



**CONTRACT BETWEEN BROWARD COUNTY AND GENERAL
ASPHALT CO., LLC FOR ANNUAL CIVIL REPAIRS AND MAINTENANCE
AT FORT LAUDERDALE-HOLLYWOOD INTERNATIONAL AIRPORT
BID/CONTRACT NO.: PNC2124877C1**

TABLE OF CONTENTS

SUMMARY OF TERMS AND CONDITIONS 1
CONTRACT..... 3
RECITALS 3
ARTICLE 1. DEFINITIONS 3
ARTICLE 2. SCOPE OF WORK..... 6
ARTICLE 3. CONTRACT TIME 6
ARTICLE 4. CONTRACT PRICE 7
ARTICLE 5. PROGRESS PAYMENTS 8
ARTICLE 6. ACCEPTANCE AND FINAL PAYMENT 9
ARTICLE 7. REPRESENTATIONS AND WARRANTIES 10
ARTICLE 8. MISCELLANEOUS..... 12
GENERAL CONDITIONS 20
ARTICLE 1. CONTRACT DOCUMENTS..... 20
ARTICLE 2. INTENTION OF COUNTY 20
ARTICLE 3. PRELIMINARY MATTERS 20
ARTICLE 4. PERFORMANCE BOND AND PAYMENT BOND 21
ARTICLE 5. QUALIFICATION OF SURETY 22
ARTICLE 6. INDEMNIFICATION 23
ARTICLE 7. INSURANCE REQUIREMENTS 23
ARTICLE 8. LABOR AND MATERIALS 27
ARTICLE 9. ROYALTIES AND PATENTS 28
ARTICLE 10. WEATHER 28
ARTICLE 11. PERMITS, LICENSES, AND IMPACT FEES 28
ARTICLE 12. RESOLUTION OF DISPUTES 28
ARTICLE 13. INSPECTION OF WORK 29
ARTICLE 14. SUPERINTENDENCE AND SUPERVISION 30
ARTICLE 15. COUNTY’S RIGHT TO TERMINATE CONTRACT 31

ARTICLE 16. SUSPENSION OF WORK.....	33
ARTICLE 17. PROJECT RECORDS AND RIGHT TO AUDIT.....	33
ARTICLE 18. RIGHTS OF VARIOUS INTERESTS.....	35
ARTICLE 19. EXPLOSIVES.....	35
ARTICLE 20. DIFFERING SITE CONDITIONS.....	35
ARTICLE 21. PLANS AND WORKING DRAWINGS.....	36
ARTICLE 22. CONTRACTOR TO CHECK PLANS, SPECIFICATIONS, AND DATA.....	36
ARTICLE 23. CONTRACTOR’S RESPONSIBILITY FOR DAMAGES AND ACCIDENTS.....	36
ARTICLE 24. WARRANTY.....	36
ARTICLE 25. SUPPLEMENTARY DRAWINGS.....	36
ARTICLE 26. DEFECTIVE WORK.....	37
ARTICLE 27. TAXES.....	37
ARTICLE 28. SUBCONTRACTS.....	37
ARTICLE 29. SEPARATE CONTRACTS.....	38
ARTICLE 30. USE OF COMPLETED PORTIONS.....	38
ARTICLE 31. LANDS OF WORK.....	39
ARTICLE 32. LEGAL RESTRICTIONS AND TRAFFIC PROVISIONS.....	40
ARTICLE 33. LOCATION AND DAMAGE TO EXISTING FACILITIES, EQUIPMENT, OR UTILITIES..	40
ARTICLE 34. VALUE ENGINEERING.....	40
ARTICLE 35. PAYMENT BY COUNTY FOR TESTS.....	41
ARTICLE 36. CHANGE IN THE WORK OR TERMS OF CONTRACT.....	41
ARTICLE 37. FIELD ORDERS AND SUPPLEMENTAL INSTRUCTIONS.....	41
ARTICLE 38. CHANGE ORDERS.....	41
ARTICLE 39. VALUE OF CHANGE ORDER WORK.....	42
ARTICLE 40. NOTIFICATION AND CLAIM FOR CHANGE OF CONTRACT TIME OR CONTRACT PRICE.....	45
ARTICLE 41. NO DAMAGES FOR DELAY.....	46
ARTICLE 42. EXCUSABLE DELAY; COMPENSABLE; NON-COMPENSABLE.....	46
ARTICLE 43. SUBSTANTIAL COMPLETION.....	47
ARTICLE 44. NO INTEREST.....	47
ARTICLE 45. SHOP DRAWINGS.....	48
ARTICLE 46. FIELD LAYOUT OF THE WORK AND RECORD DRAWINGS.....	49
ARTICLE 47. SAFETY AND PROTECTION.....	49

ARTICLE 48. FINAL BILL OF MATERIALS 50

ARTICLE 49. PROJECT SIGN 50

ARTICLE 50. CLEANING UP; COUNTY’S RIGHT TO CLEAN UP 50

ARTICLE 51. HURRICANE PRECAUTIONS..... 50

ARTICLE 52. REMOVAL OF EQUIPMENT 51

ARTICLE 53. DOMESTIC PARTNERSHIP REQUIREMENT 51

ARTICLE 54. EQUAL EMPLOYMENT OPPORTUNITY AND CBE COMPLIANCE..... 51

ARTICLE 55. PUBLIC RECORDS 53

SUPPLEMENTAL GENERAL CONDITIONS 55

SUPPLEMENTAL WAGE REQUIREMENTS..... 56

FORM 1: PERFORMANCE BOND 58

FORM 2: PAYMENT BOND 60

FORM 3: CERTIFICATE AS TO CORPORATE PRINCIPAL..... 62

FORM 4: FORM OF CERTIFICATE AND AFFIDAVIT FOR BONDS \$500,000.00 OR LESS 63

FORM 5: UNCONDITIONAL LETTER OF CREDIT (PERFORMANCE AND PAYMENT
GUARANTY) FORM..... 65

FORM 6: MONTHLY (CBE) UTILIZATION REPORT 67

FORM 7: FINAL (CBE) UTILIZATION REPORT 68

FORM 8: STATEMENT OF COMPLIANCE (PREVAILING WAGE RATE)..... 69

FORM 9: CERTIFICATION OF PAYMENTS TO SUBCONTRACTORS..... 70

FORM 10: CERTIFICATE OF SUBSTANTIAL COMPLETION 71

FORM 11: FINAL CERTIFICATE OF PAYMENT 73

FORM 12: FORM OF FINAL RECEIPT 74

FORM 13: FINAL LIST OF NON-CERTIFIED SUBCONTRACTORS AND SUPPLIERS 76

FORM 14: LETTER OF INTENT (CBE)..... 77

EXHIBIT A: MINIMUM INSURANCE 79

EXHIBIT B: NONDISCRIMINATION REQUIREMENTS..... 80

EXHIBIT C: SECURITY REQUIREMENTS - AVIATION DEPARTMENT 84

EXHIBIT D: ELECTRONIC MEDIA SUBMITTAL REQUIREMENTS 86

EXHIBIT E: FEDERAL AVIATION ADMINISTRATION GENERAL CONTRACT PROVISIONS..... 95

EXHIBIT F: BID TABULATION 175

**CONTRACT BETWEEN BROWARD COUNTY AND GENERAL ASPHALT CO., LLC FOR ANNUAL CIVIL REPAIRS AND MAINTENANCE AT FORT LAUDERDALE-HOLLYWOOD INTERNATIONAL AIRPORT
 BID/CONTRACT NO.: PNC2124877C1**

Project Title:	Annual Civil Repairs And Maintenance at Fort Lauderdale-Hollywood International Airport
Location:	Fort Lauderdale-Hollywood International Airport
Contract Number:	PNC2124877C1
Project Number:	N/A

SUMMARY OF TERMS AND CONDITIONS

General Contractor:	General Asphalt Co., LLC
Contractor Address:	4850 NW 72nd Avenue Miami, Florida 33166
Federal Identification No.:	59-1115297

Contract Administrator:	Gasser Douge
Contract Administrator Address:	Fort Lauderdale-Hollywood International Airport 320 Terminal Drive, Suite 200 Fort Lauderdale, Florida 33315

Article	Description	Unit				
3.3	Liquidated Damages for each calendar day after time specified for Substantial Completion for Runway Work	\$200.00 per day				
3.3	Liquidated Damages for each calendar day after time specified for Final Completion for Runway Work	\$150.00 per day				
3.3	Liquidated Damages for each calendar day after Substantial and Final Completion for Work other than the Runway Work	\$150.00 per day				
8.4	The Parties designate the following as the respective places for giving of notice:	<table border="1"> <tr> <td>For County:</td> <td>Broward County Aviation Department Director of Airport Development 320 Terminal Drive, Suite 200 Ft Lauderdale, Florida 33315</td> </tr> <tr> <td>For Contractor:</td> <td>General Asphalt Co., LLC Robert Lopez Jr., CEO 4850 NW 72nd Avenue Miami, Florida 33166</td> </tr> </table>	For County:	Broward County Aviation Department Director of Airport Development 320 Terminal Drive, Suite 200 Ft Lauderdale, Florida 33315	For Contractor:	General Asphalt Co., LLC Robert Lopez Jr., CEO 4850 NW 72nd Avenue Miami, Florida 33166
For County:	Broward County Aviation Department Director of Airport Development 320 Terminal Drive, Suite 200 Ft Lauderdale, Florida 33315					
For Contractor:	General Asphalt Co., LLC Robert Lopez Jr., CEO 4850 NW 72nd Avenue Miami, Florida 33166					

Article	Description	Unit
54 (General Conditions)	<input checked="" type="checkbox"/> County Business Enterprise (CBE) commitment	As awarded 25%

CONTRACT

This is a construction contract ("Contract") by and between Broward County, a political subdivision of the State of Florida ("County"), and General Asphalt Co., LLC (each a "Party" and collectively referred to as the "Parties"), for the goods and services set forth herein.

RECITALS

- A. County owns and operates the Airport (hereinafter defined).
- B. County conducted a competitive solicitation seeking proposals from vendors to provide the Work.
- C. Contractor submitted a proposal to the solicitation and was the lowest responsive bid during the solicitation process.

Now, therefore, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties agree as follows:

ARTICLE 1. DEFINITIONS

Whenever the following terms appear in the Contract Documents, the intent and meaning shall be interpreted as follows:

- 1.1. **Airport** means Fort Lauderdale-Hollywood International Airport ("FLL"), located in Broward County, Florida, as described in the Master Plan Update, including such additional property that may be acquired by County to implement development as described therein.
- 1.2. **Allowance Account** means an account established to reimburse Contractor for cost expended for a specific purpose related to this Contract, which were not included at the time of execution of the Contract, which can be utilized by Change Order or Contract Price Element Adjustment Memorandum.
- 1.3. **Applicable Law** means all applicable laws, codes, advisory circulars, rules, regulations, or ordinances of any federal, state, county, municipal, or other governmental entity, including as may be amended from time to time.
- 1.4. **Aviation Department** means the Broward County Aviation Department, or any successor agency.
- 1.5. **Bidder** means an entity or individual submitting a bid for this Project, acting directly or through a duly authorized representative.
- 1.6. **Board** means the Board of County Commissioners of Broward County, Florida, its successors and assigns.
- 1.7. **Code** means the Broward County Code of Ordinances.

1.8. **Change Order** means a written document ordering a change in the Contract Price or Contract Time or a material change in the Work.

1.9. **Consultant** means the architect or engineer who has contracted with County or who is an employee of County, and provides professional services for this Project.

1.10. **Contract Administrator** means the Director of Aviation, or such other person designated by the Director of Aviation in writing.

1.11. **Contract Documents** means the official documents setting forth bidding information, requirements, and contractual obligations for the Project and includes Articles 1 through 8 of this Contract, the Contract Supplement, the General Conditions, the Supplemental General Conditions, the Scope of Work, Invitation to Bid, Addenda, Standard Instructions for Vendors, Special Instructions for Vendors, Plans, Drawings, Exhibits, General Requirements, Technical Specifications, Bid Forms, Record of Award by Board, Bonds, Notice of Award, Notice(s) to Proceed, Supplements, Representations and Certifications, Certificates, Project Forms, Closeout Forms, Purchase Order(s), Change Order(s), Field Order(s), Special Provisions, BIM and Electronic Media Submittal Requirements, and any additional documents the submission of which is required by this Project.

1.12. **Contract Price** means the amount established in the bid submittal and award by the Board, as may be amended by Change Order.

1.13. **Contract Price Element Adjustment Memorandum (CPEAM)** means a written document executed by the Contract Administrator ordering a change in the Contract Work, Contract Base Amount, or Contract Time to be paid from an Allowance Account.

1.14. **Contract Time** means the time between commencement and completion of the Work, including any milestone dates thereof, established in Article 3 of this Contract, as may be amended by Change Order.

1.15. **Contractor** means the person, firm, or corporation with whom County has contracted and who is responsible for the acceptable performance of the Work and for the payment of all legal debts or other obligations pertaining to the Work. All references in the Contract Documents to third parties under contract or control of Contractor shall be deemed to be a reference to Contractor.

1.16. **County Business Enterprise or CBE** means a small business certified as meeting the applicable requirements of the Broward County Business Opportunity Act of 2012, Section 1-81, of the Code.

1.17. **Director of Aviation** means the Director or Acting Director of the Aviation Department and such person or persons as may from time to time be authorized in writing by the Board, the County Administrator, or the Director of Aviation to act for the Director of Aviation with respect to any or all matters pertaining to this Contract.

1.18. **Federal Aviation Administration or FAA** means the agency of the United States Government established under 49 U.S.C. § 106, or its successor.

1.19. **Field Order** means a written order that orders minor changes in the Work but which does not involve a change in the Contract Price or Contract Time.

1.20. **Final Completion** means the date certified by Consultant in the Final Certificate of Payment upon which all conditions and requirements of any permits and regulatory agencies have been satisfied; any documents required by the Contract Documents have been received by Consultant; any other documents required to be provided by Contractor have been received by Consultant; and to the best of Consultant's knowledge, information and belief, the Work defined herein has been fully completed in accordance with the terms and conditions of the Contract Documents.

1.21. **Master Plan Update** means the then current Master Plan Update for the Airport, as it may be amended from time to time.

1.22. **Materials** means materials incorporated in this Project or used or consumed in the performance of the Work.

1.23. **Notice(s) to Proceed** means a written notice to Contractor authorizing the commencement of the activities identified in the notice or as described in the Contract Documents.

1.24. **Plans or Drawings** means the official graphic representations of this Project that are a part of the Contract Documents.

1.25. **Project** means the construction project described in the Contract Documents, including the Work described therein.

1.26. **Project Initiation Date** means the date upon which the Contract Time commences.

1.27. **Subcontractor** means a person, firm, or corporation having a direct contract with Contractor, including one who furnishes material worked to a special design according to the Contract Documents, but does not include one who merely furnishes Materials not so worked.

1.28. **Substantial Completion** means that date, as certified in writing by Consultant and as finally determined by Contract Administrator in its sole discretion, on which the Work, or a portion thereof, is at a level of completion in substantial compliance with the Contract Documents such that all conditions of permits and regulatory agencies have been satisfied and County or its designee can enjoy use or occupancy and can use or operate it in all respects for its intended purpose. A Certificate of Occupancy (or a Temporary Certificate of Occupancy ("TCO") or other alternate municipal/county authorization for limited or conditional occupancy acceptable to the Contract Administrator) must be issued for Substantial Completion to be achieved; however, the issuance of a Certificate of Occupancy will not, by itself, constitute the achievement or date of Substantial Completion.

1.29. **Surety** means the surety company or individual that is bound by the performance bond and payment bond with and for Contractor who is primarily liable for satisfactory performance of the Work, and which surety company or individual is responsible for Contractor's satisfactory

performance of the Work under this Contract and for the payment of all debts and other obligations pertaining thereto in accordance with Section 255.05, Florida Statutes.

1.30. **Work** means the construction and services required by the Contract Documents, whether completed or partially completed, and includes all labor, materials, equipment, and services provided or to be provided by Contractor to fulfill Contractor's obligations. The Work may constitute the whole or a part of the Project.

ARTICLE 2. SCOPE OF WORK

Contractor hereby agrees to furnish all of the labor, materials, equipment, services, and incidentals necessary to perform all of the Work described in the Contract Documents for the Project.

ARTICLE 3. CONTRACT TIME

3.1. Contractor shall be instructed to commence the Work by written instruction in the form of a Purchase Order issued by County's Director of Purchasing and two or more Notices to Proceed issued by the Contract Administrator. The first Notice to Proceed and Purchase Order will not be issued until Contractor's submission to County of all required documents and after execution of this Contract by both Parties. Preliminary Work, including submission of a project schedule, schedule of values, submittals, submittal schedule, and other documents required for permitting, and performance of Work that does not require permits, shall commence within seven(7) days after the date of the first Notice to Proceed. Contractor shall have ten (10) days after receipt of signed and sealed contract Drawings from Consultant to apply for construction permits to the applicable permitting authority. Issuance of all permits by the permitting authority shall be a condition precedent to the issuance of a second Notice to Proceed for all additional Work. Except for the reimbursement of permit application fees, impact fees, and performance and payment bond premiums as may be provided in the Contract Documents, Contractor shall not be entitled to compensation of any kind during the permitting process. The Work to be performed pursuant to the second Notice to Proceed shall commence within three (3) days after the Project Initiation Date specified in the second Notice to Proceed, without delay.

3.2. Time is of the essence for each Party's performance under this Contract. Contractor must obtain Substantial Completion of the Work and Final Completion within the schedule specified in the Work Order

3.3. Upon failure of Contractor to obtain Substantial Completion within the deadline stated in Section 3.2, as extended by any approved time extensions, Contractor shall pay to County the sum of [Two Hundred] Dollars (\$200.00) for each day after the deadline for Substantial Completion, as extended by any approved time extensions, until Substantial Completion is obtained. After Substantial Completion, should Contractor fail to complete the remaining Work within the deadline stated in Section 3.2, as extended by approved time extensions thereof, Contractor shall pay to County the sum [One Hundred Fifty] Dollars (\$150.00) for each day after the deadline for Final Completion, as extended by any approved extensions, until Final Completion is obtained. These amounts are not penalties but are liquidated damages to County for its inability to obtain full beneficial occupancy and/or use of the Project. Liquidated damages are hereby fixed and agreed upon between the Parties based on (1) a mutual recognition of the Contract No. PNC2124877C1

impossibility of precisely ascertaining the amount of damages that will be sustained by County as a consequence of Contractor's failure to timely obtain Substantial Completion; and (2) both Parties' desire to obviate any question or dispute concerning the amount of said damages and the cost and effect of the failure of Contractor to complete this Contract on time. These liquidated damages shall apply separately to each portion of the Project for which a deadline for completion is given.

3.4. County may deduct liquidated damages from monies due to Contractor for the Work under this Contract or as much thereof as County may, in its sole discretion, deem just and reasonable.

3.5. Contractor shall reimburse County, in addition to liquidated damages, for all costs incurred by Consultant in administering the construction of the Project beyond the completion dates specified above, as extended by any approved time extensions. Consultant construction administration costs shall be in the amounts set forth in the contract between County and Consultant, a copy of which is available upon request of the Contract Administrator. All such costs shall be deducted from the monies due Contractor for performance of Work under this Contract by means of unilateral credit Change Orders issued by County as costs are incurred by Consultant and agreed to by County.

ARTICLE 4. CONTRACT PRICE

4.1. This is a Unit Price Contract:*

4.1.1. County shall pay to Contractor the amounts determined for the total number of each of the units of Work completed at the unit price stated in the Contract Price. The number of units contained in this schedule is an estimate only, and final payment shall be made for the actual number of units incorporated in or made necessary by the Work covered by the Contract Documents.

4.1.2. Payment shall be made at the unit prices applicable to each integral part of the Work. These prices shall be full compensation for all costs, including overhead and profit, associated with completion of all the Work in full conformity with the requirements as stated or shown, or both, in the Contract Documents. The cost of any item of Work not covered by a specific Contract unit price shall be included in the Contract unit price or lump sum price to which the item is most applicable.

4.2. This is a Lump Sum Contract:*

4.2.1. County shall pay Contractor the Contract Price for the performance of the Work described in the Contract Documents.

4.2.2. Payment shall be at the lump sum price stated in this Contract. This price shall be full compensation for all costs, including overhead and profit, associated with completion of all the Work in full conformity with the requirements as stated or shown, or both, in the Contract Documents. The cost of any item of Work not covered by a specific Contract lump sum should be included in the lump sum price to which the item is most applicable.

*Note: Only the subsections corresponding to any checked box in this Article 4 will apply to this Contract. Some Projects include both unit prices and lump sums, in which case both subsections shall apply as appropriate depending upon the type of Work being performed by Contractor and approved by County.

ARTICLE 5. PROGRESS PAYMENTS

5.1. Contractor may make an application for payment (“Application for Payment”) for Work completed during the Project. Contractor shall, where the Project involves CBE Subcontractors, make Application for Payment, as Work is completed, for Work completed by such Subcontractors during the Project. Contractor’s applications shall show a complete breakdown of the Project components, the quantities completed, and the amount of payment sought, together with such supporting evidence as may be required by Consultant or Contract Administrator. Contractor shall submit with each Application for Payment: an updated progress schedule acceptable to Consultant as required by the Contract Documents; a Certification of Payments to Subcontractors Form (Form 9); a statement indicating the cumulative amount of CBE participation to date; and a release of claims relative to the Work that was the subject of previous applications or consent of surety relative to the Work that is the subject of the Application for Payment. If Contractor has not made payment to a Subcontractor, the Certification of Payments to Subcontractors Form shall be accompanied by a copy of the notification sent to each Subcontractor (listed in Item 2 of the Form) to whom payment has not been made, explaining the good cause why payment was not made. When applicable, an Application for Payment shall be accompanied by a completed Statement of Wage Compliance Form (Form 8). Each Application for Payment shall be submitted in triplicate to Consultant for approval as follows:

[Broward County Aviation Department]
Attn: Gasser Douge
320 Terminal Drive, Suite 200
Fort Lauderdale, Florida 33315

All Applications for Payment shall be stamped as received on the date on which they are delivered in the manner specified above. Payments of Applications for Payment shall be subject to approval as specified hereinbefore, and if approved shall be due twenty-five (25) business days after the date on which the Application for Payment is stamped received. At the end of the twenty-five (25) business days, Contractor may send the Contract Administrator an overdue notice. If the Application for Payment is not rejected within four (4) business days after delivery of the overdue notice, the Application for Payment shall be deemed accepted, except for any portion of the Application for Payment that County determines to be fraudulent or misleading. If the Application for Payment does not meet the requirements of this Contract, County shall reject the Application for Payment within twenty (20) business days after the date stamped received and said rejection shall specify the deficiency and the action necessary to cure that deficiency. If Contractor submits a request that corrects the deficiency, the corrected Application for Payment must be paid or rejected within ten (10) business days after the corrected Application for Payment is stamped as received. Any dispute between County and Contractor shall be resolved in accordance with the Prompt Payment Ordinance (Section 1-51.6 of the Code), subject to the process and time frames for payment set forth above. For all other disputes related to payment,

the dispute shall be resolved pursuant to the dispute resolution procedure set forth in Article 12 of the General Conditions.

5.2. County may withhold retainage on each progress payment as set forth in Section 255.078, Florida Statutes, as may be amended during this Contract. Any reduction in retainage below the maximum amount set forth in Section 255.078, Florida Statutes, shall be at the sole discretion of the Contract Administrator, as may be recommended by Consultant. Any interest earned on retainage shall accrue to the benefit of County.

5.3. Notwithstanding any provision of this Contract to the contrary, County may withhold payment, in whole or in part, in accordance with Applicable Law, or to such extent as may be necessary to protect itself from loss on account of:

5.3.1 Inadequate or defective Work not remedied.

5.3.2 Claims filed or reasonable evidence indicating probable filing of claims by other parties against Contractor or County relating to Contractor's performance.

5.3.3 Failure of Contractor to make payments properly to Subcontractors or for material or labor.

5.3.4 Damage to another contractor not remedied.

5.3.5 Liquidated damages and costs incurred by Consultant for extended construction administration.

5.3.6 Failure of Contractor to provide documents required by the Contract Documents.

When the above grounds are removed or resolved to the satisfaction of the Contract Administrator, any withheld payment shall be made to the extent otherwise due.

ARTICLE 6. ACCEPTANCE AND FINAL PAYMENT

6.1. Upon receipt of written notice from Contractor that the Work is ready for final inspection and acceptance, Consultant shall conduct an inspection within two (2) days. If Consultant and Contract Administrator find that the Work is acceptable; that the requisite documents have been submitted; that the requirements of the Contract Documents are fully satisfied; and that all conditions of the permits and regulatory agencies have been met, a Final Certificate of Payment (Form 11) shall be issued by Consultant, under its signature, stating that the requirements of the Contract Documents have been performed and that the Work is ready for acceptance under the terms and conditions of the Contract Documents.

6.2. Before issuance of the Final Certificate for Payment, Contractor shall deliver to Consultant the following Final Payment Package: a complete release of all claims arising out of this Contract, or receipts in full in lieu thereof; an affidavit certifying that all suppliers and Subcontractors have been paid in full and that all other indebtedness and financial obligations connected with the Work have been paid, or, in the alternative, a consent of the Surety to final payment on Contractor's behalf; the final corrected as-built Drawings; and the final bill of Materials, if required, and the final Application for Payment. This Final Payment Package must include the Contract No. PNC2124877C1

certification document titled Final List of Non-Certified Subcontractors and Suppliers (Form 13), which must be signed and notarized by Contractor. A list of all noncertified Subcontractors and suppliers used must be attached to this certified document.

6.3. If, after Substantial Completion, Final Completion is materially delayed through no fault of Contractor, and Consultant so certifies, County shall, upon certification of Consultant, and without terminating this Contract, make payment of the balance due for any portion of the Work fully completed and accepted. Such payment shall be made under the terms and conditions governing final payment, but it shall not constitute a waiver of claims.

ARTICLE 7. REPRESENTATIONS AND WARRANTIES

7.1. Representation of Authority. Contractor represents and warrants that this Contract constitutes the legal, valid, binding, and enforceable obligation of Contractor, and that neither the execution nor performance of this Contract constitutes a breach of any agreement that Contractor has with any third party or violates Applicable Law. Contractor further represents and warrants that execution of this Contract is within Contractor's legal powers, and each individual executing this Contract on behalf of Contractor is duly authorized by all necessary and appropriate action to do so on behalf of Contractor and does so with full legal authority.

7.2. Solicitation Representations. Contractor represents and warrants that all statements and representations made in Contractor's proposal, bid, or other supporting documents submitted to County in connection with the solicitation, negotiation, or award of this Contract, including during the procurement or evaluation process, were true and correct when made and are true and correct as of the date Contractor executes this Contract, unless otherwise expressly disclosed in writing by Contractor.

7.3. Contingency Fee. Contractor represents that it has not paid or agreed to pay any person or entity, other than a bona fide employee working solely for Contractor, any fee, commission, percentage, gift, or other consideration contingent upon or resulting from the award or making of this Contract.

7.4. Public Entity Crimes. Contractor represents that it is familiar with the requirements and prohibitions of the Public Entity Crime Act, Section 287.133, Florida Statutes, and represents that its entry into this Contract will not violate that Act. In addition to the foregoing, Contractor further represents that there has been no determination that it committed a "public entity crime" as defined by Section 287.133, Florida Statutes, and that it has not been formally charged with committing an act defined as a "public entity crime," regardless of the amount of money involved or whether Contractor has been placed on the convicted vendor list.

7.5. Discriminatory Vendor and Scrutinized Companies List; Countries of Concern. Contractor represents that it has not been placed on the discriminatory vendor list as provided in Section 287.134, Florida Statutes, and that it is not a "scrutinized company" pursuant to Sections 215.473 or 215.4725, Florida Statutes. Contractor further represents that it is not, and for the duration of the Contract will not be, ineligible to contract with County on any of the grounds

stated in Section 287.135, Florida Statutes. Contractor represents that it is, and for the duration of this Contract will remain, in compliance with Section 286.101, Florida Statutes.

7.6. Claims Against Contractor. Contractor represents and warrants that there is no action or proceeding, at law or in equity, before any court, mediator, arbitrator, governmental or other board or official, pending or, to the knowledge of Contractor, threatened against or affecting Contractor, the outcome of which may (a) affect the validity or enforceability of this Contract, (b) materially and adversely affect the authority or ability of Contractor to perform its obligations under this Contract, or (c) have a material and adverse effect on the consolidated financial condition or results of operations of Contractor or on the ability of Contractor to conduct its business as presently conducted or as proposed or contemplated to be conducted.

7.7. Verification of Employment Eligibility. Contractor represents that Contractor and each Subcontractor have registered with and use the E-Verify system maintained by the United States Department of Homeland Security to verify the work authorization status of all newly hired employees in compliance with the requirements of Section 448.095, Florida Statutes, and that entry into this Contract will not violate that statute. If Contractor violates this section, County may immediately terminate this Contract for cause and Contractor shall be liable for all costs incurred by County due to the termination.

7.8. Warranty of Performance. Contractor represents and warrants that it possesses the knowledge, skill, experience, and financial capability required to perform and provide all Work and that each person and entity that will perform or provide Work is duly qualified to perform such Work by all appropriate governmental authorities, where required, and is sufficiently experienced and skilled in the area(s) for which such person or entity will render such Work. Contractor represents and warrants that the Work shall be performed in a skillful and respectful manner, and that the quality of all such Work shall equal or exceed prevailing industry standards for such Work.

7.9. Truth-In-Negotiation Representation. Contractor's compensation under this Contract is based upon its representations to County, and Contractor certifies that the wage rates, factual unit costs, and other information supplied to substantiate Contractor's compensation, including without limitation those made by Contractor during the negotiation of this Contract, are accurate, complete, and current as of the date Contractor executes this Contract. Contractor's compensation may be reduced by County, in its sole discretion, to correct any inaccurate, incomplete, or noncurrent information provided to County as the basis for Contractor's compensation in this Contract.

7.10. Prohibited Telecommunications Equipment. Contractor represents and certifies that Contractor and all Subcontractors do not use any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, as such terms are used in 48 CFR §§ 52.204-24 through 52.204-26. Contractor represents and certifies that Contractor and all Subcontractors shall not provide or use such covered telecommunications equipment, system, or services at any time during the term of this Contract.

7.11. Criminal History Screening Practices. If this Contract is subject to the requirements of Section 26-125(d) of the Code, Contractor represents and certifies that Contractor will comply with Section 26-125(d) of the Code for the duration of the Contract.

7.12. Breach of Representations. Contractor acknowledges that County is materially relying on the representations, warranties, and certifications of Contractor stated in this article, and County shall be entitled to exercise any or all of the following remedies if any such representation, warranty, or certification is untrue: (a) recovery of damages incurred; (b) termination of this Contract without any further liability to Contractor; (c) set off from any amounts due Contractor the full amount of any damage incurred; and (d) debarment of Contractor.

ARTICLE 8. MISCELLANEOUS

8.1. Contract Documents and Priority of Provisions. In the event of any conflict between the terms contained in this Contract and those contained in a Contract Supplement, the terms of such Contract Supplement shall prevail. Furthermore, in the event of any conflict between the terms of the General Conditions included in this Contract and those contained in any General Supplemental Provisions, the terms of such General Supplemental Provisions shall prevail. In addition, anything shown on the drawings and not mentioned in the specifications or mentioned in the specifications and not shown on the drawings, shall have the same effect as if shown or mentioned respectively in both. In the event of a conflict among the Contract Documents, Contractor shall provide the latest, most stringent, and more technical requirement(s), including, but not limited to, the requirements setting forth the better quality or greater quantity.

Notwithstanding the forgoing, to the extent the Contract Documents include Florida Department of Transportation ("FDOT") provisions, the following priority of provisions shall apply in the event of a conflict:

First Priority:	Approved Change Orders, Addendums, or Amendments
Second Priority:	Technical Specifications
Third Priority:	Supplemental Conditions or Special Terms
Fourth Priority:	General Terms and Conditions
Fifth Priority:	Contract
Sixth Priority:	Solicitation documents
Seventh Priority:	Contractor's response to solicitation documents

8.2. Independent Contractor. Contractor is an independent contractor under this Contract. Work provided by Contractor pursuant to this Contract shall be subject to the supervision of Contractor. In providing such services, neither Contractor nor its agents shall act as officers, employees, or agents of County. This Contract shall not constitute or make the Parties a partnership or joint venture.

8.3. Third-Party Beneficiaries. Neither Contractor nor County intends to directly or substantially benefit a third party by entering into this Contract. Therefore, the Parties agree that there are no third-party beneficiaries to this Contract (other than Consultant to the extent this Contract expressly provides Consultant with specific rights or remedies).

8.4. Notices. Unless otherwise stated herein, for notice to a Party to be effective under this

Contract, notice must be sent via U.S. first-class mail, hand delivery, or commercial overnight delivery, each with a contemporaneous copy via email, to the addresses listed below and shall be effective upon mailing or hand delivery (provided the contemporaneous email is also sent). Addresses may be changed by the applicable Party giving notice of such change in accordance with this section.

FOR COUNTY:

Broward County Administrator
Attn: Government Center
115 South Andrews Avenue, Room 409
Fort Lauderdale, Florida 33301
Email address: mcepero@broward.org

with a copy to:

Director of Aviation
320 Terminal Drive, Suite 200
Fort Lauderdale, Florida 33315
Email address: mgale@broward.org

FOR CONTRACTOR:

General Asphalt Co., LLC
4850 NW 72nd Avenue
Miami, Florida 33166
Email address: rob@generalasphalt.com

8.5. Assignment. Neither this Contract nor any interest herein or proceeds hereof shall be assigned, transferred, or encumbered without the written consent of the other party, and Contractor shall not subcontract any portion of the Work required by this Contract except as authorized by Article 28 of the General Conditions. Any attempted assignment, transfer, encumbrance, or subcontract in violation of this section shall be void and ineffective, and shall constitute a breach of this Contract. County reserves the right to condition its approval of any assignment, transfer, encumbrance, or subcontract upon further due diligence and an additional fee paid to County to reasonably compensate it for the performance of any such due diligence.

8.6. Materiality and Waiver of Breach. Each requirement, duty, and obligation set forth in this Contract was bargained for at arm's-length and is agreed to by the Parties. Each requirement, duty, and obligation set forth herein is substantial and important to the formation of this Contract and is, therefore, a material term.

8.7. No Waiver. County's failure to enforce any provision of this Contract shall not be deemed a waiver of its right or power to enforce such provision or a modification of this Contract. The failure to assert a breach of a provision of this Contract shall not be deemed a waiver of such breach or of any subsequent breach, nor shall it be construed to be a modification of the terms of this Contract.

8.8. Severability. If any part of this Contract is found to be unenforceable by a court of competent jurisdiction, that part shall be deemed severed from this Contract and the balance of this Contract shall remain in full force and effect.

8.9. Law, Jurisdiction, Venue, Waiver of Jury Trial. This Contract shall be interpreted and construed in accordance with and governed by the laws of the State of Florida. Jurisdiction of any controversies or legal problems arising out of this Contract, and any action involving the enforcement or interpretation of any rights hereunder, shall be exclusively in the state courts of the Seventeenth Judicial Circuit in Broward County, Florida, and venue for such litigation shall be exclusively in such state courts, forsaking any other jurisdiction that either party may claim by virtue of its residency or other jurisdictional device. **EACH PARTY HEREBY EACH EXPRESSLY WAIVES ANY RIGHTS IT MAY HAVE TO A TRIAL BY JURY OF ANY CIVIL LITIGATION RELATED TO THIS CONTRACT. IF A PARTY FAILS TO WITHDRAW A DEMAND FOR A JURY TRIAL AFTER WRITTEN NOTICE BY THE OTHER PARTY, THE PARTY MAKING THE DEMAND FOR JURY TRIAL SHALL BE LIABLE FOR REASONABLE ATTORNEYS' FEES AND COSTS OF THE OTHER PARTY TO CONTEST THE DEMAND FOR JURY TRIAL, AND SUCH AMOUNTS SHALL BE AWARDED BY THE COURT IN ADJUDICATING THE MOTION. CONTRACTOR, PURSUANT TO ARTICLE 28 OF THE GENERAL CONDITIONS, SHALL SPECIFICALLY BIND ALL SUBCONTRACTORS TO THE PROVISIONS OF THIS SECTION.**

8.10. Amendments. Unless otherwise expressly authorized herein, no modification, amendment, or alteration of any portion of this Contract shall be effective unless contained in a written document executed with the same or similar formality as this Contract by duly authorized representatives of County and Contractor.

8.11. Prior Agreements. The Contract is the final and complete understanding of the Parties regarding the subject matter hereof and supersedes all prior and contemporaneous negotiations and discussions regarding that subject matter. All commitments, agreements, and understandings of the Parties concerning the subject matter of this Contract or the Contract Documents are contained herein.

8.12. Compliance with Laws. Contractor and the Work must comply with all Applicable Law, including, but not limited to, the Americans with Disabilities Act, 42 U.S.C. § 12101, Section 504 of the Rehabilitation Act of 1973, and the requirements of any applicable grant agreements.

8.13. Workforce Investment Program. This Contract constitutes a "Covered Contract" under the Broward Workforce Investment Program, Broward County Administrative Code Section 19.211 ("Workforce Investment Program"). Contractor affirms it is aware of the requirements of the Workforce Investment Program and agrees to use good faith efforts to meet the First Source Referral Goal and the Qualifying New Hires Goal as set forth therein, including by (a) publicly advertising any vacancies that are the direct result of this Contract (whether those vacancies are with Contractor or Subcontractor) exclusively with CareerSource Broward for at least five (5) business days and using good faith efforts to interview any qualified candidates referred under the Workforce Investment Program, and (b) using good faith efforts to hire Qualifying New Hires, as defined by the Workforce Investment Program, for at least fifty percent (50%) of the vacancies that are the direct result of this Contract. Until at least one year after the conclusion of this Contract, Contractor shall maintain and make available to County upon request

all records documenting Contractor's compliance with the requirements of the Workforce Investment Program, and shall submit the required Workforce Investment Reports to the Contract Administrator annually by January 31 and within thirty (30) days after the expiration of termination of this Contract. Failure to demonstrate good faith efforts to meet the First Source Referral Goal and the Qualifying New Hires Goal shall constitute a material breach of this Contract.

8.14. Additional Security Requirements. Contractor certifies and represents that it will comply with the [Airport Security Requirements] attached hereto as **Exhibit C**.

8.15. Drug-Free Workplace. If required under Section 21.23(f), Broward County Administrative Code, or Section 287.087, Florida Statutes, Contractor certifies that it has and will maintain a drug-free workplace program throughout the duration of this Contract.

8.16. Polystyrene Food Service Articles. Contractor shall not sell or provide for use on County property expanded polystyrene products or food service articles (e.g., Styrofoam), unencapsulated expanded polystyrene products, or single-use plastic straws or stirrers, as set forth in more detail in Section 27.173, Broward County Administrative Code.

8.17. Regulatory Capacity. Notwithstanding the fact that County is a political subdivision with certain regulatory authority, County's performance under this Contract is as a Party to this Contract and not in its regulatory capacity. If County exercises its regulatory authority, the exercise of such authority and the enforcement of Applicable Law shall have occurred pursuant to County's regulatory authority as a governmental body separate and apart from this Contract, and shall not be attributable in any manner to County as a party to this Contract.

8.18. Construction Apprenticeship Program. If this Contract is a construction contract as defined in Section 26-9 of the Code, Contractor represents and certifies that it shall at all times comply with the requirements of the Construction Apprenticeship Program as set forth in Sections 26-8 through 26-11 of the Code.

8.19. Interpretation. The titles and headings in the Contract Documents are for reference purposes only and shall not in any way affect the meaning or interpretation of this Contract. All personal pronouns shall include any other gender, and the singular shall include the plural, and vice versa, unless the context otherwise requires. Terms such as "herein" refer to the Contract as a whole and not to any particular sentence, paragraph, or section where they appear, unless the context otherwise requires. Whenever reference is made to a section or article, such reference is to the section or article as a whole, including the subsections thereof, unless the reference is made to a particular subsection or subparagraph of such section or article. Any reference to "days" means calendar days, unless otherwise expressly stated. Any reference to approval by County shall require approval in writing, unless otherwise expressly stated.

8.20. Civil Rights - General. Contractor shall comply with pertinent statutes, executive orders, and such rules as are promulgated to ensure that no person shall, on the grounds of race, creed, color, national origin, sex, age, or disability, be excluded from participating in any activity conducted with or benefiting from federal assistance.

8.21. Civil Rights - Title VII Assurances. Contractor shall abide by and comply with the nondiscrimination requirements attached hereto and incorporated herein as **Exhibit B**, to the extent same are applicable by law, rule, or regulation, or federal grant requirements.

8.22. Nondiscrimination. Neither Party to this Contract shall discriminate on the basis of race, color, sex, religion, national origin, disability, age, marital status, political affiliation, sexual orientation, pregnancy, or gender identity and expression in the performance of this Contract. Contractor shall include the foregoing or similar language in its contracts with any subcontractors, except that any project assisted by the U.S. Department of Transportation funds shall comply with the nondiscrimination requirements in 49 C.F.R. Parts 23 and 26.

8.23. Federal Fair Labor Standards Act (Federal Minimum Wage). This Contract incorporates by reference the provisions of 29 C.F.R. 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. Contractor must monitor compliance with the referenced statute and regulations promulgated thereunder. Contractor must address any claims or disputes that arise from this requirement directly with the U.S. Department of Labor – Wage and Hour Division.

8.24. Occupational Safety and Health Act of 1970. This Contract incorporates by reference the requirements of 29 C.F.R. Part 1910 with the same force and effect as if given in full text. Contractor must provide a work environment that is free from recognized hazards that may cause death or serious physical harm to the employee. Contractor retains full responsibility to monitor its compliance and its subcontractors' compliance with the applicable requirements of the Occupational Safety and Health Act of 1970 (20 C.F.R. Part 1910). 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.

8.25. Airport Issued Identification Media, Public Area Business Purpose Media, and Emergency Response Training. All employees, agents, representatives, contractors, and subcontractors of Contractor shall obtain Airport Issued Identification Media or Public Area Business Purpose Media, and complete emergency response training, as required by Section 2-43, Broward County Code of Ordinances. Contractor shall comply with the requirements of Section 2-43, Broward County Code of Ordinances, including the requirement that Contractor compensate its employees, agents, representatives, contractors, and subcontractors for time spent completing the emergency response training.

8.26. Electronic Media Submittal Requirements. Contractor must comply with the electronic media submittal requirements attached hereto and incorporated herein as **Exhibit D**.

8.27. Retention of Records. If this Project is subject to a Federal Department of Transportation grant, in addition to complying with Article 17 of this Contract, Contractor shall preserve all Contract records for a period of five (5) years after the latter of final payment or the completion of all work to be performed pursuant to this Contract.

8.28. Incorporation by Reference. Any and all Recital clauses stated above are true and correct and are incorporated in this Contract by reference. The attached Exhibits are incorporated into and made a part of this Contract.

8.29. Fiscal Year. The continuation of this Contract beyond the end of any County fiscal year is subject to both the appropriation and the availability of funds pursuant to Chapter 129 and, if applicable, Chapter 212, Florida Statutes.

8.30. Sovereign Immunity. Except to the extent sovereign immunity may be deemed to be waived by entering into this Contract, nothing herein is intended to serve as a waiver of sovereign immunity by County nor shall anything included herein be construed as consent by County to be sued by third parties in any matter arising out of this Contract.

8.31. Counterparts and Multiple Originals. This Contract may be executed in multiple originals, and may be executed in counterparts, whether signed physically or electronically, each of which shall be deemed to be an original, but all of which, taken together, shall constitute one and the same agreement.

(The remainder of this page is intentionally left blank.)

IN WITNESS WHEREOF, the Parties hereto have made and executed this Contract: BROWARD COUNTY through its BOARD OF COUNTY COMMISSIONERS, signing by and through its County Administrator, authorized to execute same by Board action on the 13th day of December, 2022, and Contractor, signing by and through its Chief Executive Officer, duly authorized to execute same.

COUNTY

BROWARD COUNTY, by and through
its County Administrator

By: [Signature]
County Administrator

20th day of January, 2023

Approved as to form by
Andrew J. Meyers
Broward County Attorney
320 Terminal Drive, Suite 200
Fort Lauderdale, Florida 33315
Telephone: (954) 359-6100

By Yesenia Alfonso Digitally signed by Yesenia Alfonso Date: 2023.01.17 11:31:29 -05'00'
Yesenia Alfonso (Date)
Assistant County Attorney

By Alexander J. Williams, Jr. Digitally signed by Alexander J. Williams, Jr. Date: 2023.01.18 16:31:53 -05'00'
Alexander J. Williams, Jr. (Date)
Senior Assistant County Attorney



YA/ch
Annual Civil Repairs – General Asphalt
12/02/22
80071.0113

CONTRACTOR

GENERAL ASPHALT, CO., LLC

By: 
Authorized Signer

Robert Lopez Jr. CEO

Print Name and Title

12 day of January, 2023

WITNESS:

Maria J Sanchez Digitally signed by Maria J Sanchez
Date: 2023.01.12 07:54:53 -05'00'

Signature

Maria de Jesus Sanchez

Print Name of Witness above

GENERAL CONDITIONS

ARTICLE 1. CONTRACT DOCUMENTS

1.1. The Contract Documents shall be followed in strict accordance as to Work, performance, material(s), and dimensions, except when Consultant may authorize, in writing, an exception.

1.2. Dimensions given in figures shall predominate over scaled measurements from the Drawings; however, any discrepancies regarding figures shall be resolved by Consultant. Contractor shall not proceed when in doubt as to any dimension or measurement, but shall seek clarification from Consultant.

ARTICLE 2. INTENTION OF COUNTY

County intends to describe in this Contract a functionally complete Project (or part thereof) to be constructed in accordance with this Contract and in accordance with all codes and regulations governing construction of the Project. The Work is a description of Contractor's obligations and responsibilities and is deemed to include preliminary considerations and prerequisites, as well as all labor, materials, equipment, and tasks, that are such an inseparable part of the Work described that exclusion of them from the Work would render performance by Contractor impractical, illogical, or unconscionable, and shall be supplied by Contractor whether or not specifically called for. When words that have a well-known technical or trade meaning are used to describe Work, materials, or equipment, such words shall be interpreted in accordance with that meaning, unless specified otherwise herein. Reference to standard specifications, manuals, or codes of any technical society, organization, or association, or to the laws or regulations of any governmental authority, whether such reference be specific or by implication, shall mean the latest standard specification, manual, code, laws, or regulations in effect at the time of opening of bids for the Project. Contractor shall comply with such specifications, manuals, codes, laws, or regulations. County will have no duties other than those duties and obligations expressly set forth within this Contract.

ARTICLE 3. PRELIMINARY MATTERS

3.1. At least five (5) days prior to the pre-construction meeting described in Section 3.2, Contractor shall submit to Consultant for Consultant's review and acceptance:

3.1.1. A progress schedule in the indicated form:

Bar Chart

CPM

(CPM is interpreted to be generally as outlined in the Association of General Contractors ("AGC") publication, "The Use of CPM in Construction.")

The progress schedule shall indicate the start and completion dates of the various stages of the Work, and shall show an activity network for the planning and execution of the Work. Included with the progress schedule shall be a narrative description of the progress

schedule. The progress schedule must be updated monthly by Contractor, submitted as part of each Application for Payment, and must be acceptable to Consultant.

3.1.2. A preliminary schedule of Shop Drawing submissions; and

3.1.3. In a lump sum contract or in a contract that includes lump sum bid items of Work, a preliminary schedule of values for all of the Work that includes quantities and prices of items aggregating the Contract Price, in as much detail as may be requested by County in writing, and that subdivides the Work into component parts in sufficient detail to serve as the basis for progress payments during construction.

In addition, after award but prior to the submission of the progress schedule, Consultant, Contract Administrator, and Contractor shall meet with all utility owners and secure from them a schedule of utility relocation; provided, however, that neither Consultant nor County shall be responsible for the nonperformance by the utility owners.

3.2. At a time specified by Consultant, but before Contractor starts the Work at the Project site, a conference attended by Contractor, Consultant, and others as deemed appropriate by Contract Administrator, will be held to discuss the schedules referred to in Section 3.1; to discuss procedures for handling Shop Drawings and other submittals and for processing Applications for Payment; and to establish a working understanding among the Parties as to the Work.

3.3. Immediately after the Project Initiation Date set forth in the applicable Notice to Proceed, a conference attended by Contractor, Consultant, and others, as appropriate, will be held to finalize the schedules submitted in accordance with Section 3.1. Consultant's acceptance of the finalized progress schedule shall only be with respect to the orderly progression of the Work to completion within the Contract Time, but such acceptance shall not constitute acceptance by County or Consultant of the means or methods of construction or of the sequencing or scheduling of the Work. Such acceptance will neither impose on Consultant or County responsibility for the progress or scheduling of the Work, nor relieve Contractor from full responsibility therefor. The finalized schedule of Shop Drawing submissions must be acceptable to Consultant as providing a workable arrangement for processing such submissions. The finalized schedule of values must be acceptable to Consultant as to form and substance.

ARTICLE 4. PERFORMANCE BOND AND PAYMENT BOND

4.1. Within ten (10) days after being notified of the award, Contractor shall furnish a Performance Bond and a Payment Bond containing all the provisions of the Performance Bond (Form 1) and Payment Bond (Form 2). Each Bond shall be in the amount of one hundred percent (100%) of the Contract Price guaranteeing to County the completion and performance of the Work covered in such Contract as well as full payment of all suppliers, laborers, and Subcontractors employed pursuant to this Project. Each Bond shall be with a surety company that is qualified pursuant to Article 5.

4.2. Each Bond shall continue in effect for one (1) year after Final Completion and acceptance of the Work with liability equal to one hundred percent (100%) of the Contract Price, or an additional bond provided to ensure that Contractor will, upon notification by County, correct any

defective or faulty Work or materials that appear within one (1) year after Final Completion of this Contract.

4.3. Pursuant to the requirements of Section 255.05, Florida Statutes, Contractor shall ensure that the bond(s) referenced above shall be recorded in the Official Records of Broward County and provide County with evidence of such recording.

4.4. In lieu of a Performance Bond and a Payment Bond, Contractor may furnish alternate forms of security in the form of cash, money order, certified check, cashier's check, or unconditional letter of credit. Such alternate forms of security shall be subject to the approval of County and for same purpose, and shall be subject to the same conditions as those applicable above, and shall be held by County for one (1) year after completion and acceptance of the Work.

ARTICLE 5. QUALIFICATION OF SURETY

5.1. For all Bid Bonds, Performance Bonds, and Payment Bonds over \$500,000.00:

5.1.1. Each bond must be executed by a surety company of recognized standing, authorized to do business in the State of Florida as surety, having a resident agent in the State of Florida, and having been in business with a record of successful continuous operation for at least the past five (5) years.

5.1.2. The surety company shall hold a current Certificate of Authority as acceptable surety on federal bonds in accordance with United States Department of Treasury Circular 570, Current Revisions. If the amount of the Bond exceeds the underwriting limitation set forth in the circular, in order to qualify as a proper surety herein, the net retention of the surety company shall not exceed the underwriting limitation in the circular, and the excess risks must be protected by coinsurance, reinsurance, or other methods in accordance with Treasury Circular 297, Revised (31 C.F.R. §§ 223.10, 223.11). Further, the surety company shall provide County with evidence satisfactory to County that such excess risk has been protected in an acceptable manner.

5.1.3. A surety company that is rejected by County may be substituted by the Bidder or proposer with a surety company acceptable to County, but only if the bid amount does not increase.

5.1.4. All bonds shall be written through surety insurers authorized to do business in the State of Florida as surety, with the following qualifications according to the latest edition of Best's Insurance Guide, published by AM Best Company, Oldwick, New Jersey:

Amount of Bond	Minimum Policy Holder's Ratings Strength/Financial Size
\$500,001 to \$1,500,000	A / III
\$1,500,001 to \$2,500,000	A / VI
\$2,500,001 to \$5,000,000	A / VII
\$5,000,001 to \$10,000,000	A / VIII
Over \$10,000,000	A / IX

5.2. For projects that do not exceed \$500,000.00, County may accept a Bid Bond, Performance Bond, or Payment Bond from a surety company that has twice the minimum surplus and capital required by the Florida Office of Insurance Regulation at the time the solicitation is issued, if the surety company is otherwise in compliance with the provisions of the Florida Insurance Code, and if the surety company holds a currently valid Certificate of Authority issued by the United States Department of the Treasury under Sections 9304 to 9308 of Title 31 of the United States Code. The Certificate and Affidavit (Form 4) so certifying should be submitted with the Bid Bond, Performance Bond, or Payment Bond.

5.3. More stringent requirements of any grantor agency may be set forth within the Supplemental Conditions. If there are no more stringent requirements, the provisions of this article shall apply.

ARTICLE 6. INDEMNIFICATION

Contractor shall indemnify and hold harmless County and its current, past, and future officers and employees (collectively, "Indemnified Party"), from liabilities, damages, losses, and costs, including, but not limited to, reasonable attorneys' fees (collectively, a "Claim"), to the extent caused by the negligence, recklessness, or intentional wrongful misconduct of Contractor or persons employed or utilized by Contractor in the performance of this Contract, including but not limited to Contractor's Subcontractors, sub-subcontractors, materialmen, or agents of any tier, or any of their respective employees. To the extent considered necessary by Contract Administrator and County Attorney, any sums due Contractor under this Contract may be retained by County until all of County's claims for indemnification pursuant to this Contract have been settled or otherwise resolved, and any amount withheld shall not be subject to payment of interest by County. These indemnifications shall survive the term of this Contract.

ARTICLE 7. INSURANCE REQUIREMENTS

7.1. The specific insurance coverage requirements for this project are identified in the Minimum Insurance Requirements **Exhibit A**, which is a part of the Contract Documents. For purposes of this article, the term "County" shall include Broward County and its members, officials, officers, and employees.

7.2. For the duration of the Contract, Contractor shall, at its sole expense, maintain at least the minimum limits of insurance coverage designated in the Contract Documents (inclusive of any amount provided by an umbrella or excess policy) in accordance with the terms and conditions stated in this article. If Contractor maintains broader coverage or higher limits than the insurance requirements stated in **Exhibit A**, County shall be entitled to all such broader coverages and higher limits. County reserves the right at any time to review and adjust the limits and types of coverage required under this article. Contractor shall add County as an additional insured on all required insurance coverage.

7.3. Contractor shall maintain insurance coverage against claims relating to any act or omission by Contractor, its agents, representatives, employees, or Subcontractors in connection with the Contract. All required insurance under this article shall provide primary coverage, list County as an additional insured, and shall not require contribution from any County insurance, self-insurance or otherwise. All insurance held by County, as well as County's self-insurance, shall

be in excess of and shall not contribute to the insurance provided by Contractor. Unless prohibited by the applicable policy, Contractor waives any right to subrogation that any of Contractor's insurers may acquire against County, and agrees to obtain same in an endorsement on all lines of insurance required of Contractor under this article including any excess or umbrella policies.

7.4. All required insurance policies must be placed with insurers or surplus line carriers authorized to conduct business in the State of Florida with an A.M. Best rating of A- or better and a financial size category class VII or greater, unless otherwise approved by County's Risk Management Division in writing.

7.5. Contractor shall declare in writing any self-insured retentions or deductibles over the limit(s) prescribed in **Exhibit A**, and shall submit same to County, at least fifteen (15) days prior to the effective date of the Contract or commencement of the Work for County's written approval of such retentions or deductibles. Contractor shall be solely responsible for and shall pay any deductible or self-insured retention applicable to any claim against County. County may, at any time, require Contractor to purchase coverage with a lower retention or provide proof of ability to pay losses and related investigations, claim administration, and defense expenses within the retention. Contractor agrees that any deductible or self-insured retention may be satisfied by either the named insured or County, if so elected by County, and Contractor agrees to obtain same in endorsements to the required policies.

7.6. To the extent insurance requirements are designated in the Minimum Insurance Requirements, the applicable policies shall comply with the following:

7.6.1. Commercial General Liability Insurance. Policy shall be no more restrictive than that provided by the latest edition of the standard Commercial General Liability Form (Form CG 00 01) as filed for use in the State of Florida by the Insurance Services Office (ISO), with the exception of endorsements specifically required by ISO or the State of Florida, and liability arising out of: Mold, fungus, or bacteria; Terrorism; Silica, asbestos or lead; Sexual molestation; and Architects and engineers professional liability, unless coverage for professional liability is specifically required by this Contract. County and Consultant shall be included on the policy (and any excess or umbrella policy) as "Additional Insureds" on a form no more restrictive than ISO form CG 20 10 (Additional Insured – Owners, Lessees, or Contractor).

7.6.2. Contractor shall maintain products or completed work coverage for a minimum of three (3) years from the date of the final completion of the Work, unless otherwise stated in the Insurance Requirements Exhibit. In that case, the term specified in the Insurance Requirements shall govern the duration of the coverage required by this paragraph.

7.6.3. Business Automobile Liability Insurance. Policy shall be no more restrictive than that provided by Section II (Liability Coverage) of the most recent version of the standard Business Auto Policy (ISO Form CA 00 01) without any restrictive endorsements, including coverage for liability contractually assumed, and shall cover all owned, non-owned, and hired autos used in connection with the performance of Work under this Contract. County and Consultant shall be included on the policy (and any excess or umbrella policy) as "Additional Insureds."

7.6.4. Workers' Compensation/Employer's Liability Insurance. Such insurance shall be no more restrictive than that provided by the latest edition of the standard Workers' Compensation Policy, as filed for use in Florida by the National Council on Compensation Insurance (NCCI), with the exception of endorsements required by NCCI or the State of Florida. The policy must be endorsed to waive the insurer's right to subrogate against County in the manner which would result from the attachment of the NCCI form "Waiver of our Right to Recover from Others Endorsement" (Advisory Form WC 00 03 13) with County scheduled thereon. Where appropriate, coverage shall be included to the extent required by Applicable Law, including, but not limited to, the Federal Employer's Liability Act, the Jones Act, and the Longshoreman and Harbor Workers' Compensation Act.

If Contractor provides all or a portion of the Workers' Compensation/Employer's Liability insurance required herein via a professional employer organization ("PEO") or employee leasing company, any such Workers' Compensation/Employer's Liability insurance provided will only be deemed acceptable solely for the purposes of insuring Contractor's enrolled employees. In addition, and notwithstanding the foregoing, in order to adequately protect County against injuries to uninsured employees of Subcontractors and non-enrolled employees of Contractor, Contractor must still procure, maintain, and furnish County with evidence of a stand-alone separate Workers' Compensation/Employer's Liability insurance policy issued with Contractor as an additional insured, and complying with all requirements for Contractor provided Workers' Compensation contained in the Contract Documents. It is permissible for Contractor to exclude payroll of leased employees from such separate Workers' Compensation/Employer's Liability insurance policy.

7.6.5. Professional Liability Insurance. Such insurance shall cover Contractor for those sources of liability arising out of the rendering or failure to render professional services in the performance of the services required in this Contract.

7.6.6. Cyber Liability, or Technology Errors and Omissions Insurance. Coverage is required for any system connected to, and, or accessible from the internet. Coverage may be included as part of the required Professional Liability Insurance. Such policy shall cover, at a minimum, the following: Data Loss and System Damage Liability; Security Liability; Privacy Liability; Privacy/Security Breach Response coverage, including Notification Expenses.

7.6.7. Environmental Pollution Liability. Such insurance shall include clean-up costs and provide coverage to Contractor for liability resulting from pollution or other environmental impairment arising out of, or in connection with, Work performed under this Contract, or which arises out of, or in connection with this Contract, including coverage for clean-up of pollution conditions and third-party bodily injury and property damage arising from pollution conditions. Such insurance shall also include Transportation Coverage and Non-Owned Disposal Sites coverage. Should policy provide coverage on a claims-made basis, the coverage shall be in force and effect to respond to all claims reported within at least three years following the period for which coverage is required, unless a longer period is indicated in the Minimum Insurance Requirements,

and which claims would have been covered had the coverage been provided on an occurrence basis.

7.6.8. Property Insurance, Builder's Risk, or Installation Floater. Such insurance shall be in force and evidenced to County as a condition precedent to the Notice to Proceed for construction. Coverage shall be "All Risks," Completed Value form with a deductible not to exceed Ten Thousand Dollars (\$10,000) for each claim for all perils except wind and flood. For the perils of wind and flood, Contractor shall maintain a deductible that is commercially feasible but which does not exceed five percent (5%) of the "values at risk at the time of loss" unless otherwise approved by County.

Sublimits: With respect to coverage for the peril of wind, the policy shall not be subject to any sublimit less than Fifty Million Dollars (\$50,000,000) per occurrence. With respect to the peril of Flood, the policy shall not be subject to any sublimit less than Ten Million Dollars (\$10,000,000) per occurrence. Any sublimit for wind or flood lower than those identified in the foregoing must be approved by County.

Waiver of Occupancy Clause or Warranty-Policy must be specifically endorsed to eliminate any "Occupancy Clause" or similar warranty or representation that the building(s), addition(s) or structure(s) in the course of construction shall not be occupied without specific endorsement of the policy. The policy must be endorsed to provide that the Builder's Risk coverage will continue to apply until final acceptance of the building(s), addition(s) or structure(s) by County.

County reserves the right to purchase or provide property insurance covering the materials, equipment and supplies that are intended for specific installation in the Project while such materials, equipment and supplies are located at the Project site (this coverage will be specifically to cover property under construction or similar coverage), in transit, and while temporarily located away from the Project site for the purpose of repair, adjustment or storage at the risk of one (1) of the insured parties. This coverage will not cover any of Contractor's or Subcontractors' tools, equipment, machinery or provide any business interruption or time element coverage to the contractors. If County elects to purchase property insurance or provide for coverage under its existing insurance for this Project, then in that case, the insurance required to be carried by Contractor may be modified to account for the insurance being provided by County, at County's discretion. Such modification may also include execution of Waiver of Subrogation documentation. If a claim with respect to this Project is made upon County's insurance policy, Contractor shall be responsible for up to the first Fifty Thousand Dollars (\$50,000) of the deductible amount for such claim.

7.7. On or before the effective date of the Contract, or at least fifteen (15) days prior to commencement of the Work, as requested by County, Contractor shall provide County with a copy of all Certificates of Insurance or other documentation sufficient to demonstrate the insurance coverage required in this article.

7.8. Contractor shall ensure that all insurance coverages required by this article remain in full force and effect without any lapse in coverage for the duration of this Contract and until all performance required by Contractor has been completed, as determined by Contract Contract No. PNC2124877C1

Administrator. Contractor shall provide notice to County of any cancellation or modification of any required policy at least thirty (30) days prior to the effective date of cancellation or modification, and at least ten (10) days prior to the effective date of any cancellation due to nonpayment, and shall concurrently provide County with a copy of its updated Certificates of Insurance evidencing continuation of the required coverage(s).

7.9. If and to the extent requested by County, Contractor shall provide to County complete, certified copies of all required insurance policies and all required endorsements within thirty (30) days after County's request.

7.10. Contractor shall ensure that "Broward County, 115 S. Andrews Avenue, Fort Lauderdale, Florida 33301" and Consultant are listed as additional insureds on all policies required under this article. Broward County shall be listed as Certificate Holder.

7.11. Contractor shall require each Subcontractor to maintain insurance coverage that adequately covers the Work provided by that Subcontractor on substantially the same insurance terms and conditions required of Contractor under this article. Contractor shall ensure that all such Subcontractors comply with these requirements and that "Broward County" and Consultant are named as additional insureds under the Subcontractors' applicable insurance policies. If Contractor or any Subcontractor fails to maintain the insurance required by the Contract Documents, County may pay any costs of premiums necessary to maintain the required coverage and deduct such costs from any payment otherwise due to Contractor. Contractor shall not permit any Subcontractor to provide services under the Contract unless and until the requirements of this section are satisfied. If requested by County, Contractor shall provide, within one (1) business day, evidence of each Subcontractor's compliance with this article.

7.12. If any of the policies required under this article provide claims-made coverage: (1) any retroactive date must be prior to the effective date of the Contract; (2) the required coverage must be maintained after termination or expiration of the Contract for at least the duration stated in **Exhibit A**; and (3) if coverage is canceled or nonrenewed and is not replaced with another claims-made policy form with a retroactive date prior to the effective date of the Contract, Contractor must obtain and maintain "extended reporting" coverage that applies after termination or expiration of the Contract for at least the duration stated in **Exhibit A**.

ARTICLE 8. LABOR AND MATERIALS

8.1. Unless otherwise provided herein, Contractor shall provide and pay for all Materials, labor, water, tools, equipment, light, power, transportation, and other facilities and services necessary for the proper execution and completion of the Work, whether temporary or permanent, and whether or not incorporated or to be incorporated in the Work.

8.2. Contractor shall at all times enforce strict discipline and good order among its employees and Subcontractors at the Project site, and shall not employ on the Project any unfit person or anyone not skilled in the Work to which they are assigned.

ARTICLE 9. ROYALTIES AND PATENTS

All fees, royalties, and claims for any invention, or pretended inventions, or patent of any article, material, arrangement, appliance, or method that may be used upon or in any manner be connected with the construction of the Work or appurtenances, are hereby included in the prices stipulated in this Contract for said Work.

ARTICLE 10. WEATHER

Extensions to the Contract Time for delays caused by the effects of inclement weather shall be submitted as a request for a change in the Contract Time pursuant to Article 40. Time extensions are justified only when rain, other inclement weather conditions, or related adverse soil conditions result in Contractor being unable to work at least fifty percent (50%) of the normal workday on controlling items of Work identified on the accepted schedule or updates to that schedule.

ARTICLE 11. PERMITS, LICENSES, AND IMPACT FEES

11.1. Except as otherwise provided within the Special Instructions for Vendors, Contractor shall secure and pay for all necessary permits and licenses required for the Work pursuant to by Applicable Law. Contractor shall be reimbursed for only the actual amount of the permit fees levied by the permitting authority and paid by the Contractor as evidenced by an invoice or other acceptable documentation issued by the permitting authority. Reimbursement to Contractor shall be on a pass-through basis and shall not include profit or overhead of Contractor. Contractor shall have and maintain appropriate Certificate(s) of Competency, valid for the Work to be performed and valid for the jurisdiction in which the Work is to be performed, for all persons working on the Project for whom a Certificate of Competency is required.

11.2. County shall directly pay for all impact fees levied by any municipal governmental entity with jurisdiction.

ARTICLE 12. RESOLUTION OF DISPUTES

12.1. To prevent all disputes and litigation, the Parties agree that Consultant shall decide all questions, claims, difficulties, and disputes of whatever nature that may arise relative to the technical interpretation of the Contract Documents or fulfillment of the Contract as to the character, quality, amount, and value of any Work done or materials furnished, or proposed to be done or furnished, under or by reason of the Contract Documents, and Consultant's decisions of all claims, questions, difficulties, and disputes shall be final and binding to the extent provided in Section 12.2. Any claim, question, difficulty, or dispute that cannot be resolved by agreement of the Contract Administrator and Contractor shall be submitted to Consultant in writing within five (5) days after the date of impasse. Unless a different period of time is set forth in this Contract, Consultant shall notify the Contract Administrator and Contractor in writing of Consultant's decision within fourteen (14) days after the date of the receipt of the claim, question, difficulty, or dispute, unless Consultant requires additional time to gather information or allow the Parties to provide additional information. Except for disputes directly related to the promptness of payment as set forth in Section 5.1 of the Contract, all nontechnical administrative disputes shall be determined by the Contract Administrator pursuant to the time periods

provided herein. During the pendency of any dispute and after a determination thereof, Contractor, Consultant, and Contract Administrator shall act in good faith to mitigate any potential damages, including utilization of construction schedule changes and alternative means of construction.

12.2. If the determination of a dispute under this article is unacceptable to either party, the party objecting to the determination must notify the other party in writing within ten (10) days of receipt of the written determination. The notice must state the basis of the objection and must be accompanied by a statement that any Contract Time or Contract Price adjustment claimed is the entire adjustment to which the objecting party has reason to believe it is entitled to as a result of the determination. Within sixty (60) days after Final Completion of the Work, the Parties shall participate in mediation to address all objections to any determinations and to attempt to prevent litigation. Neither party shall commence litigation prior to the expiration of the sixty (60) day mediation period. The mediator shall be mutually agreed upon by the Parties. Should any objection not be resolved in mediation, the Parties retain all their legal rights and remedies provided under State law. **A PARTY SPECIFICALLY WAIVES ALL OF ITS RIGHTS, INCLUDING, BUT NOT LIMITED TO, CLAIMS FOR CONTRACT TIME AND CONTRACT PRICE ADJUSTMENTS PROVIDED IN THE CONTRACT, INCLUDING ITS RIGHTS AND REMEDIES UNDER STATE LAW, IF SAID PARTY FAILS TO COMPLY IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THIS ARTICLE.**

ARTICLE 13. INSPECTION OF WORK

13.1. Consultant and County shall at all times have access to the Work, and Contractor shall provide proper facilities for such access and for inspecting, measuring, and testing.

13.1.1. Should the Contract Documents, Consultant's instructions, or Applicable Law require any of the Work to be specially tested or approved, Contractor shall give Consultant timely notice of readiness of the Work for testing. If the testing or approval is to be made by an authority other than County, timely notice shall be given of the date fixed for such testing. Testing shall be performed promptly, and, where practicable, at the source of supply. If any of the Work is covered up without approval or consent of Consultant, it must, if required by Consultant, be uncovered for examination and properly restored at Contractor's expense.

13.1.2. Reexamination of any of the Work may be ordered by Consultant with prior written approval by the Contract Administrator, and if so ordered, the Work must be uncovered by Contractor. If such Work is found to be in accordance with this Contract, County shall pay the cost of reexamination and replacement by means of a Change Order. If such Work is not in accordance with this Contract, Contractor shall pay such cost.

13.2. Inspectors shall have no authority to permit deviations from, or to relax or waive, any of the provisions of the Contract Documents, or to delay the Project by failure to inspect the materials and Work with reasonable promptness, without the written permission or instruction of Consultant.

13.3. The payment of any compensation, the giving of any gratuity, or the granting of any favor, of any character or form, by Contractor to any inspector, directly or indirectly, is strictly prohibited, and any such act on the part of Contractor will constitute a breach of this Contract.

ARTICLE 14. SUPERINTENDENCE AND SUPERVISION

14.1. County's instructions are to be given through Consultant, which instructions Contractor must strictly and promptly follow in every case. Contractor shall keep on the Project a full-time, competent, English-speaking superintendent and any necessary assistants, all of whom must be satisfactory to Consultant. The superintendent shall not be changed except with the written consent of Consultant, unless the superintendent proves to be unsatisfactory to Contractor and ceases to be in its employ. The superintendent shall represent Contractor; all instructions given to the superintendent shall be as binding as if given to Contractor, and will be confirmed in writing by Consultant upon the written request of Contractor. Contractor shall provide efficient supervision of the Work, using its best skill and attention.

14.2. On a daily basis, Contractor's superintendent shall record, at a minimum, the following information in a bound log: the day; date; weather conditions and how any weather condition affected progress of the Work; time of commencement of Work for the day; the Work being performed; materials, labor, personnel, equipment and Subcontractors at the Project site; visitors to the Project site, including representatives of County, Consultant, or regulatory representatives; any event that caused or contributed a delay to the critical path of the Project; any special or unusual conditions or occurrences encountered; and the time of termination of Work for the day. All information shall be recorded in the daily log in ink, unless otherwise approved by Consultant. The daily log shall be kept on or accessible from the Project site and shall be available at all times for inspection and copying by County and Consultant.

14.3. The Contract Administrator, Contractor, and Consultant shall meet at least every two (2) weeks (or as otherwise determined by the Contract Administrator) during the course of the Work to review and agree upon the Work performed to date and to establish the controlling items of Work for the next two (2) weeks. Consultant shall publish, keep, and distribute minutes and any comments thereto of each such meeting.

14.4. If Contractor, in the course of performing the Work, finds any discrepancy between this Contract and the physical conditions of the locality, or any errors, omissions, or discrepancies in this Contract, it shall be Contractor's duty to immediately inform Consultant, in writing, and Consultant will promptly review same. Any Work done after such discovery, until authorized, will be done at Contractor's sole risk, without entitlement to reimbursement or compensation.

14.5. Contractor shall supervise and direct the Work competently and efficiently, devoting such attention thereto and applying such skills and expertise as may be necessary to perform the Work in accordance with this Contract. Contractor shall be solely responsible for the means, methods, techniques, sequences, and procedures of construction.

ARTICLE 15. COUNTY'S RIGHT TO TERMINATE CONTRACT

15.1. The Contract Administrator may give notice in writing to Contractor and its Surety of delay, neglect, or default, specifying the same with a notice to cure, upon the occurrence of any of the following:

15.1.1. Contractor fails to begin the Work within five (5) days after the Project Initiation Date;

15.1.2. Contractor fails to perform the Work with sufficient workers, equipment, or materials to ensure the prompt completion of the Work;

15.1.3. Contractor performs the Work unsuitably or causes it to be rejected as defective and unsuitable;

15.1.4. Contractor discontinues performance of the Work in contravention of the accepted schedule;

15.1.5. Contractor fails to perform any material term set forth in this Contract;

15.1.6. Contractor becomes insolvent or declared bankrupt, commits any act of bankruptcy or insolvency, or makes an assignment for the benefit of creditors; or

15.1.7. From any other cause whatsoever, Contractor fails to carry on the Work in an acceptable manner.

15.2. If Contractor, within a period of ten (10) days after such notice, does not proceed to cure in accordance therewith, then County's awarding authority for this Contract may, upon written certification from Consultant of the fact of such delay, neglect, or default and Contractor's failure to comply with such notice, terminate the services of Contractor, exclude Contractor from the Project site and take the performance of the Work out of the hands of Contractor, and appropriate or use any or all materials and equipment on the Project site as may be suitable and acceptable. In such case, Contractor shall not be entitled to receive any further payment until the Project is completed. In addition, County may enter into an agreement for the completion of the Project according to the terms and provisions of this Contract, use such other methods as in the Contract Administrator's sole opinion shall be required for the completion of the Project according to the terms and provisions of this Contract, or use such other methods as in the Contract Administrator's sole opinion shall be required for the completion of the Project in an acceptable manner. All damages, costs, and charges incurred by County, together with the costs of completing the Project, shall be deducted from any monies due or which may become due to Contractor. If the damages and expenses so incurred by County shall exceed the unpaid balance, Contractor shall be liable and shall pay to County the amount of said excess.

15.3. If County erroneously, improperly, or unjustifiably terminates for cause, such termination shall be deemed a termination for convenience and the rights and obligations of County and Contractor shall be the same as if the termination had been exercised pursuant to the Termination for Convenience clause as set forth in Section 15.4 below.

15.4. This Contract may be terminated for convenience, for any reason or no reason, in writing by the Board with at least ten (10) days' advance written notice to Contractor (delivered by certified mail, return receipt requested) of intent to terminate and the date on which such termination becomes effective. Unless otherwise stated in this Contract, if this Contract was approved by Board action, termination for cause by County must be by action of the Board or the County Administrator; in any other instance, termination for cause may be by the County Administrator, the County representative expressly authorized under this Contract, or the County representative (including any successor) who executed the Contract on behalf of County. If this Contract is terminated by County pursuant to this section, Contractor shall be paid for all Work properly executed and actual expenses incurred prior to termination in addition to termination settlement costs reasonably incurred by Contractor relating to commitments that had become firm prior to the termination. Payment shall include reasonable profit for Work and services performed as limited by Article 39 hereof. All actual expenses incurred shall have sufficient back-up documentation to verify that such expenses were actually incurred by Contractor. No payment shall be made for profit for Work and services that Contractor has not performed. Contractor acknowledges that it has received good, valuable, and sufficient consideration for County's right to terminate this Contract for convenience including in the form of County's obligation to provide advance notice to Contractor of such termination in accordance with this Section 15.4.

15.5. Upon receipt of a notice of termination pursuant to Sections 15.2, 15.4, or 15.6, Contractor shall promptly discontinue all affected Work unless the notice of termination directs otherwise, and shall deliver or otherwise make available to County all data, drawings, specifications, reports, estimates, summaries, and such other information as may have been required by this Contract whether completed or in process.

15.6. This Contract may also be terminated by the Board:

15.6.1. Upon the disqualification of Contractor as a CBE firm by County's Director of the Office of Economic and Small Business Development ("OESBD") if Contractor's status as a CBE firm was a factor in the award of this Contract and such status was misrepresented by Contractor;

15.6.2. Upon the disqualification of Contractor by County's Director of the OESBD due to fraud, misrepresentation, or material misstatement by Contractor in the course of obtaining this Contract or attempting to meet the CBE contractual obligations;

15.6.3. Upon the disqualification of one or more of Contractor's CBE participants by County's Director of the OESBD if any such participant's status as a CBE firm was a factor in the award of this Contract and such status was misrepresented by Contractor or such participant;

15.6.4. Upon the disqualification of one or more of Contractor's CBE participants by County's Director of the OESBD if such CBE participant attempted to meet its CBE contractual obligations through fraud, misrepresentation, or material misstatement;

15.6.5. If Contractor is determined by County's Director of the OESBD to have been knowingly involved in any fraud, misrepresentation, or material misstatement concerning the CBE status of its disqualified CBE participant; or

15.6.6. If Contractor is a “scrutinized company” pursuant to Sections 215.473 or 215.4725, Florida Statutes, if Contractor is placed on a “discriminatory vendor list” pursuant to Section 287.134, Florida Statutes, or if Contractor is otherwise ineligible to transact business with County under Applicable Law or provides a false certification submitted pursuant to Section 287.135, Florida Statutes.

ARTICLE 16. SUSPENSION OF WORK

Contractor shall carry on the Work and adhere to the progress schedule during all disputes or disagreements with County. No Work shall be delayed or postponed pending resolution of any disputes or disagreements except as Contractor and County may otherwise agree in writing. Suspension of Work by Contractor during any dispute or disagreement with County shall entitle County to terminate this Contract for cause.

ARTICLE 17. PROJECT RECORDS AND RIGHT TO AUDIT

17.1. Audit Rights and Retention of Records. Contractor and all Subcontractors shall preserve all Contract Records (as defined below) for a minimum period of three (3) years after expiration or termination of this Contract or until resolution of any audit findings, whichever is longer. This article shall survive any dispute or litigation between the Parties, and Contractor expressly acknowledges and agrees to be bound by this article throughout the course of any dispute or litigation with County. Contract Records shall, upon reasonable notice, be open to County inspection and subject to audit and reproduction during normal business hours. County audits and inspections pursuant to this article may be performed by any County representative (including any outside representative engaged by County). County may conduct audits or inspections at any time during the term of this Contract and for a period of three years after the expiration or termination of this Contract (or longer if required by Applicable Law). County may, without limitation, verify information, payroll distribution, and amounts through interviews, written affirmations, and on-site inspection with Contractor’s employees, Subcontractors, vendors, or other labor.

County shall have the right to audit, review, examine, inspect, analyze, and make copies of all Contract Records at a location within Broward County. County reserves the right to conduct such audit or review at Contractor’s place of business, if deemed appropriate by County, with seventy-two (72) hours’ advance notice. Contractor agrees to provide adequate and appropriate workspace for such review. Contractor shall provide County with reasonable access to Contractor’s facilities, and County shall be allowed to interview all current or former employees to discuss matters pertinent to the performance of this Contract. Contractor shall make all Contract Records available electronically in common file formats or via remote access if, and to the extent, requested by County.

17.2. Contract Records include any and all information, materials and data of every kind and character, including without limitation, records, books, papers, documents, subscriptions, recordings, agreements, purchase orders, leases, contracts, commitments, arrangements, notes, daily diaries, drawings, receipts, vouchers and memoranda, and any and all other documents that pertain to rights, duties, obligations, or performance under this Contract. Contract Records include hard copy and electronic records, written policies and procedures, time sheets, payroll records and registers, cancelled payroll checks, estimating work sheets, correspondence, invoices

and related payment documentation, general ledgers, insurance rebates and dividends, and any other records pertaining to rights, duties, obligations or performance under this Contract, whether by Contractor or Subcontractors, or otherwise necessary to adequately permit evaluation and verification of any or all of the following:

- a) Compliance with Contract
- b) Compliance with the Code (including County’s code of ethics)
- c) Compliance with Contract provisions regarding the pricing of Change Orders
- d) Accuracy of Contractor representations regarding the pricing of invoices
- e) Accuracy of Contractor representations related to claims submitted by Contractor including Subcontractors, or any of its other payees.

In addition to the normal documentation Contractor typically furnishes to County, in order to facilitate efficient use of County resources when reviewing or auditing Contractor’s billings and related reimbursable cost records, Contractor agrees to furnish (upon request) the following types of information in the specified computer readable file format(s):

Type of Record	File format
Monthly Job Cost Detail	.pdf and Excel
Detailed Job Cost History to Date	.pdf and Excel
Monthly Labor Distribution detail (if not already separately detailed in the Job Cost Detail)	.pdf and Excel
Total Job to Date Labor Distribution detail (if not already included in the detailed Job Cost History to date)	.pdf and Excel
Employee Timesheets documenting time worked by all individuals who charge reimbursable time to the project	.pdf
Daily Foreman Reports listing names and hours and tasks of personnel who worked on the project	.pdf
Daily Superintendent Reports	.pdf
Detailed Subcontract Status Reports (showing original subcontract value, approved subcontract change orders, subcontractor invoices, payment to Subcontractors, etc.	.pdf and Excel
Copies of Executed Subcontracts with all Subcontractors	.pdf
Copies of all executed Change Orders issued to Subcontractors	.pdf
Copies of all documentation supporting reimbursable job costs (Subcontractor payment applications, vendor invoices, internal cost charges, etc.)	.pdf

17.3. Contractor shall, by written contract, require all Subcontractors to agree to the requirements and obligations of this article.

17.4. Any incomplete or incorrect entry in such books, records, and accounts shall be a basis for County’s disallowance and recovery of any payment reliant upon such entry.

17.5. If an audit inspection or examination in accordance with this article reveals overpricing or overcharges to County of any nature by Contractor or its Subcontractors in excess of five percent (5%) of the total contract billings reviewed by County, in addition to making adjustments for the

overcharges, Contractor shall pay the reasonable cost of County's audit. Any adjustments or payments due as a result of any such audit or inspection shall be made within thirty (30) days after presentation of County's findings to Contractor.

ARTICLE 18. RIGHTS OF VARIOUS INTERESTS

Whenever work being done by County's forces or by other contractors is contiguous to or within the limits of Work covered by this Contract, the respective rights of the various interests involved shall be established by the Contract Administrator to secure the completion of the various portions of the Work in general harmony.

ARTICLE 19. EXPLOSIVES

When the use of explosives is necessary in performance of the Work, Contractor shall exercise the utmost care in the handling and usage of such explosives for the protection of life and property. All explosives shall be stored in a safe manner in storage clearly marked "Dangerous-Explosives," and shall be placed in the care of competent watchmen. When the use of explosives becomes necessary, Contractor shall furnish to County proof of insurance coverage, adequately providing public liability and property damage insurance as a rider attached to its regular policies, unless otherwise included in the policies themselves.

ARTICLE 20. DIFFERING SITE CONDITIONS

If during the course of the Work Contractor encounters (1) subsurface or concealed conditions at the Project site that differ materially from those shown in the Contract Documents and from those ordinarily encountered and generally recognized as inherent in work of the character called for in this Contract; or (2) unknown physical conditions of the Project site, of an unusual nature, which differ materially from that ordinarily encountered and generally recognized as inherent in work of the character called for in this Contract, then Contractor, without disturbing the conditions and before performing any Work affected by such conditions, shall, within twenty-four (24) hours of their discovery, notify Contract Administrator and Consultant in writing of the existence of the aforesaid conditions. Consultant and Contract Administrator shall, within two (2) business days after receipt of Contractor's written notice, investigate the site conditions identified by Contractor. If, in the sole opinion of Contract Administrator, the conditions do materially so differ and cause an increase or decrease in Contractor's cost of, or the time required for, the performance of any part of the Work, whether or not charged as a result of the conditions, Contract Administrator may recommend an equitable adjustment to the Contract Price, or the Contract Time, or both. If Contract Administrator and Contractor cannot agree on an adjustment in the Contract Price or Contract Time, the adjustment shall be referred to Consultant for determination in accordance with the provisions of Article 12. No request by Contractor for an equitable adjustment to this Contract under this provision shall be allowed unless Contractor has given written notice to Contract Administrator in strict accordance with the provisions of this article. **No request for an equitable adjustment or change to the Contract Price or Contract Time for differing site conditions shall be allowed if made after the date certified by Contract Administrator as the date of Substantial Completion.**

ARTICLE 21. PLANS AND WORKING DRAWINGS

County, through Consultant, shall have the right to modify the details of the plans and specifications and to supplement the plans and specifications with additional plans, drawings, or additional information as the Work proceeds, all of which shall be considered as part of this Contract. In case of disagreement between the written and graphic portions of this Contract, the written portion shall govern.

ARTICLE 22. CONTRACTOR TO CHECK PLANS, SPECIFICATIONS, AND DATA

Contractor shall verify all dimensions, quantities, and details shown on the plans, specifications or other data received from Consultant, and shall notify Consultant of all errors, omissions, or discrepancies found therein within three (3) days after discovery. Contractor will not be allowed to take advantage of any error, omission, or discrepancy to not stop or delay Work, because Consultant will advise Contractor how to proceed to avoid stoppage or delay of Work. Contractor shall not be liable for damages resulting from errors, omissions, or discrepancies in this Contract unless Contractor recognized such error, omission, or discrepancy, and failed to report it to Consultant.

ARTICLE 23. CONTRACTOR'S RESPONSIBILITY FOR DAMAGES AND ACCIDENTS

23.1. Contractor shall accept full responsibility for the Work against all loss or damage of whatsoever nature sustained until final acceptance by County, and shall promptly repair any damage done from any cause whatsoever, except as provided in Article 30.

23.2. Contractor shall be responsible for all Materials, equipment and supplies pertaining to the Project. If any such Materials, equipment or supplies are lost, stolen, damaged, or destroyed prior to final acceptance by County, Contractor shall replace same without cost to County, except as provided in Article 30.

ARTICLE 24. WARRANTY

Contractor warrants to County that all Materials and equipment furnished under this Contract will be new unless otherwise specified and that all of the Work will be of good quality, free from faults and defects, and in conformance with this Contract. All Work not conforming to these requirements, including substitutions not properly approved and authorized, may be considered defective. If required by Consultant, Contractor shall furnish satisfactory evidence as to the kind and quality of Materials and equipment. This warranty is not limited by the provisions of Article 26 herein.

ARTICLE 25. SUPPLEMENTARY DRAWINGS

25.1. When, in the opinion of Consultant, it becomes necessary to explain the Work to be done more fully, or to illustrate the Work further, or to show any changes that may be required, supplementary drawings, with specifications pertaining thereto, will be prepared by Consultant.

25.2. The supplementary drawings shall be binding upon Contractor with the same force as this Contract. Where such supplementary drawings require either less or more than the original quantities of Work, appropriate adjustments shall be made by Change Order.

ARTICLE 26. DEFECTIVE WORK

26.1. Consultant has the authority to reject or disapprove Work that Consultant finds to be defective. If required by Consultant, Contractor shall promptly either correct all defective Work or remove such defective Work and replace it with non-defective Work. Contractor shall bear all direct, indirect, and consequential costs of such removal or corrections including cost of testing laboratories and personnel.

26.2. Should Contractor fail or refuse to remove or correct any defective Work or to make any necessary repairs in accordance with the requirements of this Contract within the time indicated in writing by Consultant, County shall have the authority to cause the defective Work to be removed or corrected, or make such repairs as may be necessary, at Contractor's expense. Any expense incurred by County in making such removals, corrections, or repairs, shall, at County's election, be paid for out of any monies due or which may become due to Contractor or charged against the Performance Bond. In the event of failure of Contractor to make all necessary repairs promptly and fully, County may declare Contractor in default.

26.3. If, within one (1) year after Substantial Completion or such longer period of time as may be prescribed by the terms of any applicable special warranty required by this Contract, or by any specific provision of this Contract, any of the Work is found to be defective or not in accordance with this Contract, Contractor, after receipt of written notice from County, shall promptly correct such defective or nonconforming Work within the time specified by County, without cost to County. Nothing contained herein shall be construed to establish a period of limitation with respect to any other obligation that Contractor might have under this Contract, including, but not limited to, Article 24 hereof and any claim regarding latent defects.

26.4. Failure to reject any defective Work or material shall not in any way prevent later rejection when such defect is discovered, nor shall such failure obligate County to final acceptance.

ARTICLE 27. TAXES

Contractor shall pay all applicable sales, consumer, use, and other taxes required by Applicable Law. Contractor is responsible for reviewing the pertinent state statutes involving state taxes and complying with all their requirements.

ARTICLE 28. SUBCONTRACTS

28.1. Each Subcontractor must possess certificates of competency and licenses required by Applicable Law. Contractor shall notify the Contract Administrator and Consultant of any change in Subcontractors.

28.2. Contractor shall not employ any Subcontractor against whom County or Consultant may have a reasonable objection. Contractor shall not be required to employ any Subcontractor against whom Contractor has a reasonable objection.

28.3. Contractor shall be fully responsible for all acts and omissions of its Subcontractors, persons directly or indirectly employed by its Subcontractors, and persons for whose acts any of its Subcontractors may be liable to the same extent that Contractor is responsible for the acts and omissions of persons directly employed by it. Nothing in this Contract shall create any contractual relationship between any Subcontractor and County or any obligation on the part of County to pay or to see the payment of any monies due any Subcontractor. County or Consultant may furnish to any Subcontractor evidence of amounts paid to Contractor on account of specific Work performed.

28.4. Contractor shall bind specifically every Subcontractor to the applicable terms and conditions of this Contract for the benefit of County.

28.5. Contractor shall perform the Work with its own organization, amounting to not less than twenty-five percent (25%) of the Contract Price.

ARTICLE 29. SEPARATE CONTRACTS

29.1. County has the right to enter into contracts with other parties in connection with this Project. Contractor shall afford such other parties reasonable opportunity for the introduction and storage of their materials and the execution of their work, and shall properly connect and coordinate this Work with theirs.

29.2. If any part of Contractor's Work depends for proper execution or results on the work of any third parties, Contractor shall inspect and promptly report to Consultant any defects in such work that render it unsuitable for such proper execution and results of Contractor's Work. Contractor's failure to so inspect and report shall constitute an acceptance of the third party's work as fit and proper for the performance of Contractor's Work, except as to defects which may develop in the third parties' work after the execution of Contractor's Work.

29.3. Contractor shall conduct its operations and take all reasonable steps to coordinate the prosecution of the Work so as to not interfere with or impact any other contractor on the site. Should such interference or impact occur, Contractor shall indemnify County from any liability to the affected contractor related to such interference or impact.

29.4. To ensure the proper execution of subsequent Work, Contractor shall inspect the Work already in place and shall immediately report to Consultant any discrepancy between the executed Work and the requirements of this Contract.

ARTICLE 30. USE OF COMPLETED PORTIONS

30.1. County has the right at its sole option to take possession of and use any completed or partially completed portions of the Project ("Designated Area"). Such possession and use shall not be deemed an acceptance of any of the Work not completed in accordance with this Contract. If such possession and use increase the cost of or delays the Work, Contractor shall be entitled

to reasonable extra compensation or reasonable extension of time or both, as recommended by Consultant and approved by County.

30.2. If County decides to take possession of any completed or partially completed portions of the Project, the following shall occur:

30.2.1. County shall give notice to Contractor in writing at least seven (7) days prior to County's intended occupancy of a Designated Area.

30.2.2. Contractor shall complete to the point of Substantial Completion the Designated Area and request inspection and issuance of a Certificate of Substantial Completion (007600-1) from Consultant.

30.2.3. Upon Consultant's issuance of a Certificate of Substantial Completion for the Designated Area, County will assume full responsibility for maintenance, utilities, subsequent damages of County and public, adjustment of insurance coverages, and start of warranty for the Designated Area.

30.2.4. Contractor shall complete all items noted on the Certificate of Substantial Completion within the time specified by Consultant on the Certificate of Substantial Completion, and request final inspection and final acceptance of the portion of the Work occupied. Upon completion of final inspection and receipt of an application for final payment, Consultant shall issue a Final Certificate of Payment relative to the Designated Area.

30.2.5. If County decides to occupy or use a portion or portions of the Work prior to Substantial Completion thereof, such occupancy or use shall not commence prior to a time mutually agreed upon by County and Contractor and to which the insurance company or companies providing the property insurance have consented by endorsement to the policy or policies. Insurance on the unoccupied or unused portion or portions shall not be canceled or lapsed on account of such partial occupancy or use. Consent of Contractor and of the insurance company or companies to such occupancy or use shall not be unreasonably withheld.

ARTICLE 31. LANDS OF WORK

31.1. County shall provide, as may be indicated in this Contract, the lands upon which the Work is to be performed, rights-of-way and easements for access thereto, and such other lands as are designated by County for the use of Contractor.

31.2. Contractor shall obtain, at Contractor's own expense and without liability to County, any additional rights to land and access thereto that may be required for temporary construction facilities, temporary easements, or for storage of materials. Contractor shall furnish to County copies of written permission obtained by Contractor from the owners of such land.

ARTICLE 32. LEGAL RESTRICTIONS AND TRAFFIC PROVISIONS

Contractor shall conform to and obey all Applicable Law with regard to labor, hours of work, and Contractor's operations. Contractor shall conduct its operations so as not to close any thoroughfare, nor interfere in any way with traffic on railway, highways, or water, without the written consent of the proper authorities.

ARTICLE 33. LOCATION AND DAMAGE TO EXISTING FACILITIES, EQUIPMENT, OR UTILITIES

33.1. Utility lines in the Project area have been shown on the Plans. However, County does not represent or warrant that all lines are shown, or that the ones indicated are in their true location. Contractor must identify and locate all underground and overhead utility lines or equipment affecting or affected by the Project. Contractor will not be entitled to any additional payment or extension of time due to discrepancies between actual location of utilities and Plan location of utilities.

33.2. Contractor shall notify each utility company with facilities in the Project site, at least fifteen (15) days prior to the start of construction, to arrange for positive underground location, relocation, or support of its utility where that utility may be in conflict with or endangered by the Work. The cost of relocation of water mains or other utilities for the convenience of Contractor shall be paid by Contractor. All charges by utility companies for temporary support of its utilities shall be paid for by Contractor. All costs of permanent utility relocation to avoid conflict shall be the responsibility of the utility company involved. Contractor will not be entitled to any additional payment or extension of time for utility relocations, regardless of reason for relocation.

33.3. Contractor shall schedule the Work in such a manner that the Work is not delayed by the utility providers relocating or supporting their utilities. Contractor shall coordinate its activities with any and all public and private utility providers occupying the right-of-way. Contractor will not be entitled to any additional compensation or extension of time for any delay associated with utility relocation or support.

33.4. Contractor shall protect all overhead, surface, or underground structures and utilities from damage or displacement. Contractor will promptly and completely repair all damage to such structures within a reasonable time. All damaged utilities must be replaced or fully repaired to the satisfaction of the utility owner. All repairs are to be inspected by the utility owner prior to backfilling. County reserves the right to remedy such damage by making such repairs or causing such repairs to be made at the expense of Contractor. County's expense in causing such repairs shall be deducted from Contractor's next Application for Payment.

ARTICLE 34. VALUE ENGINEERING

Contractor may request substitution of Materials, articles, pieces of equipment, or any changes that reduce the Contract Price by making such request to Consultant in writing. Consultant will be the sole judge of the acceptability of any proposed substitute, and no substitute will be ordered, installed, used, or initiated without Consultant's prior written acceptance by a Change Order or an approved Shop Drawing. In no event will any substitution accepted by Consultant result in an increase in the Contract Price or Contract Time. By making a request for substitution, Contractor agrees to pay directly to Consultant all Consultant's fees and charges related to

Consultant's review of the request for substitution, regardless of whether the request for substitution is accepted by Consultant. Any substitution submitted by Contractor must meet the form, fit, function, and life cycle criteria of the item proposed to be replaced, and there must be a reduction in Contract Price including Consultant review fees and charges. Unless otherwise indicated in the relevant Change Order, if a substitution is approved, the net dollar savings shall be shared equally between Contractor and County and processed as a deductive Change Order. County may require Contractor to furnish, at Contractor's expense, a special performance guarantee or other surety with respect to any substitute approved after award of this Contract.

ARTICLE 35. PAYMENT BY COUNTY FOR TESTS

Except when otherwise specified in the Contract Documents, the expense of all tests shall be borne by County and be performed by a testing firm selected by County. Contractor is responsible for reimbursement to County the costs of any required test in which the tested Work fails. For road construction projects, the procedure for making tests required by County will be in conformance with the most recent edition of the State of Florida, Department of Transportation Standard Specifications for Road and Bridge Construction.

ARTICLE 36. CHANGE IN THE WORK OR TERMS OF CONTRACT

36.1. Without invalidating this Contract and without notice to any surety, County has the right to make such increases, decreases, or other changes in the character or quantity of the Work as may be considered necessary or desirable by County to fully and acceptably complete the proposed Work in a satisfactory manner. Any extra or additional Work within the scope of this Project must be accomplished by means of appropriate Field Orders and Supplemental Instructions or Change Orders.

36.2. Any changes to the terms of this Contract must be contained in a written document, executed by the Parties hereto, with the same formality and of equal dignity as this Contract prior to the initiation of any Work described in such change. This section shall not prohibit the issuance of Change Orders executed only by County, as provided in this Contract.

ARTICLE 37. FIELD ORDERS AND SUPPLEMENTAL INSTRUCTIONS

37.1. The Contract Administrator, through Consultant, shall have the right to approve and issue Field Orders setting forth written interpretations of the intent of this Contract and ordering minor changes in the Work. Field Orders may not change the Contract Price or the Contract Time.

37.2. Consultant shall have the right to approve and issue Supplemental Instructions setting forth written orders, instructions, or interpretations concerning the Contract Documents or performance of the Work. Supplemental Instructions may not change the Contract Price or the Contract Time.

ARTICLE 38. CHANGE ORDERS

38.1. Changes in the quantity or character of the Work within the scope of the Project that cannot be accomplished by means of Field Orders or Supplemental Instructions, including all changes resulting in changes to the Contract Price or the Contract Time, shall be authorized only

by Change Orders approved in advance and issued in accordance with the provisions of the Broward County Procurement Code, as amended from time to time.

38.2. Contractor shall not start work on any changes requiring an increase in the Contract Price or the Contract Time until a Change Order setting forth the adjustments is approved by County. Upon receipt of a Change Order, Contractor shall promptly proceed with the Work set forth in the Change Order.

38.3. If satisfactory adjustment cannot be reached for any item requiring a change in the Contract Price or Contract Time, and a Change Order has not been issued, County may, at its sole option, either terminate this Contract as it applies to the items in question and make such arrangements as County deems necessary to complete the work associated with the disputed item or submit the matter in dispute to Consultant as set forth in Article 12.

38.4. Under circumstances determined necessary by County, Change Orders may be issued unilaterally by County. During the pendency of the dispute, and upon receipt of a Change Order from County, Contractor shall promptly proceed with the change in the Work involved and advise Consultant and Contract Administrator in writing within seven (7) days after receipt of the Change Order of Contractor's agreement or disagreement with the method, if any, provided in the Change Order for determining the proposed adjustment in the Contract Price or Contract Time.

38.5. On approval of any Contract change increasing the Contract Price, Contractor shall promptly ensure that the performance bond and payment bond are increased so that each reflects the total Contract Price as increased. Contractor will promptly provide County such updated bonds.

ARTICLE 39. VALUE OF CHANGE ORDER WORK

39.1. The value of any Work covered by a Change Order or of any claim for an increase or decrease in the Contract Price shall be determined in one of the following ways:

39.1.1. If the Work involved is covered by unit prices contained in this Contract, by application of unit prices to the quantities of items involved, subject to the provisions of Section 39.7.

39.1.2. By mutual acceptance of a lump sum, which sum Contractor and County acknowledge contains a component for overhead and profit.

39.1.3. On the basis of the "Cost of Work," determined as provided in Sections 39.2 and 39.3, plus a Contractor's fee for overhead and profit as determined in Section 39.4.

39.2. The term "Cost of Work" means the sum of all direct costs necessarily incurred and paid by Contractor (or, if applicable, Subcontractor) in the proper performance of the Work described in the Change Order. Except as otherwise may be agreed to in writing by County, such costs shall be in amounts no higher than those prevailing in the locality of the Project; shall include only the following items; and shall not include any of the costs itemized in Section 39.3.

39.2.1. Payroll costs for employees in the direct employ of Contractor in the performance of the Work described in the Change Order under schedules of job classifications agreed upon by County and Contractor. Payroll costs for employees not employed full time on the Work covered by the Change Order shall be apportioned on the basis of their time spent on the Work. Payroll costs shall include, but not be limited to, salaries and wages plus the cost of fringe benefits, which shall include social security contributions, unemployment, excise and payroll taxes, workers' compensation, health and retirement benefits, bonuses, sick leave, vacation and holiday pay application thereto. Such employees shall include superintendents and foremen at the site. The expenses of performing the Work after regular working hours, on Sunday or legal holidays, shall be included in the above to the extent authorized in advance by County.

39.2.2. Cost of all materials and equipment furnished and incorporated in the Work, including costs of transportation and storage thereof, and manufacturers' field services required in connection therewith. All cash discounts shall accrue to Contractor unless County deposits funds with Contractor to make payments, in which case the cash discounts shall accrue to County. All trade discounts, rebates and refunds, and all returns from sale of surplus materials and equipment shall accrue to County, and Contractor shall make provisions so that they may be obtained. Rentals of all construction equipment and machinery, and the parts thereof, whether rented by Contractor, in accordance with rental agreements approved by County with the advice of Consultant, and the costs of transportation, loading, unloading, installation, dismantling and removal thereof, all in accordance with the terms of said agreements. County will not be responsible for the cost of the rental of any such equipment, machinery, or parts when the use thereof is no longer necessary for the Work.

39.2.3. If required by County, Contractor shall obtain competitive bids from Subcontractors acceptable to Contractor, and shall deliver such bids to County who will then determine, with the advice of Consultant, which bids will be accepted. If the subcontract provides that the Subcontractor is to be paid on the basis of Cost of Work plus a fee, the Subcontractor's Cost of Work shall be determined in the same manner as Contractor's Cost of Work. All Subcontractors shall be subject to the other provisions of this Contract insofar as applicable.

39.2.4. Cost of special consultants, including, but not limited to, engineers, architects, testing laboratories, and surveyors employed for services specifically related to the performance of the work described in the Change Order.

39.2.5. Supplemental costs including the following:

39.2.5.1. All materials, supplies, equipment, machinery, appliances, office and temporary facilities, including transportation and maintenance thereof, at the site and hand tools not owned by the workers used in the performance of the Work, less market value of such items used but not consumed, and which items remain the property of Contractor.

39.2.5.2. Sales, use, or similar taxes related to the Work, imposed by any governmental authority, for which Contractor is liable.

39.2.5.3. The cost of utilities, fuel, and sanitary facilities at the site.

39.2.5.4. Cost of premiums for additional bonds and insurance required because of changes in the Work.

39.3. The term "Cost of Work" shall not include any of the following:

39.3.1. Payroll costs and other compensation of Contractor's officers, executives, principals (of partnership and sole proprietorships), general managers, engineers, architects, estimators, schedulers, lawyers, auditors, accountants, purchasing and contracting agents, expeditors, timekeepers, clerks and other personnel employed by Contractor whether at the site or in its principal or a branch office, for general administration of the Work that are not specifically included in the agreed-upon schedule of job classifications referred to in subsection 39.2.1, all of which payroll costs and other compensation are to be considered administrative costs covered by Contractor's fee.

39.3.2. Expenses of Contractor's principal and branch offices other than Contractor's field office at the Project site.

39.3.3. Any part of Contractor's capital expenses, including but not limited to interest on Contractor's capital employed for the Work as well as charges against Contractor for delinquent payments.

39.3.4. Cost of premiums for all bonds and for all insurance, whether Contractor is required by this Contract to purchase and maintain the same, except for additional bonds and insurance required because of changes in the Work.

39.3.5. Costs due to the negligence or neglect of Contractor, any Subcontractors, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, including but not limited to, the correction of defective Work, disposal of materials or equipment wrongly supplied, and repairing or remedying any damage to property.

39.3.6. Other overhead or general expense costs of any kind.

39.4. Contractor's fee for overhead and profit shall be determined as follows:

39.4.1. A mutually acceptable fixed fee, or if no fixed fee can be agreed upon;

39.4.2. A fee based on the following percentages of the various portions of the cost of the Work:

39.4.2.1. For costs incurred under subsections 39.2.1 and 39.2.2, Contractor's fee shall not exceed ten percent (10%).

39.4.2.2. For costs incurred under subsection 39.2.3, Contractor's fee shall not exceed seven and one-half percent (7.5%); and if a subcontract is on the basis of cost of the work plus a fee, the maximum allowable to the Subcontractor as a fee for overhead and profit shall not exceed ten percent (10%); and

39.4.2.3. No fee shall be payable on the basis of costs itemized under subsections 39.2.4 and 39.2.5 (except subsection 39.2.5.3) and Section 39.3.

39.5. The amount of credit to County for any change that results in a net decrease in cost will be the amount of the actual net decrease. When both additions and credits are involved in any one change, the combined overhead and profit shall be figured on the basis of the net increase, if any. Contractor shall not be entitled to claim lost profits for any Work not performed.

39.6. Whenever the cost of any Work is to be determined pursuant to Sections 39.2 and 39.3, Contractor will submit in a form acceptable to Consultant an itemized cost breakdown together with the supporting data.

39.7. If the quantity of any item of the Work covered by a unit price is increased or decreased by more than twenty percent (20%) from the quantity of such Work indicated in this Contract, an appropriate Change Order shall be issued to adjust the unit price, if warranted.

39.8. Whenever a change in the Work is to be based on mutual acceptance of a lump sum, whether the amount is an addition, credit or no change-in-cost, Contractor shall submit an initial cost estimate acceptable to Consultant and Contract Administrator.

39.8.1. Such cost estimate shall include a breakdown listing the quantities and unit prices for materials, labor, equipment and other items of cost.

39.8.2. Whenever a change involves Contractor and one or more Subcontractors and the change is an increase in the Contract Price, overhead and profit percentage for Contractor and each Subcontractor shall be itemized separately.

39.9. Each Change Order must state within the body of the Change Order whether it is based upon unit price, negotiated lump sum, or "cost of the work."

ARTICLE 40. NOTIFICATION AND CLAIM FOR CHANGE OF CONTRACT TIME OR CONTRACT PRICE

40.1. Any claim for a change in the Contract Time or Contract Price shall be made by written notice by Contractor to the Contract Administrator and to Consultant within five (5) days of the commencement of the event giving rise to the claim or Contractor's knowledge of the claim, and the notice shall state the general nature and cause of the claim. Thereafter, within twenty (20) days after the termination of the event giving rise to the claim or Contractor's knowledge of the claim, Contractor shall submit written notice of the extent of the claim with supporting information and documentation to the Contract Administrator and Consultant (hereinafter "Claim Notice"). The Claim Notice shall include Contractor's written notarized certification that the adjustment claimed is the entire adjustment to which Contractor has reason to believe it is entitled as a result of the occurrence the event giving rise to the claim. If the Contract Administrator and Contractor cannot resolve a claim for changes in the Contract Time or Contract Price within twenty (20) days after receipt of the Claim Notice by the Contract Administrator and Consultant, then Contractor shall submit the claim to Consultant within five (5) days after the date of impasse in accordance with Article 12 hereof. **IT IS EXPRESSLY AND SPECIFICALLY AGREED THAT ANY AND ALL CLAIMS FOR CHANGES TO THE CONTRACT TIME OR CONTRACT**

PRICE SHALL BE WAIVED IF NOT SUBMITTED IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THIS SECTION.

40.2. The Contract Time will be extended in an amount equal to time lost on critical Work items due to delays beyond the control of and through no fault or negligence of Contractor if a claim for an extension in accordance with Section 40.1. Such delays shall include, but not be limited to, acts, omissions, or neglect by any separate contractor employed by County, fires, floods, labor disputes, epidemics, abnormal weather conditions, or acts of God.

ARTICLE 41. NO DAMAGES FOR DELAY

No claim for damages or any claim, other than for an extension of time, shall be made or asserted against County by reason of any delays except as provided herein. Contractor shall not be entitled to an increase in the Contract Price or payment or compensation of any kind from County for direct, indirect, consequential, impact or other costs, expenses or damages, including but not limited to costs of acceleration or inefficiency, arising from delay, disruption, interference or hindrance from any cause whatsoever, whether such delay, disruption, interference or hindrance be reasonable or unreasonable, foreseeable or unforeseeable, or avoidable or unavoidable. Contractor shall be entitled only to extensions of the Contract Time as the sole and exclusive remedy for such resulting delay, in accordance with and to the extent specifically provided above; provided, however, that this provision shall not preclude recovery of damages by Contractor for actual delays due solely to fraud, bad faith, or active interference on the part of County or its Consultant.

ARTICLE 42. EXCUSABLE DELAY; COMPENSABLE; NON-COMPENSABLE

42.1. Excusable Delay. Delay that extends the completion of the Work and that is caused by circumstances beyond the control of Contractor or its Subcontractors, suppliers, or vendors are Excusable Delay. Contractor is entitled to a time extension of the Contract Time for each day the Work is delayed due to Excusable Delay. Contractor shall document its claim for any time extension as provided in Article 40 hereof. Failure of Contractor to comply with Article 40 hereof as to any particular event of delay shall be deemed conclusively to constitute a waiver, abandonment, or relinquishment of any and all claims resulting from that particular event of delay. Excusable Delay may be compensable or non-compensable, as provided below.

42.1.1. Compensable Excusable Delay. Excusable Delay is compensable when (i) the delay extends the Contract Time; (ii) is caused by circumstances beyond the control of Contractor or its Subcontractors, suppliers, or vendor; and (iii) is caused solely by fraud, bad faith or active interference on the part of County or its agents. In no event shall Contractor be compensated for interim delays that do not extend the Contract Time. Contractor shall be entitled to direct and indirect costs for Compensable Excusable Delay. Direct costs recoverable by Contractor shall be limited to the actual additional costs allowed pursuant to Article 39 hereof.

County and Contractor recognize and agree that the amount of Contractor's precise actual indirect costs for delay in the performance and completion of the Work is impossible to determine as of the date of execution of this Contract, and that proof of the precise amount will be difficult. Therefore, indirect costs recoverable by Contractor shall

be liquidated on a daily basis for each day the Contract Time is delayed due to a Compensable Excusable Delay. These liquidated indirect costs shall be paid to compensate Contractor for all indirect costs caused by a Compensable Excusable Delay, and shall include, but not be limited to, lost profits, all profit on indirect costs, home office overhead, acceleration, loss of earnings, loss of productivity, loss of bonding capacity, loss of opportunity and all other indirect costs incurred by Contractor.

42.1.2. Non-Compensable Excusable Delay. When Excusable Delay is (i) caused by circumstances beyond the control of Contractor, its Subcontractors, suppliers, and vendors; (ii) caused by circumstances beyond the control of County or Consultant; or (iii) caused jointly or concurrently by Contractor or its Subcontractors, suppliers or vendors and by County or Consultant, then Contractor shall be entitled only to a time extension and no further compensation for the delay.

ARTICLE 43. SUBSTANTIAL COMPLETION

When Contractor determines in good faith that the Work, or a portion thereof designated by County pursuant to Article 30 hereof, has reached Substantial Completion, Contractor shall so notify the Contract Administrator and Consultant in writing. Consultant and the Contract Administrator shall then promptly inspect the Work. When Consultant, on the basis of such an inspection, determines that the Work or designated portion thereof is substantially complete, it will then prepare a Certificate of Substantial Completion (Form 10). The Contract Administrator shall affix its determination to the Certificate of Substantial Completion, which shall establish the Date of Substantial Completion. The Certificate of Substantial Completion shall state the responsibilities of County and Contractor for security, maintenance, heat, utilities, damage to the Work, and insurance. Consultant and the Contract Administrator shall develop and Contractor shall review the list of all Work yet to be completed by Contractor to satisfy the requirements of this Contract for Final Completion and to make the Work satisfactory and acceptable. The list shall be provided to Contractor within three (3) days after final development and review. If the final list is not provided within the stated three (3) days, the Contract Time for completion shall be extended by the number of days exceeding the three (3) days. The failure to include any items of corrective Work on such list does not alter the responsibility of Contractor to complete all Work in accordance with this Contract. Warranties required by this Contract shall commence on the date of Substantial Completion of the Work or designated portion thereof unless otherwise provided in the Certificate of Substantial Completion. The Certificate of Substantial Completion shall be submitted to the Contract Administrator and Contractor for their written acceptance of the responsibilities assigned to them in the Certificate of Substantial Completion.

ARTICLE 44. NO INTEREST

44.1. Unless prohibited by Applicable Law, County shall not be liable to pay any interest to Contractor for any reason, whether as prejudgment interest or for any other purpose, and Contractor waives, rejects, disclaims and surrenders any and all entitlement to interest in connection with a dispute or claim arising from, related to, or in connection with this Contract.

44.2. If the preceding section is inapplicable or is determined to be invalid or unenforceable by a court of competent jurisdiction, the annual rate of interest payable by County under this Contract, whether as prejudgment interest or for any other purpose, shall be, to the full extent Contract No. PNC2124877C1

permissible under Applicable Law, one quarter of one percent (0.25%) simple interest (uncompounded).

ARTICLE 45. SHOP DRAWINGS

45.1. Contractor shall submit Shop Drawings as required by the Technical Specifications. The purpose of the Shop Drawings is to show the suitability, efficiency, technique of manufacture, installation requirements, details of the item, and evidence of its compliance or noncompliance with this Contract.

45.2. Within three (3) days after the Project Initiation Date specified in the Notice to Proceed, Contractor shall submit to Consultant a complete list of preliminary data on items for which Shop Drawings are to be submitted and shall identify the critical items. Approval of this list by Consultant shall in no way relieve Contractor from submitting complete Shop Drawings and providing all materials and equipment in accordance with this Contract. This procedure is required in order to expedite final approval of Shop Drawings.

45.3. After the approval of the list of items required in Section 45.2 above, Contractor shall promptly request Shop Drawings from the various manufacturers, fabricators, and suppliers.

45.4. Contractor shall thoroughly review and check the Shop Drawings, and shall approve each and every copy by initialing same, and shall transit a letter of approval to Consultant and County.

45.5. If the Shop Drawings show or indicate departures from the Contract requirements, Contractor shall specify such departures and make specific mention thereof in its letter of transmittal to Consultant and County. Failure to point out such departures shall not relieve Contractor from its responsibility to comply with this Contract.

45.6. Consultant shall review and approve Shop Drawings within seven (7) days after the date received, unless said Shop Drawings are rejected by Consultant for material reasons. Consultant's approval of Shop Drawings will be general and shall not relieve Contractor of responsibility for the accuracy of such Shop Drawings, nor for the proper fitting and construction of the Work, nor for the furnishing of materials or Work required by this Contract but not indicated on the Shop Drawings. No Work called for by Shop Drawings shall be performed until the said Shop Drawings have been approved by Consultant. Approval by Consultant shall not relieve Contractor from responsibility for errors or omissions of any sort on the Shop Drawings.

45.7. No approval will be given to partial submittals of Shop Drawings for items that interconnect or are interdependent where necessary to properly evaluate the design. It is Contractor's responsibility to assemble the Shop Drawings for all such interconnecting or interdependent items, check such items, and then make one submittal to Consultant along with Contractor's comments as to compliance, noncompliance, or features requiring special attention.

45.8. If catalog sheets or prints of manufacturers' standard drawings are submitted as Shop Drawings, any additional information or changes on such drawings shall be typewritten or lettered in ink.

45.9. Contractor shall submit the number of copies of Shop Drawings required by Consultant. Resubmissions of Shop Drawings shall be made in the same quantity until final approval is obtained.

45.10. Contractor shall keep one set of Shop Drawings marked with Consultant's approval at the job site at all times.

ARTICLE 46. FIELD LAYOUT OF THE WORK AND RECORD DRAWINGS

46.1. The entire responsibility for establishing and maintaining line and grade in the field lies with Contractor. Contractor shall maintain an accurate and precise record of the location and elevation of all pipelines, conduits, structures, maintenance access structures, handholes, fittings and the like, and shall prepare record or "as-built" drawings of the same, which must be sealed by a Professional Surveyor. Contractor shall deliver these records in good order to Consultant as the Work is completed. The cost of all such field layout and recording work is included in the bid prices for the appropriate items. All record drawings shall be made on reproducible paper and shall be delivered to Consultant prior to, and as a condition of, final payment.

46.2. Contractor shall maintain in a safe place at the Project site one record copy of all Drawings, Plans, Specifications, Addenda, written amendments, Change Orders, Field Orders and written interpretations and clarifications in good order and annotated to show all changes made during construction. These record documents together with all approved samples and a counterpart of all approved Shop Drawings shall be available at all times to Consultant for reference. Upon Final Completion of the Project and prior to Final Payment, these record documents, samples, and Shop Drawings shall be delivered to the Contract Administrator.

46.3. Prior to, and as a condition precedent to Final Payment, Contractor shall submit to County Contractor's record drawings or as-built drawings acceptable to Consultant.

ARTICLE 47. SAFETY AND PROTECTION

47.1. Contractor shall be solely responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the Project. Contractor shall take all necessary precautions for the safety of, and shall provide the necessary protection to prevent damage, injury, or loss to:

47.1.1. All employees on the work site and other persons who may be affected thereby;

47.1.2. All the Work and all materials or equipment to be incorporated therein, whether in storage on or off the Project site; and

47.1.3. Other property at the Project site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures, and utilities not designated for removal, relocation, or replacement in the course of construction.

47.2. Contractor shall comply with all Applicable Law of any public body having jurisdiction for the safety of persons or property or to protect person or property from damage, injury, or loss, and Contractor shall erect and maintain all necessary safeguards for such safety and protection.

Contractor shall notify owners of adjacent property and utilities when performance of the Work may affect them. All damage, injury, or loss to any property referred to in subsections 47.1.2 and 47.1.3 above, caused directly or indirectly, in whole or in part, by Contractor, any Subcontractor or anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, shall be repaired or remedied by Contractor. Contractor's duties and responsibilities for the safety and protection of the Work shall continue until such time as all the Work is completed and Consultant has issued a notice to County and Contractor that the Work is acceptable except as otherwise provided in Article 30.

47.3. Contractor shall designate a responsible member of its organization at the Project site whose duty shall be the prevention of accidents. This person shall be Contractor's superintendent unless otherwise designated in writing by Contractor to County.

ARTICLE 48. FINAL BILL OF MATERIALS

Contractor shall be required to submit to County and Consultant a final bill of materials with unit costs for each bid item for supply of materials installed. This shall be an itemized list of all materials with a unit cost for each material, and the total cost shall be determined on the basis of the unit costs established for each Contract item. A Final Certificate for Payment will not be issued by Consultant until Contractor submits the final bill of materials and Consultant verifies the accuracy of the units of Work.

ARTICLE 49. PROJECT SIGN

Any requirements for a project sign shall be as set forth within the Technical Specifications section.

ARTICLE 50. CLEANING UP; COUNTY'S RIGHT TO CLEAN UP

Contractor shall at all times keep the premises free from accumulation of waste materials or rubbish caused by its operations. At the completion of the Project, Contractor shall remove all its waste materials and rubbish from and about the Project as well as its tools, construction equipment, machinery and surplus materials. If Contractor fails to clean up during the performance of the Work or at the completion of the Work, County may do so and the cost thereof shall be charged to Contractor. If a dispute arises between Contractor and separate contractors of County as to their responsibility for cleaning up, County may clean up and charge the cost thereof to the contractors responsible as Consultant shall determine to be appropriate and equitable.

ARTICLE 51. HURRICANE PRECAUTIONS

51.1. During such periods of time as are designated by the National Weather Services as being a hurricane watch or warning, Contractor, at no cost to County, shall take all precautions necessary to secure the Project site from any damage that may be caused by all threatened storm events, regardless of whether County or Consultant has given notice of same.

51.2. Compliance with any specific hurricane watch or warning precautions will not constitute additional work.

51.3. Suspension of the Work caused by a threatened or actual storm event, regardless of whether County has directed such suspension, will entitle Contractor to additional Contract Time as noncompensable, excusable delay, and shall not give rise to a claim for compensable delay.

ARTICLE 52. REMOVAL OF EQUIPMENT

In case of termination of this Contract before completion for any cause whatsoever, Contractor, if notified to do so by County, shall promptly remove any part or all of Contractor's equipment and supplies from the property of County, failing which County shall have the right to remove such equipment and supplies at the expense of Contractor.

ARTICLE 53. DOMESTIC PARTNERSHIP REQUIREMENT

Unless this Contract is exempt from the provisions of the Broward County Domestic Partnership Act, Section 16½-157, of the Code ("Act"), Contractor certifies and represents that it will at all times comply with the provisions of the Act, and the contract language referenced in the Act is deemed incorporated in this Contract as though fully set forth in this section. The failure of Contractor to comply shall be a material breach of this Contract, entitling County to pursue any and all remedies provided under Applicable Law including, but not limited to (1) retaining all monies due or to become due Contractor until Contractor complies; (2) termination of this Contract; and (3) suspension or debarment of Contractor.

ARTICLE 54. EQUAL EMPLOYMENT OPPORTUNITY AND CBE COMPLIANCE

54.1. No party to this Contract may discriminate on the basis of race, color, sex, religion, national origin, disability, age, marital status, political affiliation, sexual orientation, pregnancy, or gender identity and expression in the performance of this Contract, except that any project assisted by the U.S. Department of Transportation funds shall comply with the nondiscrimination requirements in 49 C.F.R. Parts 23 and 26. Contractor shall include the foregoing or similar language in its contracts with any Subcontractors.

54.2. By January 1 of each year, Contractor must submit, and cause each of its Subcontractors to submit, an Ownership Disclosure Form (or such other form or information designated by County), available at <https://www.broward.org/econdev/Pages/forms.aspx>, identifying the ownership of the entity and indicating whether the entity is majority-owned by persons fitting specified classifications.

54.3. Contractor shall comply with all applicable requirements in Section 1-81 of the Code, in the award and administration of this Contract. Failure by Contractor to carry out any of the requirements of this article shall constitute a material breach of this Contract, which shall permit County to terminate this Contract or exercise any other remedy provided under this Contract or Applicable Law, all such remedies being cumulative.

54.4. Contractor must meet or exceed the required CBE goal by utilizing the CBE firms listed in Form 14 (or a CBE firm substituted for a listed firm, if permitted) for twenty-five percent (25%) of total Work under this Contract (the "Commitment"). In performing the Work, Contractor shall utilize the CBE firms listed in Form 14 for the scope of work and the percentage of work amounts identified on each Letter of Intent. Promptly upon execution of this Contract by County,

Contractor shall enter into formal contracts with the CBE firms listed in Form 14 and, upon request, shall provide copies of the contracts to the Contract Administrator and OESBD. |

54.5. Each CBE firm utilized by Contractor to meet the CBE goal must be certified by OESBD. Contractor shall inform County immediately when a CBE firm is not able to perform or if Contractor believes the CBE firm should be replaced for any other reason, so that OESBD can review and verify the good faith efforts of Contractor to substitute the CBE firm with another CBE firm. Whenever a CBE firm is terminated for any reason, Contractor shall provide written notice to OESBD and, upon written approval of the Director of OESBD, shall substitute another CBE firm in order to meet the CBE goal, unless otherwise provided in this Contract or agreed to in writing by the Parties. Such substitution shall not be required if the termination results from modification of the scope of services and no CBE firm is available to perform the modified scope of services; in which event, Contractor shall notify County, and OESBD may adjust the CBE goal by written notice to Contractor. Contractor shall not terminate a CBE firm for convenience without County's prior written consent, which consent shall not be unreasonably withheld.

54.6. The Parties stipulate that if Contractor fails to meet the Commitment, the damages to County arising from such failure are not readily ascertainable at the time of contracting. If Contractor fails to meet the Commitment and County determines, in the sole discretion of the OESBD Program Director, that Contractor failed to make Good Faith Efforts (as defined in Section 1-81 of the Code) to meet the Commitment, Contractor shall pay County liquidated damages in an amount equal to fifty percent (50%) of the actual dollar amount by which Contractor failed to achieve the Commitment, up to a maximum amount of ten percent (10%) of the total contract amount excluding costs and reimbursable expenses. An example of this calculation is stated in Section 1-81.7 of the Code. As elected by County, such liquidated damages amount shall be either credited against any amounts due from County, or must be paid to County within thirty (30) days after written demand. These liquidated damages shall be County's sole contractual remedy for Contractor's breach of the Commitment, but shall not affect the availability of administrative remedies under Section 1-81. Contractor acknowledges and agrees that the liquidated damages provided in this section are proportionate to an amount that might reasonably be expected to flow from a breach of the Commitment and are not a penalty. Any failure to meet the Commitment attributable solely to force majeure, changes to the Scope of Work by County, or inability to substitute a CBE Subcontractor where the OESBD Program Director has determined that such inability is due to no fault of Contractor, shall not be deemed a failure by Contractor to meet the Commitment.

54.7. Contractor acknowledges that the Board, acting through OESBD, may make minor administrative modifications to Section 1-81 of the Code, which shall become applicable to this Contract if the administrative modifications are not unreasonable. Written notice of any such modification shall be provided to Contractor and shall include a deadline for Contractor to notify County in writing if Contractor concludes that the modification exceeds the authority under this section. Failure of Contractor to timely notify County of its conclusion that the modification exceeds such authority shall be deemed acceptance of the modification by Contractor.

54.8. County may modify the Commitment in connection with any amendment, extension, modification, or change order to this Contract that, by itself or aggregated with previous amendments, extensions, modifications, or change orders, increases the initial Contract price by

ten percent (10%) or more. Contractor shall make a good faith effort to include CBE firms in work resulting from any such amendment, extension, modification, or change order, and shall report such efforts, along with evidence thereof, to OESBD.

54.9. Contractor shall provide written monthly reports to the Contract Administrator attesting to Contractor's compliance with the Commitment. In addition, Contractor shall allow County to engage in onsite reviews to monitor Contractor's progress in achieving and maintaining the Commitment. The Contract Administrator in conjunction with OESBD shall perform such review and monitoring, unless otherwise determined by the County Administrator.

54.10. The Contract Administrator may withhold progress payments if Contractor fails to demonstrate timely payments of sums due to all Subcontractors and suppliers. The presence of a "pay when paid" provision in a Contractor's contract with a CBE firm shall not preclude County or its representatives from inquiring into claims of nonpayment.

ARTICLE 55. PUBLIC RECORDS

Notwithstanding anything else in this Contract, any action taken by County in compliance with, or in a good faith attempt to comply with, the requirements of Chapter 119, Florida Statutes, shall not constitute a breach of this Contract. If Contractor is acting on behalf of County as provided in Section 119.0701, Florida Statutes, Contractor shall:

55.1. Keep and maintain public records required by County to perform the services under this Contract;

55.2. Upon request from County, provide County with a copy of the requested records or allow the records to be inspected or copied within a reasonable time and at a cost that does not exceed that provided in Chapter 119, Florida Statutes, or as otherwise provided by Applicable Law;

55.3. Ensure that public records that are exempt or confidential and exempt from public record requirements are not disclosed except as authorized by Applicable Law for the duration of this Contract and after completion or termination of this Contract if the records are not transferred to County; and

55.4. Upon completion or termination of this Contract, transfer to County, at no cost, all public records in possession of Contractor or keep and maintain public records required by County to perform the services. If Contractor transfers the records to County, Contractor shall destroy any duplicate public records that are exempt or confidential and exempt. If Contractor keeps and maintains public records, Contractor shall meet all requirements of Applicable Law for retaining public records. All records stored electronically must be provided to County upon request in a format that is compatible with the information technology systems of County.

The failure of Contractor to comply with the provisions of this article shall constitute a material breach of this Contract entitling County to exercise any remedy provided in this Contract or under Applicable Law, all of such remedies being cumulative.

If Contractor receives a request for public records regarding this Contract or the Services, Contractor must immediately notify the Contract Administrator in writing and provide all

requested records to County to enable County to timely respond to the public records request. County will respond to all such public records requests.

Contractor must separately submit and conspicuously label as “RESTRICTED MATERIAL – DO NOT PRODUCE” any material (a) that Contractor contends constitutes or contains its trade secrets under Chapter 688, Florida Statutes, or (b) for which Contractor asserts a right to withhold from public disclosure as confidential or otherwise exempt from production under Florida public records laws (including Chapter 119, Florida Statutes) (collectively, “Restricted Material”). In addition, Contractor must, simultaneous with the submission of any Restricted Material, provide a sworn affidavit from a person with personal knowledge attesting that the Restricted Material constitutes trade secrets or is otherwise exempt or confidential under Florida public records laws, including citing the applicable Florida statute and specifying the factual basis for each such claim. Upon request by County, Contractor must promptly identify the specific applicable statutory section that protects any particular document. If a third party submits a request to County for records designated by Contractor as Restricted Material, County shall refrain from disclosing such material unless otherwise ordered by a court of competent jurisdiction, authorized in writing by Contractor, or the claimed exemption is waived. Any failure by Contractor to strictly comply with the requirements of this section shall constitute Contractor’s waiver of County’s obligation to treat the records as Restricted Material. Contractor must indemnify and hold harmless County and its employees and agents from any and all claims, causes of action, losses, fines, penalties, damages, judgments, and liabilities of any kind, including attorneys’ fees, litigation expenses, and court costs, relating to nondisclosure of Restricted Material in response to a third-party request.

IF CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF FLORIDA STATUTES CHAPTER 119 TO CONTRACTOR’S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT | 954-359-2581 JCHAMBERS@BROWARD.ORG|, 320 TERMINAL DRIVE, SUITE 200 FORT LAUDERDALE, FLORIDA 33315

(The remainder of this page is intentionally left blank.)

SUPPLEMENTAL GENERAL CONDITIONS

The following deviations are incorporated herein and made a part of this Contract, revising the respective article and section as noted below.

Coding: Words in ~~striketrough~~ type are deletions from existing text. Words in underlined text are additions to existing text.

SUPPLEMENTAL WAGE REQUIREMENTS

1. Prevailing Wage Rate Ordinance - This Project is not federally funded. If the price of this Contract is in excess of Two Hundred Fifty Thousand Dollars (\$250,000.00), the following sections shall apply.

1.1. The rate of wages and fringe benefit payments for all laborers, mechanics, and apprentices shall not be less than those payments for similar skills in classifications of work in a like construction industry as determined by the Secretary of Labor and as the most recently published in the Federal Register.

1.2. All mechanics, laborers, and apprentices, employed or working on the site of the Work, shall be paid in accordance with the above referenced wage rates. Contractor shall post this section of the Contract (Supplemental Wage Requirements) at the site of the Work in a prominent place where it can be easily seen by the workers.

1.3. If the Parties cannot agree on the proper classification of a particular class of laborers or mechanics or apprentices that will be used on the Work site, the Contract Administrator shall submit the question, together with its recommendation, to the County Administrator for final determination, which shall be binding.

1.4. If the Contract Administrator determines that any laborer or mechanic or apprentice employed by Contractor or any Subcontractor on the site of the Work has been or is being paid wages less than the rate of wages required by the Prevailing Wage Ordinance, Section 26-5 of the Broward County of Ordinances, as amended, the Contract Administrator may (1) by written notice to Contractor direct Contractor to terminate the Work or such part of Work for which there has been a failure to pay said required wages; and (2) contract with another party perform the Work or portion thereof to completion. Whereupon, Contractor and its Sureties shall be liable to County for any all costs incurred by County to complete such Work to the extent such costs exceed any amounts that Contractor would be due for performance of such Work.

1.5. Contractor shall maintain payrolls and basic records relating thereto during the course of the Work and shall preserve such for a period of three (3) years thereafter for all laborers, mechanics, and apprentices working at the site of the Work. Such records shall contain the name and address of each such employee; the employee's current classification; rate of pay (including rates of contributions for, or costs assumed to provide, fringe benefits); daily and weekly number of hours worked; deductions made; and actual wages paid.

1.6. Contractor shall submit, with each application for payment, a signed and sworn "Statement of Compliance" (007500-8) attesting to compliance with the Prevailing Wage Ordinance, Section 26-5 of the Broward County of Ordinances, as amended.

1.7. The Contract Administrator may withhold or cause to be withheld from Contractor so much of the payments requisitioned as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and guards employed by Contractor or any Subcontractor on the Work, the full amount of wages required by this Contract.

1.8. If Contractor or any Subcontractor fails to pay any laborer, mechanic, or apprentice employed or working on the site of the Work all or part of the wages required by this Contract, the Contract Administrator may, after written notice to Contractor, take such action as may be necessary to cause suspension of any further payments or advances until such violations have ceased.

FORM 1: PERFORMANCE BOND

Project Name: «Project_Name»
Project Number: «Project_Number»

BY THIS BOND, We _____, as Principal, hereinafter called Contractor, located at _____, with a phone number of _____, and _____, as Surety, located at _____, with a phone number of _____, under the assigned Bond Number _____, are bound to Broward County, Florida, as Obligee, hereinafter called County, located at _____, with a phone number of _____, in the amount of _____ Dollars (\$_____) for the payment whereof Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally.

WHEREAS, Contractor has by written agreement dated the _____ day of _____, 20____, entered into a Contract, Bid/Contract No. _____, with County, the terms of which contract (including the Contract Documents, as those are defined in the contract) are incorporated by reference herein and made a part hereof as the "Contract," which includes any and all provisions for liquidated damages, and other damages identified.

THE CONDITION OF THIS BOND is that if Contractor:

- 1) Performs the Contract between Contractor and County for construction of _____, in the time and manner prescribed in the Contract; and
- 2) Pays County all losses, liquidated damages, expenses, costs and attorneys' fees including appellate proceedings, that County sustains as a result of default by Contractor under the Contract; and
- 3) Performs the guaranties of all Work (as defined in the Contract) and materials furnished under the Contract for the time specified in the Contract, then THIS BOND IS VOID; OTHERWISE IT REMAINS IN FULL FORCE AND EFFECT.

Whenever Contractor shall be, and is declared by County to be, in default under the Contract, with County having performed its obligations thereunder, the Surety may promptly remedy the default, or shall promptly:

- a) Complete the required performance in accordance with the terms and conditions of the Contract Documents; or
- b) Obtain a bid or bids for completing the Project in accordance with the terms and conditions of the Contract Documents, and upon determination by Surety of the lowest responsible Bidder, or, if County elects, upon determination by County and Surety jointly of the lowest responsible Bidder, arrange for a contract between such Bidder and County on the same terms and conditions as the Contract Documents unless otherwise agreed by County, and shall make available as Work progresses sufficient funds to pay the cost of completion of the Work required by the Contract in an amount less but not exceeding the balance of the Contract Price ,

which amount shall include 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 County to Contractor under the Contract and any amendments thereto, less the amount properly paid by County to Contractor.

No right of action shall accrue on this bond to or for the use of any person or corporation other than Broward County named herein.

The Surety hereby waives notice of and agrees that any changes in or under the Contract Documents and compliance or noncompliance with any formalities connected with the Contract or the changes does not affect Surety's obligation under this Bond.

Signed and sealed this _____ day of _____, 20__.

ATTEST:

CONTRACTOR

Corporate Secretary or other
person authorized to attest

By: _____
Authorized Signer

Print Name

Print Name and Title

_____ day of _____, 20__

(CORPORATE SEAL OR NOTARY)

IN THE PRESENCE OF:

SURETY:

Signature

By _____
Agent and Attorney-in-Fact

(Print Name)

(Print/Type Name)

Signature

Address: _____
(Street)

(City/State/Zip Code)

Telephone No.: _____

FORM 2: PAYMENT BOND

Project Name: «Project_Name»
Project Number: «Project_Number»

KNOW ALL BY THESE PRESENTS:

That we _____, as Principal (hereinafter called "Contractor"), located at _____, with a phone number of _____, and _____, as Surety, located at _____, with a phone number of _____, under the assigned Bond Number _____ and pursuant to Section 255.05, Florida Statutes, are bound to Broward County, Florida (hereinafter "County"), as Obligee, located at _____, with a phone number of _____, in the amount of _____ Dollars (\$_____) for the payment whereof Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally.

WHEREAS, Contractor has by written agreement dated the ____ of _____, 20__, entered into a Contract, Bid/Contract No. _____, with County for construction of _____ located at _____, the terms of which contract (including the Contract Documents, as those are defined in the contract) are incorporated by reference herein and made a part hereof as the "Contract."

THE CONDITION OF THIS BOND is that if Contractor:

1. Pays County all losses, damages, expenses, costs and attorneys' fees including appellate proceedings, that County sustains because of default by Contractor under the Contract; and
2. Promptly makes payments to all claimants as defined by Florida Statute Section 255.05(1) for all labor, materials and supplies used directly or indirectly by Contractor in the performance of the Contract;

THEN CONTRACTOR'S OBLIGATION SHALL BE VOID; OTHERWISE, IT SHALL REMAIN IN FULL FORCE AND EFFECT SUBJECT, HOWEVER, TO THE FOLLOWING CONDITIONS:

- A. A claimant, except a laborer, who is not in privity with Contractor and who has not received payment for its labor, materials, or supplies shall, within forty-five (45) days after beginning to furnish labor, materials, or supplies for the prosecution of the Work (as defined in the Contract), furnish to Contractor a notice that he or she intends to look to the bond for protection.
- B. A claimant who is not in privity with Contractor and who has not received payment for its labor, materials, or supplies shall, within ninety (90) days after performance of the labor or after complete delivery of the materials or supplies, deliver to Contractor and to the Surety, written notice of the performance of the labor or delivery of the materials or supplies and of the nonpayment.

C. No action for the labor, materials, or supplies may be instituted against Contractor or the Surety unless the notices stated under the preceding conditions (A) and/or (B), as applicable, have been given.

D. Any action under this Bond must be instituted in accordance with the Notice and Time Limitations provisions prescribed in Sections 255.05(2) and 255.05(10), Florida Statutes.

The Surety hereby waives notice of and agrees that any changes in or under the Contract Documents and compliance or noncompliance with any formalities connected with the Contract or the changes does not affect the Surety's obligation under this Bond.

Signed and sealed this _____ day of _____, 20__.

ATTEST:

CONTRACTOR

Corporate Secretary or other
person authorized to attest

By: _____
Authorized Signer

Print Name

Print Name and Title

_____ day of _____, 20__

(CORPORATE SEAL OR NOTARY)

IN THE PRESENCE OF:

SURETY:

Signature

By _____
Agent and Attorney-in-Fact

(Print Name)

(Print/Type Name)

Signature

Address: _____
(Street)

(Print Name)

(City/State/Zip Code)

Telephone No.: _____

FORM 3: CERTIFICATE AS TO CORPORATE PRINCIPAL

I, _____, certify that I am the Secretary of the corporation named as Principal in the foregoing Performance and Payment Bonds; that _____, who signed the Bond(s) on behalf of the Principal, was then _____ of said corporation; that I know his/her signature; that his/her signature thereto is genuine; and that said Bond(s) was (were) duly signed, sealed and attested to on behalf of said corporation by authority of its governing body.

_____(Seal) as Secretary of

(Name of Corporation)

(SEAL)

STATE OF _____)
) SS.
COUNTY OF _____)

The foregoing instrument was acknowledged before me, by means of physical presence or online notarization, this _____ day of _____, 20____, by _____, who is personally known to me or who has produced _____ as identification and who did (did not) take an oath.

NOTARY PUBLIC:

Signature: _____

Print Name: _____

(NOTARY SEAL)

My commission expires:

FORM 4: FORM OF CERTIFICATE AND AFFIDAVIT FOR BONDS \$500,000.00 OR LESS

TO: BROWARD COUNTY
RE: BID NUMBER: _____

BIDDER: _____

Name: _____

Address: _____

Phone: _____

AMOUNT OF BOND: _____

SURETY BOND COMPANY:

Name: _____

Address: _____

Phone: _____

This is to certify that, in accordance with Section 287.0935, Florida Statutes, the insurer named above:

- (1) Is licensed to do business in the State of Florida;
- (2) Holds a certificate of authority authorizing it to write surety bonds in the State of Florida;
- (3) Has twice the minimum surplus and capital required by the Florida Insurance Code;
- (4) Is otherwise in compliance with the provisions of the Florida Insurance Code; and
- (5) Currently holds a valid certificate of authority issued by the United States Department of Treasury under 31 U.S.C. §§ 9304-9308.

(Date Signed)

Agent and Attorney-in-Fact

(continued on next page)

AFFIDAVIT

STATE OF _____)
) SS.
COUNTY OF _____)

The foregoing instrument was acknowledged before me, by means of physical presence or online notarization, this _____ day of _____, 20____, by _____, who is personally known to me or who has produced _____ as identification and who did (did not) take an oath.

NOTARY PUBLIC:

Signature: _____

Print Name: _____

(NOTARY SEAL)

My commission expires:

**FORM 5: UNCONDITIONAL LETTER OF CREDIT
(PERFORMANCE AND PAYMENT GUARANTY) FORM**

UNCONDITIONAL LETTER OF CREDIT

Beneficiary:

Broward County,
County Administrator
Governmental Center, Room 409
115 South Andrews Avenue
Fort Lauderdale, FL 33301

Date of Issue _____

Issuing Bank's No. _____

Applicant: _____

Amount: _____

(in United States Funds)

Expiry: _____

(Date)

Bid/Contract Number _____

We hereby authorize you to draw on (Bank, Issuer Name) at (Branch Address) by order of and for the account of (Contractor, Applicant, Customer) up to an aggregate amount, in United States Funds, of \$(Dollar Amount) available by your drafts at sight, accompanied by: A signed statement from the County Administrator of Broward County, or the County Administrator's authorized representative that the drawing is due to default in performance of certain obligations on the part of (Contractor, Applicant, Customer) agreed upon by and between Broward County and (Contractor, Applicant, Customer) pursuant to the Bid/Contract No. for (Name of Project) and Section 255.05, Florida Statutes. Drafts must be drawn and negotiated not later than (expiration date). Drafts must bear the clause: "Drawn under Letter of Credit No. (number), of (Bank Name) dated _____."

This Letter of Credit shall be renewed for successive periods of one (1) year each unless we provide the Broward County Administrator with written notice of our intent to terminate the credit herein extended, which notice must be provided at least thirty (30) days prior to the expiration date of the original term hereof or any renewed one (1) year term. Notification to Broward County that this Letter of Credit will expire prior to performance of Contractor's obligations will be deemed a default.

This Letter of Credit sets forth in full the terms of our undertaking, and such undertaking shall not in any way be modified or amplified by reference to any documents, instrument, or agreement referred to herein or in which this Letter of Credit is referred to or this Letter of Credit relates, and any such reference shall not be deemed to incorporate herein by reference any document, instrument, or agreement.

We hereby agree with the drawers, endorsers, and bona fide holders of all drafts drawn under and in compliance with the terms of this Letter of Credit that such drafts will be duly honored upon presentation to the drawee.

Obligations under this Letter of Credit shall be released one (1) year after the final completion of the Project by the _____ (Contractor, Applicant, Customer).

This Credit is subject to the "Uniform Customs and Practice for Documentary Credits," International Chamber of Commerce (2007 revision), Publication No. 600 and to the provisions of Florida law. If a conflict between the Uniform Customs and Practice for Documentary Credits

and Florida law should arise, Florida law shall prevail. If a conflict between the law of another state or country and Florida law should arise, Florida law shall prevail.

Authorized Signature

FORM 6: MONTHLY (CBE) UTILIZATION REPORT



COUNTY BUSINESS ENTERPRISE (CBE) MONTHLY UTILIZATION REPORT

Report No. _____
CBE Commitment ____%

Contract # _____ Contract Amount: _____ Amt. Paid to Prime: _____
 Project Description: _____ Project Completion Date: _____ Period Ending Date: _____
 Prime Contractor: _____ Contact Person: _____
 Email: _____ Phone: _____ Fax: _____

SUBCONTRACTING INFORMATION

CBE Firm(s)	Address	Description of Work	Original Agreed Price	Revised Agreed Price	% of work Completed to Date	Amount Paid This Period	Amount Paid to Date
Total Amount Paid to CBE Firm(s) to Date:							\$ 0.00

I certify that the information submitted in this report is in fact true and correct to the best of my knowledge.

Signature: _____ Title: _____ Date: _____

This completed form must be submitted to the Project Manager.
 Note: The information provided herein is subject to verification by the Office of Economic and Small Business Development.

FORM 7: FINAL (CBE) UTILIZATION REPORT



COUNTY BUSINESS ENTERPRISE (CBE) FINAL MONTHLY UTILIZATION REPORT

Report No. _____
CBE Commitment ____%

Contract #: _____ Contract Amount: _____ Amt. Paid to Prime: _____
 Project Description: _____ Project Completion Date: _____ Period Ending Date: _____
 Prime Contractor: _____ Contact Person: _____
 Email: _____ Phone: _____ Fax: _____

SUBCONTRACTING INFORMATION

CBE Firm(s)	Address	Description of Work	Original Agreed Price	Revised Agreed Price	% of work Completed to Date	Amount Paid This Period	Amount Paid to Date
Total Amount Paid to CBE Firm(s) to Date:							\$ 0.00

I certify that the information submitted in this report is in fact true and correct to the best of my knowledge.

Signature: _____ Title: _____ Date: _____

This completed form must be submitted to the Project Manager.
 Note: The information provided herein is subject to verification by the Office of Economic and Small Business Development.

FORM 8: STATEMENT OF COMPLIANCE (PREVAILING WAGE RATE)

No. _____
Contract No. _____
Project Title _____

The undersigned Contractor hereby swears under penalty of perjury that, during the period covered by the application for payment to which this statement is attached, all mechanics, laborers, and apprentices, employed or working on the site of the Project, have been paid at wage rates, and that the wage rates of payments, contributions, or costs for fringe benefits have not been less than those required by Section 26-5 of the Broward County Code of Ordinances and the applicable conditions of the Contract.

Dated _____, 20__ _____
Contractor

By _____
(Signature)

By _____
(Name and Title)

STATE OF _____)
) SS.
COUNTY OF _____)

The foregoing instrument was acknowledged before me, by means of physical presence or online notarization, this _____ day of _____, 20__ by _____, who is personally known to me or who has produced _____ as identification and who did (did not) take an oath.

NOTARY PUBLIC:

Signature: _____

Print Name: _____

(NOTARY SEAL)

My commission expires:

FORM 9: CERTIFICATION OF PAYMENTS TO SUBCONTRACTORS

Contract No. _____
Project Title _____

The undersigned Contractor hereby swears under penalty of perjury that:

1. Contractor has paid all Subcontractors all undisputed contract obligations for labor, services, or materials provided on this Project within the time period set forth in Sections 218.73 and 218.735, Florida Statutes, as applicable.
2. The following Subcontractors have not been paid because of disputed contractual obligations; a copy of the notification sent to each, explaining the good cause why payment has not been made, is attached to this form:

Subcontractor Name and Address	Date of Disputed Invoice	Amount in Dispute

Dated _____, 20__

Contractor

By _____

(Signature)

By _____

(Name and Title)

STATE OF _____)

) SS.

COUNTY OF _____)

The foregoing instrument was acknowledged before me, by means of physical presence or online notarization, this _____ day of _____, 20__, by _____, who is personally known to me or who has produced _____ as identification and who did (did not) take an oath.

NOTARY PUBLIC:

Signature: _____

Print Name: _____

(NOTARY SEAL)

My commission expires:

Contractor

By

Date

County, through the Contract Administrator, has determined the Work or portion thereof designated by County is substantially complete and will assume full possession thereof at _____ (time) _____ on _____ (date) _____.

BROWARD COUNTY:

By Contract Administrator

Date

The responsibilities of County and Contractor for security, maintenance, heat, utilities, damage to the work and insurance shall be as follows: _____

FORM 12: FORM OF FINAL RECEIPT

[The following form will be used to show receipt of final payment for this Contract.]

FINAL RECEIPT FOR CONTRACT NO. _____

Received this _____ day of _____, 20____, from Broward County, the sum of _____ Dollars (\$_____) as full and final payment to Contractor for all Work and materials for the Project described as:

This sum includes full and final payment for all extra Work and material and all incidentals.

Contractor hereby indemnifies and releases Broward County from all liens and claims whatsoever arising out of the Contract and/or Project.

Contractor hereby certifies that all persons doing Work upon or furnishing materials or supplies for the Project have been paid in full. In lieu of this certification regarding payment for Work, materials and supplies, Contractor may submit a consent of surety to final payment in a form satisfactory to County.

Contractor further certifies that all taxes imposed by Chapter 212, Florida Statutes (Sales and Use Tax Act), as amended, have been paid and discharged.

[IF INCORPORATED SIGN BELOW.]

CONTRACTOR

ATTEST:

CONTRACTOR NAME

Corporate Secretary or other person authorized to attest

By: _____

Authorized Signer

(CORPORATE SEAL OR NOTARY)

Print Name and Title

_____ day of _____, 20____

[IF NOT INCORPORATED SIGN BELOW.]

CONTRACTOR

WITNESSES:

Witness signature

Business Name

Print/Type Name

By: _____
Authorized Signer

Witness signature

Print/Type Name and Title

Print/Type Name

____ day of _____, 20__

FORM 13: FINAL LIST OF NON-CERTIFIED SUBCONTRACTORS AND SUPPLIERS

To: _____, Contractor

From: Broward County Purchasing Division

Subject: Final List of Non-certified Subcontractors/Sub-vendors

Re: _____
(Project Title, Contract Number)

The attached list of non-certified Subcontractors/sub-vendors have performed or provided services to County for the referenced contract. Non-certified Subcontractors/sub-vendors are any Subcontractors/sub-vendors whose services under the Contract were not approved to meet the County’s participation CBE goal established for this Contract, and whose participation was not listed on Contractor’s “Schedule of Participation” and/or not aproved as substitutes or additions by the Broward County Office of Economic Small Business Development Division toward meeting the established goal.

Contractor certifies the following:

- There were no other non-certified Subcontractors/sub-vendors who provided a service to County for the referenced Contract. All participants on the Contract are listed on the attached list.
- There were other non-certified Subcontractors/sub-vendors who provided a service and are not listed on the attached list. The additional Subcontractors/sub-vendors are listed on the attached list.

THE UNDERSIGNED VENDOR HEREBY CERTIFIES THAT THE INFORMATION PROVIDED HEREIN IS TRUE AND CORRECT.

The foregoing instrument was acknowledged before me, by means of physical presence or online notarization, this _____ day of _____, 20____, by _____, who is personally known to me or who has produced _____ as identification and who did (did not) take an oath.

NOTARY PUBLIC:

Signature: _____

Print Name: _____

(NOTARY SEAL)

My commission expires:

FORM 14: LETTER OF INTENT (CBE)

To Utilize a County Business Enterprise (CBE) Subcontractor/Subconsultant

Project Name: Annual Civil Repairs and Maintenance at FLL

From (Name of Proposer/Bidder):

Firm Address:

Project Description:

In response to Broward County's RFP/Bid No. _____, the undersigned hereby agree to utilize the CBE firm listed below, if awarded the contract. The undersigned further certify that the firm has been contacted and properly apprised of the projected work assignment(s) upon execution of the contract with Broward County.

Name of CBE Firm:

Address of CBE Firm:

Expiration of CBE Certification: _____ Projected CBE Work Assignment (description of work assignment): _____

Projected Percentage of Prime's Contract Fees to be Awarded to CBE (Percentage %): _____

(Signature of Owner or Authorized Rep. Prime)

(Date)

Print Name (owner or authorized Rep. Prime): _____

The foregoing instrument was acknowledged before me, by means of physical presence or online notarization, this _____ day of _____, 20____, by _____, who is personally known to me or who has produced _____ as identification and who did (did not) take an oath.

NOTARY PUBLIC:

Signature: _____

Print Name: _____

(NOTARY SEAL)

My commission expires:

(ACKNOWLEDGEMENT BY THE PROPOSED CBE FIRM)

The undersigned intends to perform Work in connection with the above Contract as (check one): an individual a partnership a corporation a joint venture. The undersigned agrees with the prime contractor's/consultant's proposal and further certifies that all information provided herein is true and correct.

(Signature of Owner or Authorized Rep. CBE)

(Date)

Print Name (owner or authorized Rep. CBE): _____

The foregoing instrument was acknowledged before me, by means of physical presence or online notarization, this _____ day of _____, 20____, by _____, who is personally known to me or who has produced _____ as identification and who did (did not) take an oath.

NOTARY PUBLIC:

Signature: _____

Print Name: _____

(NOTARY SEAL)

My commission expires:

EXHIBIT A – MINIMUM INSURANCE REQUIREMENTS

Insurance Requirements for Annual Civil Repairs Agreement

the following coverage's are deemed appropriate for minimum insurance requirements for this project and will be required of the selected firm and identified in the negotiated agreement. Any deviation or change during the contract negotiation period shall be approved by Risk Management.

TYPE OF INSURANCE 1. ALL COI's be submitted on an ACCORD 25 form 2. ALL deductibles are vendors responsibility 3. Self Insurance and SIR's is not approved	Limits on Liability in Thousands of Dollars		
		Each Occurrence	Aggregate
GENERAL LIABILITY <input checked="" type="checkbox"/> Commercial General Liability <input checked="" type="checkbox"/> Premises-Operations <input checked="" type="checkbox"/> Explosion & Collapse Hazard <input checked="" type="checkbox"/> Underground Hazard <input checked="" type="checkbox"/> Products/Completed Operations Hazard (5 years) <input checked="" type="checkbox"/> Contractual Insurance <input checked="" type="checkbox"/> Broad Form Property Damage <input checked="" type="checkbox"/> Personal Injury <input checked="" type="checkbox"/> mobil equipment	Bodily Injury		
	Property Damage		
	Bodily Injury and Property Damage Combined	\$ 3 mil landside \$ 5 mil airside	\$ 3 mil landside \$ 5 mil airside
	Personal Injury		
AUTO LIABILITY <input checked="" type="checkbox"/> Comprehensive Form <input checked="" type="checkbox"/> Owned <input checked="" type="checkbox"/> Hired <input checked="" type="checkbox"/> Non-owned <input checked="" type="checkbox"/> Any Auto If applicable	Bodily Injury (each person)		
	Bodily Injury (each accident)		
	Property Damage		
	Bodily Injury and Property Damage Combined	\$1 mil landside \$ 5 mil airside	
EXCESS LIABILITY <input type="checkbox"/> Umbrella Form <input type="checkbox"/> Other than Umbrella Form	Bodily Injury and Property Damage Combined	\$	\$
<input checked="" type="checkbox"/> POLLUTION/ Environmental impairment liability with clean-up costs ***If working on or with the fuel hydrant system or near any plume on the airport property, coverage will be necessary or storing or using any hazardous materials	Minimum deductible of \$25k	\$ 1 mil	
<input checked="" type="checkbox"/> PROFESSIONAL LIABILITY ***If any officially stamped plans, drawings or professional licensed person is required for work	Minimum deductible of \$25k	\$ 2 mil	
<input checked="" type="checkbox"/> WORKER'S COMPENSATION AND EMPLOYER'S LIABILITY (NOTE *)	<input checked="" type="checkbox"/> STATUTORY Dollar values only:	**State exemption not accepted.	
		(each accident)	500K MIN
Description of Operations/Locations/Vehicles: Certificate must show on general liability and excess liability Additional Insured: Broward County. Also when applicable certificate should show Broward County as a named insured for property and builders risk and as a loss payee for installation floater when coverage's are required. Certificate Must be Signed and All applicable Deductibles shown. Indicate bid number, RLI,RFP, and project manager on COI.			

NOTE * - If the Company is exempt from Workers' Compensation Coverage, please provide a letter on company letterhead or a copy of the State's exemption which documents this status and attaché to the Certificate of Insurance for approval. If any operations are to be undertaken on or about navigable waters, coverage must be included for U.S. Longshoremen & Harbor Workers' Act/ & Jones Act **CANCELLATION: Thirty (30) Day written notice of cancellation required to the Certificate Holder:**

Name & Address of Certificate Holder
 Broward County
 320 Terminal Drive, Suite 200
 Fort Lauderdale, FL 33315 CIP

 Digitally signed by
Tracy Meyer
 Date: 2022.05.16
 Date Issued 3:45:53 -04'00'

InsuranceLimitsForm.03 Revised certificateofinsrevised2005.DOC COI

EXHIBIT B – NONDISCRIMINATION REQUIREMENTS

A. Title VI List of Pertinent Nondiscrimination Acts and Authorities. During the performance of this Contract, Contractor, for itself, its assignees, and successors in interest, agrees as follows:

1) *Compliance with Regulations:* Contractor (hereinafter includes subcontractors) will comply with the **Title VI List of Pertinent Nondiscrimination Acts and Authorities** (“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, and which include, but are not limited to, the following:

A. Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d *et seq.*, 78 Stat. 252) (prohibits discrimination on the basis of race, color, national origin);

B. 49 C.F.R. Part 21 (Nondiscrimination in Federally-assisted programs of the Department of Transportation – Effectuation of Title VI of the Civil Rights Act of 1964);

C. The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601) (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);

D. Section 504 of the Rehabilitation Act of 1973 (29 U.S.C. § 794 *et seq.*), as amended (prohibits discrimination on the basis of disability); and 49 C.F.R. Part 27;

E. The Age Discrimination Act of 1975, as amended (42 U.S.C. § 6101 *et seq.*) (prohibits discrimination on the basis of age);

F. Airport and Airway Improvement Act of 1982 (49 U.S.C. § 47123), as amended (prohibits discrimination based on race, creed, color, national origin, or sex);

G. The Civil Rights Restoration Act of 1987 (P.L. 100-209) (broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, the Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms “programs or activities” to include all of the programs or activities of the Federal-aid recipients, subrecipients and contractors, whether such programs or activities are Federally funded or not);

H. Titles II and III of the Americans with Disabilities Act of 1990, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131 – 12189) as implemented by U.S. Department of Transportation regulations at 49 C.F.R. Parts 37 and 38;

I. The Federal Aviation Administration’s Nondiscrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);

J. Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which 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;

K. Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100); and

L. Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. § 1681 et seq).

2) *Nondiscrimination:* Contractor, with regard to the work performed by it during the Contract, will 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. Contractor will not participate directly or indirectly in the discrimination prohibited by the Nondiscrimination Acts and Authorities, including employment practices when the Contract covers any activity, project, or program set forth in Appendix B of 49 C.F.R. Part 21.

3) *Solicitations for Subcontracts, Including Procurements of Materials and Equipment:* In all solicitations, either by competitive bidding or negotiation made by Contractor for work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by Contractor of Contractor's obligations under this Contract and the Nondiscrimination Acts and Authorities on the grounds of race, color, or national origin.

4) *Information and Reports:* Contractor will provide all information and reports required by the Nondiscrimination Acts and Authorities, and directives issued pursuant thereto, and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the sponsor or the Federal Aviation Administration to be pertinent to ascertain compliance with such Nondiscrimination Acts and Authorities and instructions. Where any information required of Contractor is in the exclusive possession of another who fails or refuses to furnish the information, Contractor will so certify to the sponsor or the Federal Aviation Administration, as appropriate, and will set forth what efforts it has made to obtain the information.

5) *Sanctions for Noncompliance:* In the event of Contractor's noncompliance with the nondiscrimination provisions of this Contract, the sponsor will impose such contract sanctions as it or the Federal Aviation Administration may determine to be appropriate, including, but not limited to:

- A. Withholding payments under the Contract until Contractor complies; and/or
- B. Cancelling, terminating, or suspending the Contract, in whole or in part.

6) *Incorporation of Provisions:* Contractor will include the provisions of paragraphs one through six in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Nondiscrimination Acts and Authorities, and directives issued pursuant thereto. Contractor will take action with respect to any subcontract or procurement as the sponsor or the Federal Aviation Administration may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if Contractor becomes involved in, or is threatened with litigation by a subcontractor or supplier because of such direction, Contractor may request the sponsor to enter into any litigation to protect the interests of the sponsor. In addition, Contractor may request the United States to enter into the litigation to protect the interests of the United States.

B. Nondiscrimination - 14 C.F.R. Part 152 Requirements. During the performance of this Contract, Contractor, for itself, its assignees, and successors in interest, agrees as follows:

1) Contractor agrees to undertake an affirmative action program as required by 14 C.F.R. Part 152, Subpart E, to insure that no person shall on the grounds of race, color, religion, gender, national origin, age, marital status, political affiliation, familial status, physical or mental disability, or sexual orientation be excluded from participation in any employment, contracting, or leasing activities covered in 14 C.F.R. Part 152, Subpart E. Contractor agrees that no person shall be excluded on these grounds from participating in or receiving the services or benefits of any program or activity covered by this Subpart. Contractor agrees that it will require its covered suborganizations to provide assurances to Contractor that they similarly will undertake affirmative action programs and that they will require assurances from their suborganizations as required by 14 C.F.R. Part 152, Subpart E, to the same effect.

2) Contractor agrees to comply with any affirmative action plan or steps for equal employment opportunity required by 14 C.F.R. Part 152, Subpart E, as part of the affirmative action program, and by any federal, state, County or local agency or court, including those resulting from a conciliation agreement, a consent decree, court order or similar mechanism. Contractor agrees that state or County affirmative action plans will be used in lieu of any affirmative action plan or steps required by 14 C.F.R. Part 152, Subpart E, only when they fully meet the standards set forth in 14 C.F.R. 152.409. Contractor agrees to obtain a similar assurance from its covered organizations, and to cause them to require a similar assurance of their covered suborganizations, as required by 14 C.F.R. Part 152, Subpart E.

3) If required by 14 C.F.R. Part 152, Contractor shall prepare and keep on file for review by the FAA Office of Civil Rights an affirmative action plan developed in accordance with the standards in Part 152. Contractor shall similarly require each of its covered suborganizations (if required under Part 152) to prepare and to keep on file for review by the FAA Office of Civil Rights, an affirmative action plan developed in accordance with the standards in Part 152.

4) If Contractor is not subject to an affirmative action plan, regulatory goals and timetables, or other mechanism providing for short and long-range goals for equal employment opportunity under Part 152, then Contractor shall nevertheless make good

faith efforts to recruit and hire minorities and women for its aviation workforce as vacancies occur, by taking any affirmative action steps required by Part 152. Contractor shall similarly require such affirmative action steps of any of its covered suborganizations, as required under Part 152.

5) Contractor shall keep on file, for the period set forth in Part 152, reports (other than those submitted to the FAA), records, and affirmative action plans, if applicable, that will enable the FAA Office of Civil Rights to ascertain if there has been and is compliance with this subpart, and Contractor shall require its covered suborganizations to keep similar records as applicable.

6) Contractor shall, if required by Part 152, annually submit to the County the reports required by Section 152.415, and Contractor shall cause each of its covered suborganizations that are covered by Part 152 to annually submit the reports required by Section 152.415 to Contractor who shall, in turn, submit same to the County for transmittal to the FAA.

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EXHIBIT C – SECURITY REQUIREMENTS – AVIATION DEPARTMENT

1) Airport Security Program and Aviation Regulations.

a) Contractor shall observe all security requirements and other requirements of the Federal Aviation Regulations applicable to Contractor, including, but not limited to, all regulations of the United States Department of Transportation, the Federal Aviation Administration, and the Transportation Security Administration. Contractor shall comply with County's Airport Security Program and the Air Operations Area ("AOA") Vehicle Access Program, and any amendments thereto, and with such other rules and regulations as may be reasonably prescribed by County, including any regulations pertaining to emergency training, and shall take such steps as may be necessary or directed by County to ensure that subcontractor, employees, invitees, and guests of Contractor observe these requirements. If required by the Aviation Department, Contractor shall conduct background checks of its employees in accordance with applicable Federal Regulations. If as a result of the acts or omissions of Contractor, its subcontractors, employees, invitees, or guests, County incurs any fines and/or penalties imposed by any governmental agency, including, but not limited to, the United States Department of Transportation, the Federal Aviation Administration, or the Transportation Security Administration, or any expense in enforcing any Federal regulations, including, but not limited to, airport security regulations, or the rules or regulations of County, and/or any expense in enforcing County's Airport Security Program, then Contractor shall pay and/or reimburse to County all such costs and expenses, including all costs of administrative proceedings, court costs, and attorney's fees and all costs incurred by County in enforcing this provision. Contractor shall rectify any security deficiency or other deficiency as may be determined as such by County or the United States Department of Transportation, Federal Aviation Administration, the Transportation Security Administration, or any other Federal agency with jurisdiction. In the event Contractor fails to remedy any such deficiency, County may do so at the sole cost and expense of Contractor. County reserves the right to take whatever action is necessary to rectify any security deficiency or other deficiency.

2) Access to Security Identification Display Areas and Identification Media.

a) Contractor shall be responsible for requesting the Aviation Department to issue Airport Issued Identification Media to all employees including those who are authorized access to Security Identification Display Areas ("SIDA") on the Airport, as designated in the Airport Security Program. In addition, Contractor shall be responsible for the immediate reporting of all lost or stolen Airport Issued Identification Media and the immediate return of the media of Contractor's personnel transferred from the Airport, or terminated from the employ of Contractor, or upon termination of this Contract. Before an Airport Issued Identification Media is issued to an employee, Contractor shall comply with the requirements of applicable Federal regulations with regard to fingerprinting for criminal history record checks and security threat assessments, and shall require that each employee complete security training programs conducted by the Aviation Department. Contractor shall pay or cause to be paid to the Aviation Department such charges as may be established from time to time for lost or stolen Airport Issued

Identification Media and those not returned to the Aviation Department in accordance with these provisions. The Aviation Department shall have the right to require Contractor to conduct background investigations and to furnish certain data on such employees before the issuance of Airport Issued Identification Media, which data may include the fingerprinting of employee applicants for such media.

3) Operation of Vehicles on the AOA:

a) Before Contractor shall permit any employee of Contractor or of any subcontractor to operate a motor vehicle of any kind or type on the AOA (and unless escorted by an Aviation Department approved escort), Contractor shall ensure that all such vehicle operators possess current, valid, and appropriate Florida driver's licenses. In addition, any motor vehicles and equipment of Contractor or of any subcontractor operating on the AOA must have an appropriate vehicle identification permit issued by the Aviation Department, which identification must be displayed as required by the Aviation Department.

4) Consent to Search/Inspection:

a) Contractor's vehicles, cargo, goods, and other personal property are subject to being inspected and searched when attempting to enter or leave and while on the AOA. Contractor and its subcontractor shall not authorize any employee or other person to enter the AOA unless and until such employee or other person has executed a written consent-to-search/inspection form acceptable to the Aviation Department. The foregoing requirements are for the protection of users of the Airport and are intended to reduce incidents of cargo tampering, aircraft sabotage, thefts and other unlawful activities at the Airport. For this reason, persons not executing such consent-to-search/inspection form shall not be employed by Contractor or by any subcontractor at the Airport in any position requiring access to the AOA or allowed entry to the AOA by Contractor or by any subcontractor.

b) If any of Contractor's employees, or the employees of any of its subcontractors, are required in the course of the work to be performed under this Contract to access or otherwise be in contact with Sensitive Security Information ("SSI") as defined and construed under Federal law, that individual will be required to execute a Sensitive Security Information Non-Disclosure Agreement promulgated by the Aviation Department.

The provisions of this **exhibit** shall survive the expiration or any other termination of this Contract.

EXHIBIT D - BROWARD COUNTY AVIATION DEPARTMENT (BCAD) ELECTRONIC MEDIA SUBMITTAL REQUIREMENTS

Last Revised 04/26/2017

Broward County Aviation Department (BCAD) utilizes electronic media as the principal way to develop, communicate and archive information concerning its various airport programs. Electronic media encompasses all methods of conveying digital information and files including e-mail, File Transfer Protocol (FTP), Compact Disc (CD) / Digital Video Disc (DVD), web-based file-sharing services, Universal Serial Bus (USB) and physical drives.

Prior to development of scope of services, BCAD will specify the deliverables to be provided via electronic media. **Prior to commencing work under any Contract, the Contractor/Contractor must contact the Contract Administrator and/or designated Project Manager to verify they have a copy of the latest version of BCAD's Electronic Media Submittal Requirements, as well as any associated standards, specifications, procedures, or templates related to their scope of services.** BCAD modifies these documents as needed to make corrections and/or to keep up with latest industry trends, best practices, guidelines, standards and regulations, as well as to improve its internal processes. Some requirements below may not apply, or additional requirements may be needed, based on the nature of the scope of services and associated deliverables. Any deviations from the requirements below must be approved by BCAD's Contract Administrator or the Project Manager designated to approve or deny such requests.

Refer to BCAD GIS, CAD and BIM standards at:

<http://www.broward.org/Airport/Business/Pages/BIMStandard.aspx>

1) General Requirements:

- a) All work, including surveying work, drawings, maps, details or other drawing information to be provided in electronic media by Consultant/Contractor shall be developed using computer-aided design (CAD), geographic information system (GIS), Building Information Modeling (BIM), and/or other software and procedures conforming to the following criteria. Electronic data submittals shall also include Portable Document Format (PDF) versions of specific pages and drawing sheets, as specified in the Contract.
- b) All electronic media should be readable and function as intended without conversion or modification on the Microsoft Windows Operating System. All electronic media should be in their original editable file or data format, or accompanied by the original editable format (e.g., a PDF engineering drawing file must be accompanied by an original CAD file).

2) **Software Formats:**

CAD Format

- a) Provide all CAD data in Autodesk, Inc.'s AutoCAD release 2013 or later for Windows in native DWG electronic file format. Contractors who do not use AutoCAD must ensure that translated DWGs that are provided can be used within AutoCAD.
- b) Ensure that all digital files, data (e.g., constructs, elements, base files, prototype drawings, externally referenced files (XREFs), blocks, attribute links), and other files external to the drawing itself are compatible with the BCAD approved CAD and GIS software as noted above.

GIS Format

- a) All GIS data shall be delivered in formats compatible with Esri ArcGIS version 10.1 or higher file geodatabase. Federal Aviation Administration Airports GIS (AGIS) data shall be submitted in Esri File Geodatabase format unless otherwise specified by BCAD.
- b) All deliverables must include appropriate metadata conforming to BCAD and where applicable FAA standards. Metadata shall be in Extensible Markup Language (XML) format, unless specified otherwise in writing by the BCAD Contract Administrator or Project Manager.
- c) When requested, the Consultant/Contractor will be required to ensure that all GIS data is formatted for successful submission to the FAA AGIS portal without any additional changes required by BCAD staff. Consultant/Contractor GIS and CAD data deliverables shall conform to the latest BCAD, and where applicable, FAA standards.
- d) All database tables: conform to the structure and field-naming guidance provided by BCAD. Specifically, all database tables shall conform to applicable FAA and BCAD standards and guidelines. All databases shall be compliant with at least MS Access 2007 and/or other format (DBF, XML, Esri geodatabase, other) as requested by BCAD. Formats may change, at BCAD's request, depending on the particulars of the projects. Consultant/Contractor shall inform BCAD of the most suitable format for a given project and explain, in writing, the benefits of that format versus alternatives. BCAD has the final decision as to format regardless of Contractor's/Contractor's written explanation.

Additional Deliverable Requirements

- a) The term "compatible" means that data can be accessed directly by the target CAD and GIS software without conversion, translation, pre-processing, or post-processing of the electronic data files.
- b) Non-geospatial database delivered with CAD/GIS files must be provided in relational database format compatible with Microsoft Access 2007 or higher, and other

compatible format requested by BCAD. See Section (5)(a) below, "Non-Graphic Format," for additional requirements for non- geospatial databases.

c) Maintain all linkages of non-spatial data with spatial elements, relationships between database tables, and report formats. Consultant/Contractor should work with BCAD to ensure linkages will conform with and match those already in place or generated to create such links.

d) All CAD and GIS files shall meet FAA spatial accuracy requirements and be georeferenced as follows:

e) North American Datum (NAD) 83, HARN, US Survey Feet State Plane Coordinate System, Florida East Zone North American Vertical Datum (NAVD) 88, US Survey Feet

3) Standards:

a) Standard plotted drawing size: 22 inch x 34 inch sheets unless otherwise specified by BCAD. All drawings shall be formatted to use the BCAD standard Cover Page and Title Block.

b) CAD files should be named as described in BCAD's CAD Standard.

c) Layering:

i) CAD layers must be named according to BCAD's CAD Standard.

ii) Submission of layers that do not conform to the standards listed above will require a written request using the form specified in BCAD's CAD standard and advance written BCAD approval.

iii) All raster files shall be delivered in georeferenced TIFF and compressed SID or JPEG2000 formats. If files must be tiled, a reference map will be provided depicting the location of each tile image. All raster files shall be tiled if file size reaches a size in excess of what BCAD finds difficult to use.

d) Attribute Definitions:

i) Obtain latest guidance from BCAD concerning attribute definition, database linking and other information embedding requirements prior to production of data. All database information shall conform to the latest versions of FAA ACs 150/5300-16, 17, and 18, and other BCAD standards. Additional attributes may be required at the discretion of BCAD.

ii) CAD data shall be attributed following Section 4.2, "Object Data", of the BCAD CAD Standard, and by utilizing the standard object data tables included in each BCAD CAD template file. The specific object data tables and attributes to be populated should be coordinated and established with the BCAD Project Manager and BCAD GIS. BCAD requires object data functionality in its CAD Standard to accommodate asset attribution and

allow BCAD to simplify the data migration process from CAD to GIS.

e) **Conformance:**

- i) No deviations from BCAD's established CAD/GIS standards will be permitted unless prior written approval of such deviation has been received from BCAD's Contract Administrator.
- ii) Pre-coordinate the development, use and submittal of photorealistic renderings, animations, presentations and other visualization/information tools utilized during the design and construction process to ensure compatibility of submittal with County's uses and information systems.
- iii) Building Information Modeling (BIM) files should conform to BCAD's BIM guidelines and standards.

4) Digital Photography:

- a) Provide digital photography files and other miscellaneous graphics in JPEG format, unless required in an alternate format such as that needed for CAD, GIS, and/or BIM.
- b) Photographs should be oriented properly for viewing without rotating the image (i.e., "up" should appear at the top).
- c) Exchangeable Image File Format (Exif) data should be embedded in the JPEG photo files and included the data on which the photo was taken. Exterior photos should also include tags indicating the latitude and longitude at which the photo was taken.

5) Non-Graphic Format:

- a) Provide database files in relational database format compatible with Microsoft Access 2007 or higher, and/or other compatible SQL format database including all tables, form and report formats, fonts, typefaces, bit-map and vector graphics and other information necessary for printing. Ensure integrity of relational database structure. Consultant/Contractor may be required to ensure that database formats conform to and can be integrated with other BCAD legacy applications and systems.
- b) **ADA Compliance.** As used in this section, ADA means the Americans with Disabilities Act, 42 U.S.C. 126, et seq., and any of its regulations, and includes any Florida statute or County ordinance, policy or regulation intended to comply with any provision or regulation of the ADA.
 - i) If requested by BCAD, The Contractor shall provide BCAD with fully ADA accessible electronic files (the ADA Files) for posting on County's website, including, but not limited to, fl.net.
 - ii) The ADA Files may include, but are not limited to, contracts, flyers, reports, or newsletters.

- iii) County, in its sole discretion, may approve or reject the format and content of the ADA Files before posting the files on County's website.
- iv) If Contractor is creating a separate website as part of its contract, the website must be fully ADA accessible, including any attachments to the website. County, in its sole discretion, may approve or reject the format and content of the fully accessible ADA website, including any attachments to the website.

6) Delivery Media and Format:

- a) Submit electronic media in conformance with this document when and as specified in Contracts and Work Authorizations.
- b) Electronic data and files shall be provided on CD/DVD, as an e-mail attachment, via a Secure File Transfer Protocol (FTP) site, or via a password-protected web-based file sharing service (e.g., DropBox, Box, SharePoint, or Basecamp).
- c) Large data or file sets, (e.g., high-resolution imagery in TIFF format) may be shipped via USB flash drive, external SSD drive, or external HDD drive. Drives must be scanned for viruses by the Consultant/Contractor and certified as per submittal requirements in Section (8)(b)(iii) below.
- d) The electronic media shall be in the format which can be readily read and processed by the BCAD's target CAD/GIS systems.
- e) The external label for physical media such as CD/DVD shall contain, as a minimum, the following information:
 - i) The Contract or Project number, title, and date. If a contract or project number has not yet been issued, then it is permissible to use a BCAD issued Request for Proposal (RFP) or Request for Letters of Interest (RLI) number.
 - ii) The Facility Name (e.g., "Fort Lauderdale - Hollywood International Airport" or "North Perry Airport").
 - iii) The date of the submittal as well as the date on which the electronic data can be considered valid, if different than the submittal.
 - iv) The sequence number and total number of physical media if more than once is required to provide the electronic data being delivered.
 - v) Special requirements for Sensitive Security Information (SSI):
 - (1) SSI transmitted by e-mail must be in a password-protected attachment. SSI is not authorized for posting on the internet/intranet except for postings on secure sites as specifically authorized by the BCAD Project Manager.

- (2) The following text must appear on either, (a) the exterior label of any media, (b) in the email body of any attachment, or (c) as a text file named README.TXT in the same secured online file-sharing service or FTP folder, containing SSI as defined by 49 CFR 1520. *WARNING: This record contains Sensitive Security Information that is controlled under 49 CFR parts 15 and 1520. No part of this record may be disclosed to persons without a "need to know", as defined in 49 CFR parts 15 and 1520, except with the written permission of the Administrator of the Transportation Security Administration or the Secretary of Transportation. Unauthorized release may result in civil penalty or other action. For U.S. government agencies, public disclosure is governed by 5 U.S.C. 552 and 49 CFR parts 15 and 1520.*
- f) Before all files are placed on the delivery electronic digital media, the following procedures shall be performed:
- i) Ensure that drawing sheets, viewports, paperspace, line weights, fonts, and other drawing components are correctly configured for BCAD's viewing and plotting.
 - ii) Make sure all reference files are attached without device or directory specifications. Reference files should not be bound.
 - iii) Compress and reduce all design files using compatible file compression/decompression software approved by BCAD. If the file compression/decompression software is different from that approved by BCAD, then an electronic copy of the file compression/decompression software shall be purchased and licensed for BCAD and provided to BCAD with the delivery media.
 - iv) Include all files, both graphic and non-graphic, required for the project. All blocks not provided as BCAD-furnished materials must be provided to BCAD as a part of the electronic deliverables.
 - v) Make sure that all support files, such as those listed above, are in the same directory and that references to those files do not include device or directory specifications. Files opened on BCAD's computer systems must have referenced/linked support files, such as AutoCAD blocks and XREFs, automatically load without additional referencing/linking by BCAD staff.
 - vi) Include any standard sheets (i.e., abbreviation sheets, standard symbol sheets, or other listing) necessary for a complete project. These shall conform to BCAD standard cover sheet and title block pages.
 - vii) Do not bind or explode any drawing references such as blocks and XREFs.
 - viii) Document any fonts, tables, or other similar customized drawing

element(s) developed by Consultant/Contractor or not provided among BCAD furnished materials. The Consultant/Contractor shall obtain BCAD's approval before using anything other than BCAD's standard fonts, line types, tables, blocks, or other drawing elements available from BCAD.

7) Drawing Development Documentation:

- a) Provide the following information for each finished drawing:
 - i) How the data were input (e.g., keyed in, downloaded from a survey total station instrument (include name and model), and other identification data).
 - ii) Brief drawing development history (e.g., date started, modification date(s) with brief description of item(s) modified, author's name, and other identifying data.)
 - iii) The names of the reference, blocks, symbols, details, tables, and schedule files required for the finished drawing.
 - iv) Layer assignments and lock settings.
 - v) Text fonts, line styles\types used, and GIS layer file settings.
 - vi) Any additional information per FAA ACs and BCAD standards.

8) Submittal:

- a) Submit as Project Record Documents, conforming to requirements above, and as required for project phase submittals and project record documents. Where Electronic Project Record Documents are required, Contractor will provide BCAD one set of AutoCAD electronic file format contract drawings, to be used for as-built drawings. In addition, provide scanned PDF's of the signed and sealed as-built AutoCAD file(s).
- b) Submit electronic media with a transmittal letter containing, as a minimum, the following information:
 - i) The information included on the external label of each media unit, along with the total number of units being delivered, and a list of the names and descriptions of the files on each one.
 - ii) Brief instructions for transferring the files from the media.
 - iii) Certification that all delivery media are free of known computer viruses. A statement including the name(s) and release date(s) of the virus-scanning software used to analyze the delivery media, the date the virus-scan was performed, and the operator's name shall also be included with the certification. The release or version date of the virus-scanning software shall be the current version which has detected the latest known viruses

at the time of delivery of the digital media.

- iv) The following "File Development and Project Documentation Information" as an enclosure or attachment to the transmittal letter provided with each electronic digital media submittal.
- (1) Documentation of the plot file for each drawing which will be needed to be able to duplicate the creation of the file by BCAD at a later date. This documentation shall include configuration settings (e.g., drawing size and configuration), and any other special instructions.
 - (2) List of any deviations from BCAD's standard layer/level scheme and file-naming conventions.
 - (3) List of all new symbol blocks created for project, which was not provided to Consultant/Contractor with the BCAD-furnished materials.
 - (4) List of all new figures, symbols, tables, schedules, details, and other blocks created for the project, which were not provided to Consultant/Contractor with the BCAD-furnished materials, and any associated properties.
 - (5) List of all database files associated with each drawing, as well as a description and documentation of the database format and schema design. All information shall conform to BCAD standards.
 - (6) All metadata per BCAD, FAA, and FDOT requirements and those of other entities if specified by BCAD.
 - (7) Provide the following information for each finished drawing in a PDF document:
 - (a) How the data was inputted (e.g., keyed in, downloaded from a survey total station instrument (include name and model), and other identification data).
 - (b) Brief drawing development history (e.g., date started, modification date(s) with brief description of item(s) modified, author's name, and other identifying data).
 - (c) The names of the reference, blocks, symbols, details, tables, and schedule files required for the finished drawing.
 - (d) Layer assignments and lock settings. Refer to layering standards Section (3)(c)(ii) for layer list documentation requirements.

(e) Text fonts, line styles\types used, and GIS layer file settings.

9) Ownership:

- a) County will have ownership, including any copyright, of information and materials developed under these and other contractual requirements, including, but not limited to, reports, listings, and all other items pertaining to the work created or developed under the Contract with Broward County.
- b) Ownership rights under the contract are rights to use, re-use, duplicate, or disclose text, data, drawings, and information, in whole or in part, in any manner and for any purpose whatsoever without compensation to or approval from Consultant/Contractor.
- c) BCAD will, at all reasonable times, have the right to inspect the work and will have access to and the right to make copies of the above-mentioned items.
- d) All text, electronic digital files, data, and other products generated under this contract shall become the property of County except where otherwise limited within the Contract.

10) BCAD-Furnished Materials to the Consultant/Contractor:

- a) BCAD may make various electronic files available to the Contractor during the Pre-Construction and Construction phases of the Project. "Consultant" refers to the planning, engineering, design, and/or survey firm or entity. "Contractor" refers to the firm or entity performing actual construction. To this end, BCAD shall make the following information available to the Contractor in electronic format:
 - (1) Work files: Selected work product files, reports, spreadsheets, databases, specifications, drawings and other documentation of Contractor's work in progress may be provided to the Contractor, Managing General Contractor, or other County consultant on an as required basis.
 - (2) Where electronic media submittals of final site surveys are required, BCAD will provide electronic copies of any existing site survey data.
 - (3) BCAD will supply Contractor with all necessary BCAD standard cover page and title block files and formats, GIS schema, CAD layering.

11) Other Digital Information:

- a) A variety of digital information may be generated by participants in the design process including BCAD, Contractor, subconsultants, Contractor, subcontractors, BCAD's commissioning authority, local jurisdictional authorities, and other project team members.
- b) Consultant/Contractor shall facilitate and participate wherever possible in this digital exchange of information by conforming to the standards expressed above.

EXHIBIT E – FEDERAL AVIATION ADMINISTRATION GENERAL CONTRACT PROVISIONS

Part 1 – General Contract Provisions

Section 10 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.
10-10	Bidder	Any individual, partnership, firm, or corporation, acting directly or through a duly authorized

Paragraph Number	Term	Definition
		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. <u>Contract time shall be based upon calendar days counting from the effective date of the Notice-to Proceed and including Saturdays, Sundays, observed holidays identified below, and other non-work-days. Observed Legal Holidays counting as calendar days and during which the contractor may not be allowed to work are as follows: New Year’s Day, Martin Luther King Day, Memorial Day including the Saturday/Sunday prior to Memorial Day, July 4th, Labor Day and the Saturday/Sunday before Labor Day, Veteran’s Day, Thanksgiving Day and the Friday/Saturday after Thanksgiving Day and Christmas Day.</u>
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

Paragraph Number	Term	Definition
		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.
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.

Paragraph Number	Term	Definition
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 <u>for the Owner</u> .
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 or Resident Project Representative (RPR) to be necessary to complete the work within the intended scope of the contract as previously modified.
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	<p>a. Contract Force Account - A method of payment that addresses extra work performed by the Contractor on a time and material basis.</p> <p>b. Owner Force Account - Work performed for the project by the Owner's employees.</p>
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.

Paragraph Number	Term	Definition
		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 may be pertinent to such specific reference.
10-32	Lighting	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.
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 <u>Broward County</u> .
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

Paragraph Number	Term	Definition
		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.
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 and/or Resident Project Representative (RPR) 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 or RPR. 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

Paragraph Number	Term	Definition
		necessary inspections, observations, tests, 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 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 RPR, 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

Paragraph Number	Term	Definition
		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 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]

Paragraph Number	Term	Definition
		<p>***** ****</p> <p>The Engineer may add and define additional terms, if necessary.</p> <p>On projects that utilize a Construction Manager (CM), a Construction Manager at Risk (CMAR), or a Construction Manager/General Contractor (CMGC), add a definition of their roles on the project. The CM generally acts as an agent of the owner and is not legally or financially responsible for completion of the work; a CMAR and CMGC are legally and financially obligated to complete the work.</p> <p>***** ****</p>

END OF SECTION 10

Sections 20 & 30 – Not Used

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Section 40 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, and incidentals 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 or RPR 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.

~~Applicable federal contract provisions for procurement and contracting under AIP are found on the following website:~~
www.faa.gov/airports/aip/procurement/federal_contract_provisions/

40-03 Omitted items. The Owner, the Owner’s Engineer or the RPR 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 RPR's opinion, is necessary for completion of the extra work.

When determined by the RPR to be in the Owner's best interest, the RPR 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, RPR 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.

~~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.~~

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).

~~Refer to AC 150/5210-5, Painting, Marking and Lighting of Vehicles Used on an Airport and AC 150/5370-2, Operational Safety on Airports During Construction for applicable standards.~~

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 Resident Project Representative (RPR)

shall be notified prior to disturbing such structure. The disposition of existing structures so encountered shall be immediately determined by the RPR 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.

~~The removal of large or complicated existing structures such as box culverts, underground storage tanks, large underground electrical vaults, large reinforced concrete structures or foundations, or similar existing airport facilities should be provided for in separate technical specifications. Contract pay items should also be provided in the contract proposal to cover payment for such 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 RPR 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 RPR; 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 RPR’s approval in advance of such use.

Should the RPR 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 RPR 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.

~~The engineer can modify this section if the Owner does not have rights to the material.~~

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

Section 50 Control of Work

50-01 Authority of the ~~Resident Project Representative (RPR)~~ Engineer. The ~~RPR~~ Engineer has final authority regarding the interpretation of project specification requirements. The ~~RPR~~ 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 ~~RPR~~ 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 ~~RPR~~ 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 ~~RPR~~ Engineer will advise the Owner of their determination that the affected work be accepted and remain in place. The ~~RPR~~ 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 ~~RPR~~ 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 ~~RPR's~~ 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 ~~RPR's~~ 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 ~~RPR's~~ 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 Resident Project Representative (RPR) 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.

~~For Airport Improvement Program (AIP) contracts, the Owner must keep the FAA advised of the Engineer's determinations as to acceptance of work that is not in reasonably close conformity to 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 ~~RPR~~ 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 ~~RPR~~ 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.

50-04 Not Used

50-05 Cooperation of Contractor. The Contractor shall be supplied with ~~five~~ two hard copies or 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 RPR 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 RPR 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/RPR 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. Contractor is responsible for preserving integrity of horizontal and vertical controls established by Engineer/RPR. 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. The Contractor shall establish all necessary horizontal and vertical control, staking and layout of construction work called for on the plans and in accordance with Technical Specification P-104 "Survey and Stakeout". The Engineer and Owner shall not be responsible for such work. The Owner and Engineer reserve the right to check all said lines, grades, and measurements with their appointed surveyor(s). Should the Owner's surveyor(s) detect errors in said lines, grades, and measurements, the Contractor shall pay for all said surveying costs and subsequent surveying costs performed to verify correction of errors found in said lines, grades, and measurements. Included in this are all blue top staking for subgrade and base course installation. Definition of an error shall be 1/4" or more. In the case of a discrepancy between the technical specifications and this defined tolerance, the more stringent tolerance shall govern.~~

~~Prior to the start of construction, the Contractor will check all control points for horizontal and vertical accuracy and certify in writing to the RPR 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 RPR. The Contractor must give copies of survey notes will be provided to the RPR Engineer for each area of construction and for each placement of material as specified to allow the RPR 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 RPR Engineer prior to commencing work items that cover or disturb the survey staking as set by the Contractor's surveyor. Survey(s) and notes shall be provided in the following format(s) specified in Technical Specification P-104.~~

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.

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~~**The Engineer should specify the desired format and accuracy for electronic delivery of survey(s) in addition to hard copy(s). This should be applicable to all survey(s) throughout these specifications.**~~

~~**With FAA approval, additional survey criteria may be added.**~~

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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 RPR 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 RPR 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 RPR 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 RPR 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 RPR 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 RPR 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~~ approved by the RPR Engineer. Work done contrary to the instructions of the RPR Engineer, work done beyond the lines shown on the plans or as established by the RPR 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 RPR Engineer made under the provisions of this subsection, the RPR 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 and deduct the costs incurred by the owner from any monies due or to become due to 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.

~~The Engineer must check to see if the on-site project access roads and haul routes will support the construction equipment. Particular attention should be paid when sections of existing airfield pavements will be used as haul routes to assure that existing pavements are not overloaded. If questionable, the Engineer should add appropriate provisions to preserve or rehabilitate any access roads or haul routes to the bid documents. Various measures such as videotape or photographs may be required to document existing conditions prior to start of construction. Construction traffic should be kept off airport pavements to the extent possible.~~

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 RPR 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 RPR'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 RPR Engineer to make final inspection of that unit. If the RPR Engineer finds upon inspection that the unit has been satisfactorily completed in compliance with the contract, the RPR 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. Partial acceptance of any part of the work shall not constitute acceptance from a warranty standpoint. The warranty for any work completed and accepted shall not begin until the entire project is complete and accepted by the Owner.

50-15 Final acceptance. Upon due notice from the Contractor of presumptive completion of the entire project, the Engineer, RPR 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 RPR 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 RPR 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 RPR Engineer will make the recommendation for 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 RPR 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 RPR 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 RPR 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 RPR 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.

50-17 NOT USED

END OF SECTION 50

Section 60 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 RPR 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.

~~Federal Contract Clauses are available at the following FAA website:
www.faa.gov/airports/aip/procurement/federal-contract-provisions/~~

At the RPR 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 RPR before incorporation in the work unless otherwise designated. Any work in which untested materials are used without approval or written permission of the RPR 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 RPR, 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 RPR Owner. 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 RPR Engineer.

A copy of all Contractor QC test data shall be provided to the RPR 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 RPR showing all test data reports, plus an analysis of all results showing ranges, averages, and corrective action taken on all failing tests.

~~[The Contractor shall employ a Quality Control (QC) testing organization to perform all Contractor required QC tests in accordance with Item C-100 Contractor Quality Control Program (CQCP).]~~

~~The Engineer may wish to include a requirement that all test data from the Contractor be furnished in electronic format. The Engineer shall provide detailed specifications to specify the acceptable format to be used.~~

~~Delete bracketed text when Item C-100 is not included in the specifications.~~

The Owner shall pay for all passing tests. The Contractor shall pay for all failing tests. Charges for failing tests will be deducted from the Contractor's earnings at the end of the project at the time of final payment. The Contractor shall furnish, at his own expense, all necessary specimens for testing of the materials, as required by the Engineer or his authorized representative. The Contractor shall be responsible for notifying the Owner authorized testing laboratory to pick up the test samples. Also, the Engineer reserves the right to test at any location on the project, and at any frequency he deems necessary before, during and after incorporation of all materials into the project to satisfy himself and insure that all materials meet the specified requirements. All materials utilized in the project must meet specification requirements before, during and after incorporation into the project.

60-03 Certification of compliance/analysis (COC/COA). The RPR 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 RPR 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 RPR Engineer shall be the sole judge as to whether the proposed “or equal” is suitable for use in the work.

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

~~When it is impractical to make a clear and accurate description of a technical requirement, Owner may specify a requirement by “Brand Name or approved Equal,” provided the performance features and salient requirements that establish equivalency are explicitly and clearly stated. To avoid unfair influence, provide known vendors / suppliers who can meet the stated requirements.~~

60-04 Plant inspection. The RPR 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 RPR Engineer conduct plant inspections, the following conditions shall exist:

- a. The RPR Engineer shall have the cooperation and assistance of the Contractor and the producer with whom the Contractor has contracted for materials.
- b. The RPR 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 RPR 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 RPR 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 NOT USED

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 RPR. 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 RPR 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 RPR 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 RPR 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 RPR 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, Engineer 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, Engineer, 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 and Engineer 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 as indicated as follows:~~ .

~~List all authorized work and include the following information as a minimum:~~

- ~~• Owner (Utility or Other Facility)~~
- ~~• Location (See Plan Sheet No.)~~
- ~~• Person to Contact (Name, Title, Address and Phone)~~

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 RPR 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 RPR, 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.

~~The intention of this subsection is to provide for both foreseen and unforeseen work by Owners of utility services and other facilities on the airport. Such Owners have legal rights and obligations under some form of easement with the airport Owner. Every effort should be made, during the initial design phase, to coordinate the proposed contract work with such Owners so that their rights and obligations are provided for in the contract, plans, and specifications. Where there is conflict between an existing utility service (or facility) and the proposed work or where the Owner of the utility or facility must perform work to construct, reconstruct, or maintain the utility or facility, such work should be listed in this subsection and provided for in the contract, plans and specifications. In addition, all known utility services or facilities that are within the limits of the proposed work should be shown on the plans (regardless of whether or not there is a conflict of work to be performed by the Owner) with enough detailed information to indicate the lack of conflicts.~~

70-05 NOT USED

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 or RPR. If the Engineer or RPR 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 or RPR reserves the right to assign the task of debris removal to a third party and recover the resulting costs ~~as a liquidated damage against~~ from monies due to 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 on sheet(s) [] of the project plans~~ The CSPP will be included on the project plan and discussed during pre-construction and progress meetings.

The Engineer must add the location of the CSPP.

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/RPR 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.

~~The Engineer shall identify phase/description(s) and provide the following minimum information for each phase/description(s):~~

- ~~• Phase or Description~~
- ~~• Required Date or Sequence of Owner's Beneficial Occupancy~~
- ~~• Work Shown on Plan Sheet~~

~~The Owner's requirements for "phasing" the work should be coordinated with agencies having an interest in operational capability of the airport. Such coordination must be accomplished at the earliest possible time. See AG 150/5370-12, Quality Management for Federally Funded Airport Construction Projects.~~

~~The Engineer should include a section on airport safety in the bid documents that has, as a minimum, the information contained in AC 150/5370-2, Operational Safety on Airports During Construction; the Construction Safety and Phasing Plan (CSPP); and any additional requirements as a result of a Safety Risk Management (SRM) review, if required.~~

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~~ Engineer 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 or RPR, 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 150/5370-2 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 RPR’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.

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~~The Engineer shall list all known services and provide the following minimum information for each service:~~

- ~~• Utility Service or Facility, or FAA Air Traffic Organization (ATO)/ Technical Operations/System Support Center (SSC)~~
- ~~• Person to Contact (Name, Title, Address, and Phone)~~
- ~~• Owner’s Emergency Contact (Phone)~~

~~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.~~

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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 RPR.

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 RPR 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 RPR 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 RPR 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.

70-15.1 FAA facilities and cable runs. The Contractor is hereby advised that the construction limits of the project include existing facilities and buried cable runs that are owned, operated and maintained by the FAA. The Contractor, during the execution of the project work, shall comply with the following:

a. The Contractor shall permit FAA maintenance personnel the right of access to the project work site for purposes of inspecting and maintaining all existing FAA owned facilities.

b. The Contractor shall provide notice to the FAA Air Traffic Organization (ATO)/Technical Operations/System Support Center (SSC) Point-of-Contact through the airport ~~[-Owner]~~ ~~[-operator]~~ ~~[-manager]~~ ~~[-]~~ a minimum of seven (7) calendar days prior to commencement of construction activities in order to permit sufficient time to locate and mark existing buried cables and to schedule any required facility outages.

~~FAA Airports (ARP) will inform the Airport Owner of their requirement to notify the FAA preferably a minimum of 45 days prior to scheduled interruptions and airport projects with the potential to cause significant impacts to the National Airspace System (NAS). This is handled through the Internet Obstruction Evaluation/Airport Airspace Analysis (iOE/AAA) process and the airspace determination letter.~~

c. If execution of the project work requires a facility outage, the Contractor shall notify the Engineer, the RPR and contact the FAA Point-of-Contact a minimum of 72 hours prior to the time of the required outage.

d. Any damage to FAA cables, access roads, or FAA facilities during construction caused by the Contractor's equipment or personnel whether by negligence or accident will require the Contractor to repair or replace the damaged cables, access road, or FAA facilities to FAA requirements. The Contractor shall not bear the cost to repair damage to underground facilities or utilities improperly located by the FAA.

~~Any displaced or relocated FAA facility or cables due to construction will require a signed and executed reimbursable agreement between the Owner and the FAA Tech Ops Division.~~

~~The splicing of cables may not be an acceptable form of repair for certain projects. If any FAA cables are damaged, the Owner shall replace the cables in their entirety.~~

e. If the project work requires the cutting or splicing of FAA owned cables, the FAA Point-of-Contact shall be contacted a minimum of 72 hours prior to the time the cable work commences. The FAA reserves the right to have a FAA representative on site to observe the splicing of the cables as a condition of acceptance. All cable splices are to be accomplished in accordance with FAA specifications and require approval by the FAA Point-of-Contact as a condition of acceptance by the Owner. The Contractor is hereby advised that FAA restricts the location of where splices may be installed. If a cable splice is required in a location that is not permitted by FAA, the Contractor shall furnish and install a sufficient length of new cable that eliminates the need for any splice.

~~The Engineer should include paragraph 70-15.1 when existing FAA owned facilities and/or cable runs are located within the construction limits.~~

There are times during the year when the FAA has a moratorium on construction activities near the FAA airfield facilities and cables. The Contractor shall coordinate with BCAD on each project prior to startup of construction to ensure no such moratoriums are in place during the construction period(s).

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, RPR, 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.

Engineer may add project specific requirements.

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 RPR. The RPR 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*.

~~The contract language suggested in paragraph 70-20 is intended to remind airport Owners that proper planning will prevent construction delays that may be caused when objects of archaeological or historical significance are encountered in the work. Airport Owners should include in their planning the coordination with state and local planning bodies as may be required by state and local laws pertaining to the National Historic Preservation Act of 1966.~~

~~As a general rule, disposition of known archaeological or historic objects that are situated on the site of the work should be covered by a separate contract when such disposition is required as a part of FAA project approval.~~

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70-21 Insurance Requirements. As required by Contract.

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~~Insert local insurance requirements for commercial general and umbrella liability; commercial auto and umbrella liability; worker's compensation; property; and/or other types of coverage required by the project.~~

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Section 80 Execution and Progress

80-01 Subletting of contract. The Owner and Engineer 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 and Resident Project Representative (RPR).

The Contractor shall perform, with his organization, an amount of work equal to at least [25%] percent 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 Engineer should determine the percentage of work to be performed by the prime Contractor on a project basis (typically at least 25%).~~

The Contractor shall provide copies of all subcontracts to the RPR Owner and Engineer, at least 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~~ Status of firm (CBE or non-CBE).

~~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 [] days of the NTP date. The Contractor shall notify the RPR 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.~~

~~Notification time in excess of 24 hours must be justified. Owner may allow limited mobilization to the work site provided such action does not require presence of the RPR and the Contractor assumes all risks associated with a delay to the NTP issuance.~~

See Contract or Work Order requirements.

80-03 Execution and progress. Unless otherwise specified, the Contractor shall submit their coordinated construction schedule showing all work activities for the ~~RPR's~~ Engineer's review and acceptance at least 10 calendar days prior to the start of work. The Contractor's progress schedule, once accepted by the RPR, will represent the Contractor's baseline plan to accomplish the project in accordance with the terms and conditions of the Contract. The RPR 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 ~~RPR's~~ 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 ~~RPR~~ Engineer at least ~~24~~ 48 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.]~~

~~For projects over \$500,000, insert the above bracketed language edited for project specific scheduling requirements.~~

The Contractor shall maintain the work schedule and provide an update and analysis of the progress schedule ~~on a [twice] monthly basis~~ during the progress meeting, 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.

~~In general, it is important that the Owner issue the NTP for Airport Improvement Program (AIP) contracts because any actual construction work, performed prior to the execution of a grant agreement, (between the Owner and the FAA) may be ineligible for FAA participation in its cost. Check with the FAA for exceptions.~~

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 or RPR) at least ~~[48 hours]~~ 7 calendar days prior to commencement of such work. The Contractor shall not close an AOA until so authorized by the Engineer or RPR 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:~~

[]

~~The Engineer shall identify areas of the AOA that cannot be closed to operating aircraft to permit the Contractor's operations on a continuous basis. As a minimum, the following information is required for each area:~~

- ~~• AOA~~
- ~~• Time periods AOA can be closed~~
- ~~• Type of communication(s) required when working in an AOA~~
- ~~• Control authority including driver training and/or safety training~~

~~It is intended that the contract provisions which limit the Contractor's operations be specified for all AOA of the airport that are not intended to be closed to permit continuous construction operations. These contract provisions vary widely from airport to airport and require careful coordination (during the early stages of designing the work) with the Owner, FAA, and the users of the airport. Advisory circular (AC) 150/5370-12, [Quality Management for Federally Funded Airport Construction Projects](#), contains additional information on this subject.~~

~~The Engineer should include a section on airport safety in the bid documents that has, as a minimum, the information contained in AC 150/5370-2, Operational Safety on Airports During Construction; the Construction Safety and Phasing Plan (CSPP); and any additional requirements as a result of a Safety Risk Management (SRM) review, if required.~~

The Contractor shall be required to conform to safety standards contained in AC 150/5370-2, Operational Safety on Airports During Construction, latest version 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 150/5370-2, 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 or Engineer. The necessary coordination actions to review Contractor proposed modifications to an approved CSPP or approved SPCD can require a significant amount of time.

~~The Owner must coordinate any changes to the CSPP with the FAA.~~

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 and/or RPR, does not perform his work in a proper and skillful manner or is intemperate or disorderly shall, at the written request of the ~~RPR~~ 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 ~~RPR~~ 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 ~~RPR~~ 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 RPR 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 RPR 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 RPR 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 RPR 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 suspend work to the effective date of the written order to resume the work. Claims for such compensation shall be filed with the RPR within the time period stated in the RPR's order to resume work. The Contractor shall submit with their own claim information substantiating the amount shown on the claim. The RPR 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] [the number of working days] [completion date] shall be stated in the proposal and contract and shall be known as the Contract Time.~~ The number of calendar days for completion of a Work Order shall be stated in the proposal and approved Work Order. If the Work Order contract time

requires extension for reasons beyond the Contractor's control, it shall be adjusted as follows: approved by the Engineer after discussion with the Contractor.

80-07.1 – NOT USED

80-08 Failure to complete on time. For each calendar day ~~or working day~~, as specified in the ~~contract~~ Work Order, 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~~ Work Order.

Schedule	Liquidated Damages Cost	Allowed Construction Time

~~The Engineer should list the liquidated damages cost and allowed construction time in the proposal form or other appropriate contract document to clarify when more than one schedule of work is bid, or in the event all schedules bid cannot be awarded. If LD's are listed elsewhere in the contract, provide the cross-reference link.~~

~~The amount of the liquidated damages should not be unreasonable, excessive, or punitive. Liquidated damages must reflect a reasonable estimate of the actual costs which will be incurred by the Owner and users of the airport and must not be punitive. An excessive value for liquidated damages may not be enforceable.~~

The maximum construction time allowed for Schedules [] will be the sum of the time allowed for individual schedules but not more than [] 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.

~~The Engineer shall modify this paragraph for each project.~~

~~The contract time is an essential part of each contract for construction on airports and should be considered carefully in the preparation of plans and specifications.~~

~~In selecting the method of specifying the contract time (working days, calendar days, or a specified completion date), the primary consideration should be the impact on the operations of the airport should the Contractor be unable to complete the work within the time specified. These considerations should be coordinated with the airport users as indicated in AC 150/5370-12, Quality Management for Federally Funded Airport Construction Projects.~~

~~The amount of liquidated damages to be specified should be tailored to each contract and should be based on the cost per day incurred by the Owner should the Contractor overrun the contract time. For large airports (where the impact on airport operations may be great), it is not practical for the Owner to attempt to recover all loss of revenue through liquidated damages. Consequently, the amount of liquidated damages specified must be balanced somewhere between the cost per day incurred for a time overrun and the cost that bidders would have to add to their bids to cover the contingency of a time overrun.~~

~~Generally speaking, contract time is based on working days when completion is not critical to operation of the airport. As the impact on airport operations increases, the use of calendar days will give more control. Use of a specified completion date should be used only in cases where the construction operations require long-range rescheduling of airport operations. Also, generally speaking, the amount of liquidated damages would be greater for a calendar day contract than for a working day contract and would be greatest for a specified completion date 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 or Engineer consider the Contractor in default of the contract for any reason above, the Owner or Engineer 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 ~~RPR~~ 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 ~~RPR~~ 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 ~~RPR~~ 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 ~~RPR~~ Owner 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 RPR Engineer, or their authorized representatives, using United States Customary Units of Measurement ~~]; [the International System of Units]~~.

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 (0.8 square meters) 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 RPR 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 RPR Engineer in writing, material specified to be measured by the cubic yard (cubic meter) may be weighed, and such weights will be converted to cubic yards (cubic meters) for payment purposes. Factors for conversion from weight measurement to volume measurement will be determined by the RPR 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 (907 kg) 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 RPR. 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

Term	Description
	daily at such times as the RPR <u>Engineer</u> 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 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 (liter) or ton (kg). When measured by volume, such volumes will be measured at 60°F (16°C) or will be corrected to the volume at 60°F (16°C) 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 (kg) or hundredweight (km).
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

Term	Description
	<p>observation of the RPR 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 (454 grams). The use of spring balances will not be permitted.</p> <p>In the event inspection reveals the scales have been “overweighing” (indicating more than correct weight) they will be immediately adjusted. All materials 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.</p> <p>Beams, dials, platforms, and other scale equipment shall be so arranged that the operator and the RPR can safely and conveniently view them.</p> <p>Scale installations shall have available ten standard 50-pound (2.3 km) weights for testing the weighing equipment or suitable weights and devices for other approved equipment.</p> <p>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.</p>
Rental Equipment	<p>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>.</p>
Pay Quantities	<p>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 <u>RPR Engineer</u>. 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.</p>

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 RPR 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 RPR 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 RPR's 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 RPR'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 RPR'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 RPR and approved 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.

~~The Owner has three options in determining whether retainage will be withheld on the project. The Owner must insert the clauses for the option that applies and delete the clauses for the other two options. Proper use of this language assists with meeting the requirements of 49 CFR 5 26.29.~~

~~*Option 1:* The Owner may decline to hold retainage from prime Contractors and prohibit prime Contractors from holding retainage from subcontractors. Insert this clause if Option 1 is selected:~~

~~a. Retainage will not be withheld on this project. No retainage will be withheld by the Owner from progress payments due the prime Contractor. Retainage by the prime or subcontractors is prohibited, and no retainage will be held by the prime from progress due subcontractors.~~

~~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. 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 project work has been completed to the satisfaction of the RPR, the RPR 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.~~

~~*Option 2:* The Owner may decline to hold retainage from prime Contractors and require a contract clause obligating prime Contractors to make prompt and full payment of any retainage kept by prime Contractor to the subcontractor within 30 days after the subcontractor's work is satisfactorily completed. Insert this clause if Option 2 is selected:~~

~~a. No retainage will be held by the Owner from progress payments due the prime.~~

~~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 project work has been completed to the satisfaction of the RPR, the RPR 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.~~

~~**Option 3:** The Owner may hold retainage from prime Contractors and provide for prompt and regular incremental acceptances of portions of the prime contract, pay retainage to prime Contractors based on these acceptances, and require a contract clause obligating the prime Contractor to pay all retainage owed to the subcontractor for satisfactory completion of the accepted work within 30 days after the Owner's payment to the prime Contractor. If Option 3 is selected, the percent withheld may range from 0% to 10% but in no case may it exceed 10%. When establishing a suitable retainage value that protects the Owner's interests, give consideration that the performance and payment bonds also provide similar protection of Owner interests. Owner may elect to incrementally release retainage if owner is satisfied its interest with completion of the project are protected in an adequate manner. If Option 3 is selected, insert the following clause and specify a suitable value where indicated:~~

~~a. From the total of the amount determined to be payable on a partial payment, [insert amount of retainage, not to exceed 10%] percent 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 RPR 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 RPR, the RPR 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 RPR 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.

~~In some areas, release of liens prior to paying the full amount to the prime Contractor may void the contract. In those areas, revise the previous paragraph as required to meet all state and local regulations.~~

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 RPR Engineer at or on an approved site.

b. The Contractor has furnished the RPR Engineer with acceptable evidence of the quantity and quality of such stored or stockpiled materials.

c. The Contractor has furnished the RPR 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 NOT USED

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 RPR Engineer will prepare the final estimate of the items of work actually performed. The Contractor shall approve the RPR's Engineer's final estimate or advise the RPR 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 RPR 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 RPR Engineer's final estimate. If, after such 30-day period, a dispute still exists, the Contractor may approve the RPR 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 ~~RPR's~~ Engineer's final estimate, and after the ~~RPR's~~ 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. However, this will not relieve the Contractor from corrective items required by the final acceptance of the project work. Light Emitting Diode emitting diode (LED) light fixtures with the exception of obstruction lighting, must be warranted by the manufacturer for a minimum of four (4) years after date of installation inclusive of all electronics.

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.

g. 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.

h. This warranty shall not limit the Owner's rights with respect to latent defects, gross mistakes, or fraud.

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*****~~

~~Notification times in Items e and f may be changed to meet specific project requirements.~~

~~Airport Improvement Program (AIP) will not typically participate in extended warranties beyond one (1) year.~~

~~Note that Engineering Brief (EB) #67, Light Sources Other than Incandescent and Xenon for Airport and Obstruction Lighting Fixtures, requires that all light-emitting diode (LED) light fixtures with the exception of obstruction lighting, (advisory circular (AC) 150/5345-43) must be warranted by the manufacturer for a minimum of four (4) years after date of installation inclusive of all electronics.~~

~~It is recommended the Owner and Engineer perform a warranty inspection with the Contractor approximately three (3) months before the end of the one year warranty period.~~

~~*****
*****~~

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 ~~RPR~~ 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~~ County Business Enterprise (~~DBE~~CBE) 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.
- j. Project Operation and Maintenance (O&M) Manual(s).
- k. Security for Construction Warranty.
- l. Equipment commissioning documentation submitted, if required.

~~Additional items may be added as necessary to address State requirements and specific project requirements. The intent of this section is to withhold final project payment until all necessary paperwork, project work, and cleanup of work/staging areas have been completed.~~

END OF SECTION 90

PART 2 – GENERAL CONSTRUCTION ITEMS

Item C-100 Contractor Quality Control Program (CQCP)

~~It is strongly encouraged that a Contractor Quality Control Program (CQCP) be developed for all projects. All federally funded projects over \$500K dollars where paving is the major work item must have a CQCP. The intent of the CQCP is to ensure that quality of materials and production is monitored to be within acceptance limits and that as soon as materials or production processes vary beyond pre-established limits that the Contractor implements corrective action plans. Rather than waiting to develop the corrective action plan after the problem is identified it is preferable to implement a preapproved plan. In addition, the purpose of the CQCP is to ensure that Contractor Quality Control (CQC) personnel are coordinating with owners Quality Assurance (QA) personnel throughout the project, not just when disputes arise. QA is the Owner's responsibility to assure payment is only for acceptable work.~~

100-1 General. Quality is more than test results. Quality is the combination of proper materials, testing, workmanship, equipment, inspection, and documentation of the project. Establishing and maintaining a culture of quality is key to achieving a quality project. The Contractor shall establish, provide, and maintain an effective Contractor Quality Control Program (CQCP) that details the methods and procedures that will be taken to assure that all materials and completed construction required by this contract conform to contract plans, technical specifications and other requirements, whether manufactured by the Contractor, or procured from subcontractors or vendors. Although guidelines are established and certain minimum requirements are specified here and elsewhere in the contract technical specifications, the Contractor shall assume full responsibility for accomplishing the stated purpose.

The Contractor shall establish a CQCP that will:

- a. Provide qualified personnel to develop and implement the CQCP.
- b. Provide for the production of acceptable quality materials.
- c. Provide sufficient information to assure that the specification requirements can be met.
- d. Document the CQCP process.

The Contractor shall not begin any construction or production of materials to be incorporated into the completed work until the CQCP has been reviewed and approved by the Resident Project

Representative (RPR) Engineer. No partial payment will be made for materials subject to specific quality control (QC) requirements until the CQCP has been reviewed and approved.

The QC requirements contained in this section and elsewhere in the contract technical specifications are in addition to and separate from the quality assurance (QA) testing requirements. QA testing requirements are the responsibility of the RPR Engineer or Contractor as specified in the specifications.

A Quality Control (QC)/Quality Assurance (QA) workshop with the Engineer, Resident Project Representative (RPR), Contractor, subcontractors, testing laboratories, and Owner's representative must be held prior to start of construction. The QC/QA workshop will be facilitated by the Contractor. The Contractor shall coordinate with the Airport and the RPR Engineer on time and location of the QC/QA workshop. Items to be addressed, at a minimum, will include:

- a. Review of the CQCP including submittals, QC Testing, Action & Suspension Limits for Production, Corrective Action Plans, Distribution of QC reports, and Control Charts.
- b. Discussion of the QA program.
- c. Discussion of the QC and QA Organization and authority including coordination and information exchange between QC and QA.
- d. Establish regular meetings to discuss control of materials, methods and testing.
- e. Establishment of the overall QC culture.

For landside projects, the Contractor shall be required to follow FDOT Quality Control requirements and submit the QC Program based on those requirements to the Engineer for his review.

100-2 Description of program.

a. General description. The Contractor shall establish a CQCP to perform QC inspection and testing of all items of work required by the technical specifications, including those performed by subcontractors. The CQCP shall ensure conformance to applicable specifications and plans with respect to materials, off-site fabrication, workmanship, construction, finish, and functional performance. The CQCP shall be effective for control of all construction work performed under this Contract and shall specifically include surveillance and tests required by the technical specifications, in addition to other requirements of this section and any other activities deemed necessary by the Contractor to establish an effective level of QC.

b. Contractor Quality Control Program (CQCP). The Contractor shall describe the CQCP in a written document that shall be reviewed and approved by the RPR prior to the start of any production, construction, or off-site fabrication. The written CQCP shall be submitted to the RPR for review and approval at least [107] calendar days before the CQCP Workshop. The

Contractor’s CQCP and QC testing laboratory must be approved in writing by the ~~RPP~~ Engineer prior to the Notice to Proceed (NTP).

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~~The Engineer should choose an adequate period for review. Submittal of the written CQCP will allow the Engineer to review the contents and make suggestions prior to the CQCP Workshop.~~

~~Submittal of the written CQCP prior to the start of work will allow for detailed discussion of the requirements before the NTP is issued.~~

~~When selecting the required days for the Contractor to submit the CQCP, adequate time should be allowed for the CQCP to be a supplement to the Owner’s Construction Management Plan (CMP).~~

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The CQCP shall be organized to address, as a minimum, the following:

1. QC organization and resumes of key staff
2. Project progress schedule
3. Submittals schedule
4. Inspection requirements
5. QC testing plan
6. Documentation of QC activities and distribution of QC reports
7. Requirements for corrective action when QC and/or QA acceptance criteria are not met
8. Material quality and construction means and methods. Address all elements applicable to the project that affect the quality of the pavement structure including subgrade, subbase, base, and surface course. Some elements that must be addressed include, but is not limited to mix design, aggregate grading, stockpile management, mixing and transporting, placing and finishing, quality control testing and inspection, smoothness, laydown plan, equipment, and temperature management plan.

The Contractor must add any additional elements to the CQCP that is necessary to adequately control all production and/or construction processes required by this contract.

100-3 CQCP organization. The CQCP shall be implemented by the establishment of a QC organization. An organizational chart shall be developed to show all QC personnel, their authority, and how these personnel integrate with other management/production and construction functions and personnel.

The organizational chart shall identify all QC staff by name and function, and shall indicate the total staff required to implement all elements of the CQCP, including inspection and testing for each item of work. If necessary, different technicians can be used for specific inspection and testing functions for different items of work. If an outside organization or independent testing laboratory is used for implementation of all or part of the CQCP, the personnel assigned shall be subject to the qualification requirements of paragraphs 100-03a and 100-03b. The organizational chart shall indicate which personnel are Contractor employees and which are provided by an outside organization.

The QC organization shall, as a minimum, consist of the following personnel:

a. Program Administrator. The Contractor Quality Control Program Administrator (CQCPA) must be a full-time time ~~[on-site]~~ employee of the Contractor, or a consultant engaged by the Contractor. The CQCPA must have a minimum of five (5) years of experience in QC pavement construction with prior QC experience on a project of comparable size and scope as the contract.

Included in the five (5) years of paving/QC experience, the CQCPA must meet at least one of the following requirements:

- (1) Professional Engineer with one (1) year of airport paving experience.
- (2) Engineer-in-training with two (2) years of airport paving experience.
- (3) National Institute for Certification in Engineering Technologies (NICET) Civil Engineering Technology Level IV with three (3) years of airport paving experience.
- (4) An individual with four (4) years of airport paving experience, with a Bachelor of Science Degree in Civil Engineering, Civil Engineering Technology or Construction.

The CQCPA must have full authority to institute any and all actions necessary for the successful implementation of the CQCP to ensure compliance with the contract plans and technical specifications. The CQCPA authority must include the ability to immediately stop production until materials and/or processes are in compliance with contract specifications. The CQCPA must report directly to a principal officer of the construction firm. The CQCPA may supervise the Quality Control Program on more than one project provided that person can be at the job site within two (2) hours after being notified of a problem.

~~If the project is of sufficient scope and size to warrant a full time, on-site CQCPA, modify paragraph 100-03a accordingly.~~

b. QC technicians. A sufficient number of QC technicians necessary to adequately implement the CQCP must be provided. These personnel must be either Engineers, engineering technicians, or experienced craftsman with qualifications in the appropriate field equivalent to NICET Level II in Civil Engineering Technology or higher, and shall have a minimum of two (2) years of experience in their area of expertise.

The QC technicians must report directly to the CQCPA and shall perform the following functions:

(1) Inspection of all materials, construction, plant, and equipment for conformance to the technical specifications, and as required by paragraph 100-6.

(2) Performance of all QC tests as required by the technical specifications and paragraph 100-8.

(3) Performance of tests for the RPR when required by the technical specifications.

Certification at an equivalent level of qualification and experience by a state or nationally recognized organization will be acceptable in lieu of NICET certification.

c. Staffing levels. The Contractor shall provide sufficient qualified QC personnel to monitor each work activity at all times. Where material is being produced in a plant for incorporation into the work, separate plant and field technicians shall be provided at each plant and field placement location. The scheduling and coordinating of all inspection and testing must match the type and pace of work activity. The CQCP shall state where different technicians will be required for different work elements.

100-4 Project progress schedule. Critical QC activities must be shown on the project schedule as required by Section 80, paragraph 80-03, *Execution and Progress*.

100-5 Submittals schedule. The Contractor shall submit a detailed listing of all submittals (for example, mix designs, material certifications) and shop drawings required by the technical specifications. The listing can be developed in a spreadsheet format and shall include as a minimum:

a. Specification item number

b. Item description

- c. Description of submittal
- d. Specification paragraph requiring submittal
- e. Scheduled date of submittal

100-6 Inspection requirements. QC inspection functions shall be organized to provide inspections for all definable features of work, as detailed below. All inspections shall be documented by the Contractor as specified by paragraph 100-9.

Inspections shall be performed as needed to ensure continuing compliance with contract requirements until completion of the particular feature of work. Inspections shall include the following minimum requirements:

a. During plant operation for material production, QC test results and periodic inspections shall be used to ensure the quality of aggregates and other mix components, and to adjust and control mix proportioning to meet the approved mix design and other requirements of the technical specifications. All equipment used in proportioning and mixing shall be inspected to ensure its proper operating condition. The CQCP shall detail how these and other QC functions will be accomplished and used.

b. During field operations, QC test results and periodic inspections shall be used to ensure the quality of all materials and workmanship. All equipment used in placing, finishing, and compacting shall be inspected to ensure its proper operating condition and to ensure that all such operations are in conformance to the technical specifications and are within the plan dimensions, lines, grades, and tolerances specified. The CQCP shall document how these and other QC functions will be accomplished and used.

100-7 Contractor QC testing facility.

a. For projects that include Item P-401, Item P-403, and Item P-404, the Contractor shall ensure facilities, including all necessary equipment, materials, and current reference standards, are provided that meet requirements in the following paragraphs of ASTM D3666, *Standard Specification for Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials*:

- 8.1.3 Equipment Calibration and Checks;
- 8.1.9 Equipment Calibration, Standardization, and Check Records;
- 8.1.12 Test Methods and Procedures

b. For projects that include P-501, the Contractor shall ensure facilities, including all necessary equipment, materials, and current reference standards, are provided that meet requirements in the following paragraphs of ASTM C1077, *Standard Practice for Agencies Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Testing Agency Evaluation*:

- 7 Test Methods and Procedures
- 8 Facilities, Equipment, and Supplemental Procedures

100-8 QC testing plan. As a part of the overall CQCP, the Contractor shall implement a QC testing plan, as required by the technical specifications. The testing plan shall include the minimum tests and test frequencies required by each technical specification Item, as well as any additional QC tests that the Contractor deems necessary to adequately control production and/or construction processes.

The QC testing plan can be developed in a spreadsheet fashion and shall, as a minimum, include the following:

- a. Specification item number (e.g., P-401)
- b. Item description (e.g., Hot Mix Asphalt Pavements)
- c. Test type (e.g., gradation, grade, asphalt content)
- d. Test standard (e.g., ASTM or American Association of State Highway and Transportation Officials (AASHTO) test number, as applicable)
- e. Test frequency (e.g., as required by technical specifications or minimum frequency when requirements are not stated)
- f. Responsibility (e.g., plant technician)
- g. Control requirements (e.g., target, permissible deviations)

The QC testing plan shall contain a statistically-based procedure of random sampling for acquiring test samples in accordance with ASTM D3665. The RPR shall be provided the opportunity to witness QC sampling and testing.

All QC test results shall be documented by the Contractor as required by paragraph 100-9.

100-9 Documentation. The Contractor shall maintain current QC records of all inspections and tests performed. These records shall include factual evidence that the required QC inspections or tests have been performed, including type and number of inspections or tests involved; results of inspections or tests; nature of defects, deviations, causes for rejection, etc.; proposed remedial action; and corrective actions taken.

These records must cover both conforming and defective or deficient features, and must include a statement that all supplies and materials incorporated in the work are in full compliance with the terms of the contract. Legible copies of these records shall be furnished to the RPR daily. The records shall cover all work placed subsequent to the previously furnished records and shall be verified and signed by the CQCPA.

Contractor QC records required for the contract shall include, but are not necessarily limited to, the following records:

a. **Daily inspection reports.** Each Contractor QC technician shall maintain a daily log of all inspections performed for both Contractor and subcontractor operations. These technician's daily reports shall provide factual evidence that continuous QC inspections have been performed and shall, as a minimum, include the following:

- (1) Technical specification item number and description
- (2) Compliance with approved submittals
- (3) Proper storage of materials and equipment
- (4) Proper operation of all equipment
- (5) Adherence to plans and technical specifications
- (6) Summary of any necessary corrective actions
- (7) Safety inspection.
- (8) Photographs and/or video

The daily inspection reports shall identify all QC inspections and QC tests conducted, results of inspections, location and nature of defects found, causes for rejection, and remedial or corrective actions taken or proposed.

The daily inspection reports shall be signed by the responsible QC technician and the CQCPA. The RPR shall be provided at least one copy of each daily inspection report on the work day following the day of record. When QC inspection and test results are recorded and transmitted electronically, the results must be archived.

b. **Daily test reports.** The Contractor shall be responsible for establishing a system that will record all QC test results. Daily test reports shall document the following information:

- (1) Technical specification item number and description
- (2) Test designation
- (3) Location
- (4) Date of test
- (5) Control requirements
- (6) Test results
- (7) Causes for rejection
- (8) Recommended remedial actions
- (9) Retests

Test results from each day's work period shall be submitted to the RPR prior to the start of the next day's work period. When required by the technical specifications, the Contractor shall maintain statistical QC charts. When QC daily test results are recorded and transmitted electronically, the results must be archived.

100-10 Corrective action requirements. The CQCP shall indicate the appropriate action to be taken when a process is deemed, or believed, to be out of control (out of tolerance) and detail what action will be taken to bring the process into control. The requirements for corrective action shall include both general requirements for operation of the CQCP as a whole, and for individual items of work contained in the technical specifications.

The CQCP shall detail how the results of QC inspections and tests will be used for determining the need for corrective action and shall contain clear rules to gauge when a process is out of control and the type of correction to be taken to regain process control.

When applicable or required by the technical specifications, the Contractor shall establish and use statistical QC charts for individual QC tests. The requirements for corrective action shall be linked to the control charts.

100-11 Inspection and/or observations by the RPR Engineer. All items of material and equipment are subject to inspection and/or observation by the RPR Engineer at the point of production, manufacture or shipment to determine if the Contractor, producer, manufacturer or shipper maintains an adequate QC system in conformance with the requirements detailed here and the applicable technical specifications and plans. In addition, all items of materials, equipment and work in place shall be subject to inspection and/or observation by the RPR Engineer at the site for the same purpose.

Inspection and/or observations by the RPR Engineer does not relieve the Contractor of performing QC inspections of either on-site or off-site Contractor's or subcontractor's work.

100-12 Noncompliance.

a. The ~~Resident Project Representative (RPR)~~ Engineer will provide written notice to the Contractor of any noncompliance with their CQCP. After receipt of such notice, the Contractor must take corrective action.

b. When QC activities do not comply with either the CQCP or the contract provisions or when the Contractor fails to properly operate and maintain an effective CQCP, and no effective corrective actions have been taken after notification of non-compliance, the RPR Engineer will recommend the Owner take the following actions:

- (1) Order the Contractor to replace ineffective or unqualified QC personnel or subcontractors and/or
- (2) Order the Contractor to stop operations until appropriate corrective actions are taken.

METHOD OF MEASUREMENT

100-13 Basis of measurement and payment. Not Used

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.

National Institute for Certification in Engineering Technologies (NICET)
ASTM International (ASTM)

ASTM C1077 Standard Practice for Agencies Testing Concrete and Concrete
Aggregates for Use in Construction and Criteria for Testing Agency
Evaluation

ASTM D3665 Standard Practice for Random Sampling of Construction Materials

ASTM D3666 Standard Specification for Minimum Requirements for Agencies
Testing and Inspecting Road and Paving Materials

END OF ITEM C 100

SECTION 105 –NOT USED

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SECTION 110 METHOD OF ESTIMATING PERCENTAGE OF MATERIAL WITHIN SPECIFICATION LIMITS (PWL)

110-1 General. When the specifications provide for acceptance of material based on the method of estimating percentage of material within specification limits (PWL), the PWL will be determined in accordance with this section. All test results for a lot will be analyzed statistically to determine the total estimated percent of the lot that is within specification limits. The PWL is computed using the sample average (\bar{X}) and sample standard deviation (S_n) of the specified number (n) of sublots for the lot and the specification tolerance limits, L for lower and U for upper, for the particular acceptance parameter. From these values, the respective Quality index, Q_L for Lower Quality Index and/or Q_U for Upper Quality Index, is computed and the PWL for the lot for the specified n is determined from Table 1. All specification limits specified in the technical sections shall be absolute values. Test results used in the calculations shall be to the significant figure given in the test procedure.

There is some degree of uncertainty (risk) in the measurement for acceptance because only a small fraction of production material (the population) is sampled and tested. This uncertainty exists because all portions of the production material have the same probability to be randomly sampled. The Contractor's risk is the probability that material produced at the acceptable quality level is rejected or subjected to a pay adjustment. The Owner's risk is the probability that material produced at the rejectable quality level is accepted.

It is the intent of this section to inform the Contractor that, in order to consistently offset the Contractor's risk for material evaluated, production quality (using population average and population standard deviation) must be maintained at the acceptable quality specified or higher. In all cases, it is the responsibility of the Contractor to produce at quality levels that will meet the specified acceptance criteria when sampled and tested at the frequencies specified.

110-2 Method for computing PWL. The computational sequence for computing PWL is as follows:

- a. Divide the lot into n sublots in accordance with the acceptance requirements of the specification.
- b. Locate the random sampling position within the subplot in accordance with the requirements of the specification.
- c. Make a measurement at each location, or take a test portion and make the measurement on the test portion in accordance with the testing requirements of the specification.

d. Find the sample average (X) for all subplot test values within the lot by using the following formula:

$$X = (x_1 + x_2 + x_3 + \dots + x_n) / n$$

Where: X = Sample average of all subplot test values within a lot

x_1, x_2, \dots, x_n = Individual subplot test values

n = Number of subplot test values

e. Find the sample standard deviation (S_n) by use of the following formula:

$$S_n = [(d_1^2 + d_2^2 + d_3^2 + \dots + d_n^2)/(n-1)]^{1/2}$$

Where: S_n = Sample standard deviation of the number of subplot test values in the set

d_1, d_2, \dots, d_n = Deviations of the individual subplot test values x_1, x_2, \dots from the average value X

that is: $d_1 = (x_1 - X), d_2 = (x_2 - X) \dots d_n = (x_n - X)$

n = Number of subplot test values

f. For single sided specification limits (i.e., L only), compute the Lower Quality Index Q_L by use of the following formula:

$$Q_L = (X - L) / S_n$$

Where: L = specification lower tolerance limit

Estimate the percentage of material within limits (PWL) by entering Table 1 with Q_L , using the column appropriate to the total number (n) of measurements. If the value of Q_L falls between values shown on the table, use the next higher value of PWL.

g. For double-sided specification limits (i.e., L and U), compute the Quality Indexes Q_L and Q_U by use of the following formulas:

$$Q_L = (X - L) / S_n$$

and

$$Q_U = (U - X) / S_n$$

Where: L and U = specification lower and upper tolerance limits

Estimate the percentage of material between the lower (L) and upper (U) tolerance limits (PWL) by entering Table 1 separately with Q_L and Q_U , using the column appropriate to the total number (n) of measurements, and determining the percent of material above P_L and percent of material below P_U for each tolerance limit. If the values of Q_L fall between values shown on the table, use the next higher value of P_L or P_U . Determine the PWL by use of the following formula:

$$PWL = (P_U + P_L) - 100$$

Where: P_L = percent within lower specification limit

P_U = percent within upper specification limit

EXAMPLE OF PWL CALCULATION

Project: Example Project

Test Item: Item P-401, Lot A.

A. PWL Determination for Mat Density.

1. Density of four random cores taken from Lot A.

$$A-1 = 96.60$$

$$A-2 = 97.55$$

$$A-3 = 99.30$$

$$A-4 = 98.35$$

$$n = 4$$

2. Calculate average density for the lot.

$$X = (x_1 + x_2 + x_3 + \dots + x_n) / n$$

$$X = (96.60 + 97.55 + 99.30 + 98.35) / 4$$

$$X = 97.95\% \text{ density}$$

3. Calculate the standard deviation for the lot.

$$S_n = [((96.60 - 97.95)^2 + (97.55 - 97.95)^2 + (99.30 - 97.95)^2 + (98.35 - 97.95)^2) / (4 - 1)]^{1/2}$$

$$S_n = [(1.82 + 0.16 + 1.82 + 0.16) / 3]^{1/2}$$

$$S_n = 1.15$$

4. Calculate the Lower Quality Index Q_L for the lot. ($L=96.3$)

$$Q_L = (X - L) / S_n$$

$$Q_L = (97.95 - 96.30) / 1.15$$

$$Q_L = 1.4348$$

5. Determine PWL by entering Table 1 with $Q_L= 1.44$ and $n= 4$.

$$PWL = 98$$

B. PWL Determination for Air Voids.

1. Air Voids of four random samples taken from Lot A.

$$A-1 = 5.00$$

$$A-2 = 3.74$$

$$A-3 = 2.30$$

$$A-4 = 3.25$$

2. Calculate the average air voids for the lot.

$$X = (x_1 + x_2 + x_3 \dots n) / n$$

$$X = (5.00 + 3.74 + 2.30 + 3.25) / 4$$

$$X = 3.57\%$$

3. Calculate the standard deviation S_n for the lot.

$$S_n = [((3.57 - 5.00)^2 + (3.57 - 3.74)^2 + (3.57 - 2.30)^2 + (3.57 - 3.25)^2) / (4 - 1)]^{1/2}$$

$$S_n = [(2.04 + 0.03 + 1.62 + 0.10) / 3]^{1/2}$$

$$S_n = 1.12$$

4. Calculate the Lower Quality Index Q_L for the lot. ($L = 2.0$)

$$Q_L = (X - L) / S_n$$

$$Q_L = (3.57 - 2.00) / 1.12$$

$$Q_L = 1.3992$$

5. Determine P_L by entering Table 1 with $Q_L = 1.41$ and $n = 4$.

$$P_L = 97$$

6. Calculate the Upper Quality Index Q_U for the lot. ($U = 5.0$)

$$Q_U = (U - X) / S_n$$

$$Q_U = (5.00 - 3.57) / 1.12$$

$$Q_U = 1.2702$$

7. Determine P_U by entering Table 1 with $Q_U = 1.29$ and $n = 4$.

$$P_U = 93$$

8. Calculate Air Voids PWL

$$PWL = (P_L + P_U) - 100$$

$$PWL = (97 + 93) - 100 = 90$$

EXAMPLE OF OUTLIER CALCULATION (REFERENCE ASTM E178)

Project: Example Project

Test Item: Item P-401, Lot A.

A. Outlier Determination for Mat Density.

1. Density of four random cores taken from Lot A arranged in descending order.

$$A-3 = 99.30$$

$$A-4 = 98.35$$

$$A-2 = 97.55$$

$$A-1 = 96.60$$

2. From ASTM E178, Table 1, for n=4 an upper 5% significance level, the critical value for test criterion = 1.463.

3. Use average density, standard deviation, and test criterion value to evaluate density measurements.

a. For measurements greater than the average:

If (measurement - average)/(standard deviation) is less than test criterion, then the measurement is not considered an outlier.

For A-3, check if $(99.30 - 97.95) / 1.15$ is greater than 1.463.

Since 1.174 is less than 1.463, the value is not an outlier.

b. For measurements less than the average:

If (average - measurement)/(standard deviation) is less than test criterion, then the measurement is not considered an outlier.

For A-1, check if $(97.95 - 96.60) / 1.15$ is greater than 1.463.

Since 1.435 is less than 1.463, the value is not an outlier.

Note: In this example, a measurement would be considered an outlier if the density were:

Greater than $(97.95 + 1.463 \times 1.15) = 99.63\%$

OR

less than $(97.95 - 1.463 \times 1.15) = 96.27\%$.

Table 1. Table for Estimating Percent of Lot Within Limits (PWL)

Percent Within Limits (P _L and P _U)	Positive Values of Q (Q _L and Q _U)							
	n=3	n=4	n=5	n=6	n=7	n=8	n=9	n=10
99	1.1541	1.4700	1.6714	1.8008	1.8888	1.9520	1.9994	2.0362
98	1.1524	1.4400	1.6016	1.6982	1.7612	1.8053	1.8379	1.8630
97	1.1496	1.4100	1.5427	1.6181	1.6661	1.6993	1.7235	1.7420
96	1.1456	1.3800	1.4897	1.5497	1.5871	1.6127	1.6313	1.6454
95	1.1405	1.3500	1.4407	1.4887	1.5181	1.5381	1.5525	1.5635
94	1.1342	1.3200	1.3946	1.4329	1.4561	1.4717	1.4829	1.4914
93	1.1269	1.2900	1.3508	1.3810	1.3991	1.4112	1.4199	1.4265
92	1.1184	1.2600	1.3088	1.3323	1.3461	1.3554	1.3620	1.3670
91	1.1089	1.2300	1.2683	1.2860	1.2964	1.3032	1.3081	1.3118
90	1.0982	1.2000	1.2290	1.2419	1.2492	1.2541	1.2576	1.2602
89	1.0864	1.1700	1.1909	1.1995	1.2043	1.2075	1.2098	1.2115
88	1.0736	1.1400	1.1537	1.1587	1.1613	1.1630	1.1643	1.1653
87	1.0597	1.1100	1.1173	1.1192	1.1199	1.1204	1.1208	1.1212
86	1.0448	1.0800	1.0817	1.0808	1.0800	1.0794	1.0791	1.0789
85	1.0288	1.0500	1.0467	1.0435	1.0413	1.0399	1.0389	1.0382

Percent Within Limits (P _L and P _U)	Positive Values of Q (Q _L and Q _U)							
	n=3	n=4	n=5	n=6	n=7	n=8	n=9	n=10
84	1.0119	1.0200	1.0124	1.0071	1.0037	1.0015	1.0000	0.9990
83	0.9939	0.9900	0.9785	0.9715	0.9671	0.9643	0.9624	0.9610
82	0.9749	0.9600	0.9452	0.9367	0.9315	0.9281	0.9258	0.9241
81	0.9550	0.9300	0.9123	0.9025	0.8966	0.8928	0.8901	0.8882
80	0.9342	0.9000	0.8799	0.8690	0.8625	0.8583	0.8554	0.8533
79	0.9124	0.8700	0.8478	0.8360	0.8291	0.8245	0.8214	0.8192
78	0.8897	0.8400	0.8160	0.8036	0.7962	0.7915	0.7882	0.7858
77	0.8662	0.8100	0.7846	0.7716	0.7640	0.7590	0.7556	0.7531
76	0.8417	0.7800	0.7535	0.7401	0.7322	0.7271	0.7236	0.7211
75	0.8165	0.7500	0.7226	0.7089	0.7009	0.6958	0.6922	0.6896
74	0.7904	0.7200	0.6921	0.6781	0.6701	0.6649	0.6613	0.6587
73	0.7636	0.6900	0.6617	0.6477	0.6396	0.6344	0.6308	0.6282
72	0.7360	0.6600	0.6316	0.6176	0.6095	0.6044	0.6008	0.5982
71	0.7077	0.6300	0.6016	0.5878	0.5798	0.5747	0.5712	0.5686
70	0.6787	0.6000	0.5719	0.5582	0.5504	0.5454	0.5419	0.5394
69	0.6490	0.5700	0.5423	0.5290	0.5213	0.5164	0.5130	0.5105
68	0.6187	0.5400	0.5129	0.4999	0.4924	0.4877	0.4844	0.4820
67	0.5878	0.5100	0.4836	0.4710	0.4638	0.4592	0.4560	0.4537
66	0.5563	0.4800	0.4545	0.4424	0.4355	0.4310	0.4280	0.4257
65	0.5242	0.4500	0.4255	0.4139	0.4073	0.4030	0.4001	0.3980
64	0.4916	0.4200	0.3967	0.3856	0.3793	0.3753	0.3725	0.3705
63	0.4586	0.3900	0.3679	0.3575	0.3515	0.3477	0.3451	0.3432
62	0.4251	0.3600	0.3392	0.3295	0.3239	0.3203	0.3179	0.3161
61	0.3911	0.3300	0.3107	0.3016	0.2964	0.2931	0.2908	0.2892
60	0.3568	0.3000	0.2822	0.2738	0.2691	0.2660	0.2639	0.2624
59	0.3222	0.2700	0.2537	0.2461	0.2418	0.2391	0.2372	0.2358
58	0.2872	0.2400	0.2254	0.2186	0.2147	0.2122	0.2105	0.2093
57	0.2519	0.2100	0.1971	0.1911	0.1877	0.1855	0.1840	0.1829
56	0.2164	0.1800	0.1688	0.1636	0.1607	0.1588	0.1575	0.1566
55	0.1806	0.1500	0.1406	0.1363	0.1338	0.1322	0.1312	0.1304
54	0.1447	0.1200	0.1125	0.1090	0.1070	0.1057	0.1049	0.1042
53	0.1087	0.0900	0.0843	0.0817	0.0802	0.0793	0.0786	0.0781
52	0.0725	0.0600	0.0562	0.0544	0.0534	0.0528	0.0524	0.0521
51	0.0363	0.0300	0.0281	0.0272	0.0267	0.0264	0.0262	0.0260
50	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Percent Within Limits (P _L and P _U)	Negative Values of Q (Q _L and Q _U)							
	n=3	n=4	n=5	n=6	n=7	n=8	n=9	n=10
49	-0.0363	- 0.0300	- 0.0281	- 0.0272	- 0.0267	- 0.0264	- 0.0262	- 0.0260
48	-0.0725	- 0.0600	- 0.0562	- 0.0544	- 0.0534	- 0.0528	- 0.0524	- 0.0521
47	-0.1087	- 0.0900	- 0.0843	- 0.0817	- 0.0802	- 0.0793	- 0.0786	- 0.0781
46	-0.1447	- 0.1200	- 0.1125	- 0.1090	- 0.1070	- 0.1057	- 0.1049	- 0.1042
45	-0.1806	- 0.1500	- 0.1406	- 0.1363	- 0.1338	- 0.1322	- 0.1312	- 0.1304
44	-0.2164	- 0.1800	- 0.1688	- 0.1636	- 0.1607	- 0.1588	- 0.1575	- 0.1566
43	-0.2519	- 0.2100	- 0.1971	- 0.1911	- 0.1877	- 0.1855	- 0.1840	- 0.1829
42	-0.2872	- 0.2400	- 0.2254	- 0.2186	- 0.2147	- 0.2122	- 0.2105	- 0.2093
41	-0.3222	- 0.2700	- 0.2537	- 0.2461	- 0.2418	- 0.2391	- 0.2372	- 0.2358
40	-0.3568	- 0.3000	- 0.2822	- 0.2738	- 0.2691	- 0.2660	- 0.2639	- 0.2624
39	-0.3911	- 0.3300	- 0.3107	- 0.3016	- 0.2964	- 0.2931	- 0.2908	- 0.2892
38	-0.4251	- 0.3600	- 0.3392	- 0.3295	- 0.3239	- 0.3203	- 0.3179	- 0.3161
37	-0.4586	- 0.3900	- 0.3679	- 0.3575	- 0.3515	- 0.3477	- 0.3451	- 0.3432
36	-0.4916	- 0.4200	- 0.3967	- 0.3856	- 0.3793	- 0.3753	- 0.3725	- 0.3705
35	-0.5242	- 0.4500	- 0.4255	- 0.4139	- 0.4073	- 0.4030	- 0.4001	- 0.3980
34	-0.5563	- 0.4800	- 0.4545	- 0.4424	- 0.4355	- 0.4310	- 0.4280	- 0.4257
33	-0.5878	- 0.5100	- 0.4836	- 0.4710	- 0.4638	- 0.4592	- 0.4560	- 0.4537
32	-0.6187	- 0.5400	- 0.5129	- 0.4999	- 0.4924	- 0.4877	- 0.4844	- 0.4820
31	-0.6490	- 0.5700	- 0.5423	- 0.5290	- 0.5213	- 0.5164	- 0.5130	- 0.5105

Percent Within Limits (P _L and P _U)	Negative Values of Q (Q _L and Q _U)							
	n=3	n=4	n=5	n=6	n=7	n=8	n=9	n=10
30	-0.6787	- 0.6000	- 0.5719	- 0.5582	- 0.5504	- 0.5454	- 0.5419	- 0.5394
29	-0.7077	- 0.6300	- 0.6016	- 0.5878	- 0.5798	- 0.5747	- 0.5712	- 0.5686
28	-0.7360	- 0.6600	- 0.6316	- 0.6176	- 0.6095	- 0.6044	- 0.6008	- 0.5982
27	-0.7636	- 0.6900	- 0.6617	- 0.6477	- 0.6396	- 0.6344	- 0.6308	- 0.6282
26	-0.7904	- 0.7200	- 0.6921	- 0.6781	- 0.6701	- 0.6649	- 0.6613	- 0.6587
25	-0.8165	- 0.7500	- 0.7226	- 0.7089	- 0.7009	- 0.6958	- 0.6922	- 0.6896
24	-0.8417	- 0.7800	- 0.7535	- 0.7401	- 0.7322	- 0.7271	- 0.7236	- 0.7211
23	-0.8662	- 0.8100	- 0.7846	- 0.7716	- 0.7640	- 0.7590	- 0.7556	- 0.7531
22	-0.8897	- 0.8400	- 0.8160	- 0.8036	- 0.7962	- 0.7915	- 0.7882	- 0.7858
21	-0.9124	- 0.8700	- 0.8478	- 0.8360	- 0.8291	- 0.8245	- 0.8214	- 0.8192
20	-0.9342	- 0.9000	- 0.8799	- 0.8690	- 0.8625	- 0.8583	- 0.8554	- 0.8533
19	-0.9550	- 0.9300	- 0.9123	- 0.9025	- 0.8966	- 0.8928	- 0.8901	- 0.8882
18	-0.9749	- 0.9600	- 0.9452	- 0.9367	- 0.9315	- 0.9281	- 0.9258	- 0.9241
17	-0.9939	- 0.9900	- 0.9785	- 0.9715	- 0.9671	- 0.9643	- 0.9624	- 0.9610
16	-1.0119	- 1.0200	- 1.0124	- 1.0071	- 1.0037	- 1.0015	- 1.0000	- 0.9990
15	-1.0288	- 1.0500	- 1.0467	- 1.0435	- 1.0413	- 1.0399	- 1.0389	- 1.0382
14	-1.0448	- 1.0800	- 1.0817	- 1.0808	- 1.0800	- 1.0794	- 1.0791	- 1.0789
13	-1.0597	- 1.1100	- 1.1173	- 1.1192	- 1.1199	- 1.1204	- 1.1208	- 1.1212
12	-1.0736	- 1.1400	- 1.1537	- 1.1587	- 1.1613	- 1.1630	- 1.1643	- 1.1653

Percent Within Limits (P_L and P_U)	Negative Values of Q (Q_L and Q_U)							
	n=3	n=4	n=5	n=6	n=7	n=8	n=9	n=10
11	-1.0864	- 1.1700	- 1.1909	- 1.1995	- 1.2043	- 1.2075	- 1.2098	- 1.2115
10	-1.0982	- 1.2000	- 1.2290	- 1.2419	- 1.2492	- 1.2541	- 1.2576	- 1.2602
9	-1.1089	- 1.2300	- 1.2683	- 1.2860	- 1.2964	- 1.3032	- 1.3081	- 1.3118
8	-1.1184	- 1.2600	- 1.3088	- 1.3323	- 1.3461	- 1.3554	- 1.3620	- 1.3670
7	-1.1269	- 1.2900	- 1.3508	- 1.3810	- 1.3991	- 1.4112	- 1.4199	- 1.4265
6	-1.1342	- 1.3200	- 1.3946	- 1.4329	- 1.4561	- 1.4717	- 1.4829	- 1.4914
5	-1.1405	- 1.3500	- 1.4407	- 1.4887	- 1.5181	- 1.5381	- 1.5525	- 1.5635
4	-1.1456	- 1.3800	- 1.4897	- 1.5497	- 1.5871	- 1.6127	- 1.6313	- 1.6454
3	-1.1496	- 1.4100	- 1.5427	- 1.6181	- 1.6661	- 1.6993	- 1.7235	- 1.7420
2	-1.1524	- 1.4400	- 1.6016	- 1.6982	- 1.7612	- 1.8053	- 1.8379	- 1.8630
1	-1.1541	- 1.4700	- 1.6714	- 1.8008	- 1.8888	- 1.9520	- 1.9994	- 2.0362

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 E178 Standard Practice for Dealing with Outlying Observations

END OF SECTION 110

EXHIBIT F – BID TABULATION

Bid Tabulation

Bid No. PNC2124877C1
Annual Civil Repairs and Maintenance at FLL
 Agency: Aviation Department
 Agent: Lashonne Williams-Canty

Date Bid Posted: 9/22/2022
 Date Bid Opened: 10/26/22
 Bid Submittals: 1
 Declinations: 2



Tabulation of Bids				General Asphalt Co., Inc. 4850 N.W. 72 Avenue Miami, FL 33166	
Item	Commodity Code Description	Qty	Unit	Unit Price	Total Price
PNC2124877C1-01-01	G-100-4.1 Mobilization 7 Calendar day Notice (Not to Exceed \$4000)	20	lump sum	\$ 4,000.00	\$ 80,000.00
PNC2124877C1-01-02	G-100-4.2 Mobilization Emergency 4 Hour Notice (Not to Exceed \$8000)	4	lump sum	\$ 8,000.00	\$ 32,000.00
PNC2124877C1-01-03	G-100-4.3 Premium Time (Plant Production)(Not to Exceed \$2000)	10	each	\$ 2,000.00	\$ 20,000.00
PNC2124877C1-01-04	G-100-4.4 Premium Time (On-Site Support)(Not to Exceed \$2000)	20	each	\$ 2,000.00	\$ 40,000.00
PNC2124877C1-01-05	G-100-4.5.1 Type I (Landside) Barricade	400	day	\$ 1.00	\$ 400.00
PNC2124877C1-01-06	G-100-4.5.2 Type II (Landside) Barricade	300	day	\$ 1.00	\$ 300.00
PNC2124877C1-01-07	G-100-4.5.3 Type III (Landside) Barricade	200	day	\$ 1.00	\$ 200.00
PNC2124877C1-01-08	G-100-4.5.4 Type Drum (Landside) Barricade	450	day	\$ 20.00	\$ 9,000.00
PNC2124877C1-01-09	G-100-4.5.5 Low Profile (Airsde) Barricade	12000	day	\$ 5.00	\$ 60,000.00
PNC2124877C1-01-10	G-100-4.6 Temporary Edge Lights	40	day	\$ 3,576.00	\$ 143,040.00
PNC2124877C1-01-11	G-100-4.7 Flag Person	1100	hour	\$ 35.00	\$ 38,500.00
PNC2124877C1-01-12	G-100-4.8 Escort Vehicle (Not to Exceed \$500)	450	day	\$ 500.00	\$ 225,000.00
PNC2124877C1-01-13	P-105-5.1 Vacuum Truck Active Use	250	day	\$ 1,380.00	\$ 345,000.00
PNC2124877C1-01-14	P-105-5.2 10 Inch Diesel Self Priming Silent Pump (see Description)	15	day	\$ 575.00	\$ 8,625.00
PNC2124877C1-01-15	P-105-5.3 10 Inch Diameter Water Pump Discharge Hose (see Description)	100	day	\$ 575.00	\$ 57,500.00
PNC2124877C1-01-16	P-107-4.1 Portland Cement Concrete Pavement Demolition (Up to 17 Inches Thick)	2000	square yard	\$ 118.80	\$ 237,600.00
PNC2124877C1-01-17	P-107-4.2 Bituminous Concrete Pavement Demolition (Up to 12 Inches Thick)	1000	square yard	\$ 78.00	\$ 78,000.00
PNC2124877C1-01-18	P-108-5.1 Bituminous Concrete Pavement Milling (Less than 3 Inches)	2000	square yard	\$ 20.00	\$ 40,000.00
PNC2124877C1-01-19	P-108-5.2 Bituminous Concrete Pavement Milling (see Description)	2000	square yard	\$ 20.00	\$ 40,000.00
PNC2124877C1-01-20	P-108-5.3 Portland Cement Concrete Pavement Milling (Less than 3 Inches)	2000	square yard	\$ 20.00	\$ 40,000.00
PNC2124877C1-01-21	P-108-5.4 Portland Cement Concrete Pavement Milling (see Description)	2000	square yard	\$ 27.00	\$ 54,000.00
PNC2124877C1-01-22	P-108-5.5 Pavement Milling with Hand Milling Machine (0 Inches to 3 Inches)	1000	square yard	\$ 30.00	\$ 30,000.00
PNC2124877C1-01-23	P-151-4.1 Clearing	5	acre	\$ 7,200.00	\$ 36,000.00
PNC2124877C1-01-24	P-151-4.2 Clearing and Grubbing	20	acre	\$ 7,200.00	\$ 144,000.00
PNC2124877C1-01-25	P-151-4.3 Clearing Isolated Trees: Up to 2.5 Foot Butt Diameter	75	each	\$ 360.00	\$ 27,000.00
PNC2124877C1-01-26	P-151-4.4 Clearing Isolated Trees (see Description)	75	each	\$ 360.00	\$ 27,000.00

Bid Tabulation

Bid No. PNC2124877C1
Annual Civil Repairs and Maintenance at FLL
 Agency: Aviation Department
 Agent: Lashonne Williams-Canty

Date Bid Posted: 9/22/2022
 Date Bid Opened: 10/26/22
 Bid Submittals: 1
 Declinations: 2



Tabulation of Bids				General Asphalt Co., Inc. 4850 N.W. 72 Avenue Miami, FL 33166	
Item	Commodity Code Description	Qty	Unit	Unit Price	Total Price
PNC2124877C1-01-27	P-151-4.5 Clearing Isolated Trees (see Description)	50	each	\$ 720.00	\$ 36,000.00
PNC2124877C1-01-28	P-152-4.1 Unclassified Excavation	4000	cubic yard	\$ 48.00	\$ 192,000.00
PNC2124877C1-01-29	P-152-4.5 Borrow Excavation	4000	cubic yard	\$ 48.00	\$ 192,000.00
PNC2124877C1-01-30	P-152-4.8 12 Inch Compacted Subgrade (LBR 40)	2000	square yard	\$ 24.00	\$ 48,000.00
PNC2124877C1-01-31	P-152-4.9 Subgrade Compaction (Full Strength Pavement)	2000	square yard	\$ 24.00	\$ 48,000.00
PNC2124877C1-01-32	P-152-4.10 Grading (Huber Maintainer or Equal)	60	hour	\$ 168.00	\$ 10,080.00
PNC2124877C1-01-33	P-152-4.11 Grading (CAT 12G Grader or Equal)	60	hour	\$ 168.00	\$ 10,080.00
PNC2124877C1-01-34	P-152-4.12 Grading (Tandem Dump Truck 18 CY)	60	hour	\$ 168.00	\$ 10,080.00
PNC2124877C1-01-35	P-152-4.13 Grading (Front End Loader)	80	hour	\$ 168.00	\$ 13,440.00
PNC2124877C1-01-36	P-156-5.1b Temporary Slope Drains	250	linear foot	\$ 24.00	\$ 6,000.00
PNC2124877C1-01-37	P-156-5.1c Temporary Benches Dikes Dams and Sediment Basins	500	cubic yard	\$ 24.00	\$ 12,000.00
PNC2124877C1-01-38	P-156-5.1e Installation and Removal of Silt Fence	5500	linear foot	\$ 6.00	\$ 33,000.00
PNC2124877C1-01-39	P-156-5.1f Inlet and Outlet Protection	50	each	\$ 240.00	\$ 12,000.00
PNC2124877C1-01-40	P-156-5.1g Soil Stabilization Mat	100	square yard	\$ 24.00	\$ 2,400.00
PNC2124877C1-01-41	P-156-5.1h Turbidity Curtain	200	linear foot	\$ 48.00	\$ 9,600.00
PNC2124877C1-01-42	F-162-5.1 8 Foot Chain Link Fence w/3 Wire Climb Barrier	500	linear foot	\$ 81.00	\$ 40,500.00
PNC2124877C1-01-43	F-162-5.2 6 Foot Chain Link Fence w/3 Wire Climb Barrier	500	linear foot	\$ 47.00	\$ 23,500.00
PNC2124877C1-01-44	F-162-5.3 6 Foot Vinyl Coated Chain Link Fence w/3 Wire Climb Barrier	500	linear foot	\$ 44.00	\$ 22,000.00
PNC2124877C1-01-45	F-162-5.4 Electronic Driveway Gate 24 Feet w/3 Wire Climb Barrier & Chain Driven	2	each	\$ 11,400.00	\$ 22,800.00
PNC2124877C1-01-46	F-162-5.5 Walkway Gate 3 Foot w/3 Wire Climb Barrier	2	each	\$ 6,000.00	\$ 12,000.00
PNC2124877C1-01-47	F-162-5.6 Additional VBar with 3 Wire Climb Barrier	500	linear foot	\$ 18.00	\$ 9,000.00
PNC2124877C1-01-48	T-904-5.1 Sodding	5000	square yard	\$ 18.00	\$ 90,000.00
PNC2124877C1-01-49	T-905-5.1 Topsoiling (2 Inch Depth)	2000	square yard	\$ 24.00	\$ 48,000.00
PNC2124877C1-01-50	L-112-5.1 Directional Bore Pipe (4 Inch Diameter) Complete In Place	100	linear foot	\$ 270.00	\$ 27,000.00
PNC2124877C1-01-51	L-112-5.2 Directional Bore Pipe (6 Inch Diameter) Complete In Place	100	linear foot	\$ 354.00	\$ 35,400.00
PNC2124877C1-01-52	02713-4.1 Fire Hydrant Assembly Including Check Valve	4	each	\$ 9,600.00	\$ 38,400.00

Bid Tabulation

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Tabulation of Bids				General Asphalt Co., Inc. 4850 N.W. 72 Avenue Miami, FL 33166	
Item	Commodity Code Description	Qty	Unit	Unit Price	Total Price
PNC2124877C1--01-53	02713-4.2 6-Inch PVC (C900) Water Main (Includes Restraints as Needed)	500	linear foot	\$ 144.00	\$ 72,000.00
PNC2124877C1--01-54	02713-4.3 6-Inch Gate Valve	4	each	\$ 2,400.00	\$ 9,600.00
PNC2124877C1--01-55	02713-4.4 6-Inch by 8-Inch PVC Reducer	4	each	\$ 600.00	\$ 2,400.00
PNC2124877C1--01-56	02713-4.5 6-Inch PVC Bend	4	each	\$ 600.00	\$ 2,400.00
PNC2124877C1--01-57	02713-4.6 6-Inch by 6-Inch Tapping Sleeve and Tapping Valve	4	each	\$ 3,600.00	\$ 14,400.00
PNC2124877C1--01-58	02713-4.7 Bollard	10	each	\$ 240.00	\$ 2,400.00
PNC2124877C1--01-59	015639-1 Tree Protection in Place	500	linear foot	\$ 5.00	\$ 2,500.00
PNC2124877C1--01-60	P-153-6.1 Controlled Low Strength Material (CLSM)	50	cubic yard	\$ 420.00	\$ 21,000.00
PNC2124877C1--01-61	P-154-5.1 Stabilized Subbase Course (6 Inches)	1000	square yard	\$ 24.00	\$ 24,000.00
PNC2124877C1--01-62	P-211-5.1 Airside Removal and Replacement of Limerock Base Course (Primed)	500	cubic yard	\$ 72.00	\$ 36,000.00
PNC2124877C1--01-63	P-211-5.2 New Airside Limerock Base Course 4 Inch (Primed)	1000	square yard	\$ 48.00	\$ 48,000.00
PNC2124877C1--01-64	P-211-5.3 New Airside Limerock Base Course 6 Inch (Primed)	1000	square yard	\$ 48.00	\$ 48,000.00
PNC2124877C1--01-65	P-211-5.4 Remove and Replace Existing Airside Base Course (see Description)	500	square yard	\$ 96.00	\$ 48,000.00
PNC2124877C1--01-66	P-211-5.5 Rework Existing Airside Limerock Base (Primed)	2000	square yard	\$ 12.00	\$ 24,000.00
PNC2124877C1--01-67	P-211-5.6 Remove Existing Airside Limerock Base	750	cubic yard	\$ 36.00	\$ 27,000.00
PNC2124877C1--01-68	P-306-8.1 Lean Concrete Base Course (6-Inch Thickness)	1000	square yard	\$ 99.00	\$ 99,000.00
PNC2124877C1--01-69	P-401-8.1 Airside Asphalt Bituminous Surface Course (see Description)	120	ton	\$ 700.00	\$ 84,000.00
PNC2124877C1--01-70	P-401-8.2 Airside Asphalt Bituminous Surface Course (see Description)	800	ton	\$ 300.00	\$ 240,000.00
PNC2124877C1--01-71	P-401-8.3 Airside Asphalt Bituminous Surface Course (see Description)	1750	ton	\$ 175.00	\$ 306,250.00
PNC2124877C1--01-72	P-401-8.4 Airside Full-Depth Asphalt Patching (see Description)	250	ton	\$ 445.00	\$ 111,250.00
PNC2124877C1--01-73	P-501-8.1 Concrete Pavement removed and Replaced (see Description)	100	square yard	\$ 402.00	\$ 40,200.00
PNC2124877C1--01-74	P-501-8.2 14 Inch Thick Portland Cement Concrete Pavement	1000	square yard	\$ 288.00	\$ 288,000.00
PNC2124877C1--01-75	P-501-8.3 17 Inch Thick Portland Cement Concrete Pavement	1000	square yard	\$ 312.00	\$ 312,000.00
PNC2124877C1--01-76	P-501-8.4 Portland Cement Concrete Pavement (see Description)	500	square yard	\$ 318.00	\$ 159,000.00
PNC2124877C1--01-77	P-602-5.1 Bituminous Prime Coat	500	gallon	\$ 20.00	\$ 10,000.00
PNC2124877C1--01-78	P-605-5.1 Clean Route and Seal 1/8 Inch to 1/4 Inch (see Description)	1000	linear foot	\$ 9.00	\$ 9,000.00

Bid Tabulation

Bid No. PNC2124877C1
Annual Civil Repairs and Maintenance at FLL
 Agency: Aviation Department
 Agent: Lashonne Williams-Canty

Date Bid Posted: 9/22/2022
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Tabulation of Bids				General Asphalt Co., Inc. 4850 N.W. 72 Avenue Miami, FL 33166	
Item	Commodity Code Description	Qty	Unit	Unit Price	Total Price
PNC2124877C1--01-79	P-605-5.2 Clean Route and Seal 3/8 Inch to 1/2 Inch (see Description)	1000	linear foot	\$ 9.00	\$ 9,000.00
PNC2124877C1--01-80	P-605-5.3 Clean Route and Seal 5/8 Inch to 1 Inch (see Description)	1000	linear foot	\$ 10.00	\$ 10,000.00
PNC2124877C1--01-81	P-605-5.4 Clean Route and Reseal Joints (see Description)	12500	linear foot	\$ 9.00	\$ 112,500.00
PNC2124877C1--01-82	P-605-5.5 Clean Route and Reseal Joints (see Description)	55000	linear foot	\$ 9.75	\$ 536,250.00
PNC2124877C1--01-83	P-605-5.6 Clean Route and Reseal Joints (see Description)	500	linear foot	\$ 10.00	\$ 5,000.00
PNC2124877C1--01-84	P-605-5.7 Clean Route and Reseal Joints in Existing Concrete (see Description)	500	linear foot	\$ 11.00	\$ 5,500.00
PNC2124877C1--01-85	P-605-5.8 Clean Route and Reseal Joints in Existing Concrete (see Description)	500	linear foot	\$ 15.00	\$ 7,500.00
PNC2124877C1--01-86	P-607-5.1 Partial Depth Patch Spall Repair	100	cubic foot	\$ 220.00	\$ 22,000.00
PNC2124877C1--01-87	P-607-5.2 Partial Depth Core Patch	100	cubic foot	\$ 140.00	\$ 14,000.00
PNC2124877C1--01-88	P-608-8.1 Asphalt Surface Treatment (Dilution one to one)	500	square yard	\$ 12.00	\$ 6,000.00
PNC2124877C1--01-89	P-608-8.1a Asphalt Surface Treatment (Dilution two to one)	500	square yard	\$ 12.00	\$ 6,000.00
PNC2124877C1--01-90	P-610-5.1 Miscellaneous & Structural Portland Cement Concrete	250	cubic yard	\$ 540.00	\$ 135,000.00
PNC2124877C1--01-91	P-610-5.2 Steel Reinforcement Complete In Place	500	pound	\$ 8.00	\$ 4,000.00
PNC2124877C1--01-92	P-610-5.3 Welded Wire Fabric Complete In Place	10000	pound	\$ 8.00	\$ 80,000.00
PNC2124877C1--01-93	P-610-5.4 Remove and Replace Concrete Sidewalk (Up to 6 inch Thick)	1800	square foot	\$ 18.00	\$ 32,400.00
PNC2124877C1--01-94	P-610-5.5 Remove and Replace Concrete Curb or Concrete Curb and Gutter	300	linear foot	\$ 60.00	\$ 18,000.00
PNC2124877C1--01-95	P-610-5.6 Light Pole Base 36-Inch Diameter Up to 4-Feet Deep Complete	10	each	\$ 5,400.00	\$ 54,000.00
PNC2124877C1--01-96	P-610-5.7 Light Pole Base 36-Inch Diameter 4-Feet to 10-Feet Deep Complete	10	each	\$ 7,800.00	\$ 78,000.00
PNC2124877C1--01-97	P-611-5.1 Concrete Crack Filling	500	gallon	\$ 420.00	\$ 210,000.00
PNC2124877C1--01-98	P-611-5.2 Concrete Surface Sealing	500	gallon	\$ 420.00	\$ 210,000.00
PNC2124877C1--01-99	P-612-5.1 Runway and Taxiway Expansion Joint	2000	linear foot	\$ 90.00	\$ 180,000.00
PNC2124877C1--01-100	P-620-5.1 Runway & Taxiway Painting Permanent (see Description)	20000	square foot	\$ 6.00	\$ 120,000.00
PNC2124877C1--01-101	P-620-5.1a Runway and Taxiway Painting Permanent without (see Description)	10000	square foot	\$ 6.00	\$ 60,000.00
PNC2124877C1--01-102	P-620-5.2 Runway & Taxiway Painting (Black Enhanced) (see Description)	35000	square foot	\$ 4.00	\$ 140,000.00
PNC2124877C1--01-103	P-620-5.3 Airside Temporary Runway & Taxiway Painting (see Description)	60000	square foot	\$ 5.00	\$ 300,000.00
PNC2124877C1--01-104	P-620-5.3a Airside Temporary Runway and Taxiway Painting without Reflective Bead	10000	square foot	\$ 5.00	\$ 50,000.00

Bid Tabulation

Bid No. PNC2124877C1
Annual Civil Repairs and Maintenance at FLL
 Agency: Aviation Department
 Agent: Lashonne Williams-Canty

Date Bid Posted: 9/22/2022
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 Bid Submittals: 1
 Declinations: 2



Tabulation of Bids				General Asphalt Co., Inc. 4850 N.W. 72 Avenue Miami, FL 33166	
Item	Commodity Code Description	Qty	Unit	Unit Price	Total Price
PNC2124877C1--01-105	P-620-5.4 Airstide or Laneside Marking Removal (Grinding)	10000	square foot	\$ 18.00	\$ 180,000.00
PNC2124877C1--01-106	P-621-5.1 Bituminous Runway Pavement Grooving	3000	square yard	\$ 18.00	\$ 54,000.00
PNC2124877C1--01-107	P-621-5.2 Portland Cement Concrete Pavement Runway Grooving	2000	square yard	\$ 48.00	\$ 96,000.00
PNC2124877C1--01-108	D-701-5.1 18-Inch Diameter RCP Class III (0 to 3 Foot Cover)	250	linear foot	\$ 96.00	\$ 24,000.00
PNC2124877C1--01-109	D-701-5.2 18-Inch Diameter RCP Class III (Over 3 Foot Cover)	1000	linear foot	\$ 96.00	\$ 96,000.00
PNC2124877C1--01-110	D-701-5.3 24-Inch Diameter RCP Class V (0 to 3 Foot Cover)	250	linear foot	\$ 168.00	\$ 42,000.00
PNC2124877C1--01-111	D-701-5.4 24-Inch Diameter RCP Class V (Over 3 Foot Cover)	1000	linear foot	\$ 168.00	\$ 168,000.00
PNC2124877C1--01-112	D-701-5.5 36-Inch Diameter RCP Class V (0 to 3 Foot Cover)	250	linear foot	\$ 168.00	\$ 42,000.00
PNC2124877C1--01-113	D-701-5.6 36-Inch Diameter RCP Class V (Over 3 Foot Cover)	1000	linear foot	\$ 168.00	\$ 168,000.00
PNC2124877C1--01-114	D-701-5.7 48-Inch Diameter RCP Class V (0 to 3 Foot Cover)	250	linear foot	\$ 192.00	\$ 48,000.00
PNC2124877C1--01-115	D-701-5.8 48-Inch Diameter RCP Class V (Over 3 Foot Cover)	500	linear foot	\$ 192.00	\$ 96,000.00
PNC2124877C1--01-116	D-701-5.9 Dewater Clean & Inspect Existing Pipe Less Than 24 Inch Diameter	6000	linear foot	\$ 48.00	\$ 288,000.00
PNC2124877C1--01-117	D-701-5.10 Dewater Clean & Inspect Existing Pipe 24 Inch to 36 Inch Diameter	1500	linear foot	\$ 72.00	\$ 108,000.00
PNC2124877C1--01-118	D-701-5.11 Dewater Clean & Inspect Existing Pipe (see Description)	1500	linear foot	\$ 72.00	\$ 108,000.00
PNC2124877C1--01-119	D-701-5.12 Dewater Clean & Inspect Existing Pipe Greater Than 48 Inch Diameter	1500	linear foot	\$ 72.00	\$ 108,000.00
PNC2124877C1--01-120	D-701-5.13 Dewater Clean & Inspect Existing Structure (see Description)	20	each	\$ 3,600.00	\$ 72,000.00
PNC2124877C1--01-121	D-701-5.14 Dewater Clean & Inspect Existing Structure Greater(see Description)	40	each	\$ 3,600.00	\$ 144,000.00
PNC2124877C1--01-122	D-701-5.15 Existing Pipe 24 Inch to 36 Inch Diameter (see Description)	15	each	\$ 3,000.00	\$ 45,000.00
PNC2124877C1--01-123	D-701-5.16 Existing Pipe 36 Inch to 48 Inch Diameter (see Description)	15	each	\$ 3,000.00	\$ 45,000.00
PNC2124877C1--01-124	D-751-5.1 8 Foot Length x 8 Foot Width x 8 Foot Depth Drainage (see Description)	2	each	\$ 24,000.00	\$ 48,000.00
PNC2124877C1--01-125	D-751-5.2 FDOT Type E Inlet w/J Bottom	2	each	\$ 18,000.00	\$ 36,000.00
PNC2124877C1--01-126	D-751-5.3 FDOT Type H Inlet	5	each	\$ 18,000.00	\$ 90,000.00
PNC2124877C1--01-127	D-751-5.4 FDOT Type H Inlet w/J Bottom	10	each	\$ 18,000.00	\$ 180,000.00
PNC2124877C1--01-128	D-751-5.5 Remove Catch Basin	2	each	\$ 1,200.00	\$ 2,400.00
PNC2124877C1--01-129	D-751-5.6 Remove Maintenance Hole	10	each	\$ 1,200.00	\$ 12,000.00

Bid Tabulation

Bid No. PNC2124877C1
Annual Civil Repairs and Maintenance at FLL
 Agency: Aviation Department
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Tabulation of Bids				General Asphalt Co., Inc. 4850 N.W. 72 Avenue Miami, FL 33166	
Item	Commodity Code Description	Qty	Unit	Unit Price	Total Price
PNC2124877C1-01-130	D-751-5.7 Core Drill Existing Structure for Pipe Connection	10	each	\$ 3,600.00	\$ 36,000.00
PNC2124877C1-01-131	D-751-5.8 Structure Riser (Includes Risers for FDOT Structure Types C D and E)	10	each	\$ 3,600.00	\$ 36,000.00
PNC2124877C1-01-132	D-752-5.1 Concrete Headwall/Endwall (18 Inch)(FDOT Index 250)	2	each	\$ 7,200.00	\$ 14,400.00
PNC2124877C1-01-133	D-752-5.2 Concrete Headwall/Endwall (24 Inch)(FDOT Index 250)	2	each	\$ 7,200.00	\$ 14,400.00
PNC2124877C1-01-134	D-752-5.3 Concrete Headwall/Endwall (36 Inch)(FDOT Index 250)	2	each	\$ 7,200.00	\$ 14,400.00
PNC2124877C1-01-135	D-752-5.4 Concrete Headwall/Endwall (48 Inch)(FDOT Index 250)	5	each	\$ 9,600.00	\$ 48,000.00
PNC2124877C1-01-136	D-752-5.5 Drainage Structure (Ditch Bottom FDOT Index 233 Type F)	8	each	\$ 9,600.00	\$ 76,800.00
PNC2124877C1-01-137	D-752-5.6 Drainage Structure (Ditch Bottom FDOT Index 232 Type F)	5	each	\$ 9,600.00	\$ 48,000.00
PNC2124877C1-01-138	L-108-5.1 1/2 No. 8 AWG L-824C Cable Installed in Duct Bank or Conduit	500	linear foot	\$ 6.00	\$ 3,000.00
PNC2124877C1-01-139	L-108-5.2 1/2 No. 6 AWG 600V Bare Counterpoise ground Wire (see Description)	500	linear foot	\$ 7.00	\$ 3,500.00
PNC2124877C1-01-140	L-108-5.3 3/4 Inch x 10 Feet Ground Rods Installed & Connected (see Description)	25	each	\$ 570.00	\$ 14,250.00
PNC2124877C1-01-141	L-108-5.4 1/2 No. 8 Green Conductor in Conduit and/or Duct Bank	500	linear foot	\$ 7.00	\$ 3,500.00
PNC2124877C1-01-142	L-110-5.1 2 Way 4 Inch PVC Conduit Schedule 40 Direct Buried	100	linear foot	\$ 210.00	\$ 21,000.00
PNC2124877C1-01-143	L-110-5.2 4 Way 4 Inch PVC Conduit Schedule 40 Concrete Encased Ductbank	100	linear foot	\$ 570.00	\$ 57,000.00
PNC2124877C1-01-144	L-110-5.3 Electrical Duct Cleaning	1000	linear foot	\$ 18.00	\$ 18,000.00
PNC2124877C1-01-145	L-115-5.1 Precast Concrete Pull Box 3 Foot x 3 Foot x 3 Foot	2	each	\$ 58,200.00	\$ 116,400.00
PNC2124877C1-01-146	L-115-5.2 Precast Concrete Pull Box 4 foot x 4 Foot x 4 Foot	2	each	\$ 62,400.00	\$ 124,800.00
PNC2124877C1-01-147	L-121-5.1 New L-861T LED Medium Intensity (see Description)	10	each	\$ 13,500.00	\$ 135,000.00
PNC2124877C1-01-148	L-123-5.1 New L-858 Guidance Sign Size 3 (see Description)	2	each	\$ 51,300.00	\$ 102,600.00
PNC2124877C1-01-149	121-1 Flowable Fill	25	cubic yard	\$ 720.00	\$ 18,000.00
PNC2124877C1-01-150	160-1 12 Inch Stabilized Subgrade (LBR 40)	500	square yard	\$ 24.00	\$ 12,000.00
PNC2124877C1-01-151	200-1 4 Inch Limerock Base Course (LBR 100)	500	square yard	\$ 96.00	\$ 48,000.00
PNC2124877C1-01-152	200-2 6 Inch Limerock Base Course (LBR 100)	500	square yard	\$ 96.00	\$ 48,000.00
PNC2124877C1-01-153	210-1 6 Inch Reworking Limerock Base	1000	square yard	\$ 48.00	\$ 48,000.00
PNC2124877C1-01-154	300-1 Prime Coat	2500	gallon	\$ 12.00	\$ 30,000.00

Bid Tabulation

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Item	Commodity Code Description	Qty	Unit	Unit Price	Total Price
PNC2124877C1-01-155	334-1 Remove and Replace Asphaltic Concrete Type SP 9.5 (1 to 50 Tons)	25	ton	\$ 1,000.00	\$ 25,000.00
PNC2124877C1-01-156	334-2 Remove and Replace Asphaltic Concrete Type SP 9.5 (Greater than 50 Tons)	100	ton	\$ 430.00	\$ 43,000.00
PNC2124877C1-01-157	334-3 New Asphaltic Concrete Type SP 9.5 (Variable Depth)	300	ton	\$ 250.00	\$ 75,000.00
PNC2124877C1-01-158	334-4 New Asphaltic Concrete Type SP 12.5 (Variable Depth)	300	ton	\$ 250.00	\$ 75,000.00
PNC2124877C1-01-159	347-1 Portland Cement Concrete Class NS	50	cubic yard	\$ 324.00	\$ 16,200.00
PNC2124877C1-01-160	520-1 New Type F Concrete Curb and Gutter	300	linear foot	\$ 60.00	\$ 18,000.00
PNC2124877C1-01-161	520-2 New Type D Concrete Curb	300	linear foot	\$ 60.00	\$ 18,000.00
PNC2124877C1-01-162	520-3 Remove Existing Concrete Curb and Gutter	300	linear foot	\$ 24.00	\$ 7,200.00
PNC2124877C1-01-163	522-1 Concrete Sidewalk 4 Inch Thick	200	square yard	\$ 48.00	\$ 9,600.00
PNC2124877C1-01-164	522-2 Concrete Sidewalk Ramp/Landings Types (see Description)	50	square yard	\$ 120.00	\$ 6,000.00
PNC2124877C1-01-165	536-1 Guardrail Roadway Complete (see Description)	500	linear foot	\$ 30.00	\$ 15,000.00
PNC2124877C1-01-166	536-2 Special Guardrail Post Installed on Existing Concrete Footings	10	each	\$ 360.00	\$ 3,600.00
PNC2124877C1-01-167	536-3 Guardrail Post Replacement	10	each	\$ 120.00	\$ 1,200.00
PNC2124877C1-01-168	536-4 Removal of Existing Guardrail	500	linear foot	\$ 2.00	\$ 1,000.00
PNC2124877C1-01-169	536-5 Rub Rail Single Sided	500	linear foot	\$ 12.00	\$ 6,000.00
PNC2124877C1-01-170	536-6 Concrete Encased Guardrail Post (Including NS Concrete) Complete	10	each	\$ 450.00	\$ 4,500.00
PNC2124877C1-01-171	556-1 Jack and Bore Pipe 24-Inch Diameter Complete in Place	1000	linear foot	\$ 360.00	\$ 360,000.00
PNC2124877C1-01-172	700-1 Single Post Sign F & I Ground Mount Less than 12 Square Foot	10	each	\$ 2,340.00	\$ 23,400.00
PNC2124877C1-01-173	700-2 Multi Post Sign F & I Ground Mount 12 to 20 Square Foot	10	each	\$ 9,000.00	\$ 90,000.00
PNC2124877C1-01-174	700-3 Sign Panel F & I Ground Mount Up to 12 Square Foot	10	each	\$ 1,620.00	\$ 16,200.00
PNC2124877C1-01-175	700-4 Sign Panel F & I Overhead Mount 12 to 20 Square Foot	5	each	\$ 3,000.00	\$ 15,000.00
PNC2124877C1-01-176	705-1 Object Marker Type 1	10	each	\$ 1,320.00	\$ 13,200.00
PNC2124877C1-01-177	705-2 Delineator High Performance	400	each	\$ 240.00	\$ 96,000.00
PNC2124877C1-01-178	706-1 Remove Existing Retroreflective or Non-retroreflective Markers	400	each	\$ 5.00	\$ 2,000.00
PNC2124877C1-01-179	706-2 Retroreflective Pavement Marker (RPM)	500	each	\$ 12.00	\$ 6,000.00
PNC2124877C1-01-180	710-1 Painted Pavement Marking	10000	square foot	\$ 5.00	\$ 50,000.00

Bid Tabulation

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 Agency: Aviation Department
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Tabulation of Bids				General Asphalt Co., Inc. 4850 N.W. 72 Avenue Miami, FL 33166	
Item	Commodity Code Description	Qty	Unit	Unit Price	Total Price
PNC2124877C1--01-181	711-1 Thermoplastic Stripes and Markings	10000	square foot	\$ 10.00	\$ 100,000.00
PNC2124877C1--01-182	L-1620-5.1 #8/0 600V Conductor Installed in New or Existing (see Description)	250	linear foot	\$ 19.00	\$ 4,750.00
PNC2124877C1--01-183	L-16120-5.2 #2/0 600V Conductor Installed in New or Existing (see Description)	150	linear foot	\$ 31.00	\$ 4,650.00
PNC2124877C1--01-184	L-16120-5.3 Master Electrician Including Overhead & Profit	60	hour	\$ 438.00	\$ 26,280.00
PNC2124877C1--01-185	L-16120-5.4 Green Cable THHN 6GRN19STRCU1R	100	linear foot	\$ 10.00	\$ 1,000.00
PNC2124877C1--01-186	133423-1 New 6 Foot by 8 Foot Temporary Manned Guard Booth (see Description)	2	lump sum	\$ 30,000.00	\$ 60,000.00
PNC2124877C1--01-187	133423-2 Temporary Manned Guard Booth Installation Set Up and Removal	30	day	\$ 1,020.00	\$ 30,600.00
PNC2124877C1--01-188	133423-3 Temporary Guard Booth Daily Maintenance (see Description)	200	day	\$ 240.00	\$ 48,000.00
	SubTotal:				\$ 11,924,825.00
	Pass-Thru Allowances:				\$ 400,000.00
	Total:				\$ 12,324,825.00

Pass-thru allowances incorporated into this contract in the total amount of 400,000 for parts materials and miscellaneous items during construction in the amount of \$100,000, temporary construction items necessary for the safe and proper execution of work in the amount of \$200,000 and maintenance of traffic in the amount of \$100,000. Expenditures under these allowance items must be approved by the Contract Administrator and will be reimbursed at the contractor's actual cost without markup.