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***APPENDIX B – CAPITAL IMPROVEMENT PROJECT DETAILED  
ESTIMATES***

**Short Term**

**1. Connecting taxiway from Runway to T-hangar Taxiway**

Assumptions:

Strip 24" of existing topsoil

Pavement section is 4" asphalt concrete, 14" aggregate base (same as previous T-hangars)

<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANT</b>	<b>UNIT COST</b>	<b>TOTAL</b>
Mob, Demob, Survey, Misc		5%		\$5,380.00
Stripping 24 inch deep	SF	22,000	\$0.75	\$16,500.00
Pavement, 4" AC, 14" Agg	SF	22,000	\$2.60	\$57,200.00
Electrical	LS	1	\$30,000.00	\$30,000.00
15 inch concrete storm pipe	LF	60	\$65.00	\$3,900.00
			<b>SUBTOTAL</b>	<b>\$112,980.00</b>
			<b>10% Contingency</b>	<b>\$11,298.00</b>
			<b>10 % Design Fee</b>	<b>\$11,298.00</b>
			<b>PROJECT COST</b>	<b>\$135,576.00</b>
			<b>SAY</b>	<b>\$140,000.00</b>

**Short Term**

**2. Extend existing apron to a size of 225 feet by 1200 feet (30,000 square yards)**

Assumptions:

Strip 24" of existing topsoil

Pavement section is 4" asphalt concrete, 14" aggregate base

DESCRIPTION	UNIT	QUANT	UNIT COST	TOTAL
Mob, Demob, Survey, Misc		5%		\$23,362.50
Stripping 24 inch deep	SF	135,000	\$0.75	\$101,250.00
Pavement, 4" AC, 14" Agg	SF	135,000	\$2.60	\$351,000.00
Drainage	LS	1	\$15,000.00	\$15,000.00
			<b>SUBTOTAL</b>	<b>\$490,612.50</b>
			<b>10% Contingency</b>	<b>\$49,061.25</b>
			<b>10 % Design Fee</b>	<b>\$49,061.25</b>
			<b>PROJECT COST</b>	<b>\$588,735.00</b>
			<b>SAY</b>	<b>\$589,000.00</b>

**Short Term**

**3. Add 12,000 square feet of T-hangars (10 spaces)**

Assumptions:

Strip 24" of existing topsoil

Pavement section is 3" asphalt concrete, 11" aggregate base (same as previous T-hangars)

<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANT</b>	<b>UNIT COST</b>	<b>TOTAL</b>
Mob, Demob, Survey, Misc		5%		\$19,075.00
10 Unit T-hangar	LS	1	\$220,000.00	\$220,000.00
Stripping 24 inch deep	SF	62,000	\$0.75	\$46,500.00
Pavement, 3" AC, 11" Agg	SF	50,000	\$2.10	\$105,000.00
Drainage	LS	1	\$10,000.00	\$10,000.00
			<b>SUBTOTAL</b>	<b>\$400,575.00</b>
			<b>10% Contingency</b>	<b>\$40,057.50</b>
			<b>10 % Design Fee</b>	<b>\$40,057.50</b>
			<b>PROJECT COST</b>	<b>\$480,690.00</b>
			<b>SAY</b>	<b>\$481,000.00</b>

**Short Term**

**4. Terminal Building that is at least 3,000 square feet**

Assumptions:

Airport entrance road included in Terminal Building cost

DESCRIPTION	UNIT	QUANT	UNIT COST	TOTAL
Mob, Demob, Survey, Misc		5%		\$19,175.00
Terminal Building	SF	3,000	\$100.00	\$300,000.00
Stripping 24 inch deep	SF	28,000	\$0.75	\$21,000.00
Pavement, 3" AC, 11" Agg	SF	25,000	\$2.10	\$52,500.00
Drainage	LS	1	\$10,000.00	\$10,000.00
			<b>SUBTOTAL</b>	\$402,675.00
			<b>10% Contingency</b>	<b>\$40,267.50</b>
			<b>10 % Design Fee</b>	<b>\$40,267.50</b>
			<b>PROJECT COST</b>	<b>\$483,210.00</b>
			<b>SAY</b>	<b>\$484,000.00</b>

**Short Term**

**5. 12,000 gallon Jet A fuel tank**

Assumptions:

<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANT</b>	<b>UNIT COST</b>	<b>TOTAL</b>
Mob, Demob, Survey, Misc		5%		\$1,587.50
12,000 gallon Jet A fuel tank	LS	1	\$20,000.00	\$31,750.00
			<b>SUBTOTAL</b>	<b>\$33,337.50</b>
			<b>10% Contingency</b>	<b>\$3,333.75</b>
			<b>10 % Design Fee</b>	<b>\$3,333.75</b>
			<b>PROJECT COST</b>	<b>\$40,005.00</b>
			<b>SAY</b>	<b>\$40,000.00</b>

**Short Term**

**6. Install Remaining Perimeter Fence**

Assumptions:

DESCRIPTION	UNIT	QUANT	UNIT COST	TOTAL
Mob, Demob, Survey, Misc		5%		\$9,831.50
7' PVC coated chain-link fence	LF	13,780	\$13.50	\$186,030.00
24' double swing gate	EA	2	\$1,250.00	\$2,500.00
16' double swing gate	EA	2	\$1,000.00	\$2,000.00
Airport Road Gate Removal	LS	1	\$1,000.00	\$1,000.00
Airport Road Delineator Removal	LS	1	\$500.00	\$500.00
Removal of ODOT Type 47 fence	LS	1	\$2,000.00	\$2,000.00
6' non-metallic HDPE Fence	LF	200	\$13.00	\$2,600.00
			<b>TOTAL</b>	<b>\$206,461.50</b>
			<b>10% Contingency</b>	<b>\$20,646.15</b>
			<b>10 % Design Fee</b>	<b>\$20,646.15</b>
			<b>PROJECT COST</b>	<b>\$247,753.80</b>
			<b>SAY</b>	<b>\$248,000.00</b>

**Short Term**  
**7. Drainage Master Plan**

Assumptions:

<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANT</b>	<b>UNIT COST</b>	<b>TOTAL</b>
Design Fee	LS	1	\$50,000.00	\$50,000.00
			<b>SAY</b>	<b>\$50,000.00</b>

**Intermediate Term**

**1. Expand Parking Lot to 40 spaces**

Assumptions:

Strip 24" of existing topsoil

Pavement section is 3" asphalt concrete, 11" aggregate base

<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANT</b>	<b>UNIT COST</b>	<b>TOTAL</b>
Mob, Demob, Survey, Misc		5%		\$955.00
Stripping 24 inch deep	SF	6,000	\$0.75	\$4,500.00
Pavement, 3" AC, 11" Agg	SF	6,000	\$2.10	\$12,600.00
Drainage	LS	1	\$2,000.00	\$2,000.00
			<b>SUBTOTAL</b>	<b>\$20,055.00</b>
			<b>10% Contingency</b>	<b>\$2,005.50</b>
			<b>10 % Design Fee</b>	<b>\$2,005.50</b>
			<b>PROJECT COST</b>	<b>\$24,066.00</b>
			<b>SAY</b>	<b>\$25,000.00</b>

**Intermediate Term**

**2. New apron for tie-downs in the T-hangar area which is 150 feet by 360 feet (6,000 square feet)**

Assumptions:

Strip 24" of existing topsoil

Pavement section is 3" asphalt concrete, 11" aggregate base (same as previous T-hangars)

<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANT</b>	<b>UNIT COST</b>	<b>TOTAL</b>
Mob, Demob, Survey, Misc		5%		\$8,195.00
Stripping 24 inch deep	SF	54,000	\$0.75	\$40,500.00
Pavement, 3" AC, 11" Agg	SF	54,000	\$2.10	\$113,400.00
Drainage	LS	1	\$10,000.00	\$10,000.00
			<b>SUBTOTAL</b>	<b>\$172,095.00</b>
			<b>10% Contingency</b>	<b>\$17,209.50</b>
			<b>10 % Design Fee</b>	<b>\$17,209.50</b>
			<b>PROJECT COST</b>	<b>\$206,514.00</b>
			<b>SAY</b>	<b>\$207,000.00</b>

**Intermediate Term**

**3. Helicopter touchdown on Runway and apron parking position**

Assumptions:

<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANT</b>	<b>UNIT COST</b>	<b>TOTAL</b>
Mob, Demob, Survey, Misc		5%		\$100.00
Pavement Marking	LS	1	\$2,000.00	\$2,000.00
			<b>SUBTOTAL</b>	\$2,100.00
			<b>10% Contingency</b>	<b>\$210.00</b>
			<b>10 % Design Fee</b>	<b>\$210.00</b>
			<b>PROJECT COST</b>	<b>\$2,520.00</b>
			<b>SAY</b>	<b>\$3,000.00</b>

**Intermediate Term**

**4. Wide Area Augmentation System (WAAS)**

Assumptions:

No airport facilities are required

FAA fee for new flight procedures and a survey is required

<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANT</b>	<b>UNIT COST</b>	<b>TOTAL</b>
FAA Fee	LS	1	\$5,000.00	\$5,000.00
			<b>SUBTOTAL</b>	\$5,000.00
			<b>10% Contingency</b>	<b>\$500.00</b>
			<b>10 % Design Fee</b>	<b>\$500.00</b>
			<b>PROJECT COST</b>	<b>\$6,000.00</b>
			<b>SAY</b>	<b>\$6,000.00</b>

**Intermediate Term**

**6. Easement for AWOS Protection**

Assumptions:

<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANT</b>	<b>UNIT COST</b>	<b>TOTAL</b>
Land Acquisition	ACRES	30	\$12,000.00	\$363,600.00
			<b>TOTAL</b>	<b>\$363,600.00</b>
			<b>10% Contingency</b>	<b>\$36,360.00</b>
			<b>PROJECT COST</b>	<b>\$399,960.00</b>
			<b>SAY</b>	<b>\$400,000.00</b>

**Intermediate Term**

**7. Land Acquisition for South Corporate Area**

Assumptions:

<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANT</b>	<b>UNIT COST</b>	<b>TOTAL</b>
Land Acquisition	ACRES	7	\$45,000.00	\$310,500.00
			<b>TOTAL</b>	<b>\$310,500.00</b>
			<b>10% Contingency</b>	<b>\$31,050.00</b>
			<b>PROJECT COST</b>	<b>\$341,550.00</b>
			<b>SAY</b>	<b>\$350,000.00</b>

**Long Term**

**1. Extend Runway 10-28 by 800 feet to a total length of 5800 feet**

Assumptions:

Strip 24" of existing topsoil

35 feet wide taxiway

Pavement section is 4" asphalt concrete, 14" aggregate base

<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANT</b>	<b>UNIT COST</b>	<b>TOTAL</b>
Mob, Demob, Survey, Misc		5%		\$31,697.50
Stripping 24 inch deep	SF	125,000	\$0.75	\$93,750.00
Pavement, 4" AC, 14" Agg	SF	125,000	\$2.60	\$325,000.00
Drainage	LS	1	\$100,000.00	\$100,000.00
Signs	EA	1	\$2,700.00	\$2,700.00
Edge lights	EA	50	\$850.00	\$42,500.00
Conduit and wire	LF	7,000	\$10.00	\$70,000.00
			<b>SUBTOTAL</b>	\$665,647.50
			<b>10% Contingency</b>	<b>\$66,564.75</b>
			<b>10 % Design Fee</b>	<b>\$66,564.75</b>
			<b>PROJECT COST</b>	<b>\$798,777.00</b>
			<b>SAY</b>	<b>\$800,000.00</b>

**Long Term**

**2. RSA Improvements**

Assumptions:

Strip 24" of existing topsoil

40 feet wide taxiway

Pavement section is 4" asphalt concrete, 14" aggregate base

<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANT</b>	<b>UNIT COST</b>	<b>TOTAL</b>
Mob, Demob, Survey, Misc		5%		\$2,899.00
Removal of Existing Structures	EA	3	\$250.00	\$750.00
Unclassified Excavation	CY	5,300	\$10.00	\$53,000.00
6" Non-perforated outlet pipe (w/ connect	LF	110	\$18.00	\$1,980.00
Concrete inlet/outlet collar - for 6" pipe	EA	3	\$750.00	\$2,250.00
			<b>SUBTOTAL</b>	<b>\$60,879.00</b>
			<b>10% Contingency</b>	<b>\$6,087.90</b>
			<b>10 % Design Fee</b>	<b>\$6,087.90</b>
			<b>PROJECT COST</b>	<b>\$73,054.80</b>
			<b>SAY</b>	<b>\$80,000.00</b>

**Long Term**

**3. Full length parallel taxiway on the south side of the airport**

Assumptions:

Strip 24" of existing topsoil

40 feet wide taxiway

Pavement section is 4" asphalt concrete, 14" aggregate base

<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANT</b>	<b>UNIT COST</b>	<b>TOTAL</b>
Mob, Demob, Survey, Misc		5%		\$66,580.00
Stripping 24 inch deep	SF	290,000	\$0.75	\$217,500.00
Pavement, 4" AC, 14" Agg	SF	290,000	\$2.60	\$754,000.00
Drainage	LS	1	\$100,000.00	\$100,000.00
Signs	EA	3	\$2,700.00	\$8,100.00
Edge lights	EA	120	\$850.00	\$102,000.00
Conduit and wire	LF	15,000	\$10.00	\$150,000.00
			<b>SUBTOTAL</b>	<b>\$1,398,180.00</b>
			<b>10% Contingency</b>	<b>\$139,818.00</b>
			<b>10 % Design Fee</b>	<b>\$139,818.00</b>
			<b>PROJECT COST</b>	<b>\$1,677,816.00</b>
			<b>SAY</b>	<b>\$1,678,000.00</b>

**Long Term**

**4. South Corporate Development**

Assumptions:

Strip 24" of existing topsoil

Pavement section is 4" asphalt concrete, 14" aggregate base

<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANT</b>	<b>UNIT COST</b>	<b>TOTAL</b>
Mob, Demob, Survey, Misc		5%		\$15,070.00
Stripping 24 inch deep	SF	84,000	\$0.75	\$63,000.00
Pavement, 4" AC, 14" Agg	SF	84,000	\$2.60	\$218,400.00
Drainage	LS	1	\$20,000.00	\$20,000.00
			<b>SUBTOTAL</b>	<b>\$316,470.00</b>
			<b>10% Contingency</b>	<b>\$31,647.00</b>
			<b>10 % Design Fee</b>	<b>\$31,647.00</b>
			<b>PROJECT COST</b>	<b>\$379,764.00</b>
			<b>SAY</b>	<b>\$400,000.00</b>

**Long Term**  
**5. Perimeter Road**

Assumptions:

Strip 24" of existing topsoil

Pavement section is 3" asphalt concrete, 11" aggregate base

DESCRIPTION	UNIT	QUANT	UNIT COST	TOTAL
Mob, Demob, Survey, Misc		5%		\$18,175.00
Stripping 24 inch deep	SF	110,000	\$0.75	\$82,500.00
Pavement, 3" AC, 11" Agg	SF	110,000	\$2.10	\$231,000.00
Drainage	LS	1	\$50,000.00	\$50,000.00
			<b>SUBTOTAL</b>	<b>\$381,675.00</b>
			<b>10% Contingency</b>	<b>\$38,167.50</b>
			<b>10 % Design Fee</b>	<b>\$38,167.50</b>
			<b>PROJECT COST</b>	<b>\$458,010.00</b>
			<b>SAY</b>	<b>\$500,000.00</b>

**Long Term**

**6. Extend T-hangar apron to a size of 150 feet by 750 feet (12,500 square yards)**

Assumptions:

Strip 24" of existing topsoil

Pavement section is 3" asphalt concrete, 11" aggregate base (same as previous T-hangars)

<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANT</b>	<b>UNIT COST</b>	<b>TOTAL</b>
Mob, Demob, Survey, Misc		5%		\$8,836.25
Stripping 24 inch deep	SF	58,500	\$0.75	\$43,875.00
Pavement, 3" AC, 11" Agg	SF	58,500	\$2.10	\$122,850.00
Drainage	LS	1	\$10,000.00	\$10,000.00
			<b>SUBTOTAL</b>	<b>\$185,561.25</b>
			<b>10% Contingency</b>	<b>\$18,556.13</b>
			<b>10 % Design Fee</b>	<b>\$18,556.13</b>
			<b>PROJECT COST</b>	<b>\$222,673.50</b>
			<b>SAY</b>	<b>\$223,000.00</b>

**Long Term**

**7. Add 24,000 square feet of T-hangars (20 spaces)**

Assumptions:

Strip 24" of existing topsoil

Pavement section is 3" asphalt concrete, 11" aggregate base (same as previous T-hangars)

<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANT</b>	<b>UNIT COST</b>	<b>TOTAL</b>
Mob, Demob, Survey, Misc		5%		\$31,060.00
10 Unit T-hangar	LS	2	\$220,000.00	\$440,000.00
Stripping 24 inch deep	SF	76,000	\$0.75	\$57,000.00
Pavement, 3" AC, 11" Agg	SF	52,000	\$2.10	\$109,200.00
Drainage	LS	1	\$15,000.00	\$15,000.00
			<b>SUBTOTAL</b>	<b>\$652,260.00</b>
			<b>10% Contingency</b>	<b>\$65,226.00</b>
			<b>10 % Design Fee</b>	<b>\$65,226.00</b>
			<b>PROJECT COST</b>	<b>\$782,712.00</b>
			<b>SAY</b>	<b>\$783,000.00</b>

**Long Term**

**8. 12,000 gallon Jet A fuel tank**

Assumptions:

Strip 24" of existing topsoil

Pavement section is 4" asphalt concrete, 13" aggregate base

Existing Hangar 3 (as shown on ALP) Remains until future development

<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANT</b>	<b>UNIT COST</b>	<b>TOTAL</b>
Mob, Demob, Survey, Misc		5%		\$1,587.50
12,000 gallon Jet A fuel tank	LS	1	\$20,000.00	\$31,750.00
			<b>SUBTOTAL</b>	\$33,337.50
			<b>10% Contingency</b>	<b>\$3,333.75</b>
			<b>10 % Design Fee</b>	<b>\$3,333.75</b>
			<b>PROJECT COST</b>	<b>\$40,005.00</b>
			<b>SAY</b>	<b>\$40,000.00</b>