

SUPPLEMENTAL AGREEMENT #1

BETWEEN

GEORGIA DEPARTMENT OF TRANSPORTATION

STATE OF GEORGIA

AND

AUGUSTA-RICHMOND COUNTY

Project Number: AP022-9046-66(245) RICHMOND
PID – T007521

This agreement is made and entered into _____, by and between the GEORGIA DEPARTMENT OF TRANSPORTATION, an agency of the State of Georgia, hereinafter referred to as the "DEPARTMENT", and the AUGUSTA-RICHMOND COUNTY, hereinafter called the "SPONSOR".

WHEREAS, the DEPARTMENT and the SPONSOR heretofore on MAY 23, 2022 , entered into an Agreement, hereinafter called the "ORIGINAL CONTRACT", whereby the DEPARTMENT agreed to participate in the SPONSOR'S desire for the construction of certain work at the DANIEL FIELD AIRPORT for AUGUSTA-RICHMOND COUNTY; more specifically, Engineering Design Services for Runway 5/23 and 11/29 Airfield Electrical Replacement; Threshold Relocation and Remarketing at the Daniel Field Airport in Augusta, GA (the "Project"); and

WHEREAS, the DEPARTMENT has determined additional work scope and funds are needed to complete the work for this PROJECT. This supplemental agreement will provide the ability to carry out the full scope of work as identified in the ORIGINAL CONTRACT dated, MAY 23, 2022. This Supplemental Agreement will increase the budget; and

NOW THEREFORE, THE PARTIES HERETO mutually agree that for and in consideration of the mutual benefits to flow from each other to the other, the ORIGINAL CONTRACT dated, MAY 23, 2022, is hereby modified as follows:

- I. ARTICLE VIII – COMPENSATION shall be deleted in its entirety and replaced as stated below:

The DEPARTMENT and the SPONSOR agree that the total allowable cost of the PROJECT shall be as follows:

The Maximum amount that the DEPARTMENT shall be obligated to pay is \$272,602.77. The total estimated cost of the PROJECT is THREE HUNDRED TWELVE THOUSAND SIX HUNDRED FIFTY-NINE and 42/100 Dollars (\$312,659.42). The total estimated cost of the PROJECT as described therein is shown in Exhibit B, which is hereby made a part of this Contract as fully and to be the same effect as if the same had been set forth at length in the body of this Contract.

It is further agreed that if the sum total of the actual cost of the PROJECT is less than the amounts indicated in Exhibit B, the DEPARTMENT shall be obligated to pay its pro rate share of the actual PROJECT cost as verified from the records of the SPONSOR or actual measured quantities of the items listed in Exhibit B, whichever is less.

In addition, the following paragraphs shall apply:

1. It is further agreed that the DEPARTMENT'S obligation will include state funds in the amount of ONE HUNDRED EIGHTEEN THOUSAND SIXTY-SEVEN and 69/100 Dollars (\$118,067.69) for the PROJECT as summarized in Exhibit B.
2. It is further agreed that the DEPARTMENT'S obligation will include federal funds in the amount of ONE HUNDRED FIFTY-FOUR THOUSAND FIVE HUNDRED THIRTY-FIVE and 08/100 Dollars (\$154,535.08) for the PROJECT as summarized in Exhibit B.
3. It is further understood the SPONSOR'S local share of the PROJECT is in the amount of FORTY THOUSAND FIFTY-SIX and 65/100 Dollars (\$40,056.65).

- II. EXHIBIT A – Add additional work scope, Exhibit A, Elements 25, and Element 26 as attached.

Except as modified, changed, or amended, all the terms and conditions of the Original contract dated, MAY 23, 2022, and as amended by the Supplemental Agreement shall remain in full force and effect. The covenants herein contained shall except as otherwise provided accrue to the benefit of and be binding upon the successors and assigns of the parties hereto.

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IN WITNESS THEREOF said parties have hereunto set their hands and affixed their seals the day and year above first written.

GEORGIA DEPARTMENT OF
TRANSPORTATION:

AUGUSTA-RICHMOND COUNTY:

DATE: _____

DATE: _____

Commissioner (SEAL)

MAYOR

PRINTED NAME

ATTEST: _____
Treasurer

Federal Employment Identification

Number: 07-3438418

Daniel Field Airport (DNL)
Augusta, Georgia

EXHIBIT A

SCOPE OF SERVICES

**ENGINEERING DESIGN SERVICES FOR
RUNWAY 05/23 THRESHOLD RELOCATION AND REMARKING (FEDERAL)
ADDITIONAL SCOPE – TREE OBSTRUCTION STUDY**

**GDOT Project Number AP022-9046-66 (245) Richmond
PID-T007521**

Augusta, Georgia will provide engineering design and planning services for the following construction project at the Daniel Field Airport:

1. **Runway 05/23 Threshold Existing Tree Obstruction Study as a Federally Eligible Airport Facility.** Based on current airport inspection findings and recent aeronautical survey LiDAR data, there are known vegetative obstructions (trees) within the approaches of Runway 05 and Runway 23. These obstructions that may/can be removed will require direct action on the part of the City of Augusta for trees in the public right-of-way, voluntary action on the part of private property owners, and/or acquisition of avigation easements after the completion of an Environmental Assessment (EA) for trees on private property that require further negotiation of easement acquisition. In reviewing the tree data contained in the LiDAR data set, it has become apparent that the number of trees is exaggerated due to interpretation of multiple penetration points from the same trees, thereby artificially increasing the effective number (counted) of tree obstructions being tracked by Daniel Field Airport. Additionally, it is noted that many trees within the obstruction population are well-aged, heritage type trees that may have reached their limit of growth and/or may be safely pruned/trimmed to mitigate for obstruction penetration without requiring more costly EA and Avigation Easement routes of action.
2. The intent of this Tree Obstruction Study will be to:
 - a. ground-truth all remaining trees in the obstruction population (estimated at 103 trees in the Runway 05 and Runway 23 approaches),
 - b. review LiDAR data in envelopes at edges of approach surfaces (see exhibit RW 23 APPROACH) which were not previously evaluated prior to shifting the approach surface inward with the elimination of the circling approach,
 - c. establish a corrected/reduced population based on filtering out trees counted multiple times in the dataset,
 - d. establish an evaluation envelope around each valid obstruction tree utilizing real-time/current field data along with LiDAR elevation data,
 - e. establish a health and actions evaluation along with recommendations for mitigation with a licensed arborist,
 - f. review recommendations with City of Augusta Public Works Arborist relative to the City's Tree Ordinance and document concurrence/support,

- g. development of a project report, detailing each tree in the obstruction population, and proposed/recommended actions as well as documentation of actions taken prior to project completion,
- h. review all findings with GDOT for concurrence and establishing the basis for the EA task order going forward,

The engineering design and planning services will consist of the preparation of field summary drawings and data tables, evaluation matrices, compiled into a detailed project report (Tree Inventory, Identification and Resolution). The report will also contain project documentation for public works coordination, and documentation of any/all public engagement coordination.

The design and planning services will include the following elements of work:

- **Element 25 – Tree Obstruction Study (FEDERAL)** will include the:
 - Preparation of work scope, fees, predesign/scoping meeting with GDOT, preliminary project evaluation, funding assistance, and development of approach exhibits per GDOT request defining approach type to be evaluated,
 - Task management, meetings, overall coordination,
 - LiDAR Point Cloud Review - Confirm presence of any tree obstructions not previously noted prior to elimination of circling approach RW 23, which broadened the footprint of the approach surface - See Runway 23 Approach Exhibit,
 - Tree field survey/verification including field review of 91 trees within the Runway 23 approach and 12 trees in the Runway 05 approach as indicated by the LiDAR data. This step includes field review of each obstruction based on GIS coordinates in the LiDAR data, field review/cross referencing to LiDAR and Obstruction data for all trees annotated within the immediate vicinity (documenting duplications due to LiDAR multi-counts), documentation of existing tree conditions (photographic/tabular) in a standardized reporting format,
 - Documentation/reporting of tree findings – including a tree data sheet, validating location/ownership of the tree (public or private), adding in elevation metrics from LiDAR data, a graphical representation of each tree relative to the approach envelope and obstruction penetration values (graphical view of the approach surface cutting through the tree), as well as any other pertinent field data,
 - Report from arborist review – including both photo review and field review, documenting findings and recommendations,
 - Tree management plan from Arborist for future management of trees that will remain after the study,
 - Report from City of Augusta Public Works Arborist including review, concurrence and/or alternative recommendations relating to the City's Tree Ordinance,
 - Developing project report including tree data sheet with all mentioned metrics for tree obstruction population, proposed/recommended/completed actions,
 - GDOT review and concurrence on project report/summary and recommended actions, including development of Scope of Work for remaining trees requiring an Environmental Assessment (EA),

The time of performance for the design work to be completed is estimated to be 90 days from the time of issuance of Notice to Proceed.

Deliverables will consist of one (1) electronic copy of the Draft Project Report for review and comment, and one (1) electronic copy of the Final Project Report to be provided to GDOT and Sponsor.

Bidding and permitting services, along with Construction Administration services are not part of this scope and will be developed under subsequent project development, after the completion of the EA.

This project will be developed in accordance with the provisions of the Federal Aviation Administration (FAA) Advisory Circular 150/5300-13B.

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**Daniel Field Airport (DNL)
Augusta, Georgia**

EXHIBIT A

SCOPE OF SERVICES

**ENGINEERING DESIGN SERVICES FOR
RUNWAY 11/29 THRESHOLD RELOCATION AND REMARKING (NON-FEDERAL)
ADDITIONAL SCOPE – TREE OBSTRUCTION STUDY**

**GDOT Project Number AP022-9046-66 (245) Richmond
PID-T007521**

Augusta, Georgia will provide engineering design and planning services for the following construction project at the Daniel Field Airport:

1. **Runway 11/29 Threshold Existing Tree Obstruction Study as a Federally Ineligible Airport Facility.** Based on current airport inspection findings and recent aeronautical survey LiDAR data, there are known vegetative obstructions (trees) within the approaches of Runway 11 and Runway 29. These obstructions that may/can be removed will require direct action on the part of the City of Augusta for trees in the public right-of-way, voluntary action on the part of private property owners, and/or acquisition of avigation easements after the completion of an Environmental Assessment (EA) for trees on private property that require further negotiation of easement acquisition. In reviewing the tree data contained in the LiDAR data set, it has become apparent that the number of trees is exaggerated due to interpretation of multiple penetration points from the same trees, thereby artificially increasing the effective number (counted) of tree obstructions being tracked by Daniel Field Airport. Additionally, it is noted that many trees within the obstruction population are well-aged, heritage type trees that may have reached their limit of growth and/or may be safely pruned/trimmed to mitigate for obstruction penetration without requiring more costly EA and Avigation Easement routes of action.
2. The intent of this Tree Obstruction Study will be to:
 - a. ground-truth all remaining trees in the obstruction population (estimated at 306 trees in the Runway 11 and Runway 29 approaches),
 - b. review LiDAR data in envelopes at edges of approach surfaces (see exhibit RW 11 APPROACH) which were not previously evaluated prior to shifting the approach surface inward with the elimination of the circling approach,
 - c. establish a corrected/reduced population based on filtering out trees counted multiple times in the dataset,
 - d. establish an evaluation envelope around each valid obstruction tree utilizing real-time/current field data along with LiDAR elevation data,
 - e. establish a health and actions evaluation along with recommendations for mitigation with a licensed arborist,
 - f. review recommendations with City of Augusta Public Works Arborist relative to the City's Tree Ordinance and document concurrence/support,

- g. development of a project report, detailing each tree in the obstruction population, and proposed/recommended actions as well as documentation of actions taken prior to project completion,
- h. review all findings with GDOT for concurrence and establishing the basis for the EA task order going forward,

The engineering design and planning services will consist of the preparation of field summary drawings and data tables, evaluation matrices, compiled into a detailed project report (Tree Inventory, Identification and Resolution). The report will also contain project documentation for public works coordination, and documentation of any/all public engagement coordination.

The design and planning services will include the following elements of work:

- **Element 26 – Tree Obstruction Study (NON-FEDERAL)** will include the:
 - Preparation of work scope, fees, predesign/scoping meeting with GDOT, preliminary project evaluation, funding assistance, and development of approach exhibits per GDOT request defining approach type to be evaluated,
 - Task management, meetings, overall coordination,
 - FAA Coordination and Review (RW 11),
 - LiDAR Point Cloud Review - Confirm presence of any tree obstructions not previously noted prior to elimination of circling approach RW 29, which broadened the footprint of the approach surface - See Runway 29 Approach Exhibit,
 - Tree field survey/verification including field review of 159 trees within the Runway 11 approach and 147 trees in the Runway 29 approach as indicated by the LiDAR data. This step includes field review of each obstruction based on GIS coordinates in the LiDAR data, field review/cross referencing to LiDAR and Obstruction data for all trees annotated within the immediate vicinity (documenting duplications due to LiDAR multi-counts), documentation of existing tree conditions (photographic/tabular) in a standardized reporting format,
 - Documentation/reporting of tree findings – including a tree data sheet, validating location/ownership of the tree (public or private), adding in elevation metrics from LiDAR data, a graphical representation of each tree relative to the approach envelope and obstruction penetration values (graphical view of the approach surface cutting through the tree), as well as any other pertinent field data,
 - Report from arborist review – including both photo review and field review, documenting findings and recommendations,
 - Tree management plan from Arborist for future management of trees that will remain after the study,
 - Report from City of Augusta Public Works Arborist including review, concurrence and/or alternative recommendations relating to the City's Tree Ordinance,
 - Developing project report including tree data sheet with all mentioned metrics for tree obstruction population, proposed/recommended/completed actions,
 - GDOT review and concurrence on project report/summary and recommended actions, including development of Scope of Work for remaining trees requiring an Environmental Assessment (EA),

The time of performance for the design work to be completed is estimated to be 90 days from the time of issuance of Notice to Proceed.

Deliverables will consist of one (1) electronic copy of the Draft Project Report for review and comment, and one (1) electronic copy of the Final Project Report to be provided to GDOT and Sponsor.

Bidding and permitting services, along with Construction Administration services are not part of this scope and will be developed under subsequent project development, after the completion of the EA. This project will be developed in accordance with the provisions of the Federal Aviation Administration (FAA) Advisory Circular 150/5300-13B.

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**DANIEL FIELD AIRPORT
AUGUSTA, GEORGIA**

EXHIBIT B

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SUMMARY OF CONSTRUCTION ITEMS

**GDOT PROJECT NUMBER: AP022-9046-66(245) RICHMOND
PID-T007521**

Engineering Design Services for Runway 5/23 and 11/29 Airfield Electrical Replacement, Threshold Relocation and Remarkings; Environmental Planning

Element	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL	%	FEDERAL FUNDS	%	FEDERAL FUNDS	%	STATE FUNDS
Part I Federal Funds FY20A - SBGP-030-2020							22153		22153		01217
Design Services RWY 5/23 Airfield Electrical System Replacement											
1	Project Formulation	EA	8238.98	\$1.00	\$8,238.98	90%	\$7,415.08	10%	\$823.90	0%	\$0.00
2	Survey Work	EA	8933.98	\$1.00	\$8,933.98	90%	\$8,040.58	10%	\$893.40	0%	\$0.00
3	Construction Plans	EA	26915.98	\$1.00	\$26,915.98	90%	\$24,224.38	10%	\$2,691.60	0%	\$0.00
4	Contract Documents	EA	9450	\$1.00	\$9,450.00	90%	\$8,505.00	10%	\$945.00	0%	\$0.00
5	Engineer's/Design Report	EA	4440	\$1.00	\$4,440.00	90%	\$3,996.00	10%	\$444.00	0%	\$0.00
6	Coordination, Review, and Comments	EA	7269.95	\$1.00	\$7,269.95	90%	\$6,542.95	10%	\$727.00	0%	\$0.00
Design Services RWY 5/23 Threshold Relocation and Remarkings											
7	Project Formulation	EA	19255.95	\$1.00	\$19,255.95	90%	\$17,330.35	10%	\$1,925.60	0%	\$0.00
8	Survey Work	EA	8259.98	\$1.00	\$8,259.98	90%	\$7,433.98	10%	\$826.00	0%	\$0.00
9	Construction Plans	EA	9750.99	\$1.00	\$9,750.99	90%	\$8,775.89	10%	\$975.10	0%	\$0.00
10	Contract Documents	EA	6219	\$1.00	\$6,218.50	90%	\$5,596.65	10%	\$621.85	0%	\$0.00
11	Engineer's/Design Report	EA	2511	\$1.00	\$2,511.00	90%	\$2,259.90	10%	\$251.10	0%	\$0.00
12	Coordination, Review, and Comments	EA	5887.95	\$1.00	\$5,887.95	90%	\$5,299.15	10%	\$588.80	0%	\$0.00
13a	Environmental Planning	EA	18480.49	\$1.00	\$18,480.49	90%	\$16,632.44	10%	\$1,848.05	0%	\$0.00
Total Part I Federal Funds FY20A					\$135,613.75		\$122,052.35		\$13,561.40		\$0.00
Part II State Funds FY22											
14	LIMITED PARTICIPATION PROJECT. THE AMOUNT SHALL NOT EXCEED \$93,413.83 OR 75%, WHICHEVER IS LESS OF THE ACTUAL CONSTRUCTION COST OF \$124,551.75 AIRPORT CONSTRUCTION - LIMITED PARTICIPATION	EA	\$124,551.75	\$1.00	\$124,551.75	0%	\$0.00	0%	\$0.00	75%	\$93,413.83
Total Part II State Funds FY22					\$124,551.75		\$0.00		\$0.00		\$93,413.83
Part III Federal Funds FY23 - SBGP-059-2023							22184				01235
13b	Environmental Planning	EA	21,023.70	\$1.00	\$21,023.70	90%	\$18,921.33	0%	\$0.00	5%	\$1,051.19
Total Part III Federal Funds FY23					\$21,023.70		\$18,921.33		\$0.00		\$1,051.19
Part IV State Funds - FY24											
13c	Environmental Planning	EA	31,470.22	\$1.00	\$31,470.22	0%	\$0.00	0%	\$0.00	75%	\$23,602.67
Total Part 4 State Funds					\$31,470.22		\$0.00		\$0.00		\$23,602.67
Total Project Cost					\$312,659.42		\$140,973.68		\$13,561.40		\$118,067.69

<u>FAA Federal Grant and FAIN #</u>	<u>Award Date</u>	<u>Original Contract</u>	<u>SA #1</u>	<u>New Contract Amount</u>	<u>Fund Source</u>	<u>Activity Code</u>
3-13-SBGP-030-2020	7/27/2020	\$122,052.35	\$0.00	\$122,052.35	22153	AVIA
3-13-SBGP-030-2020	7/27/2020	\$13,561.40	\$0.00	\$13,561.40	22153	AVCA
FY22 State	N/A	\$93,413.83	\$0.00	\$93,413.83	01217	AVIA
3-13-SBGP-059-2023	8/4/2023	\$0.00	\$18,921.33	\$18,921.33	22184	AVNP
FY24 State	N/A	<u>\$0.00</u>	<u>\$24,653.86</u>	<u>\$24,653.86</u>	01235	AVIA
Total Maximum Obligation of Federal and State Funds This Contract:		\$229,027.58	\$43,575.19	\$272,602.77		