and airport users.

19. Other Limitations on Construction.

- **a. Prohibitions.** The following prohibitions are in effect for the duration of this project:
 - i. No use of equipment with a height of over 25 feet (cranes, concrete pumps, and so on) unless a 7460-1 determination letter is issued for such equipment.
 - **ii.** Use of open flame welding or torches is not allowed, unless fire safety precautions are provided, and the Airport has approved their use.
 - **iii.** Use of electrical blasting caps or explosives of any kind on or within 1,000 ft of the Airport Property is prohibited.
 - iv. The use of flare pots within the AOA is prohibited.

b. Restrictions.

- i. Construction suspension required during specific airport operations. N/A
- ii. Areas that cannot be worked on simultaneously. See phasing plans.

- iii. Day or night construction restrictions. None
- iv. Seasonal construction restrictions. N/A

Appendix A

Construction Safety and Phasing Plan Drawings

See Plans

Appendix B

Safety and Phasing Plan Checklist

Appendix B: Safety and Phasing Plan Checklist

This appendix is keyed to Chapter 2. Plan Requirements. In the electronic version of this AC, clicking on the paragraph designation in the Reference column will access the applicable paragraph. There may be instances where the CSPP requires provisions that are not covered by the list in this appendix.

This checklist is intended as an aid, not as a required submittal.

| Coordination | Reference | Addressed | | | Remarks |
|---|------------------|-----------|---------|----------|--|
| Genera | al Consideration | ns | | | |
| Requirements for predesign, prebid, and preconstruction conferences to introduce the subject of airport operation safety during construction are specified. | 2.5 | ☑ Yes | □ No | □ N/A | Reference Section 1 (pgs. 2-3) |
| Operation safety is a standing agenda item for construction progress meetings. | 2.5 | ✓ Yes | □ No | □ N/A | Reference Section 1.e (pgs. 3-4) |
| Scheduling of the construction phases is properly addressed. | 2.6 | ✓ Yes | □ No | □ N/A | Reference Section 2 (pgs.4-5) & Appendix A |
| Any formal agreements are established. | 2.5.3 | ✓ Yes | □ No | □ N/A | Reference Section 1.f (pg. 4) |
| Areas and Operations A | Affected by Cor | structio | n Activ | ity | |
| Drawings showing affected areas are included. | 2.7.1 | ✓ Yes | □ No | □ N/A | See Appendix A |
| Closed or partially closed runways, taxiways, and aprons are depicted on drawings. | 2.7.1.1 | □ Yes | □ No | ✓ N/A | N/A |
| Access routes used by ARFF vehicles affected by the project are addressed. | 2.7.1.2 | □ Yes | □ No | ✓ N/A | |
| Access routes used by airport and airline support vehicles affected by the project are addressed. | 2.7.1.3 | ✓ Yes | □ No | □ N/A | Reference Section 3.a.iii (pg. 6) |
| Underground utilities, including water supplies for firefighting and drainage. | 2.7.1.4 | ✓ Yes | □ No | □ N/A | Reference Section 3.a.iv (pg. 6) |
| Approach/departure surfaces affected by heights of temporary objects are addressed. | 2.7.1.5 | ✓ Yes | □ No | □ N/A | Reference Section 3.a.v (pg. 6) |

| Coordination | Reference | A | ddresse | d | Remarks | |
|---|---------------------------------------|----------|---------|----------|--|--|
| Construction areas, storage areas, and access routes near runways, taxiways, aprons, or helipads are properly depicted on drawings. | 2.7.1 | ✓ Yes | □ No | □ N/A | See Appendix A | |
| Temporary changes to taxi operations are addressed. | 2.7.2.1 | ✓ Yes | □ No | □ N/A | Reference Section 3.b.i (pg. 6) | |
| Detours for ARFF and other airport vehicles are identified | 2.7.2.2 | □ Yes | □ No | V N/A | | |
| Maintenance of essential utilities and underground infrastructure is addressed. | 2.7.2.3 | ✓ Yes | □ No | □ N/A | Reference Section 3.b.iii (pg. 7) | |
| Temporary changes to air traffic control procedures are addressed. | 2.7.2.4 | □ Yes | □ No | ✓ N/A | | |
| | NAVAIDS | | | | | |
| Critical areas for NAVAIDS are depicted on drawings. | 2.8 | □ Yes | □ No | ✓ N/A | | |
| Effects of construction activity on the performance of NAVAIDS, including unanticipated power outages, are addressed. | 2.8 | ✓ Yes | □ No | □ N/A | Reference Section 4 (pg.7) | |
| Protection of NAVAID facilities is addressed. | 2.8 | ☑ Yes | □ No | □ N/A | Reference Section 4 (pg.7) | |
| The required distance and direction from each NAVAID to any construction activity is depicted on drawings. | 2.8 | □ Yes | □ No | ☑ N/A | Construction activities do not occur near NAVAIDS | |
| Procedures for coordination with FAA ATO/Technical Operations, including identification of points of contact, are included. | 2.8, 2.13.1, 2.13.5.3.1, 2.18.1 | □ Yes | □ No | ☑ N/A | | |
| Contractor Access | | | | | | |
| The CSPP addressed areas to which contractor will have access and how the areas will be accessed. | 2.9 | ☑ Yes | □ No | □ N/A | Reference Section 5 (pgs. 7-10) & Appendix A | |
| The application of 49 CFR Part 1542 Airport Security, where appropriate, is addressed. | 2.9 | ✓ Yes | □ No | □ N/A | Reference Section 5 (pgs. 7-10) | |

| Coordination | Reference | Addressed | | | Remarks | |
|--|---------------------|-----------|---------|----------|---|--|
| The location of stockpiled construction materials is depicted on drawings. | 2.9.1 | ✓ Yes | □ No | □ N/A | See Appendix A | |
| The requirement for stockpiles in the ROFA to be approved by FAA is included. | 2.9.1 | □ Yes | □ No | ✓ N/A | No stockpiles will be allowed within the active ROFA. | |
| Requirements for proper stockpiling of materials are included. | 2.9.1 | ✓ Yes | □ No | □ N/A | Reference Section 5.a (pg. 7-8) | |
| Construction site parking is addressed. | 2.9.2.1 | ✓ Yes | □ No | □ N/A | Reference Section 5.b-i (pg. 8) | |
| Construction equipment parking is addressed. | 2.9.2.2 | ✓ Yes | □ No | □ N/A | Reference Section 5.b-i (pg. 8) | |
| Access and haul roads are addressed. | 2.9.2.3 | ✓ Yes | □ No | □ N/A | Reference Section 5.b-ii (pg. 8-9) | |
| A requirement for marking and lighting of vehicles to comply with AC 150/5210-5, Painting, Marking and Lighting of Vehicles Used on an Airport, is included. | 2.9.2.4 | ☑ Yes | □ No | □ N/A | Reference Section 5.b-iii (pg. 9) | |
| Proper vehicle operations, including requirements for escorts, are described. | 2.9.2.5, 2.9.2.6 | ✓ Yes | □ No | □ N/A | Reference Section 5.b-iv (pgs. 9-10) | |
| Training requirements for vehicle drivers are addressed. | 2.9.2.7 | □ Yes | □ No | ✓ N/A | | |
| Two-way radio communications procedures are described. | 2.9.2.9 | ✓ Yes | □ No | □ N/A | Reference Section 5.b-vi (pg. 10) | |
| Maintenance of the secured area of the airport is addressed. | 2.9.2.10 | ✓ Yes | □ No | □ N/A | Reference Section 5.b-vii (pg. 10) | |
| Wildlife Management | | | | | | |
| The airport operator's wildlife management procedures are addressed. | 2.10 | ✓ Yes | □ No | □ N/A | Reference Section 6 (pgs. 10-11) | |
| Foreign Object Debris Management | | | | | | |
| The airport operator's FOD management procedures are addressed. | 2.11 | ✓ Yes | □ No | □ N/A | Reference Section 7 (pgs. 11-12) | |

| Coordination | Reference | Addressed | | | Remarks |
|--|----------------------------|-----------|---------|----------|---|
| Hazardous I | Materials Mana | gement | | | |
| The airport operator's hazardous materials management procedures are addressed. | 2.12 | ✓ Yes | □ No | □ N/A | Reference Section 8 (pg. 12) |
| Notification o | f Construction A | Activitie | s | | |
| Procedures for the immediate notification of airport user and local FAA of any conditions adversely affecting the operational safety of the airport are detailed. | 2.13 | ✓ Yes | □ No | □ N/A | Reference Section 9 (pgs. 12-14) |
| Maintenance of a list by the airport operator of the responsible representatives/points of contact for all involved parties and procedures for contacting them 24 hours a day, seven days a week is specified. | 2.13.1 | ☑ Yes | □ No | □ N/A | Reference Section 9.c (pg. 13) |
| A list of local ATO/Technical Operations personnel is included. | 2.13.1 | □ Yes | □ No | ☑ N/A | Emergency notification information is contained in section 9. |
| A list of ATC managers on duty is included. | 2.13.2 | □ Yes | □ No | ☑ N/A | |
| A list of authorized representatives to the OCC is included. | 2.13.2 | ✓ Yes | □ No | □ N/A | Reference Section 9.a (pg. 12) |
| Procedures for coordinating, issuing, maintaining, and cancelling by the airport operator of NOTAMS about airport conditions resulting from construction are included. | 2.8, 2.13.2, 2.18.3.3.9 | ☑ Yes | □ No | □ N/A | Reference Section 9.b (pg. 13) |
| Provision of information on closed or hazardous conditions on airport movement areas by the airport operator to the OCC is specified. | 2.13.2 | ☑ Yes | □ No | □ N/A | Reference Section 9 (pg. 12-14) |
| Emergency notification procedures for medical, firefighting, and police response are addressed. | 2.13.3 | ✓ Yes | □ No | □ N/A | Reference Section 9.c (pgs. 13) |
| Coordination with ARFF personnel for non- emergency issues is addressed. | 2.13.4 | □ Yes | □ No | ✓ N/A | |
| Notification to the FAA under 14 CFR parts 77 and 157 is addressed. | 2.13.5 | ✓ Yes | □ No | □ N/A | Reference Section 9 (pgs. 13-14) |

| Coordination | Reference | A | ddresse | ed | Remarks | | |
|--|---|----------|---------|----------|---|--|--|
| Reimbursable agreements for flight checks and/or design and construction for FAA owned NAVAIDs are addressed. | 2.13.5.3.2 | ✓ Yes | □ No | □ N/A | Reference Section 1.f (pg. 4) | | |
| Inspection Requirements | | | | | | | |
| Daily inspections by both the airport operator and contractor are specified. | 2.14.1, 2.14.2 | ☑ Yes | □ No | □ N/A | Reference Section 10.a (pg. 14) | | |
| Final inspections at certificated airports are specified when required. | 2.14.3 | ✓ Yes | □ No | □ N/A | Reference Section 10.b (pg. 14) | | |
| Under | rground Utilitie | S | | | | | |
| Procedures for protecting existing underground facilities in excavation areas are described. | 2.15 | ✓ Yes | □ No | □ N/A | Reference Section 11 (pg. 14-15) | | |
| | Penalties | | | | | | |
| Penalty provisions for noncompliance with airport rules and regulations and the safety plans are detailed. | 2.16 | ✓ Yes | □ No | □ N/A | Reference Section 12 (pgs. 15) | | |
| Spec | cial Conditions | | | | | | |
| Any special conditions that affect the operation of the airport or require the activation of special procedures are addressed. | 2.17 | ✓ Yes | □ No | □ N/A | Reference Section 13 (pg. 15) | | |
| Runway and Taxiway Visual Aids – I | Marking, Lighti | ng, Sign | s, and | Visual 1 | NAVAIDs | | |
| The proper securing of temporary airport markings, lighting, signs, and visual NAVAIDs is addressed. | 2.18.1 | ✓ Yes | □ No | □ N/A | Reference Section 14.a (pgs. 15) | | |
| Frangibility of airport markings, lighting, signs, and visual NAVAIDs is specified. | 2.18.1, 2.18.3, 2.18.4.2, 2.20.2.4 | ✓ Yes | □ No | □ N/A | Reference Section 14.a (pg. 15) | | |
| The requirement for markings to be in compliance with AC 150/5340-1, Standards for Airport Markings is specified. | 2.18.2 | ✓ Yes | □ No | □ N/A | Reference Section 14.b (pg. 16) | | |
| Detailed specifications for materials and methods for temporary markings are provided. | 2.18.2 | ✓ Yes | □ No | □ N/A | Detailed specifications are referenced (14.b) and referred to in the contract plans and specifications. | | |

| Coordination | Reference | Addressed | | | Remarks |
|---|-------------------------|-----------|---------|----------|---|
| The requirement for lighting to conform to AC 150/5340-30, Design and Installation Details for Airport Visual Aids, AC 150/5345-50, Specification for Portable Runway and Taxiway Lights, and AC 150/5345-53, Airport Lighting Certification Program, is specified. | 2.18.3 | ☑ Yes | □ No | □ N/A | Reference Section 14.c (pg. 16) |
| The use of a lighted X is specified where appropriate. | 2.18.2.1.2, 2.18.3.2 | □ Yes | □ No | ✓ N/A | N/A |
| The requirement for signs to conform to AC 150/5345-44, Specification for Runway and Taxiway Signs, AC 150/5340-18, Standards for Airport Sign Systems, and AC 150/5345-53, Airport Lighting Certification Program, is specified. | 2.18.4 | ☑ Yes | □ No | □ N/A | Reference Section 14.d (pg. 16) |
| Marking and | Signs for Acces | s Route | 5 | | |
| The CSPP specifies that pavement markings and signs intended for construction personnel should conform to AC 150/5340-18 and, to the extent practicable, with the MUTCD and/or State highway specifications. | 2.18.4.2 | ☑ Yes | □ No | □ N/A | Reference Section 15 (pg. 16) |
| Hazard M | larking and Lig | hting | | | |
| Prominent, comprehensible warning indicators for any area affected by construction that is normally accessible to aircraft, personnel, or vehicles are specified. | 2.20.1 | ☑ Yes | □ No | □ N/A | Reference Section 16 (pg. 16-18) |
| Hazard marking and lighting are specified to identify open manholes, small areas under repair, stockpiled material, and waste areas. | 2.20.1 | ☑ Yes | □ No | □ N/A | Reference Section 16.a (pg. 16) |
| The CSPP considers less obvious construction-related hazards. | 2.20.1 | ✓ Yes | □ No | □ N/A | Reference Section 16.a (pg. 16) |
| Equipment that poses the least danger to aircraft but is sturdy enough to remain in place when subjected to typical winds, prop wash and jet blast is specified. | 2.20.2.1 | ☑ Yes | □ No | □ N/A | Reference Section 16.b (pg. 16-18) |
| The spacing of barricades is specified such that a breach is physically prevented barring a deliberate act. | 2.20.2.1 | ✓ Yes | □ No | □ N/A | Reference Section 16.b-i (pg. 16-17) |
| Red lights meeting the luminance requirements of the State Highway Department are specified. | 2.20.2.1 | ✓ Yes | □ No | □ N/A | Reference Section 16.b-ii (pg. 17) |

| Coordination | Reference | Addressed | | d | Remarks |
|--|-----------------------|-----------|---------|----------|--|
| Barricades, temporary markers, and other objects placed and left in areas adjacent to any open runway, taxiway, taxilane, or apron are specified to be as low as possible to the ground, and no more than 18 high. | 2.20.2.3 | ☑ Yes | □ No | □ N/A | Reference Section 16.b-iv (pg. 17) |
| Barricades are specified to indicate construction locations in which no part of an aircraft may enter. | 2.20.2.3 | ☑ Yes | □ No | □ N/A | Reference Section 16.b (pgs. 16-18) |
| Highly reflective barriers with lights are specified to barricade taxiways leading to closed runways | 2.20.2.5 | ☑ Yes | □ No | □ N/A | Reference Section 16.b-v (pg. 17) |
| Markings for temporary closures are specified. | 2.20.2.5 | ✓ Yes | □ No | □ N/A | Reference Section 16.b (pg. 16-18) |
| The provision of a contractor's representative on call 24 hours a day for emergency maintenance of airport hazard lighting and barricades is specified. | 2.20.2.7 | ✓ Yes | □ No | □ N/A | Reference Section 16.b-vii (pg. 18) |
| Work Zone Lightin | ng for Nighttime | e Constr | uction | | |
| If work is to be conducted at night, the CSPP identifies construction lighting units and their general locations and aiming in relationship to the ATCT and active runways and taxiways | 2.21 | ✓ Yes | □ No | □ N/A | Reference Section 17 (pg. 18) |
| Protection of Runw | ay and Taxiwa | y Safety | Areas | | |
| The CSPP clearly states that no construction may occur within a safety area while the associated runway or taxiway is open for aircraft operations. | 2.22.1.1, 2.22.3.1 | ✓ Yes | □ No | □ N/A | Reference Section 18.a &18.c (pgs. 18-20) |
| The CSPP specifies that the airport operator coordinates the adjustment of RSA or TSA dimensions with the ATCT and appropriate FAA Airports Regional or District Office and issues a local NOTAM. | 2.22.1.2, 2.22.3.2 | ☑ Yes | □ No | □ N/A | Reference Section 18.a &18.c (pgs. 18-20) |
| Procedures for ensuring adequate distance for protection from blasting operations, if required by operations considerations, are detailed. | 2.22.3.3 | □ Yes | □ No | ☑ N/A | |
| The CSPP specifies that open trenches or excavations are not permitted within a safety area while the associated runway or taxiway is open. | 2.22.1.4 | ✓ Yes | □ No | □ N/A | Reference Section 18.a & 18.c (pgs. 18-20) |

| Coordination | Reference | Addressed | | d | Remarks |
|--|------------|-----------|---------|----------|--|
| Appropriate covering of excavations in the RSA or TSA that cannot be backfilled before the associated runway or taxiway is open is detailed. | 2.22.1.4 | ☑ Yes | □ No | □ N/A | Reference Section 18.a & 18.c (pgs. 18-20) |
| The CSPP includes provisions for prominent marking of open trenches and excavations at the construction site. | 2.22.1.4 | ✓ Yes | □ No | □ N/A | Reference Section 18.a & 18.c (pgs. 18-20) |
| Grading and soil erosion control to maintain RSA/TSA standards are addressed. | 2.22.3.5 | ✓ Yes | □ No | □ N/A | Reference Section 18.a & 18.c (pgs. 18-20) |
| The CSPP specifies that equipment is to be removed from the ROFA when not in use. | 2.22.2 | ✓ Yes | □ No | □ N/A | Reference Section 18.b (pg. 19) |
| The CSPP clearly states that no construction may occur within a taxiway safety area while the taxiway is open for aircraft operations | 2.22.3 | ✓ Yes | □ No | □ N/A | Reference Section 18.c (pg. 19-20) |
| Appropriate details are specified for any construction work to be accomplished in a taxiway object free area. | 2.22.4 | ☑ Yes | □ No | □ N/A | Reference Section 18.d (pg. 20) |
| Measures to ensure that personnel, material, and/or equipment do not penetrate the OFZ or threshold siting surfaces while the runway is open for aircraft operations are included. | 2.22.4.3.6 | ☑ Yes | □ No | □ N/A | Reference Section 18.e (pg. 21) |
| Provisions for protection of runway approach/departure areas and clearways are included. | 2.22.6 | ✓ Yes | □ No | □ N/A | Reference Section 18.f (pg. 21) |
| Other Limitations on Construction | | | | | |
| The CSPP prohibits the use of open flame welding or torches unless adequate fire safety precautions are provided and the airport operator has approved their use. | 2.23.1.2 | ☑ Yes | □ No | □ N/A | Reference Section 19.a (pg. 21) |
| The CSPP prohibits the use of electrical blasting caps on or within 1,000 ft of the airport property. | 2.23.1.3 | ✓ Yes | □ No | □ N/A | Reference Section 19.a (pg. 21) |

Appendix C

Definition of Terms

Appendix C: Definition of Terms

| Term | Definition |
|----------------------------------|--|
| 7460-1 | Notice Of Proposed Construction Or Alteration. For on-airport projects, the form submitted to the FAA regional or airports division office as formal written notification of any kind of construction or alteration of objects that affect navigable airspace, as defined in 14 CFR Part 77, safe, efficient use, and preservation of the navigable airspace. (See guidance available on the FAA web site at oeaaa.faa.gov.) The form may be downloaded at https://www.faa.gov/airports/resources/forms/ , or filed electronically at: https://oeaaa.faa.gov . |
| 7480-1 | Notice Of Landing Area Proposal. Form submitted to the FAA Airports Regional Division Office or Airports District Office as formal written notification whenever a project without an airport layout plan on file with the FAA involves the construction of a new airport; the construction, realigning, altering, activating, or abandoning of a runway, landing strip, or associated taxiway; or the deactivation or abandoning of an entire airport The form may be downloaded at http://www.faa.gov/airports/resources/forms/ . |
| GWW | Wayne Executive Jetport |
| AC | Advisory Circular |
| ACRC | Aircraft Reference Code |
| ACSI | Airport Certification Safety Inspector |
| ADG | Airplane Design Group |
| AIP | Airport Improvement Program |
| Airport Operations Department | MCZ Operations Staff that are directly responsible for the airfield operations and well- being of the AOA. Airport Operations Department is located in the Airport Operations Center. |
| ALECP | Airport Lighting Equipment Certification Program |
| ANG | Air National Guard |
| AOA | Airport Operations Area. Any area of the airport used or intended to be used for the landing, takeoff, or surface maneuvering of aircraft. An air operations area includes such paved or unpaved areas that are used or intended to be used for the unobstructed movement of aircraft in addition to its associated runways, taxiways, or aprons. |
| ARFF | Aircraft Rescue and Fire Fighting |
| ARC | Airfield Rehabilitation Committee |
| ARP | FAA Office of Airports |
| ASDA | Accelerate-Stop Distance Available |
| ATCT | Air Traffic Control Tower |
| ATIS | Automatic Terminal Information Service |
| ATO | Air Traffic Organization |
| Certificated Airport | An airport that has been issued an Airport Operating Certificate by the FAA under the authority of 14 CFR Part 139, Certification of Airports. |
| CFR | Code of Federal Regulations |

| Term | Definition |
|----------------------|--|
| Construction | The presence and movement of construction-related personnel, equipment, and materials in any location that could infringe upon the movement of aircraft. |
| Contractor | The person or company that undertakes the contract to provide materials and labor to perform the project. |
| CSPP | Construction Safety and Phasing Plan. The overall plan for safety and phasing of a construction project developed by the airport operator, or developed by the airport operator's consultant and approved by the airport operator. It is included in the invitation for bids and becomes part of the project specifications. |
| CTAF | Common Traffic Advisory Frequency |
| Displaced Threshold | A threshold that is located at a point on the runway other than the designated beginning of the runway. The portion of pavement behind a displaced threshold is available for takeoffs in either direction or landing from the opposite direction. |
| DOT | Department of Transportation |
| EPA | Environmental Protection Agency |
| Engineer | Engineer of Record – also working for WK Dickson |
| FAA | Federal Aviation Administration |
| FOD | Foreign Object Debris |
| HAZMAT | Hazardous Materials |
| IFR | Instrument Flight Rules |
| ILS | Instrument Landing System |
| LD | Liquidated Damages |
| LDA | Landing Distance Available |
| LOC | Localizer antenna array |
| Movement Area | The runways, taxiways, and other areas of an airport that are used for taxiing or hover taxiing, air taxiing, takeoff, and landing of aircraft, exclusive of loading aprons and aircraft parking areas (reference 14 CFR Part 139). |
| MSDS | Material Safety Data Sheet |
| MUTCD | Manual on Uniform Traffic Control Devices |
| NAVAID | Navigation Aid |
| NAVAID Critical Area | An area of defined shape and size associated with a NAVAID that must remain clear and graded to avoid interference with the electronic signal. |
| Non-Movement Area | The area inside the airport security fence exclusive of the Movement Area. It is important to note that the non-movement area includes pavement traversed by aircraft. |
| NOTAM | Notices to Airmen |
| NTP | Notice To Proceed. Effective date for start of construction contract. |

| Term | Definition |
|--------------------------|---|
| Obstruction | Any object/obstacle exceeding the obstruction standards specified by 14 CFR Part 77, subpart C. |
| OE / AAA | Obstruction Evaluation / Airport Airspace Analysis |
| OFA | Object Free Area. An area on the ground centered on the runway, taxiway, or taxi lane centerline provided to enhance safety of aircraft operations by having the area free of objects except for those objects that need to be located in the OFA for air navigation or aircraft ground maneuvering purposes. (See AC 150/5300-13, for additional guidance on OFA standards and wingtip clearance criteria.) |
| OFZ | Obstacle Free Zone. The airspace below 150 ft. (45 m) above the established airport elevation and along the runway and extended runway centerline that is required to be clear of all objects, except for frangible visual NAVAIDs that need to be located in the OFZ because of their function, in order to provide clearance protection for aircraft landing or taking off from the runway and for missed approaches. The OFZ is subdivided as follows: Runway OFZ, Inner Approach OFZ, Inner Transitional OFZ, and Precision OFZ. Refer to AC 150/5300-13 for guidance on OFZ. |
| OSHA | Occupational Safety and Health Administration |
| Owner | Wayne County / Wayne Executive Jetport – also referred to as "Airport" |
| P&R | Planning and Requirements Group |
| PAPI | Precision Approach Path Indicators |
| PCI | Pavement Condition Index |
| PFC | Passenger Facility Charge |
| PLASI | Pulse Light Approach Slope Indicators |
| Project Proposal Summary | A clear and concise description of the proposed project or change that is the object of Safety Risk Management. |
| RE | Resident Engineer |
| REIL | Runway End Identifier Lights |
| RNAV | Area Navigation |
| ROFA | Runway Object Free Area |
| RSA | Runway Safety Area. A defined surface surrounding the runway prepared or suitable for reducing the risk of damage to airplanes in the event of an undershoot, overshoot, or excursion from the runway, in accordance with AC 150/5300-13. |
| SIDA | Security Identification Display Area |
| SMGCS | Surface Movement Guidance and Control System |
| SMS | Safety Management System |

| Term | Definition |
|----------------------|---|
| SPCD | Safety Plan Compliance Document. Details developed and submitted by a contractor to the airport operator for approval providing details on how the performance of a construction project will comply with the CSPP. |
| SRM | Safety Risk Management |
| Taxiway Safety Area | A defined surface alongside the taxiway prepared or suitable for reducing the risk of damage to an airplane unintentionally departing the taxiway, in accordance with AC 150/5300-13. |
| TDG | Taxiway Design Group |
| Temporary | Any condition that is not intended to be permanent. |
| Temporary Runway End | The beginning of that portion of the runway available for landing and taking off in one direction, and for landing in the other direction. Note the difference from a displaced threshold. |
| Threshold | The beginning of that portion of the runway available for landing. In some instances, the landing threshold may be displaced. |
| TODA | Takeoff Distance Available |
| TOFA | Taxiway Object Free Area |
| TORA | Takeoff Run Available. The length of the runway less any length of runway unavailable and/or unsuitable for takeoff run computations. See AC 150/5300-13 for guidance on declared distances. |
| TSA | Taxiway Safety Area Transportation Security Administration |
| UNICOM | A radio communications system of a type used at small airports. |
| VASI | Visual Approach Slope Indicators |
| VGSI | Visual Glide Slope Indicator. A device that provides a visual glide slope indicator to landing pilots. These systems include precision approach path indicators (PAPI), visual approach slope indicators (VASI), and pulse light approach slope indicators (PLASI). |
| VFR | Visual Flight Rules |
| VOR | VHF Omnidirectional Radio Range |
| VPD | Vehicle / Pedestrian Deviation |
| WKD | WK Dickson. Engineering designer of record. Referred to as "Engineer". |

Appendix D

Related Reading Material

Appendix D: Related Reading Material

Obtain the latest version of the following free publications from the FAA on its Web site at http://www.faa.gov/airports/.

| AC | Title and Description |
|----------------|---|
| AC 150/5200-28 | Notices to Airmen (NOTAMs) for Airport Operators |
| AC 130/3200-28 | Guidance for using the NOTAM System in airport reporting. |
| | Airport Field Condition Assessments and Winter Operations Safety |
| AC 150/5200-30 | Guidance for airport owners/operators on the development of an acceptable airport snow and ice control program and on appropriate field condition reporting procedures. |
| | Hazardous Wildlife Attractants On or Near Airports |
| AC 150/5200-33 | Guidance on locating certain land uses that might attract hazardous wildlife to publicuse airports. |
| | Painting, Marking, and Lighting of Vehicles Used on an Airport. |
| AC 150/5210-5 | Guidance, specifications, and standards for painting, marking, and lighting vehicles operating in the airport air operations areas. |
| | Ground Vehicle Operations on Airports |
| AC 150/5210-20 | Guidance to airport operators on developing ground vehicle operation training programs. |
| | Airport Design |
| AC 150/5300-13 | FAA standards and recommendations for airport design, establishes approach visibility minimums as an airport design parameter, and contains the Object Free area and the obstacle free-zone criteria. |
| | Airport Foreign Object Debris Management |
| AC 150/5310-24 | Guidance for developing and managing an airport foreign object debris (FOD) program |
| | Water Supply Systems for Aircraft Fire and Rescue Protection. |
| AC 150/5220-4 | Guidance on selecting a water source and meeting standards for a distribution system to support aircraft rescue and fire fighting service operations on airports. |
| | Management of Airport Industrial Waste |
| AC 150/5320-15 | Basic information on the characteristics, management, and regulations of industrial wastes generated at airports. Guidance for developing a Storm Water Pollution Prevention Plan (SWPPP) that applies best management practices to eliminate, prevent, or reduce pollutants in storm water runoff with particular airport industrial activities. |
| A C 150/5240 1 | Standards for Airport Markings |
| AC 150/5340-1 | FAA standards for markings used on airport runways, taxiways, and aprons. |
| AC 150/5340-18 | Standards for Airport Sign Systems |
| | FAA standards for the siting and installation of signs on airport runways and taxiways. |
| | Precision Approach Path Indicator (PAPI) Systems |
| AC 150/5345-28 | FAA standards for PAPI systems, which provide pilots with visual glide slope guidance during approach for landing. |

| AC | Title and Description |
|---------------------|---|
| A C 150/5240 20 | Design and Installation Details for Airport Visual Aids |
| AC 150/5340-30 | Guidance and recommendations on the installation of airport visual aids. |
| AC 150/5345-39 | Specification for L-853, Runway and Taxiway Retroreflective Markers |
| A C 150/5245 44 | Specification for Runway and Taxiway Signs |
| AC 150/5345-44 | FAA specifications for unlighted and lighted signs for taxiways and runways. |
| A C 150/5245 52 | Airport Lighting Certification Program |
| AC 150/5345-53 | Details on the Airport Lighting Equipment Certification Program (ALECP). |
| | Specification for Portable Runway and Taxiway Lights |
| AC 150/5345-50 | FAA standards for portable runway and taxiway lights and runway end identifier lights for temporary use to permit continued aircraft operations while all or part of a runway lighting system is inoperative. |
| AC 150/5345-55 | Specification for L-893, Lighted Visual Aid to Indicate Temporary Runway Closure |
| | Standards for Specifying Construction of Airports |
| AC 150/5370-10 | Standards for construction of airports, including earthwork, drainage, paving, turfing, lighting, and incidental construction. |
| AC 150/5370-12 | Quality Management for Federally Funded Airport Construction Projects |
| EB 93 | Guidance for the Assembly and Installation of Temporary Orange Construction Signs |
| | FAA Airports (ARP) Safety Management System (SMS) |
| FAA Order 5200.11 | Basics for implementing SMS within ARP. Includes roles and responsibilities of ARP management and staff as well as other FAA lines of business that contribute to the ARP SMS. |
| EAA C1 | Grasses Attractive to Hazardous Wildlife |
| FAA Certalert 98-05 | Guidance on grass management and seed selection. |
| FAA Form 7460-1 | Notice of Proposed Construction or Alteration |
| FAA Form 7480-1 | Notice of Landing Area Proposal |
| FAA Form 6000.26 | National NAS Strategic Interruption Service Level Agreement, Strategic Events Coordination, Airport Sponsor Form |

Obtain the latest version of the following free publications from the Electronic Code of Federal Regulations at http://ecfr.gpoaccess.gov/.

| Title 14 CFR Part 77 | Safe, Efficient Use and Preservation of the Navigable Airspace |
|------------------------|--|
| Title 14 CFR Part 139 | Certification of Airports |
| Title 49 CFR Part 1542 | Airport Security |

Obtain the latest version of the Manual on Uniform Traffic Control Devices from the Federal Highway Administration at http://mutcd.fhwa.dot.gov/.

Appendix E

Construction Project Daily Safety Inspection Checklist

Appendix E. Construction Project Daily Safety Inspection Checklist

The situations identified below are potentially hazardous conditions that may occur during airport construction projects. Safety area encroachments, unauthorized and improper ground vehicle operations, and unmarked or uncovered holes and trenches near aircraft operating surfaces pose the most prevalent threats to airport operational safety during airport construction projects. The list below is one tool that the airport operator or contractor may use to aid in identifying and correcting potentially hazardous conditions. It should be customized as appropriate for each project.

Potentially Hazardous Conditions

| Item | Action Required (Describe) | No Action Required (Check) |
|--|----------------------------|----------------------------------|
| Excavation adjacent to runways, taxiways, and aprons improperly backfilled. | | |
| Mounds of earth, construction materials, temporary structures, and other obstacles near any open runway, taxiway, or taxi lane; in the related Object Free area and aircraft approach or departure areas/zones; or obstructing any sign or marking. | | |
| Runway resurfacing projects resulting in lips exceeding 3 in (7.6 cm) from pavement edges and ends. | | |
| Heavy equipment (stationary or mobile) operating or idle near AOA, in runway approaches and departures areas, or in OFZ. | | |
| Equipment or material near NAVAIDs that may degrade or impair radiated signals and/or the monitoring of navigation and visual aids. Unauthorized or improper vehicle operations in localizer or glide slope critical areas, resulting in electronic interference and/or facility shutdown. | | |
| Tall and especially relatively low visibility units (that is, equipment with slim profiles) — cranes, drills, and similar objects — located in critical areas, such as OFZ and approach zones. | | |
| Improperly positioned or malfunctioning lights or unlighted airport hazards, such as holes or excavations, on any apron, open taxiway, or open taxi lane or in a related safety, approach, or departure area. | | |

| Item | Action Required (Describe) | No Action Required (Check) |
|---|----------------------------|----------------------------------|
| Obstacles, loose pavement, trash, and other debris on or near AOA. Construction debris (gravel, sand, mud, paving materials) on airport pavements may result in aircraft propeller, turbine engine, or tire damage. Also, loose materials may blow about, potentially causing personal injury or equipment damage. | | |
| Inappropriate or poorly maintained fencing during construction intended to deter human and animal intrusions into the AOA. Fencing and other markings that are inadequate to separate construction areas from open AOA create aviation hazards. | | |
| Improper or inadequate marking or lighting of runways (especially thresholds that have been displaced or runways that have been closed) and taxiways that could cause pilot confusion and provide a potential for a runway incursion. Inadequate or improper methods of marking, barricading, and lighting of temporarily | | |
| Wildlife attractants — such as trash (food scraps not collected from construction personnel activity), grass seeds, tall grass, or standing water — on or near airports. | | |
| Obliterated or faded temporary markings on active operational areas. | | |
| Misleading or malfunctioning obstruction lights. Unlighted or unmarked obstructions in the approach to any open runway pose aviation hazards. | | |
| Failure to issue, update, or cancel NOTAMs about airport or runway closures or other construction related airport conditions. | | |
| Failure to mark and identify utilities or power cables. Damage to utilities and power cables during construction activity can result in the loss of runway / taxiway lighting; loss of navigation, visual, or approach aids; disruption of weather reporting services; and/or loss of communications. | | |
| Restrictions on ARFF access from fire stations to the runway / taxiway system or airport buildings. | | |
| Lack of radio communications with construction vehicles in airport movement areas. | | |
| Objects, regardless of whether they are marked or flagged, or activities anywhere on or near an airport that could be distracting, confusing, or alarming to pilots during aircraft operations. | | |

| Item | Action Required (Describe) | No Action Required (Check) |
|---|----------------------------|----------------------------------|
| Water, snow, dirt, debris, or other contaminants that temporarily obscure or derogate the visibility of runway/taxiway marking, lighting, and pavement edges. Any condition or factor that obscures or diminishes the visibility of areas under construction. | | |
| Spillage from vehicles (gasoline, diesel fuel, oil) on active pavement areas, such as runways, taxiways, aprons, and airport roadways. | | |
| Failure to maintain drainage system integrity during construction (for example, no temporary drainage provided when working on a drainage system). | | |
| Failure to provide for proper electrical lockout and tagging procedures. At larger airports with multiple maintenance shifts/workers, construction contractors should make provisions for coordinating work on circuits. | | |
| Failure to control dust. Consider limiting the amount of area from which the contractor is allowed to strip turf. | | |
| Exposed wiring that creates an electrocution or fire ignition hazard. Identify and secure wiring, and place it in conduit or bury it. | | |
| Site burning, which can cause possible obscuration. | | |
| Construction work taking place outside of designated work areas and out of phase. | | |