

Appendix C
Engineer's Estimates

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BIRCHWOOD AIRPORT
Near-Term Airport Capital Improvement Projects (0 to 5 Years)
Reconfigure Taxiways and Rehab Runway 03G/21G

Project	Title	Total Project Estimate (\$)	Fiscal Year	AIP Funding (\$)	Sponsor Share (\$)	Fig. 1: Near-Term Project Callout
BCV-NT-1	Remove Existing Parallel Taxiway "A"	415,000	2028	389,063	25,938	NT-1
BCV-NT-2	Construct New Taxiway "A"	715,500	2028	670,781	44,719	NT-2
BCV-NT-3	Reconfigure Existing Connecting Taxiway "D"	1,123,500	2028	1,053,281	70,219	NT-3
BCV-NT-4	Remove Existing Connecting Taxiway "E"	181,500	2028	170,156	11,344	NT-4
BCV-NT-5	Construct Connecting Taxiway "F"	972,500	2028	911,719	60,781	NT-5
BCV-NT-6	Install Supplemental Wind Cone	116,500	2028	109,219	7,281	NT-6
BCV-NT-7	Reconstruct Runway 03G/21G (1,800'x60')	2,731,000	2028	2,560,313	170,688	NT-7
BCV-NT-8	Expand Northeast Apron	2,903,000	2028	2,721,563	181,438	NT-8
BCV-NT-9	Construct Summer Tie-Down/Winter Snow Storage Area	752,500	2028	705,469	47,031	NT-9
BCV-NT-10	RPZ Land Acquisition	190,500	2028	178,594	11,906	NT-10
BCV-NT-11	Trim Trees in Avigation Easements that are Existing Obstructions	191,500	2028	179,531	11,969	NT-11
BCV-NT-12	Construct New Perimeter Fencing	381,000	2028	357,188	23,813	NT-12
BCV-NT-13	Rehabilitate Runway 03/21 Edge Lighting	2,712,500	2028	2,542,969	169,531	NT-13
BCV-NT-14	Install PAPIs on Runway 03/21	539,500	2028	505,781	33,719	NT-14
Near-Term Project Group Total:		13,926,000		13,055,625	870,375	

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Remove Existing Parallel Taxiway "A"
BCV-NT (1)

2028

ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL PRICE
G100.010.0000	MOBILIZATION AND DEMOBILIZATION	1 L.S.	\$ 10,000.00	\$ 10,000.00
G135.010.0000	CONSTRUCTION SURVEYING BY THE CONTRACTOR	1 L.S.	\$ 3,000.00	\$ 3,000.00
G135.010.0000	CONTRACTOR FURNISHED ENGINEERING TOOLS	1 C.S.	\$ 1,000.00	\$ 1,000.00
G700.040.0000	TRAFFIC CONTROL FOR AIRPORTS	1 L.S.	\$ 5,000.00	\$ 5,000.00
P152.010.0000	UNCLASSIFIED EXCAVATION	5,400 C.Y.	\$ 15.00	\$ 81,000.00
P152.440.0000	AREA GRADING	10,800 S.Y.	\$ 3.00	\$ 32,400.00
P160.010.0000	EXCAVATION OF PAVEMENT	3,000 S.Y.	\$ 6.00	\$ 18,000.00
P170.020.0000	SOIL TESTING PROGRAM	1 C.S.	\$ 5,000.00	\$ 5,000.00
P641.010.0000	EROSION, SEDIMENT, AND POLLUTION CONTROL ADMINISTRATION	1 S.Y.	\$ 2,500.00	\$ 2,500.00
P641.020.0000	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL	1 C.S.	\$ 8,000.00	\$ 8,000.00
P641.070.0000	SWPPP MANAGER	1 L.S.	\$ 1,000.00	\$ 1,000.00
T901.020.0000	SEEDING	1,200 POUND	\$ 20.00	\$ 24,000.00
T905.010.0020	TOPSOILING, CLASS B	10,800 S.Y.	\$ 3.00	\$ 32,400.00

Subtotal Construction \$ 223,300.00

Construction Engineering (CENG) Percent/Amount:	20%	\$ 44,660.00
Design Percent/Amount:	12%	\$ 26,796.00
Overall Project Contingency Percent/Amount:	20%	\$ 44,660.00
4 Year Inflation	@ 5%	\$ 48,100.00

Category Subtotal (Pay Items + CENG + Design + Project Contingency + Inflation): \$ 387,516.00

Indirect Cost Allocation Plan (ICAP) Percent/Amount: 7.03% \$ 27,242.37

Project Estimate Total: \$ 414,758.37

Construct New Taxiway "A"
BCV-NT (2)

2028

ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL PRICE
G100.010.0000	MOBILIZATION AND DEMOBILIZATION	1 L.S.	\$ 20,000.00	\$ 20,000.00
G135.010.0000	CONSTRUCTION SURVEYING BY THE CONTRACTOR	1 L.S.	\$ 4,000.00	\$ 4,000.00
G135.010.0000	CONTRACTOR FURNISHED ENGINEERING TOOLS	1 C.S.	\$ 1,000.00	\$ 1,000.00
G700.040.0000	TRAFFIC CONTROL FOR AIRPORTS	1 L.S.	\$ 8,000.00	\$ 8,000.00
L108.010.2008	UNDERGROUND CABLE #8 AWG, COPPER, 5KV FAA TYPE C, L-824	1,100 EACH	\$ 5.00	\$ 5,500.00
L108.030.0006	#6 BARE COPPER GROUND CONDUCTOR	1,100 L.F.	\$ 2.00	\$ 2,200.00
L108.070.0000	GROUND ROD	10 EACH	\$ 230.00	\$ 2,300.00
L110.030.1002	RIGID STEEL CONDUIT, 2-INCH	1,100 L.F.	\$ 50.00	\$ 55,000.00
L125.040.0000	TAXIWAY EDGE LIGHT, L-861-T	6 EACH	\$ 2,500.00	\$ 15,000.00
L125.130.0000	AIRPORT SIGN, L-858	2 EACH	\$ 10,000.00	\$ 20,000.00
L125.500.0000	MISCELLANEOUS AIRPORT ELECTRICAL WORK	1 C.S.	\$ 3,000.00	\$ 3,000.00
P152.010.0000	UNCLASSIFIED EXCAVATION	2,300 C.Y.	\$ 15.00	\$ 34,500.00
P154.020.0000	SUBBASE COURSE	3,500 C.S.	\$ 25.00	\$ 87,500.00
P170.020.0000	SOIL TESTING PROGRAM	1 C.S.	\$ 5,000.00	\$ 5,000.00
P209.020.0000	CRUSHED AGGREGATE BASE COURSE	500 TON	\$ 30.00	\$ 15,000.00
P299.020.0000	CRUSHED AGGREGATE SURFACE COURSE	400 TON	\$ 50.00	\$ 20,000.00
P401.010.0030	HOT MIX ASPHALT TYPE II, CLASS A	180 TON	\$ 150.00	\$ 27,000.00
P401.020.5828	ASPHALT BINDER, PG 58-28	10 TON	\$ 1,000.00	\$ 9,540.00
P620.020.0000	RUNWAY AND TAXIWAY PAINTING	1 L.S.	\$ 10,000.00	\$ 10,000.00
P641.010.0000	EROSION, SEDIMENT, AND POLLUTION CONTROL ADMINISTRATION	1 L.S.	\$ 2,500.00	\$ 2,500.00
P641.020.0000	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL	1 C.S.	\$ 20,000.00	\$ 20,000.00
P641.070.0000	SWPPP MANAGER	1 L.S.	\$ 1,000.00	\$ 1,000.00
P681.020.0000	GEOTEXTILE, STABILIZATION	2,700 S.Y.	\$ 3.50	\$ 9,450.00
T901.020.0000	SEEDING	100 POUND	\$ 55.00	\$ 5,500.00
T905.010.0020	TOPSOILING, CLASS B	700 S.Y.	\$ 3.00	\$ 2,100.00
Subtotal Construction				\$ 385,100.00

Construction Engineering (CENG) Percent/Amount:	20%	\$ 77,020.00
Design Percent/Amount:	12%	\$ 46,212.00
Overall Project Contingency Percent/Amount:	20%	\$ 77,020.00
4 Year Inflation	@ 5%	\$ 83,000.00

Category Subtotal (Pay Items + CENG + Design + Project Contingency + Inflation): \$ 668,352.00

Indirect Cost Allocation Plan (ICAP) Percent/Amount: 7.03% \$ 46,985.15

Project Estimate Total: \$ 715,337.15

Reconfigure Existing Connecting Taxiway "D"
BCV-NT-3

2028

ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL PRICE
G100.010.0000	MOBILIZATION AND DEMOBILIZATION	1 L.S.	\$ 20,000.00	\$ 20,000.00
G135.010.0000	CONSTRUCTION SURVEYING BY THE CONTRACTOR	1 L.S.	\$ 6,000.00	\$ 6,000.00
G135.010.0000	CONTRACTOR FURNISHED ENGINEERING TOOLS	1 C.S.	\$ 2,000.00	\$ 2,000.00
G700.040.0000	TRAFFIC CONTROL FOR AIRPORTS	1 L.S.	\$ 12,000.00	\$ 12,000.00
L108.010.2008	UNDERGROUND CABLE #8 AWG, COPPER, 5KV FAA TYPE C, L-824	1,600 L.F.	\$ 5.00	\$ 8,000.00
L108.030.0006	#6 BARE COPPER GROUND CONDUCTOR	1,600 L.F.	\$ 2.00	\$ 3,200.00
L108.070.0000	GROUND ROD	10 EACH	\$ 230.00	\$ 2,300.00
L110.030.1002	RIGID STEEL CONDUIT, 2-INCH	1,600 L.F.	\$ 50.00	\$ 80,000.00
L125.040.0000	TAXIWAY EDGE LIGHT, L-861-T	10 EACH	\$ 2,500.00	\$ 25,000.00
L125.070.0000	REMOVE RUNWAY AND TAXIWAY LIGHT	5 EACH	\$ 900.00	\$ 4,500.00
L125.110.0000	RELOCATE EXISTING AIRPORT SIGN, TYPE L-858	2 EACH	\$ 3,500.00	\$ 7,000.00
L125.130.0000	AIRPORT SIGN, L-858	3 EACH	\$ 10,000.00	\$ 30,000.00
L125.500.0000	MISCELLANEOUS AIRPORT ELECTRICAL WORK	1 C.S.	\$ 5,000.00	\$ 5,000.00
P152.010.0000	UNCLASSIFIED EXCAVATION	3,000 C.Y.	\$ 15.00	\$ 45,000.00
P152.440.0000	AREA GRADING	2,800 S.Y.	\$ 3.00	\$ 8,400.00
P154.020.0000	SUBBASE COURSE	5,600 TON	\$ 25.00	\$ 140,000.00
P160.010.0000	EXCAVATION OF PAVEMENT	2,700 S.Y.	\$ 6.00	\$ 16,200.00
P170.020.0000	SOIL TESTING PROGRAM	1 C.S.	\$ 5,000.00	\$ 5,000.00
P209.020.0000	CRUSHED AGGREGATE BASE COURSE	500 TON	\$ 30.00	\$ 15,000.00
P299.020.0000	CRUSHED AGGREGATE SURFACE COURSE	1,000 TON	\$ 50.00	\$ 50,000.00
P401.010.0030	HOT MIX ASPHALT TYPE II, CLASS A	200 TON	\$ 150.00	\$ 30,000.00
P401.020.5828	ASPHALT BINDER, PG 58-28	11 TON	\$ 1,000.00	\$ 10,600.00
P620.010.0000	RUNWAY AND TAXIWAY PAINTING	1 L.S.	\$ 10,000.00	\$ 10,000.00
P620.060.0000	PAINTED MARKING REMOVAL	1 L.S.	\$ 3,000.00	\$ 3,000.00
P641.010.0000	EROSION, SEDIMENT, AND POLLUTION CONTROL ADMINISTRATION	1 L.S.	\$ 2,500.00	\$ 2,500.00
P641.020.0000	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL	1 S.Y.	\$ 15,000.00	\$ 15,000.00
P641.070.0000	SWPPP MANAGER	1 L.S.	\$ 1,000.00	\$ 1,000.00
P681.020.0000	GEOTEXTILE, STABILIZATION	4,200 S.Y.	\$ 3.50	\$ 14,700.00
T901.020.0000	SEEDING	400 POUND	\$ 55.00	\$ 22,000.00
T905.010.0020	TOPSOILING, CLASS B	3,800 S.Y.	\$ 3.00	\$ 11,400.00

Subtotal Construction \$ 604,800.00

Construction Engineering (CENG) Percent/Amount:	20%	\$ 120,960.00
Design Percent/Amount:	12%	\$ 72,576.00
Overall Project Contingency Percent/Amount:	20%	\$ 120,960.00
4 Year Inflation	@ 5%	\$ 130,300.00

Category Subtotal (Pay Items + CENG + Design + Project Contingency + Inflation): \$ 1,049,596.00

Indirect Cost Allocation Plan (ICAP) Percent/Amount: 7.03% \$ 73,786.60

Project Estimate Total: \$ 1,123,382.60

Remove Existing Connecting Taxiway "E"
BCV-NT (4)

2028

ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL PRICE
G100.010.0000	MOBILIZATION AND DEMOBILIZATION	1 L.S.	\$ 10,000.00	\$ 10,000.00
G135.010.0000	CONSTRUCTION SURVEYING BY THE CONTRACTOR	1 L.S.	\$ 1,000.00	\$ 1,000.00
G135.010.0000	CONTRACTOR FURNISHED ENGINEERING TOOLS	1 C.S.	\$ 1,000.00	\$ 1,000.00
G700.040.0000	TRAFFIC CONTROL FOR AIRPORTS	1 L.S.	\$ 2,000.00	\$ 2,000.00
L125.070.0000	REMOVE RUNWAY AND TAXIWAY LIGHT	10 EACH	\$ 750.00	\$ 7,500.00
L125.250.0000	REMOVE AIRPORT SIGN	2 EACH	\$ 1,100.00	\$ 2,200.00
L125.500.0000	MISCELLANEOUS AIRPORT ELECTRICAL WORK	1 C.S.	\$ 1,000.00	\$ 1,000.00
P152.010.0000	UNCLASSIFIED EXCAVATION	900 C.Y.	\$ 15.00	\$ 13,500.00
P152.440.0000	AREA GRADING	2,700 S.Y.	\$ 3.00	\$ 8,100.00
P160.010.0000	EXCAVATION OF PAVEMENT	2,600 S.Y.	\$ 6.00	\$ 15,600.00
P641.010.0000	EROSION, SEDIMENT, AND POLLUTION CONTROL ADMINISTRATION	1 L.S.	\$ 2,500.00	\$ 2,500.00
P641.020.0000	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL	1 C.S.	\$ 7,500.00	\$ 7,500.00
P641.070.0000	SWPPP MANAGER	1 L.S.	\$ 1,000.00	\$ 1,000.00
T901.020.0000	SEEDING	300 POUND	\$ 55.00	\$ 16,500.00
T905.010.0020	TOPSOILING, CLASS B	2,700 S.Y.	\$ 3.00	\$ 8,100.00

Subtotal Construction **\$ 97,500.00**

Construction Engineering (CENG) Percent/Amount:	20%	\$ 19,500.00
Design Percent/Amount:	12%	\$ 11,700.00
Overall Project Contingency Percent/Amount:	20%	\$ 19,500.00
4 Year Inflation	@ 5%	\$ 21,000.00

Category Subtotal (Pay Items + CENG + Design + Project Contingency + Inflation): **\$ 169,200.00**

Indirect Cost Allocation Plan (ICAP) Percent/Amount: 7.03% **\$ 11,894.76**

Project Estimate Total: \$ 181,094.76

Construct Connecting Taxiway "F"
BCV-NT (5)

2028

ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL PRICE
G100.010.0000	MOBILIZATION AND DEMOBILIZATION	1 L.S.	\$ 20,000.00	\$ 20,000.00
G135.010.0000	CONSTRUCTION SURVEYING BY THE CONTRACTOR	1 L.S.	\$ 5,000.00	\$ 5,000.00
G135.010.0000	CONTRACTOR FURNISHED ENGINEERING TOOLS	1 C.S.	\$ 2,000.00	\$ 2,000.00
G700.040.0000	TRAFFIC CONTROL FOR AIRPORTS	1 L.S.	\$ 10,000.00	\$ 10,000.00
L108.010.2008	UNDERGROUND CABLE #8 AWG, COPPER, 5KV FAA TYPE C, L-824	1,400 EACH	\$ 5.00	\$ 7,000.00
L108.030.0006	#6 BARE COPPER GROUND CONDUCTOR	1,400 L.F.	\$ 2.00	\$ 2,800.00
L108.070.0000	GROUND ROD	10 EACH	\$ 230.00	\$ 2,300.00
L110.030.1002	RIGID STEEL CONDUIT, 2-INCH	1,400 L.F.	\$ 50.00	\$ 70,000.00
L125.040.0000	TAXIWAY EDGE LIGHT, L-861-T	10 EACH	\$ 2,500.00	\$ 25,000.00
L125.130.0000	AIRPORT SIGN, L-858	4 EACH	\$ 10,000.00	\$ 40,000.00
L125.500.0000	MISCELLANEOUS AIRPORT ELECTRICAL WORK	1 C.S.	\$ 5,000.00	\$ 5,000.00
P152.010.0000	UNCLASSIFIED EXCAVATION	2,100 C.Y.	\$ 15.00	\$ 31,500.00
P154.020.0000	SUBBASE COURSE	5,500 TON	\$ 25.00	\$ 137,500.00
P170.020.0000	SOIL TESTING PROGRAM	1 C.S.	\$ 7,500.00	\$ 7,500.00
P209.020.0000	CRUSHED AGGREGATE BASE COURSE	500 TON	\$ 30.00	\$ 15,000.00
P299.020.0000	CRUSHED AGGREGATE SURFACE COURSE	1,400 TON	\$ 50.00	\$ 70,000.00
P401.010.0030	HOT MIX ASPHALT TYPE II, CLASS A	200 TON	\$ 150.00	\$ 30,000.00
P401.020.5828	ASPHALT BINDER, PG 58-28	11 TON	\$ 1,000.00	\$ 10,600.00
P620.010.0000	RUNWAY AND TAXIWAY PAINTING	1 L.S.	\$ 10,000.00	\$ 10,000.00
P641.010.0000	EROSION, SEDIMENT, AND POLLUTION CONTROL ADMINISTRATION	1 L.S.	\$ 2,500.00	\$ 2,500.00
P641.020.0000	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL	1 C.S.	\$ 10,000.00	\$ 10,000.00
P641.070.0000	SWPPP MANAGER	1 L.S.	\$ 1,000.00	\$ 1,000.00
T901.020.0000	SEEDING	100 POUND	\$ 55.00	\$ 5,500.00
T905.010.0020	TOPSOILING, CLASS B	1,000 S.Y.	\$ 3.00	\$ 3,000.00

Subtotal Construction \$ 523,200.00

Construction Engineering (CENG) Percent/Amount:	20%	\$ 104,640.00
Design Percent/Amount:	12%	\$ 62,784.00
Overall Project Contingency Percent/Amount:	20%	\$ 104,640.00
4 Year Inflation	@ 5%	\$ 112,800.00

Category Subtotal (Pay Items + CENG + Design + Project Contingency + Inflation): \$ 908,064.00

Indirect Cost Allocation Plan (ICAP) Percent/Amount: 7.03% \$ 63,836.90

Project Estimate Total: \$ 971,900.90

Install Supplemental Wind Cone
BCV-NT (6)

2028

ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL PRICE
G100.010.0000	MOBILIZATION AND DEMOBILIZATION	1 L.S.	\$ 10,000.00	\$ 10,000.00
G135.010.0000	CONSTRUCTION SURVEYING BY THE CONTRACTOR	1 L.S.	\$ 2,000.00	\$ 2,000.00
G135.010.0000	CONTRACTOR FURNISHED ENGINEERING TOOLS	1 C.S.	\$ 2,000.00	\$ 2,000.00
G700.040.0000	TRAFFIC CONTROL FOR AIRPORTS	1 L.S.	\$ 2,000.00	\$ 2,000.00
L107.011.0008	8-FEET LIGHTED WIND CONE, SUPPLEMENTAL, IN PLACE	1 EACH	\$ 25,000.00	\$ 25,000.00
L125.500.0000	MISCELLANEOUS AIRPORT ELECTRICAL WORK	1 C.S.	\$ 5,000.00	\$ 5,000.00
P641.010.0000	EROSION, SEDIMENT, AND POLLUTION CONTROL ADMINISTRATION	1 L.S.	\$ 3,000.00	\$ 3,000.00
P641.020.0000	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL	1 C.S.	\$ 10,000.00	\$ 10,000.00
P641.070.0000	SWPPP MANAGER	1 L.S.	\$ 1,000.00	\$ 1,000.00
T901.020.0000	SEEDING	30 POUND	\$ 55.00	\$ 1,650.00
T905.010.0020	TOPSOILING, CLASS B	300 S.Y.	\$ 3.00	\$ 900.00
Subtotal Construction				\$ 62,600.00

Construction Engineering (CENG) Percent/Amount:	20%	\$ 12,520.00
Design Percent/Amount:	12%	\$ 7,512.00
Overall Project Contingency Percent/Amount:	20%	\$ 12,520.00
4 Year Inflation	@ 5%	\$ 13,500.00

Category Subtotal (Pay Items + CENG + Design + Project Contingency + Inflation): \$ 108,652.00

Indirect Cost Allocation Plan (ICAP) Percent/Amount: 7.03% \$ 7,638.24

Project Estimate Total: \$ 116,290.24

Reconstruct Runway 03G/21G (1,800'x60')
BCV-NT (7)

2028

ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL PRICE
G100.010.0000	MOBILIZATION AND DEMOBILIZATION	1 L.S.	\$ 40,000.00	\$ 40,000.00
G135.010.0000	CONSTRUCTION SURVEYING BY THE CONTRACTOR	1 L.S.	\$ 14,000.00	\$ 14,000.00
G135.010.0000	CONTRACTOR FURNISHED ENGINEERING TOOLS	1 C.S.	\$ 4,000.00	\$ 4,000.00
G700.040.0000	TRAFFIC CONTROL FOR AIRPORTS	1 L.S.	\$ 27,000.00	\$ 27,000.00
P152.010.0000	UNCLASSIFIED EXCAVATION	11,100 C.Y.	\$ 15.00	\$ 166,500.00
P154.020.0000	SUBBASE COURSE	7,000 TON	\$ 25.00	\$ 175,000.00
P161.010.0000	RECYCLED ASPHALT PAVEMENT	5,100 S.Y.	\$ 40.00	\$ 204,000.00
P170.020.0000	SOIL TESTING PROGRAM	1 C.S.	\$ 20,000.00	\$ 20,000.00
P299.020.0000	CRUSHED AGGREGATE SURFACE COURSE	13,200 TON	\$ 50.00	\$ 660,000.00
P660.030.0000	REFLECTIVE MARKER, TYPE II	46 EACH	\$ 200.00	\$ 9,200.00
P641.010.0000	EROSION, SEDIMENT, AND POLLUTION CONTROL ADMINISTRATION	1 L.S.	\$ 10,000.00	\$ 10,000.00
P641.020.0000	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL	1 C.S.	\$ 40,000.00	\$ 40,000.00
P641.070.0000	SWPPP MANAGER	1 L.S.	\$ 2,000.00	\$ 2,000.00
T901.020.0000	SEEDING	1,200 POUND	\$ 55.00	\$ 66,000.00
T905.010.0020	TOPSOILING, CLASS B	10,800 S.Y.	\$ 3.00	\$ 32,400.00

Subtotal Construction **\$ 1,470,100.00**

Construction Engineering (CENG) Percent/Amount:	20%	\$ 294,020.00
Design Percent/Amount:	12%	\$ 176,412.00
Overall Project Contingency Percent/Amount:	20%	\$ 294,020.00
4 Years Inflation	@ 5%	\$ 316,800.00

Category Subtotal (Pay Items + CENG + Design + Project Contingency + Inflation): **\$ 2,551,352.00**

Indirect Cost Allocation Plan (ICAP) Percent/Amount: 7.03% **\$ 179,360.05**

Project Estimate Total: \$ 2,730,712.05

Expand Northeast Apron
BCV-NT (8)

2028

ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL PRICE
G100.010.0000	MOBILIZATION AND DEMOBILIZATION	1 L.S.	\$ 50,000.00	\$ 50,000.00
G135.010.0000	CONSTRUCTION SURVEYING BY THE CONTRACTOR	1 L.S.	\$ 15,000.00	\$ 15,000.00
G135.010.0000	CONTRACTOR FURNISHED ENGINEERING TOOLS	1 C.S.	\$ 4,000.00	\$ 4,000.00
G700.040.0000	TRAFFIC CONTROL FOR AIRPORTS	1 L.S.	\$ 30,000.00	\$ 30,000.00
L125.130.0000	AIRPORT SIGN, L-858	2 EACH	\$ 10,000.00	\$ 20,000.00
L125.500.0000	MISCELLANEOUS AIRPORT ELECTRICAL WORK	1 L.S.	\$ 100,000.00	\$ 100,000.00
L150.010.0000	WEATHERPROOF OUTLETS	1 L.S.	\$ 40,000.00	\$ 40,000.00
P152.010.0000	UNCLASSIFIED EXCAVATION	5,200 C.Y.	\$ 15.00	\$ 78,000.00
P154.020.0000	SUBBASE COURSE	24,000 TON	\$ 25.00	\$ 600,000.00
P170.020.0000	SOIL TESTING PROGRAM	1 C.S.	\$ 10,000.00	\$ 10,000.00
P209.020.0000	CRUSHED AGGREGATE BASE COURSE	4,800 TON	\$ 30.00	\$ 144,000.00
P401.010.0030	HOT MIX ASPHALT TYPE II, CLASS A	1,700 TON	\$ 150.00	\$ 255,000.00
P401.020.5828	ASPHALT BINDER, PG 58-28	90 TON	\$ 1,000.00	\$ 90,100.00
P620.020.0000	RUNWAY AND TAXIWAY PAINTING	1 L.S.	\$ 8,000.00	\$ 8,000.00
P641.010.0000	EROSION, SEDIMENT, AND POLLUTION CONTROL ADMINISTRATION	1 L.S.	\$ 7,000.00	\$ 7,000.00
P641.020.0000	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL	1 L.S.	\$ 20,000.00	\$ 20,000.00
P641.070.0000	SWPPP MANAGER	1 L.S.	\$ 2,000.00	\$ 2,000.00
P650.010.0000	AIRCRAFT TIE-DOWN	13 EACH	\$ 1,500.00	\$ 19,500.00
P681.020.0000	GEOTEXTILE, STABILIZATION	15,500 S.Y.	\$ 3.50	\$ 54,250.00
T901.020.0000	SEEDING	200 EACH	\$ 55.00	\$ 11,000.00
T905.010.0020	TOPSOILING, CLASS B	1,600 S.Y.	\$ 3.00	\$ 4,800.00

Subtotal Construction **\$ 1,562,700.00**

Construction Engineering (CENG) Percent/Amount: 20% \$ 312,540.00

Design Percent/Amount: 12% \$ 187,524.00

Overall Project Contingency Percent/Amount: 20% \$ 312,540.00

4 Years Inflation @ 5% \$ 336,800.00

Category Subtotal (Pay Items + CENG + Design + Project Contingency + Inflation): \$ 2,712,104.00

Indirect Cost Allocation Plan (ICAP) Percent/Amount: 7.03% \$ 190,660.91

Project Estimate Total: \$ 2,902,764.91

Construct Summer Tie Down/Winter Snow Storage Area
BCV-NT (9)

2028

ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL PRICE
G100.010.0000	MOBILIZATION AND DEMOBILIZATION	1 L.S.	\$ 20,000.00	\$ 20,000.00
G135.010.0000	CONSTRUCTION SURVEYING BY THE CONTRACTOR	1 L.S.	\$ 4,000.00	\$ 4,000.00
G135.010.0000	CONTRACTOR FURNISHED ENGINEERING TOOLS	1 C.S.	\$ 1,000.00	\$ 1,000.00
G700.040.0000	TRAFFIC CONTROL FOR AIRPORTS	1 L.S.	\$ 8,000.00	\$ 8,000.00
P152.010.0000	UNCLASSIFIED EXCAVATION	1,500 C.Y.	\$ 15.00	\$ 22,500.00
P154.020.0000	SUBBASE COURSE	6,000 TON	\$ 25.00	\$ 150,000.00
P170.020.0000	SOIL TESTING PROGRAM	1 C.S.	\$ 10,000.00	\$ 10,000.00
P299.020.0000	CRUSHED AGGREGATE SURFACE COURSE	2,700 TON	\$ 50.00	\$ 135,000.00
P641.010.0000	EROSION, SEDIMENT, AND POLLUTION CONTROL ADMINISTRATION	1 L.S.	\$ 6,000.00	\$ 6,000.00
P641.020.0000	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL	1 C.S.	\$ 10,000.00	\$ 10,000.00
P641.070.0000	SWPPP MANAGER	1 L.S.	\$ 1,500.00	\$ 1,500.00
P650.010.0000	AIRCRAFT TIE-DOWN	8 EACH	\$ 1,500.00	\$ 12,000.00
P681.020.0000	GEOTEXTILE, STABILIZATION	4,500 S.Y.	\$ 3.50	\$ 15,750.00
T901.020.0000	SEEDING	110 POUND	\$ 55.00	\$ 6,050.00
T905.010.0020	TOPSOILING, CLASS B	1,050 S.Y.	\$ 3.00	\$ 3,150.00
Subtotal Construction				\$ 405,000.00
Construction Engineering (CENG) Percent/Amount:			20%	\$ 81,000.00
Design Percent/Amount:			12%	\$ 48,600.00
Overall Project Contingency Percent/Amount:			20%	\$ 81,000.00
4 Years Inflation			@ 5%	\$ 87,300.00
Category Subtotal (Pay Items + CENG + Design + Project Contingency + Inflation):				\$ 702,900.00
Indirect Cost Allocation Plan (ICAP) Percent/Amount:			7.03%	\$ 49,413.87
Project Estimate Total:				\$ 752,313.87

RPZ Land Acquisition
BCV-NT (10)

Est Earliest Date of Acquisition **2028**

ITEM	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL PRICE
1	1 L.S.	RPZ Land Acquisition - 9.5 Acres	\$ 120,000	\$ 120,000
		Subtotal		\$120,000
		Land Acquisition	0%	\$ -
		DOT&PF Administration	5%	\$ 6,000
		Acquisition Services & Appraisal	12%	\$ 14,400
		Construction Management	0%	\$ -
		Project Contingency	20%	\$ 24,000
		4 Years Inflation	@ 5%	\$ 25,900
		Estimated Total		\$ 190,300

Trim Trees in Avigation Easements That Are Existing Obstructions
BCV-NT (11)

2028

ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL PRICE
G100.010.0000	MOBILIZATION AND DEMOBILIZATION	1 L.S.	\$ 10,000.00	\$ 10,000.00
G135.010.0000	CONSTRUCTION SURVEYING BY THE CONTRACTOR	1 L.S.	\$ 10,000.00	\$ 10,000.00
G135.010.0000	CONTRACTOR FURNISHED ENGINEERING TOOLS	1 C.S.	\$ 5,000.00	\$ 5,000.00
G700.040.0000	TRAFFIC CONTROL FOR AIRPORTS	1 L.S.	\$ 5,000.00	\$ 5,000.00
L125.500.0000	MISCELLANEOUS AIRPORT ELECTRICAL WORK	1 L.S.	\$ 10,000.00	\$ 10,000.00
P151.050.0000	SELECTIVE TREE REMOVAL	90 EACH	\$ 700.00	\$ 63,000.00
Subtotal Construction				\$ 103,000.00

Construction Engineering (CENG) Percent/Amount:	20%	\$ 20,600.00
Design Percent/Amount:	12%	\$ 12,360.00
Overall Project Contingency Percent/Amount:	20%	\$ 20,600.00
4 Years Inflation	@ 5%	\$ 22,200.00

Category Subtotal (Pay Items + CENG + Design + Project Contingency + Inflation): \$ 178,760.00

Indirect Cost Allocation Plan (ICAP) Percent/Amount: 7.03% \$ 12,566.83

Project Estimate Total: \$ 191,326.83

Construct New Perimeter Fencing
BCV-NT (12)

2028

ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL PRICE
F162.010.0008	8-FEET CHAIN-LINK FENCE	3,000 L.S.	\$ 40.00	\$ 120,000.00
F162.190.0000	REMOVE FENCE	300 L.F.	\$ 15.00	\$ 4,500.00
G100.010.0000	MOBILIZATION AND DEMOBILIZATION	1 L.S.	\$ 10,000.00	\$ 10,000.00
G135.010.0000	CONSTRUCTION SURVEYING BY THE CONTRACTOR	1 L.S.	\$ 2,000.00	\$ 2,000.00
G135.010.0000	CONTRACTOR FURNISHED ENGINEERING TOOLS	1 C.S.	\$ 1,000.00	\$ 1,000.00
G700.040.0000	TRAFFIC CONTROL FOR AIRPORTS	1 L.S.	\$ 2,000.00	\$ 2,000.00
P151.030.0000	CLEARING & GRUBBING	1.0 ACRE	\$ 10,000.00	\$ 10,000.00
P641.010.0000	EROSION, SEDIMENT, AND POLLUTION CONTROL ADMINISTRATION	1 L.S.	\$ 3,000.00	\$ 3,000.00
P641.050.0000	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL	1 C.S.	\$ 20,000.00	\$ 20,000.00
P641.070.0000	SWPPP MANAGER	1 L.S.	\$ 2,000.00	\$ 2,000.00
T901.020.0000	SEEDING	400 POUND	\$ 55.00	\$ 22,000.00
T905.010.0000	TOPSOILING, CLASS B	2,800 S.Y.	\$ 3.00	\$ 8,400.00

Subtotal Construction \$ 204,900.00

Construction Engineering (CENG) Percent/Amount:	20%	\$ 40,980.00
Design Percent/Amount:	12%	\$ 24,588.00
Overall Project Contingency Percent/Amount:	20%	\$ 40,980.00
4 Years Inflation	@ 5%	\$ 44,200.00

Category Subtotal (Pay Items + CENG + Design + Project Contingency + Inflation): \$ 355,648.00

Indirect Cost Allocation Plan (ICAP) Percent/Amount: 7.03% \$ 25,002.05

Project Estimate Total: \$ 380,650.05

Rehabilitate Runway 03/21 Edge Lighting
BCV-NT (13)

2028

ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL PRICE
G100.010.0000	MOBILIZATION AND DEMOBILIZATION	1 L.S.	\$ 42,000.00	\$ 42,000.00
G135.010.0000	CONSTRUCTION SURVEYING BY THE CONTRACTOR	1 L.S.	\$ 14,000.00	\$ 14,000.00
G135.010.0000	CONTRACTOR FURNISHED ENGINEERING TOOLS	1 C.S.	\$ 4,000.00	\$ 4,000.00
G700.040.0000	TRAFFIC CONTROL FOR AIRPORTS	1 L.S.	\$ 28,000.00	\$ 28,000.00
L108.010.2008	UNDERGROUND CABLE #8 AWG, COPPER, 5KV FAA TYPE C, L-824	10,000 L.F.	\$ 5.00	\$ 50,000.00
L108.030.0006	#6 BARE COPPER GROUND CONDUCTOR	10,000 L.F.	\$ 2.00	\$ 20,000.00
L108.070.0000	GROUND ROD	50 EACH	\$ 230.00	\$ 11,500.00
L109.030.0000	ELECTRICAL ENCLOSURE AND FOUNDATION IN PLACE	1 EACH	\$ 300,000.00	\$ 300,000.00
L110.030.1002	RIGID STEEL CONDUIT, 2-INCH	9,900 L.F.	\$ 50.00	\$ 495,000.00
L125.030.0000	MEDIUM INTENSITY RUNWAY EDGE AND THRESHOLD LIGHT, L-861 AND L-861E	60 EACH	\$ 2,800.00	\$ 168,000.00
L125.070.0000	REMOVE RUNWAY AND TAXIWAY LIGHT	50 EACH	\$ 750.00	\$ 37,500.00
L125.110.0000	RELOCATE EXISTING AIRPORT SIGN, TYPE L-858	4 EACH	\$ 3,500.00	\$ 14,000.00
L125.130.0000	AIRPORT SIGN, L-858	4 EACH	\$ 10,000.00	\$ 40,000.00
L125.180.0000	TEMPORARY RUNWAY LIGHTING SYSTEM	1 L.S.	\$ 50,000.00	\$ 50,000.00
L125.500.0000	MISCELLANEOUS AIRPORT ELECTRICAL WORK	1 C.S.	\$ 35,580.00	\$ 35,580.00
P152.010.0000	UNCLASSIFIED EXCAVATION	1,400 C.Y.	\$ 15.00	\$ 21,000.00
P160.010.0000	EXCAVATION OF PAVEMENT	900 S.Y.	\$ 6.00	\$ 5,400.00
P401.010.0030	HOT MIX ASPHALT TYPE II, CLASS A	50 TON	\$ 150.00	\$ 7,500.00
P401.020.5828	ASPHALT BINDER, PG 58-28	3 TON	\$ 1,000.00	\$ 2,650.00
P641.010.0000	EROSION, SEDIMENT, AND POLLUTION CONTROL ADMINISTRATION	1 L.S.	\$ 20,000.00	\$ 20,000.00
P641.020.0000	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL	1 L.S.	\$ 30,000.00	\$ 30,000.00
P641.070.0000	SWPPP MANAGER	1 L.S.	\$ 5,000.00	\$ 5,000.00
T901.020.0000	SEEDING	700 POUND	\$ 55.00	\$ 38,500.00
T905.010.0020	TOPSOILING, CLASS B	6,800 S.Y.	\$ 3.00	\$ 20,400.00

Subtotal Construction **\$ 1,460,000.00**

Construction Engineering (CENG) Percent/Amount:	20%	\$ 292,000.00
Design Percent/Amount:	12%	\$ 175,200.00
Overall Project Contingency Percent/Amount:	20%	\$ 292,000.00
4 Years Inflation	@ 5%	\$ 314,600.00

Category Subtotal (Pay Items + CENG + Design + Project Contingency + Inflation): **\$ 2,533,800.00**

Indirect Cost Allocation Plan (ICAP) Percent/Amount: 7.03% **\$ 178,126.14**

Project Estimate Total: \$ 2,711,926.14

Install PAPIs on Runway 03/21
BCV-NT (14)

2028

ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL PRICE
G100.010.0000	MOBILIZATION AND DEMOBILIZATION	1 L.S.	\$ 10,000.00	\$ 10,000.00
G135.010.0000	CONSTRUCTION SURVEYING BY THE CONTRACTOR	1 L.S.	\$ 3,000.00	\$ 3,000.00
G135.010.0000	CONTRACTOR FURNISHED ENGINEERING TOOLS	1 C.S.	\$ 13,000.00	\$ 13,000.00
G700.040.0000	TRAFFIC CONTROL FOR AIRPORTS	1 L.S.	\$ 13,000.00	\$ 13,000.00
L125.500.0000	MISCELLANEOUS AIRPORT ELECTRICAL WORK	1 C.S.	\$ 6,000.00	\$ 6,000.00
L132.010.0010	INSTALL APPROACH LIGHTING AIDS, PAPI	1 L.S.	\$ 150,000.00	\$ 150,000.00
L132.020.0010	REMOVE APPROACH LIGHTING AIDS, PAPI (VASI)	1 L.S.	\$ 25,000.00	\$ 25,000.00
P152.010.0000	UNCLASSIFIED EXCAVATION	600 C.Y.	\$ 15.00	\$ 9,000.00
P154.020.0000	SUBBASE COURSE	1,700 TON	\$ 25.00	\$ 42,500.00
P641.010.0000	EROSION, SEDIMENT, AND POLLUTION CONTROL ADMINISTRATION	1 L.S.	\$ 3,000.00	\$ 3,000.00
P641.020.0000	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL	1 C.S.	\$ 10,000.00	\$ 10,000.00
P641.070.0000	SWPPP MANAGER	1 L.S.	\$ 1,000.00	\$ 1,000.00
T901.020.0000	SEEDING	60 POUND	\$ 55.00	\$ 3,300.00
T905.010.0020	TOPSOILING, CLASS B	500 S.Y.	\$ 3.00	\$ 1,500.00

Subtotal Construction **\$ 290,300.00**

Construction Engineering (CENG) Percent/Amount:	20%	\$ 58,060.00
Design Percent/Amount:	12%	\$ 34,836.00
Overall Project Contingency Percent/Amount:	20%	\$ 58,060.00
4 Years Inflation	@ 5%	\$ 62,600.00

Category Subtotal (Pay Items + CENG + Design + Project Contingency + Inflation): **\$ 503,856.00**

Indirect Cost Allocation Plan (ICAP) Percent/Amount: 7.03% **\$ 35,421.08**

Project Estimate Total: \$ 539,277.08

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BIRCHWOOD AIRPORT
Mid-Term Airport Capital Improvement Projects (6 to 10 Years)
Apron Access and Parking Improvements

Project	Title	Total Project Estimate (\$)	Fiscal Year	AIP Funding (\$)	Sponsor Share (\$)	Fig. 2: Mid-Term Project Callout
BCV-MT-1	Construct Glider Staging Area / Aircraft Run-Up Area	533,500	2033	500,156	33,344	MT-1
BCV-MT-2	Pave Apron Area Between Taxiway "B" and Lease Lots	794,500	2033	744,844	49,656	MT-2
BCV-MT-3	Realign Access Road	1,583,500	2033	1,484,531	98,969	MT-3
BCV-MT-4	Construct Northeast Apron Vehicle Parking Area	752,000	2033	705,000	47,000	MT-4
BCV-MT-5	Construct Southeast Apron Vehicle Parking Area	228,500	2033	214,219	14,281	MT-5
Mid-Term Project Group Total:		3,892,000		3,648,750	243,250	

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Construct Glider Staging Area/Aircraft Run-Up Area
BCV-MT (1)

2033

ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL PRICE
G100.010.0000	MOBILIZATION AND DEMOBILIZATION	1 L.S.	\$ 10,000.00	\$ 10,000.00
G135.010.0000	CONSTRUCTION SURVEYING BY THE CONTRACTOR	1 L.S.	\$ 3,000.00	\$ 3,000.00
G135.010.0000	CONTRACTOR FURNISHED ENGINEERING TOOLS	1 C.S.	\$ 1,000.00	\$ 1,000.00
G700.040.0000	TRAFFIC CONTROL FOR AIRPORTS	1 L.S.	\$ 3,000.00	\$ 3,000.00
L125.500.0000	MISCELLANEOUS AIRPORT ELECTRICAL WORK	1 C.S.	\$ 2,000.00	\$ 2,000.00
P152.010.0000	UNCLASSIFIED EXCAVATION	1,200 C.Y.	\$ 20.00	\$ 24,000.00
P154.020.0000	SUBBASE COURSE	3,500 TON	\$ 25.00	\$ 87,500.00
P170.020.0000	SOIL TESTING PROGRAM	1 C.S.	\$ 10,000.00	\$ 10,000.00
P209.020.0000	CRUSHED AGGREGATE BASE COURSE	500 TON	\$ 30.00	\$ 15,000.00
P299.020.0000	CRUSHED AGGREGATE SURFACE COURSE	200 TON	\$ 50.00	\$ 10,000.00
P401.010.0030	HOT MIX ASPHALT TYPE II, CLASS A	300 TON	\$ 150.00	\$ 45,000.00
P401.020.5828	ASPHALT BINDER, PG 58-28	16 TON	\$ 1,000.00	\$ 15,900.00
P620.010.0000	RUNWAY AND TAXIWAY PAINTING	1 L.S.	\$ 5,000.00	\$ 5,000.00
P641.010.0000	EROSION, SEDIMENT, AND POLLUTION CONTROL ADMINISTRATION	1 L.S.	\$ 2,000.00	\$ 2,000.00
P641.020.0000	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL	1 C.S.	\$ 10,000.00	\$ 10,000.00
P641.070.0000	SWPPP MANAGER	1 L.S.	\$ 1,000.00	\$ 1,000.00
P681.020.0000	GEOTEXTILE, STABILIZATION	2,700 S.Y.	\$ 3.50	\$ 9,450.00
T901.020.0000	SEEDING	30 POUND	\$ 55.00	\$ 1,650.00
T905.010.0020	TOPSOILING, CLASS B	300 S.Y.	\$ 3.00	\$ 900.00
Subtotal Construction				\$ 256,400.00

Construction Engineering (CENG) Percent/Amount:	20%	\$ 51,280.00
Design Percent/Amount:	12%	\$ 30,768.00
Overall Project Contingency Percent/Amount:	20%	\$ 51,280.00
9 Years Inflation	@ 4%	\$ 108,500.00

Category Subtotal (Pay Items + CENG + Design + Project Contingency + Inflation): \$ 498,228.00

Indirect Cost Allocation Plan (ICAP) Percent/Amount: 7.03% \$ 35,025.43

Project Estimate Total: \$ 533,253.43

**Pave Apron Area Between Taxiway "B" and Lease Lots
BCV-MT (2)**

2033

ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL PRICE
G100.010.0000	MOBILIZATION AND DEMOBILIZATION	1 L.S.	\$ 20,000.00	\$ 20,000.00
G135.010.0000	CONSTRUCTION SURVEYING BY THE CONTRACTOR	1 L.S.	\$ 4,000.00	\$ 4,000.00
G135.010.0000	CONTRACTOR FURNISHED ENGINEERING TOOLS	1 C.S.	\$ 1,000.00	\$ 1,000.00
G700.040.0000	TRAFFIC CONTROL FOR AIRPORTS	1 L.S.	\$ 4,000.00	\$ 4,000.00
L125.500.0000	MISCELLANEOUS AIRPORT ELECTRICAL WORK	1 C.S.	\$ 2,000.00	\$ 2,000.00
P152.010.0000	UNCLASSIFIED EXCAVATION	2,500 C.Y.	\$ 15.00	\$ 37,500.00
P154.020.0000	SUBBASE COURSE	2,500 TON	\$ 25.00	\$ 62,500.00
P170.020.0000	SOIL TESTING PROGRAM	1 C.S.	\$ 5,000.00	\$ 5,000.00
P209.020.0000	CRUSHED AGGREGATE BASE COURSE	1,600 TON	\$ 30.00	\$ 48,000.00
P299.020.0000	CRUSHED AGGREGATE SURFACE COURSE	100 TON	\$ 50.00	\$ 5,000.00
P401.010.0030	HOT MIX ASPHALT TYPE II, CLASS A	900 TON	\$ 150.00	\$ 135,000.00
P401.020.5828	ASPHALT BINDER, PG 58-28	48 TON	\$ 1,000.00	\$ 47,700.00
P620.010.0000	RUNWAY AND TAXIWAY PAINTING	1 L.S.	\$ 2,500.00	\$ 2,500.00
P641.010.0000	EROSION, SEDIMENT, AND POLLUTION CONTROL ADMINISTRATION	1 L.S.	\$ 1,500.00	\$ 1,500.00
P641.020.0000	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL	1 C.S.	\$ 5,000.00	\$ 5,000.00
P641.070.0000	SWPPP MANAGER	1 L.S.	\$ 1,000.00	\$ 1,000.00

Subtotal Construction \$ 381,700.00

Construction Engineering (CENG) Percent/Amount:	20%	\$ 76,340.00
Design Percent/Amount:	12%	\$ 45,804.00
Overall Project Contingency Percent/Amount:	20%	\$ 76,340.00
9 Years Inflation	@ 4%	\$ 161,600.00

Category Subtotal (Pay Items + CENG + Design + Project Contingency + Inflation): \$ 741,784.00

Indirect Cost Allocation Plan (ICAP) Percent/Amount: 7.03% \$ 52,147.42

Project Estimate Total: \$ 793,931.42

Realign Access Road Outside of Runway 03G/21G OFZ
BCV-MT (3)

2033

ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL PRICE
G100.010.0000	MOBILIZATION AND DEMOBILIZATION	1 L.S.	\$ 30,000.00	\$ 30,000.00
G135.010.0000	CONSTRUCTION SURVEYING BY THE CONTRACTOR	1 L.S.	\$ 8,000.00	\$ 8,000.00
G135.010.0000	CONTRACTOR FURNISHED ENGINEERING TOOLS	1 C.S.	\$ 2,000.00	\$ 2,000.00
G700.040.0000	TRAFFIC CONTROL FOR AIRPORTS	1 L.S.	\$ 4,000.00	\$ 4,000.00
L125.500.0000	MISCELLANEOUS AIRPORT ELECTRICAL WORK	1 L.S.	\$ 20,000.00	\$ 20,000.00
P151.030.0000	CLEARING & GRUBBING	1 ACRE	\$ 10,000.00	\$ 10,000.00
P152.010.0000	UNCLASSIFIED EXCAVATION	2,900 C.Y.	\$ 15.00	\$ 43,500.00
P154.020.0000	SUBBASE COURSE	12,700 TON	\$ 25.00	\$ 317,500.00
P170.020.0000	SOIL TESTING PROGRAM	1 C.S.	\$ 5,000.00	\$ 5,000.00
P209.020.0000	CRUSHED AGGREGATE BASE COURSE	1,900 TON	\$ 30.00	\$ 57,000.00
P401.010.0030	HOT MIX ASPHALT TYPE II, CLASS A	600 TON	\$ 150.00	\$ 90,000.00
P401.020.5828	ASPHALT BINDER, PG 58-28	32 TON	\$ 1,000.00	\$ 31,800.00
P620.080.0000	ROADWAY PAINTING	1 L.S.	\$ 15,000.00	\$ 15,000.00
P641.010.0000	EROSION, SEDIMENT, AND POLLUTION CONTROL ADMINISTRATION	1 L.S.	\$ 10,000.00	\$ 10,000.00
P641.020.0000	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL	1 C.S.	\$ 10,000.00	\$ 10,000.00
P641.070.0000	SWPPP MANAGER	1 L.S.	\$ 2,500.00	\$ 2,500.00
P681.020.0000	GEOTEXTILE, STABILIZATION	7,900 S.Y.	\$ 3.50	\$ 27,650.00
T901.020.0000	SEEDING	1,000 POUND	\$ 55.00	\$ 55,000.00
T905.010.0020	TOPSOILING, CLASS B	9,000 S.Y.	\$ 3.00	\$ 27,000.00
Subtotal Construction				\$ 765,950.00
Construction Engineering (CENG) Percent/Amount:			20%	\$ 153,190.00
Design Percent/Amount:			12%	\$ 91,914.00
Overall Project Contingency Percent/Amount:			20%	\$ 153,190.00
9 Years Inflation			@ 4%	\$ 324,200.00
Category Subtotal (Pay Items + CENG + Design + Project Contingency + Inflation):				\$ 1,488,444.00
Indirect Cost Allocation Plan (ICAP) Percent/Amount:			7.03%	\$ 104,637.61
Project Estimate Total:				\$ 1,593,081.61

Construct Northeast Apron Vehicle Parking Area
BCV-MT (4)

2033

ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL PRICE
G100.010.0000	MOBILIZATION AND DEMOBILIZATION	1 L.S.	\$ 10,000.00	\$ 10,000.00
G135.010.0000	CONSTRUCTION SURVEYING BY THE CONTRACTOR	1 L.S.	\$ 4,000.00	\$ 4,000.00
G135.010.0000	CONTRACTOR FURNISHED ENGINEERING TOOLS	1 C.S.	\$ 1,000.00	\$ 1,000.00
G700.040.0000	TRAFFIC CONTROL FOR AIRPORTS	1 L.S.	\$ 4,000.00	\$ 4,000.00
P152.010.0000	UNCLASSIFIED EXCAVATION	1,400 C.Y.	\$ 15.00	\$ 21,000.00
P154.020.0000	SUBBASE COURSE	6,600 TON	\$ 25.00	\$ 165,000.00
P209.020.0000	CRUSHED AGGREGATE BASE COURSE	700 TON	\$ 30.00	\$ 21,000.00
P401.010.0030	HOT MIX ASPHALT TYPE II, CLASS A	350 TON	\$ 150.00	\$ 52,500.00
P401.020.5828	ASPHALT BINDER, PG 58-28	19 TON	\$ 1,000.00	\$ 18,550.00
P620.080.0000	ROADWAY PAINTING	1 L.S.	\$ 7,000.00	\$ 7,000.00
P641.010.0000	EROSION, SEDIMENT, AND POLLUTION CONTROL ADMINISTRATION	1 L.S.	\$ 1,000.00	\$ 1,000.00
P641.020.0000	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL	1 C.S.	\$ 10,000.00	\$ 10,000.00
P641.070.0000	SWPPP MANAGER	1 L.S.	\$ 500.00	\$ 500.00
P681.020.0000	GEOTEXTILE, STABILIZATION	4,000 S.Y.	\$ 3.50	\$ 14,000.00
T901.020.0000	SEEDING	260 POUND	\$ 55.00	\$ 14,300.00
T905.010.0020	TOPSOILING, CLASS B	2,500 S.Y.	\$ 3.00	\$ 7,500.00
	<i>RESTROOM FACILITIES</i>	1 L.S.	\$ 10,000.00	\$ 10,000.00
Subtotal Construction				\$ 361,400.00
Construction Engineering (CENG) Percent/Amount:			20%	\$ 72,280.00
Design Percent/Amount:			12%	\$ 43,368.00
Overall Project Contingency Percent/Amount:			20%	\$ 72,280.00
9 Years Inflation			@ 4%	\$ 153,000.00
Category Subtotal (Pay Items + CENG + Design + Project Contingency + Inflation):				\$ 702,328.00
Indirect Cost Allocation Plan (ICAP) Percent/Amount:			7.03%	\$ 49,373.66
Project Estimate Total:				\$ 751,701.66

Construct Southeast Apron Vehicle Parking Area
 BCV-MT (5)

2033

ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL PRICE
G100.010.0000	MOBILIZATION AND DEMOBILIZATION	1 L.S.	\$ 10,000.00	\$ 10,000.00
G135.010.0000	CONSTRUCTION SURVEYING BY THE CONTRACTOR	1 L.S.	\$ 1,000.00	\$ 1,000.00
G135.010.0000	CONTRACTOR FURNISHED ENGINEERING TOOLS	1 C.S.	\$ 1,000.00	\$ 1,000.00
G700.040.0000	TRAFFIC CONTROL FOR AIRPORTS	1 L.S.	\$ 1,000.00	\$ 1,000.00
P152.010.0000	UNCLASSIFIED EXCAVATION	800 C.Y.	\$ 15.00	\$ 12,000.00
P154.020.0000	SUBBASE COURSE	700 TON	\$ 25.00	\$ 17,500.00
P209.020.0000	CRUSHED AGGREGATE BASE COURSE	400 TON	\$ 30.00	\$ 12,000.00
P401.010.0030	HOT MIX ASPHALT TYPE II, CLASS A	120 TON	\$ 150.00	\$ 18,000.00
P401.020.5828	ASPHALT BINDER, PG 58-28	6 TON	\$ 1,000.00	\$ 6,360.00
P620.080.0000	ROADWAY PAINTING	1 L.S.	\$ 7,000.00	\$ 7,000.00
P641.010.0000	EROSION, SEDIMENT, AND POLLUTION CONTROL ADMINISTRATION	1 L.S.	\$ 2,500.00	\$ 2,500.00
P641.020.0000	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL BY DIRECTIVE	1 C.S.	\$ 10,000.00	\$ 10,000.00
P641.070.0000	SWPPP MANAGER	1 L.S.	\$ 500.00	\$ 500.00
T901.020.0000	SEEDING	10 POUND	\$ 55.00	\$ 550.00
T905.010.0020	TOPSOILING, CLASS B	100 S.Y.	\$ 3.00	\$ 300.00
	RESTROOM FACILITIES	1 L.S.	\$ 10,000.00	\$ 10,000.00
Subtotal Construction				\$ 109,700.00

Construction Engineering (CENG) Percent/Amount:	20%	\$ 21,940.00
Design Percent/Amount:	12%	\$ 13,164.00
Overall Project Contingency Percent/Amount:	20%	\$ 21,940.00
9 Years Inflation	@ 4%	\$ 46,400.00

Category Subtotal (Pay Items + CENG + Design + Project Contingency + Inflation): \$ 213,144.00

Indirect Cost Allocation Plan (ICAP) Percent/Amount: 7.03% \$ 14,984.02

Project Estimate Total: \$ 228,128.02

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BIRCHWOOD AIRPORT
Long-Term Airport Capital Improvement Projects (10 to 20 Years)
New GA Apron, Lease Areas, and Rehabilitate Runway 03/21

Project	Title	Total Project Estimate (\$)	Fiscal Year	AIP Funding (\$)	Sponsor Share (\$)	Fig. 3: Long-Term Project Callout
BCV-LT-1	Land & Easement Acquisition	1,280,500	2038	1,200,469	80,031	LT-1
BCV-LT-2	Construct New General Aviation Apron	13,490,500	2038	12,647,344	843,156	LT-2
BCV-LT-3	Construct Taxiway "A" Extension	525,000	2038	492,188	32,813	LT-3
BCV-LT-4	Develop Access to New Hangar Lease Lot Area	8,624,000	2038	8,085,000	539,000	LT-4
BCV-LT-5	Extend SE Apron Access Road to New GA Apron and Lease Lot Area	5,546,000	2038	5,199,375	346,625	LT-5
BCV-LT-6	Develop GA Apron Vehicle Parking Area	1,181,500	2038	1,107,656	73,844	LT-6
BCV-LT-7	Construct Access Road Improvements	4,425,500	2038	4,148,906	276,594	LT-7
BCV-LT-8	Construct New Perimeter Fencing	1,370,500	2038	1,284,844	85,656	LT-8
BCV-LT-9	Relocate Weather Station	599,000	2038	561,563	37,438	LT-9
BCV-LT-10	Rehabilitate Runway 03/21	13,175,500	2038	12,352,031	823,469	LT-10
Long-Term Project Group Total:		50,218,000		47,079,375	3,138,625	

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Land Acquisition
 BCV-LT (1)

Est Earliest Date of Acquisition **2038**

ITEM	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL PRICE
1	1 L.S.	Land Acquisition - 38.7 Acres	\$ 485,000	\$ 485,000
2	1 L.S.	Aviation Easement Acquisition - 26.2 Acres	\$ 195,000	\$ 195,000
		Subtotal		\$680,000
		Land Acquisition	0%	\$ -
		DOT&PF Administration	5%	\$ 34,000
		Acquisition Services & Appraisal	12%	\$ 81,600
		Construction Management	0%	\$ -
		Project Contingency	20%	\$ 136,000
		14 Years Inflation	@ 3%	\$ 348,600
		Estimated Total		\$ 1,280,200

Construct New General Aviation Apron
 BCV-LT (2)

2038

ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL PRICE
G100.010.0000	MOBILIZATION AND DEMOBILIZATION	1 L.S.	\$ 180,000.00	\$ 180,000.00
G135.010.0000	CONSTRUCTION SURVEYING BY THE CONTRACTOR	1 L.S.	\$ 59,000.00	\$ 59,000.00
G135.010.0000	CONTRACTOR FURNISHED ENGINEERING TOOLS	1 C.S.	\$ 15,000.00	\$ 15,000.00
G700.040.0000	TRAFFIC CONTROL FOR AIRPORTS	1 L.S.	\$ 59,000.00	\$ 59,000.00
L108.010.2008	UNDERGROUND CABLE #8 AWG, COPPER, 5KV FAA TYPE C, L-824	3,400 L.F.	\$ 5.00	\$ 17,000.00
L108.030.0006	#6 BARE COPPER GROUND CONDUCTOR	3,400 L.F.	\$ 2.00	\$ 6,800.00
L108.070.0000	GROUND ROD	20 EACH	\$ 230.00	\$ 4,600.00
L110.030.1002	RIGID STEEL CONDUIT, 2-INCH	3,400 L.F.	\$ 50.00	\$ 170,000.00
L125.130.0000	AIRPORT SIGN, L-858	2 EACH	\$ 10,000.00	\$ 20,000.00
L125.500.0000	MISCELLANEOUS AIRPORT ELECTRICAL WORK	1 C.S.	\$ 250,000.00	\$ 250,000.00
P151.030.0000	CLEARING & GRUBBING	10 ACRE	\$ 10,000.00	\$ 100,000.00
P152.010.0000	UNCLASSIFIED EXCAVATION	53,200 C.Y.	\$ 15.00	\$ 798,000.00
P152.440.0000	AREA GRADING	4,500 S.Y.	\$ 3.00	\$ 13,500.00
P154.020.0000	SUBBASE COURSE	115,100 TON	\$ 25.00	\$ 2,877,500.00
P209.020.0000	CRUSHED AGGREGATE BASE COURSE	13,000 TON	\$ 30.00	\$ 390,000.00
P401.010.0030	HOT MIX ASPHALT TYPE II, CLASS A	4,400 TON	\$ 150.00	\$ 660,000.00
P401.020.5828	ASPHALT BINDER, PG 58-28	233 TON	\$ 1,000.00	\$ 233,200.00
P620.020.0000	RUNWAY AND TAXIWAY PAINTING	1 L.S.	\$ 20,000.00	\$ 20,000.00
P641.010.0000	EROSION, SEDIMENT, AND POLLUTION CONTROL ADMINISTRATION	1 TON	\$ 15,000.00	\$ 15,000.00
P641.020.0000	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL	1 C.S.	\$ 50,000.00	\$ 50,000.00
P641.070.0000	SWPPP MANAGER	1 L.S.	\$ 5,000.00	\$ 5,000.00
P650.010.0000	AIRCRAFT TIE-DOWN	52 EACH	\$ 1,000.00	\$ 52,000.00
P681.020.0000	GEOTEXTILE, STABILIZATION	39,900 S.Y.	\$ 3.50	\$ 139,650.00
T901.020.0000	SEEDING	800 POUND	\$ 55.00	\$ 44,000.00
T905.010.0020	TOPSOILING, CLASS B	7,200 S.Y.	\$ 3.00	\$ 21,600.00

Subtotal Construction \$ 6,200,900.00

Construction Engineering (CENG) Percent/Amount: 20% \$ 1,240,180.00

Design Percent/Amount: 12% \$ 744,108.00

Overall Project Contingency Percent/Amount: 20% \$ 1,240,180.00

14 Years Inflation @ 3% \$ 3,178,500.00

Category Subtotal (Pay Items + CENG + Design + Project Contingency + Inflation): \$ 12,603,868.00

Indirect Cost Allocation Plan (ICAP) Percent/Amount: 7.03% \$ 886,051.92

Project Estimate Total: \$ 13,489,919.92

Construct Taxiway "A" Extension
 BCV-LT (3)

2038

ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL PRICE
G100.010.0000	MOBILIZATION AND DEMOBILIZATION	1 L.S.	\$ 10,000.00	\$ 10,000.00
G135.010.0000	CONSTRUCTION SURVEYING BY THE CONTRACTOR	1 L.S.	\$ 3,000.00	\$ 3,000.00
G135.010.0000	CONTRACTOR FURNISHED ENGINEERING TOOLS	1 C.S.	\$ 1,000.00	\$ 1,000.00
G700.040.0000	TRAFFIC CONTROL FOR AIRPORTS	1 L.S.	\$ 5,000.00	\$ 5,000.00
L108.010.2008	UNDERGROUND CABLE #8 AWG, COPPER, 5KV FAA TYPE C, L-824	500 L.F.	\$ 5.00	\$ 2,500.00
L108.030.0006	#6 BARE COPPER GROUND CONDUCTOR	500 L.F.	\$ 2.00	\$ 1,000.00
L108.070.0000	GROUND ROD	3 EACH	\$ 230.00	\$ 690.00
L110.030.1002	RIGID STEEL CONDUIT, 2-INCH	500 L.F.	\$ 50.00	\$ 25,000.00
L125.040.0000	TAXIWAY EDGE LIGHT, L-861-T	10 EACH	\$ 2,500.00	\$ 25,000.00
L125.130.0000	AIRPORT SIGN, L-858	2 EACH	\$ 10,000.00	\$ 20,000.00
L125.500.0000	MISCELLANEOUS AIRPORT ELECTRICAL WORK	1 C.S.	\$ 3,000.00	\$ 3,000.00
P152.010.0000	UNCLASSIFIED EXCAVATION	1,200 C.Y.	\$ 15.00	\$ 18,000.00
P154.020.0000	SUBBASE COURSE	1,900 TON	\$ 25.00	\$ 47,500.00
P170.020.0000	SOIL TESTING PROGRAM	1 C.S.	\$ 5,000.00	\$ 5,000.00
P209.020.0000	CRUSHED AGGREGATE BASE COURSE	300 TON	\$ 30.00	\$ 9,000.00
P299.020.0000	CRUSHED AGGREGATE SURFACE COURSE	200 TON	\$ 50.00	\$ 10,000.00
P401.010.0030	HOT MIX ASPHALT TYPE II, CLASS A	100 TON	\$ 150.00	\$ 15,000.00
P401.020.5828	ASPHALT BINDER, PG 58-28	5 TON	\$ 1,000.00	\$ 5,300.00
P620.020.0000	RUNWAY AND TAXIWAY PAINTING	1 L.S.	\$ 10,000.00	\$ 10,000.00
P641.010.0000	EROSION, SEDIMENT, AND POLLUTION CONTROL ADMINISTRATION	1 L.S.	\$ 2,500.00	\$ 2,500.00
P641.020.0000	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL	1 C.S.	\$ 10,000.00	\$ 10,000.00
P641.070.0000	SWPPP MANAGER	1 L.S.	\$ 1,000.00	\$ 1,000.00
P681.020.0000	GEOTEXTILE, STABILIZATION	1,400 S.Y.	\$ 3.50	\$ 4,900.00
T901.020.0000	SEEDING	100 POUND	\$ 55.00	\$ 5,500.00
T905.010.0020	TOPSOILING, CLASS B	400 S.Y.	\$ 3.00	\$ 1,200.00
Subtotal Construction				\$ 241,100.00

Construction Engineering (CENG) Percent/Amount:	20%	\$ 48,220.00
Design Percent/Amount:	12%	\$ 28,932.00
Overall Project Contingency Percent/Amount:	20%	\$ 48,220.00
14 Years Inflation	@ 3%	\$ 123,600.00

Category Subtotal (Pay Items + CENG + Design + Project Contingency + Inflation): \$ 490,072.00

Indirect Cost Allocation Plan (ICAP) Percent/Amount: 7.03% \$ 34,452.06

Project Estimate Total: \$ 524,524.06

Develop Access to New Hangar Lease Lot Area
 BCV-LT (4)

2038

ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL PRICE
G100.010.0000	MOBILIZATION AND DEMOBILIZATION	1 L.S.	\$ 90,000.00	\$ 90,000.00
G135.010.0000	CONSTRUCTION SURVEYING BY THE CONTRACTOR	1 L.S.	\$ 29,000.00	\$ 29,000.00
G135.010.0000	CONTRACTOR FURNISHED ENGINEERING TOOLS	1 C.S.	\$ 8,000.00	\$ 8,000.00
G700.040.0000	TRAFFIC CONTROL FOR AIRPORTS	1 L.S.	\$ 58,000.00	\$ 58,000.00
P151.030.0000	CLEARING & GRUBBING	6 ACRE	\$ 10,000.00	\$ 60,000.00
P152.010.0000	UNCLASSIFIED EXCAVATION	29,700 C.Y.	\$ 15.00	\$ 445,500.00
P154.020.0000	SUBBASE COURSE	64,300 TON	\$ 25.00	\$ 1,607,500.00
P209.020.0000	CRUSHED AGGREGATE BASE COURSE	5,500 TON	\$ 30.00	\$ 165,000.00
P401.010.0030	HOT MIX ASPHALT TYPE II, CLASS A	2,000 TON	\$ 150.00	\$ 300,000.00
P401.020.5828	ASPHALT BINDER, PG 58-28	106 TON	\$ 1,000.00	\$ 106,000.00
P620.020.0000	RUNWAY AND TAXIWAY PAINTING	1 L.S.	\$ 10,000.00	\$ 10,000.00
P620.080.0000	ROADWAY PAINTING	1 L.S.	\$ 2,000.00	\$ 2,000.00
P641.010.0000	EROSION, SEDIMENT, AND POLLUTION CONTROL ADMINISTRATION	1 L.S.	\$ 15,000.00	\$ 15,000.00
P641.020.0000	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL	1 C.S.	\$ 30,000.00	\$ 30,000.00
P641.070.0000	SWPPP MANAGER	1 L.S.	\$ 5,000.00	\$ 5,000.00
P681.020.0000	GEOTEXTILE, STABILIZATION	22,300 S.Y.	\$ 3.50	\$ 78,050.00
T901.020.0000	SEEDING	600 POUND	\$ 55.00	\$ 33,000.00
T905.010.0020	TOPSOILING, CLASS B	5,400 S.Y.	\$ 3.00	\$ 16,200.00
	<i>ELECTRICAL UTILITY EXTENSION</i>	1 L.S.	\$ 446,820.00	\$ 446,820.00
	<i>NATURAL GAS PIPELINE EXTENSION</i>	1 L.S.	\$ 458,850.00	\$ 458,850.00
Subtotal Construction				\$ 3,963,900.00

Construction Engineering (CENG) Percent/Amount:	20%	\$ 792,780.00
Design Percent/Amount:	12%	\$ 475,668.00
Overall Project Contingency Percent/Amount:	20%	\$ 792,780.00
14 Years Inflation	@ 3%	\$ 2,031,900.00

Category Subtotal (Pay Items + CENG + Design + Project Contingency + Inflation): \$ 8,057,028.00

Indirect Cost Allocation Plan (ICAP) Percent/Amount: 7.03% \$ 566,409.07

Project Estimate Total: \$ 8,623,437.07

Extend Southeast Apron Access Road to New GA Apron and Lease Lot Area
 BCV-LT (5)

2038

ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL PRICE
G100.010.0000	MOBILIZATION AND DEMOBILIZATION	1 L.S.	\$ 80,000.00	\$ 80,000.00
G135.010.0000	CONSTRUCTION SURVEYING BY THE CONTRACTOR	1 L.S.	\$ 25,000.00	\$ 25,000.00
G135.010.0000	CONTRACTOR FURNISHED ENGINEERING TOOLS	1 C.S.	\$ 7,000.00	\$ 7,000.00
G700.040.0000	TRAFFIC CONTROL FOR AIRPORTS	1 L.S.	\$ 13,000.00	\$ 13,000.00
L125.500.0000	MISCELLANEOUS AIRPORT ELECTRICAL WORK	1 L.S.	\$ 20,000.00	\$ 20,000.00
L110.080.1002	HDPE CONDUIT, 2-INCH	4,000 L.F.	\$ 12.00	\$ 48,000.00
L108.050.1010	UNDERGROUND CABLE #10 AWG, COPPER, 600V, TYPE C, L-824	8,000 L.F.	\$ 6.00	\$ 48,000.00
L180.010.0000	HIGHWAY LIGHTING SYSTEM COMPLETE FOR AIRPORTS	1 L.S.	\$ 120,000.00	\$ 120,000.00
P151.030.0000	CLEARING & GRUBBING	8 ACRE	\$ 10,000.00	\$ 80,000.00
P152.010.0000	UNCLASSIFIED EXCAVATION	18,100 C.Y.	\$ 15.00	\$ 271,500.00
P154.020.0000	SUBBASE COURSE	50,800 TON	\$ 25.00	\$ 1,270,000.00
P170.020.0000	SOIL TESTING PROGRAM	1 C.S.	\$ 5,000.00	\$ 5,000.00
P209.020.0000	CRUSHED AGGREGATE BASE COURSE	4,000 TON	\$ 30.00	\$ 120,000.00
P401.010.0030	HOT MIX ASPHALT TYPE II, CLASS A	1,200 TON	\$ 150.00	\$ 180,000.00
P401.020.5828	ASPHALT BINDER, PG 58-28	64 TON	\$ 1,000.00	\$ 63,600.00
P620.080.0000	ROADWAY PAINTING	1 L.S.	\$ 15,000.00	\$ 15,000.00
P641.010.0000	EROSION, SEDIMENT, AND POLLUTION CONTROL ADMINISTRATION	1 L.S.	\$ 10,000.00	\$ 10,000.00
P641.020.0000	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL	1 C.S.	\$ 30,000.00	\$ 30,000.00
P641.070.0000	SWPPP MANAGER	1 L.S.	\$ 2,500.00	\$ 2,500.00
P681.020.0000	GEOTEXTILE, STABILIZATION	18,200 S.Y.	\$ 3.50	\$ 63,700.00
T901.020.0000	SEEDING	900 POUND	\$ 55.00	\$ 49,500.00
T905.010.0020	TOPSOILING, CLASS B	9,100 S.Y.	\$ 3.00	\$ 27,300.00

Subtotal Construction \$ 2,549,100.00

Construction Engineering (CENG) Percent/Amount:	20%	\$ 509,820.00
Design Percent/Amount:	12%	\$ 305,892.00
Overall Project Contingency Percent/Amount:	20%	\$ 509,820.00
14 Years Inflation	@ 3%	\$ 1,306,600.00

Category Subtotal (Pay Items + CENG + Design + Project Contingency + Inflation): \$ 5,181,232.00

Indirect Cost Allocation Plan (ICAP) Percent/Amount: 7.03% \$ 364,240.61

Project Estimate Total: \$ 5,545,472.61

Develop GA Apron Vehicle Parking Area
 BCV-LT (6)

2038

ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL PRICE
G100.010.0000	MOBILIZATION AND DEMOBILIZATION	1 L.S.	\$ 20,000.00	\$ 20,000.00
G135.010.0000	CONSTRUCTION SURVEYING BY THE CONTRACTOR	1 L.S.	\$ 6,000.00	\$ 6,000.00
G135.010.0000	CONTRACTOR FURNISHED ENGINEERING TOOLS	1 C.S.	\$ 2,000.00	\$ 2,000.00
G700.040.0000	TRAFFIC CONTROL FOR AIRPORTS	1 L.S.	\$ 6,000.00	\$ 6,000.00
P152.010.0000	UNCLASSIFIED EXCAVATION	5,300 C.Y.	\$ 15.00	\$ 79,500.00
P154.020.0000	SUBBASE COURSE	11,300 TON	\$ 25.00	\$ 282,500.00
P209.020.0000	CRUSHED AGGREGATE BASE COURSE	800 TON	\$ 30.00	\$ 24,000.00
P401.010.0030	HOT MIX ASPHALT TYPE II, CLASS A	300 TON	\$ 150.00	\$ 45,000.00
P401.020.5828	ASPHALT BINDER, PG 58-28	16 TON	\$ 1,000.00	\$ 15,900.00
P620.080.0000	ROADWAY PAINTING	1 L.S.	\$ 10,000.00	\$ 10,000.00
P641.010.0000	EROSION, SEDIMENT, AND POLLUTION CONTROL ADMINISTRATION	1 L.S.	\$ 2,500.00	\$ 2,500.00
P641.050.0000	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL	1 C.S.	\$ 10,000.00	\$ 10,000.00
P641.070.0000	SWPPP MANAGER	1 L.S.	\$ 1,000.00	\$ 1,000.00
P681.020.0000	GEOTEXTILE, STABILIZATION	4,000 S.Y.	\$ 3.50	\$ 14,000.00
T901.020.0000	SEEDING	200 POUND	\$ 55.00	\$ 11,000.00
T905.010.0020	TOPSOILING, CLASS B	1,200 S.Y.	\$ 3.00	\$ 3,600.00
	<i>RESTROOM FACILITIES</i>	1 L.S.	\$ 10,000.00	\$ 10,000.00
Subtotal Construction				\$ 543,000.00
Construction Engineering (CENG) Percent/Amount:			20%	\$ 108,600.00
Design Percent/Amount:			12%	\$ 65,160.00
Overall Project Contingency Percent/Amount:			20%	\$ 108,600.00
14 Years Inflation			@ 3%	\$ 278,300.00
Category Subtotal (Pay Items + CENG + Design + Project Contingency + Inflation):				\$ 1,103,660.00
Indirect Cost Allocation Plan (ICAP) Percent/Amount:			7.03%	\$ 77,587.30

Project Estimate Total: \$ 1,181,247.30

Construct Access Road Improvements
 BCV-LT (7)

2038

ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL PRICE
G100.010.0000	MOBILIZATION AND DEMOBILIZATION	1 L.S.	\$ 60,000.00	\$ 60,000.00
G135.010.0000	CONSTRUCTION SURVEYING BY THE CONTRACTOR	1 L.S.	\$ 20,000.00	\$ 20,000.00
G135.010.0000	CONTRACTOR FURNISHED ENGINEERING TOOLS	1 C.S.	\$ 5,000.00	\$ 5,000.00
G700.040.0000	TRAFFIC CONTROL FOR AIRPORTS	1 L.S.	\$ 10,000.00	\$ 10,000.00
L125.500.0000	MISCELLANEOUS AIRPORT ELECTRICAL WORK	1 L.S.	\$ 20,000.00	\$ 20,000.00
L110.080.1002	HDPE CONDUIT, 2-INCH	3,000 L.F.	\$ 12.00	\$ 36,000.00
L108.050.1010	UNDERGROUND CABLE #10 AWG, COPPER, 600V, TYPE C, L-824	6,000 L.F.	\$ 6.00	\$ 36,000.00
L180.010.0000	HIGHWAY LIGHTING SYSTEM COMPLETE FOR AIRPORTS	1 L.S.	\$ 120,000.00	\$ 120,000.00
P151.030.0000	CLEARING & GRUBBING	8 ACRE	\$ 10,000.00	\$ 80,000.00
P152.010.0000	UNCLASSIFIED EXCAVATION	14,200 C.Y.	\$ 15.00	\$ 213,000.00
P154.020.0000	SUBBASE COURSE	39,800 TON	\$ 25.00	\$ 995,000.00
P170.020.0000	SOIL TESTING PROGRAM	1 C.S.	\$ 5,000.00	\$ 5,000.00
P209.020.0000	CRUSHED AGGREGATE BASE COURSE	3,100 TON	\$ 30.00	\$ 93,000.00
P401.010.0030	HOT MIX ASPHALT TYPE II, CLASS A	900 TON	\$ 150.00	\$ 135,000.00
P401.020.5828	ASPHALT BINDER, PG 58-28	48 TON	\$ 1,000.00	\$ 47,700.00
P620.080.0000	ROADWAY PAINTING	1 L.S.	\$ 15,000.00	\$ 15,000.00
P641.010.0000	EROSION, SEDIMENT, AND POLLUTION CONTROL ADMINISTRATION	1 L.S.	\$ 10,000.00	\$ 10,000.00
P641.020.0000	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL	1 C.S.	\$ 20,000.00	\$ 20,000.00
P641.070.0000	SWPPP MANAGER	1 L.S.	\$ 2,500.00	\$ 2,500.00
P681.020.0000	GEOTEXTILE, STABILIZATION	14,400 S.Y.	\$ 3.50	\$ 50,400.00
T901.020.0000	SEEDING	700 POUND	\$ 55.00	\$ 38,500.00
T905.010.0020	TOPSOILING, CLASS B	7,300 S.Y.	\$ 3.00	\$ 21,900.00

Subtotal Construction \$ 2,034,000.00

Construction Engineering (CENG) Percent/Amount:	20%	\$ 406,800.00
Design Percent/Amount:	12%	\$ 244,080.00
Overall Project Contingency Percent/Amount:	20%	\$ 406,800.00
14 Years Inflation	@ 3%	\$ 1,042,600.00

Category Subtotal (Pay Items + CENG + Design + Project Contingency + Inflation): \$ 4,134,280.00

Indirect Cost Allocation Plan (ICAP) Percent/Amount: 7.03% \$ 290,639.88

Project Estimate Total: \$ 4,424,919.88

Construct New Perimeter Fencing
 BCV-LT (8)

2038

ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL PRICE
F162.010.0008	8-FEET CHAIN-LINK FENCE	9,000 L.S.	\$ 40.00	\$ 360,000.00
F162.190.0000	REMOVE FENCE	7,300 L.F.	\$ 15.00	\$ 109,500.00
G100.010.0000	MOBILIZATION AND DEMOBILIZATION	1 L.S.	\$ 20,000.00	\$ 20,000.00
G135.010.0000	CONSTRUCTION SURVEYING BY THE CONTRACTOR	1 L.S.	\$ 6,000.00	\$ 6,000.00
G135.010.0000	CONTRACTOR FURNISHED ENGINEERING TOOLS	1 C.S.	\$ 2,000.00	\$ 2,000.00
G700.040.0000	TRAFFIC CONTROL FOR AIRPORTS	1 L.S.	\$ 6,000.00	\$ 6,000.00
P151.030.0000	CLEARING & GRUBBING	3 ACRE	\$ 7,000.00	\$ 21,000.00
P641.010.0000	EROSION, SEDIMENT, AND POLLUTION CONTROL ADMINISTRATION	1 L.S.	\$ 3,000.00	\$ 3,000.00
P641.050.0000	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL	1 C.S.	\$ 20,000.00	\$ 20,000.00
P641.070.0000	SWPPP MANAGER	1 L.S.	\$ 2,000.00	\$ 2,000.00
T901.020.0000	SEEDING	1,000 POUND	\$ 55.00	\$ 55,000.00
T905.010.0000	TOPSOILING, CLASS B	8,400 S.Y.	\$ 3.00	\$ 25,200.00

Subtotal Construction \$ 629,700.00

Estimated Total	20%	\$ 125,940.00
Design Percent/Amount:	12%	\$ 75,564.00
Overall Project Contingency Percent/Amount:	20%	\$ 125,940.00
14 Years Inflation	@ 3%	\$ 322,800.00
Category Subtotal (Pay Items + CENG + Design + Project Contingency + Inflation):		\$ 1,279,944.00
Indirect Cost Allocation Plan (ICAP) Percent/Amount:	7.03%	\$ 89,980.06

Project Estimate Total: \$ 1,369,924.06

Relocate Weather Station
 BCV-LT (9)

2038

ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL PRICE
G100.010.0000	MOBILIZATION AND DEMOBILIZATION	1 L.S.	\$ 10,000.00	\$ 10,000.00
G135.010.0000	CONSTRUCTION SURVEYING BY THE CONTRACTOR	1 L.S.	\$ 3,000.00	\$ 3,000.00
G135.010.0000	CONTRACTOR FURNISHED ENGINEERING TOOLS	1 C.S.	\$ 1,000.00	\$ 1,000.00
G700.040.0000	TRAFFIC CONTROL FOR AIRPORTS	1 L.S.	\$ 3,000.00	\$ 3,000.00
L125.500.0000	MISCELLANEOUS AIRPORT ELECTRICAL WORK	1 C.S.	\$ 10,000.00	\$ 30,000.00
P151.030.0000	CLEARING & GRUBBING	1 ACRE	\$ 10,000.00	\$ 10,000.00
P152.010.0000	UNCLASSIFIED EXCAVATION	200 C.Y.	\$ 25.00	\$ 5,000.00
P160.010.0000	EXCAVATION OF PAVEMENT	200 S.Y.	\$ 6.00	\$ 1,200.00
P209.020.0000	CRUSHED AGGREGATE BASE COURSE	100 TON	\$ 30.00	\$ 3,000.00
P401.010.0030	HOT MIX ASPHALT TYPE II, CLASS A	100 TON	\$ 150.00	\$ 15,000.00
P401.020.5828	ASPHALT BINDER, PG 58-28	5 TON	\$ 1,000.00	\$ 5,300.00
P620.020.0000	RUNWAY AND TAXIWAY PAINTING	1 L.S.	\$ 5,000.00	\$ 5,000.00
P641.010.0000	EROSION, SEDIMENT, AND POLLUTION CONTROL ADMINISTRATION	1 L.S.	\$ 6,000.00	\$ 6,000.00
P641.020.0000	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL	1 C.S.	\$ 10,000.00	\$ 10,000.00
P641.070.0000	SWPPP MANAGER	1 L.S.	\$ 1,500.00	\$ 1,500.00
T901.020.0000	SEEDING	200 POUND	\$ 55.00	\$ 11,000.00
T905.010.0020	TOPSOILING, CLASS B	1,700 S.Y.	\$ 3.00	\$ 5,100.00
	<i>AWOS RELOCATION</i>	1 L.S.	\$ 150,000.00	\$ 150,000.00
Subtotal Construction				\$ 275,100.00
Construction Engineering (CENG) Percent/Amount:			20%	\$ 55,020.00
Design Percent/Amount:			12%	\$ 33,012.00
Overall Project Contingency Percent/Amount:			20%	\$ 55,020.00
14 Years Inflation			@ 3%	\$ 141,000.00
Category Subtotal (Pay Items + CENG + Design + Project Contingency + Inflation):				\$ 559,152.00
Indirect Cost Allocation Plan (ICAP) Percent/Amount:			7.03%	\$ 39,308.39
Project Estimate Total:				\$ 598,460.39

Rehabilitate Runway 03/21
 BCV-LT (10)

2038

ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL PRICE
G100.010.0000	MOBILIZATION AND DEMOBILIZATION	1 L.S.	\$ 180,000.00	\$ 180,000.00
G135.010.0000	CONSTRUCTION SURVEYING BY THE CONTRACTOR	1 L.S.	\$ 57,000.00	\$ 57,000.00
G135.010.0000	CONTRACTOR FURNISHED ENGINEERING TOOLS	1 C.S.	\$ 15,000.00	\$ 15,000.00
G700.040.0000	TRAFFIC CONTROL FOR AIRPORTS	1 L.S.	\$ 114,000.00	\$ 114,000.00
L108.180.0000	TEMPORARY JUMPER	5,000 L.F.	\$ 40.00	\$ 200,000.00
L125.500.0000	MISCELLANEOUS AIRPORT ELECTRICAL WORK	1 C.S.	\$ 20,000.00	\$ 20,000.00
P152.010.0000	UNCLASSIFIED EXCAVATION	8,400 C.Y.	\$ 12.00	\$ 100,800.00
P154.020.0000	SUBBASE COURSE	18,200 TON	\$ 25.00	\$ 455,000.00
P160.010.0000	EXCAVATION OF PAVEMENT	900 S.Y.	\$ 6.00	\$ 5,400.00
P161.010.0000	RECYCLED ASPHALT PAVEMENT	49,100 S.Y.	\$ 20.00	\$ 982,000.00
P170.020.0000	SOIL TESTING PROGRAM	1 C.S.	\$ 20,000.00	\$ 20,000.00
P299.020.0000	CRUSHED AGGREGATE SURFACE COURSE	4,700 TON	\$ 50.00	\$ 235,000.00
P318.020.0000	FOAMED ASPHALT STABILIZED BASE COURSE	50,000 S.Y.	\$ 18.00	\$ 900,000.00
P318.040.0000	ASPHALT BINDER	300 TON	\$ 400.00	\$ 120,000.00
P318.050.0000	PORTLAND CEMENT	200 TON	\$ 130.00	\$ 26,000.00
P401.010.0030	HOT MIX ASPHALT TYPE II, CLASS A	9,000 TON	\$ 150.00	\$ 1,350,000.00
P401.020.5828	ASPHALT BINDER, PG 58-28	477 TON	\$ 1,000.00	\$ 477,000.00
P603.010.0000	TACK COAT, STE-1	1,000 TON	\$ 575.00	\$ 575,000.00
P620.010.0000	RUNWAY AND TAXIWAY PAINTING	1 L.S.	\$ 30,000.00	\$ 30,000.00
P620.060.0000	PAINTED MARKING REMOVAL	1 L.S.	\$ 10,000.00	\$ 10,000.00
P641.010.0000	EROSION, SEDIMENT, AND POLLUTION CONTROL ADMINISTRATION	1 L.S.	\$ 20,000.00	\$ 20,000.00
P641.020.0000	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL	1 C.S.	\$ 100,000.00	\$ 100,000.00
P641.070.0000	SWPPP MANAGER	1 L.S.	\$ 5,000.00	\$ 5,000.00
T901.020.0000	SEEDING	700 POUND	\$ 55.00	\$ 38,500.00
T905.010.0020	TOPSOILING, CLASS B	6,800 S.Y.	\$ 3.00	\$ 20,400.00
Subtotal Construction				\$ 6,056,100.00

Construction Engineering (CENG) Percent/Amount:	20%	\$ 1,211,220.00
Design Percent/Amount:	12%	\$ 726,732.00
Overall Project Contingency Percent/Amount:	20%	\$ 1,211,220.00
14 Years Inflation	@ 3%	\$ 3,104,300.00

Category Subtotal (Pay Items + CENG + Design + Project Contingency + Inflation): **\$ 12,309,572.00**

Indirect Cost Allocation Plan (ICAP) Percent/Amount: 7.03% **\$ 865,362.91**

Project Estimate Total: \$ 13,174,934.91