



Appendix D

Detailed Cost Information





Appendix D Detailed Cost Information

INTRODUCTION

Detailed cost information, including unit costs and quantities, is included in this appendix. This information was used to create the summary table found in Chapter 8 (Table 8-1).

**Table D-1
SCHEDULE OF IMPROVEMENTS - DETAILED**

Project	Quantity	Unit	Unit Cost	Total Cost	Timing
Phase 1 (2007-2011)					
1 Relocate Six Portable Hangars along Taxiway E					2007
a. Relocate Portable Hangars	6	EA	\$3,000	\$18,000	
				\$18,000	
b. Mobilization/Contingency				\$6,000	
Total				\$24,000	
2 Construct Corporate Hangar					2007
a. Site Preparation	1	AC	\$10,000	\$10,000	
b. Grading	360	CY	\$20	\$7,200	
c. Building	6,400	SF	\$30	\$192,000	
d. Floor Slab	240	CY	\$300	\$72,000	
e. Asphalt Concrete Pavement	7,000	SF	\$9	\$63,000	
f. Drainage Improvements	1	LS	\$25,000	\$25,000	
g. Utilities	1	LS	\$40,000	\$40,000	
				\$409,200	
h. Mobilization/Contingency				\$123,000	
i. Engineering				\$82,000	
Total				\$614,200	
3 Purchase Two 10-Unit Box Hangar Buildings from Private Party					2007
a. Purchase box hangar buildings	1	LS	\$1,400,000	\$1,400,000	
Total				\$1,400,000	
4 Pipeline Existing Irrigation and Drainage Canals - Phase 1					2007
a. Pipeline Existing Canals	1	LS	\$474,000	\$474,000	
Total				\$474,000	
5 Repair and Reconstruct General Aviation Parking Area for Larger Corporate Jets					2007
a. Site Preparation	1	AC	\$10,000	\$10,000	
b. Grading	450	CY	\$20	\$9,000	
c. Asphalt Concrete Pavement	12,000	SF	\$9	\$108,000	
d. Remove Existing Pavement	1,350	SY	\$10	\$13,500	
e. Striping	2,000	SF	\$3	\$6,000	
				\$146,500	
f. Mobilization/Contingency				\$44,000	
g. Engineering				\$30,000	
Total				\$220,500	
6 Pipeline Existing Irrigation and Drainage Canals - Phase 2					2008
a. Pipeline Existing Canals	1	LS	\$603,750	\$603,750	
Total				\$603,750	

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Table D-1 (cont'd)
SCHEDULE OF IMPROVEMENTS - DETAILED

Project	Quantity	Unit	Unit Cost	Total Cost	Timing
Phase 1 (2007-2011)					
7 Pavement Crack Sealing, Taxiway A, and General Aviation Ramp Area and Re-striping of all Airport Taxilanes					2008
a. Pavement Crack Sealing	40,000	LF	\$6	\$240,000	
b. Striping	30,000	SF	\$3	\$90,000	
				\$330,000	
c. Mobilization/Contingency				\$99,000	
d. Engineering				\$66,000	
Total				\$495,000	
8 Relocate/Demolish Five Portable Hangars along Taxiway E					2008
a. Relocate Portable Hangars	5	EA	\$3,000	\$15,000	
				\$15,000	
b. Mobilization/Contingency				\$5,000	
Total				\$20,000	
9 Pave Two Additional Taxilanes in General Aviation Area for New Box Hangar Construction in 2009					2008
a. Site Preparation	1	AC	\$10,000	\$10,000	
b. Asphalt Concrete Pavement	38,400	SF	\$9	\$345,600	
c. Grading	2,855	CY	\$20	\$57,100	
d. Drainage Improvements	1	LS	\$55,000	\$55,000	
				\$467,700	
e. Mobilization/Contingency				\$141,000	
f. Engineering				\$94,000	
Total				\$702,700	
10 Construct Airport Maintenance Building, Associated Parking, and Storage Yard					2008
a. Site Preparation	1	AC	\$10,000	\$10,000	
b. Maintenance Building	1,500	SF	\$30	\$45,000	
c. Floor Slab	60	CY	\$300	\$18,000	
d. Parking Lot	5,000	SF	\$6	\$30,000	
e. Storage Yard	5,000	SF	\$6	\$30,000	
f. Drainage Improvements	1	LS	\$30,000	\$30,000	
g. Utilities	1	LS	\$20,000	\$20,000	
				\$183,000	
h. Mobilization/Contingency				\$55,000	
i. Engineering				\$37,000	
Total				\$275,000	
11 Purchase Sweeper/Vac					2008
a. Purchase Pavement Sweeping Equipment	1	LS	\$162,750	\$162,750	
Total				\$162,750	

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Table D-1 (cont'd)
SCHEDULE OF IMPROVEMENTS - DETAILED

Project	Quantity	Unit	Unit Cost	Total Cost	Timing
Phase 1 (2007-2011)					
12 Construct One Nested T-Hangar Type Building (14 Individual Hangar Spaces)					2008
a. Site Preparation	1	AC	\$10,000	\$10,000	
b. Grading	2,850	CY	\$20	\$57,000	
c. Building	14,000	SF	\$30	\$420,000	
d. Floor Slab	520	CY	\$300	\$156,000	
e. Asphalt Concrete Pavement	37,200	SF	\$9	\$334,800	
f. Drainage Improvements	1	LS	\$50,000	\$50,000	
g. Utilities	1	LS	\$40,000	\$40,000	
				\$1,067,800	
h. Mobilization/Contingency				\$321,000	
i. Engineering				\$214,000	
Total				\$1,602,800	
13 Install Airport Security System/Luggage Carousel					2008
a. Security System	1	LS	\$900,000	\$900,000	
Total				\$900,000	
14 Construct Corporate Hangar					2008
a. Site Preparation	2	AC	\$10,000	\$20,000	
b. Grading	1,950	CY	\$20	\$39,000	
c. Building	26,000	SF	\$30	\$780,000	
d. Floor Slab	964	CY	\$300	\$289,200	
e. Utilities	1	LS	\$20,000	\$20,000	
				\$1,148,200	
f. Mobilization/Contingency				\$345,000	
g. Engineering				\$230,000	
Total				\$1,723,200	
15 Demolish Buildings 4, 5, and 12					2008
a. Site Preparation	1	AC	\$10,000	\$10,000	
b. Remove Building	17,500	SF	\$5	\$87,500	
c. Remove Floor Slab	17,500	SF	\$10	\$175,000	
d. Cap and Remove Utilities	1	LS	\$15,000	\$15,000	
e. Repave Building Area	17,500	SF	\$7	\$122,500	
				\$410,000	
f. Mobilization/Contingency				\$123,000	
g. Engineering				\$82,000	
Total				\$615,000	
16 Construct FBO Hangar					2008
a. Site Preparation	1	AC	\$10,000	\$10,000	
b. Grading	130	CY	\$20	\$2,600	
c. Building	6,400	SF	\$35	\$224,000	
d. Floor Slab	240	CY	\$300	\$72,000	
e. Asphalt Concrete Pavement	7,000	SF	\$9	\$63,000	
f. Utilities	1	LS	\$20,000	\$20,000	
				\$391,600	
g. Mobilization/Contingency				\$118,000	
h. Engineering				\$79,000	
Total				\$588,600	

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Table D-1 (cont'd)
SCHEDULE OF IMPROVEMENTS - DETAILED

Project	Quantity	Unit	Unit Cost	Total Cost	Timing
Phase 1 (2007-2011)					
17 Acquire Land in Fee					2009
a. Acquire Land	10	AC	\$100,000	\$1,000,000	
Total				\$1,000,000	
18 Acquire Avigation Easements					2009
a. Acquire Easements	30	AC	\$36,700	\$1,101,000	
Total				\$1,101,000	
19 Relocate/Demolish Six Portable Hangars along Taxiway E					2009
a. Relocate Portable Hangars	6	EA	\$3,000	\$18,000	
				\$18,000	
b. Mobilization/Contingency				\$6,000	
Total				\$24,000	
20 ARFF Support					2009
a. Purchase ARFF Support Equipment	1	LS	\$126,000	\$126,000	
Total				\$126,000	
21 Additional Long Term Secured Parking and Security Lighting					2009
a. Provide additional vehicle parking area	1	LS	\$126,000	\$126,000	
Total				\$126,000	
22 Construct Two 10-Unit Rectangular Hangar Buildings					2009
a. Site Preparation	3	AC	\$10,000	\$30,000	
b. Grading	1,780	CY	\$20	\$35,600	
c. Building	32,000	SF	\$30	\$960,000	
d. Floor Slab	1,190	CY	\$300	\$357,000	
e. Utilities	1	LS	\$50,000	\$50,000	
				\$1,432,600	
f. Mobilization/Contingency				\$430,000	
g. Engineering				\$287,000	
Total				\$2,149,600	
23 Design and Environmental Processing for Runway and Taxiway Extension					2009
a. A/E Design	1	LS	\$578,000	\$578,000	
b. Environmental	1	LS	\$300,000	\$300,000	
Total				\$878,000	
24 Overlay Taxiway A					2009
a. Asphalt Concrete Overlay	484,100	SF	\$4	\$1,936,400	
b. Pavement Crack Sealing/Milling	53,800	SY	\$5	\$269,000	
c. Shoulder Regrading	3,700	CY	\$20	\$74,000	
d. Electrical - New/Adjust Lights	170	EA	\$2,000	\$340,000	
e. Striping	25,500	SF	\$3	\$76,500	
				\$2,695,900	
f. Mobilization/Contingency				\$809,000	
g. Engineering				\$540,000	
Total				\$4,044,900	

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**Table D-1 (cont'd)
SCHEDULE OF IMPROVEMENTS - DETAILED**

Project	Quantity	Unit	Unit Cost	Total Cost	Timing
Phase 1 (2007-2011)					
25 Pave Two Additional Taxilanes and Building Pads for New Nested T-Hangar Construction in 2010					2010
a. Site Preparation	1	AC	\$10,000	\$10,000	
b. Asphalt Concrete Pavement	45,460	SF	\$9	\$409,140	
c. Grading	2,300	CY	\$20	\$46,000	
d. Floor Slab	1,040	CY	\$300	\$312,000	
e. Drainage Improvements	1	LS	\$50,000	\$50,000	
				\$827,140	
f. Mobilization/Contingency				\$249,000	
g. Engineering				\$166,000	
Total				\$1,242,140	
26 Extend Runway to 6,450 feet, Extend Taxiway A at a 400-foot Separation, Relocate and Install Additional MALSR Lighting, and Underground Power Lines along Dickenson Ferry Road					2010
a. Site Preparation	15	AC	\$10,000	\$150,000	
b. Grading	20,000	CY	\$20	\$400,000	
c. Runway Asphalt Concrete Pavement	82,050	SF	\$11	\$902,550	
d. Taxiway Asphalt Concrete Pavement	88,500	SF	\$9	\$796,500	
e. Striping	60,000	SF	\$3	\$180,000	
f. Runway and Taxiway Lights	1	LS	\$100,000	\$100,000	
g. Underground Power Lines	2,000	LF	\$60	\$120,000	
h. Electrical Conduit	1,200	LF	\$30	\$36,000	
i. Relocate MALSR	1	LS	\$200,000	\$200,000	
				\$2,885,050	
j. Mobilization/Contingency				\$866,000	
Total				\$3,751,050	
27 Construct General Aviation Terminal Building					2010
a. Site Preparation	1	AC	\$10,000	\$10,000	
b. Grading	600	CY	\$20	\$12,000	
c. Terminal Building	5,400	SF	\$50	\$270,000	
d. Drainage Improvements	1	LS	\$70,000	\$70,000	
e. Utilities	1	LS	\$100,000	\$100,000	
				\$462,000	
f. Mobilization/Contingency				\$139,000	
g. Engineering				\$93,000	
Total				\$694,000	
28 Construct Two Nested T-Hangar Type Building (28 Individual Hangar Spaces)					2010
a. Site Preparation	2	AC	\$10,000	\$20,000	
b. Grading	5,700	CY	\$20	\$114,000	
c. Building	28,000	SF	\$30	\$840,000	
d. Utilities	1	LS	\$50,000	\$50,000	
				\$1,024,000	
e. Mobilization/Contingency				\$308,000	
f. Engineering				\$205,000	
Total				\$1,537,000	

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Table D-1 (cont'd)
SCHEDULE OF IMPROVEMENTS - DETAILED

Project	Quantity	Unit	Unit Cost	Total Cost	Timing
Phase 1 (2007-2011)					
29 Demolish Building 6					2010
a. Site Preparation	1	AC	\$10,000	\$10,000	
b. Remove Building	6,100	SF	\$5	\$30,500	
c. Remove Floor Slab	6,100	SF	\$10	\$61,000	
d. Cap and Remove Utilities	1	LS	\$10,000	\$10,000	
e. Repave Hangar Area	6,100	SF	\$7	\$42,700	
				\$154,200	
f. Mobilization/Contingency				\$47,000	
g. Engineering				\$31,000	
Total				\$232,200	
30 Construct FBO Hangar					2010
a. Site Preparation	1	AC	\$10,000	\$10,000	
b. Grading	130	CY	\$20	\$2,600	
c. Building	6,400	SF	\$30	\$192,000	
d. Floor Slab	240	CY	\$300	\$72,000	
e. Asphalt Concrete Pavement	7,000	SF	\$9	\$63,000	
f. Utilities	1	LS	\$25,000	\$25,000	
				\$364,600	
g. Mobilization/Contingency				\$110,000	
h. Engineering				\$73,000	
Total				\$547,600	
31 Design and Environmental Processing for New Passenger Terminal Area					2011
a. A/E Design	1	LS	\$827,000	\$827,000	
b. Environmental	1	LS	\$500,000	\$500,000	
Total				\$1,327,000	
32 Demolish Existing General Aviation Terminal Building					2011
a. Site Preparation	1	AC	\$10,000	\$10,000	
b. Remove Building	1,300	SF	\$5	\$6,500	
c. Remove Foundation	1,300	SF	\$10	\$13,000	
d. Repave Terminal Area	1,300	SF	\$7	\$9,100	
e. Cap and Remove Utilities	1	LS	\$10,000	\$10,000	
				\$48,600	
f. Mobilization/Contingency				\$15,000	
g. Engineering				\$10,000	
Total				\$73,600	
33 Demolish Building 3					2011
a. Site Preparation	1	AC	\$10,000	\$10,000	
b. Remove Building	3,700	SF	\$5	\$18,500	
c. Remove Foundation	3,700	SF	\$10	\$37,000	
d. Cap and Remove Utilities	1	LS	\$10,000	\$10,000	
e. Repave Building Area	3,700	SF	\$7	\$25,900	
				\$101,400	
f. Mobilization/Contingency				\$31,000	
g. Engineering				\$21,000	
Total				\$153,400	

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Table D-1 (cont'd)
SCHEDULE OF IMPROVEMENTS - DETAILED

Project	Quantity	Unit	Unit Cost	Total Cost	Timing
Phase 1 (2007-2011)					
34 Overlay of General Aviation Parking Area, Apron, Ramp, and Freight Ramp					2011
a. Asphalt Concrete Overlay	178,200	SF	\$4	\$712,800	
b. Pavement Crack Sealing	19,800	SY	\$5	\$99,000	
c. Shoulder Grading	2,500	CY	\$20	\$50,000	
d. Electrical - New/Adjust Lights	25	EA	\$2,000	\$50,000	
e. Striping	8,000	SF	\$3	\$24,000	
				\$935,800	
f. Mobilization/Contingency				\$281,000	
g. Engineering				\$188,000	
Total				\$1,404,800	
Phase 1 Total				\$30,833,790	

Note: All years are local government fiscal years. For example, "2007" means the Fiscal Year ending June 30, 2007.

Table D-1 (cont'd)
SCHEDULE OF IMPROVEMENTS - DETAILED

Project	Quantity	Unit	Unit Cost	Total Cost	Timing
Phase 2 (2012-2016)					
35 Construct New Passenger Terminal Area					2012
a. Site Preparation	6	AC	\$10,000	\$60,000	
b. Passenger Terminal Area	11,000	SF	\$300	\$3,300,000	
c. Grading	9,000	CY	\$20	\$180,000	
d. Airfield Asphalt Concrete Pavements	114,300	SF	\$9	\$1,028,700	
e. Airfield Electrical/Lighting	1	LS	\$150,000	\$150,000	
f. Parking Lot Pavement	110,500	SF	\$6	\$663,000	
g. Parking Lot Electrical	1	LS	\$60,000	\$60,000	
h. Drainage	1	LS	\$30,000	\$30,000	
i. Utilities	1	LS	\$40,000	\$40,000	
				\$5,511,700	
j. Mobilization/Contingency				\$1,654,000	
Total				\$7,165,700	
36 Construct One Nested T-Hangar Type Building (14 Individual Hangar Spaces) and Associated Apron					2012
a. Site Preparation	1	AC	\$10,000	\$10,000	
b. Grading	2,440	CY	\$20	\$48,800	
c. Building	14,000	SF	\$30	\$420,000	
d. Floor Slab	520	CY	\$300	\$156,000	
e. Asphalt Concrete Pavement	29,950	SF	\$9	\$269,550	
f. Drainage Improvements	1	LS	\$25,000	\$25,000	
g. Utilities	1	LS	\$20,000	\$20,000	
				\$949,350	
h. Mobilization/Contingency				\$285,000	
i. Engineering				\$190,000	
Total				\$1,424,350	
37 Demolish Existing Passenger Terminal					2013
a. Site Preparation	1	AC	\$10,000	\$10,000	
b. Remove Building	4,700	SF	\$5	\$23,500	
c. Remove Floor and Foundation	4,700	SF	\$10	\$47,000	
d. Cap and Remove Utilities	1	LS	\$10,000	\$10,000	
				\$90,500	
e. Mobilization/Contingency				\$28,000	
f. Engineering				\$19,000	
Total				\$137,500	
38 Demolish Eight Non-Relocated Portable Hangars					2013
a. Demolish Portable Hangars	8	EA	\$3,000	\$24,000	
				\$24,000	
b. Mobilization/Contingency				\$7,200	
Total				\$31,200	

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Table D-1 (cont'd)
SCHEDULE OF IMPROVEMENTS - DETAILED

Project	Quantity	Unit	Unit Cost	Total Cost	Timing
Phase 2 (2012-2016)					
39 Construct Corporate Hangar					2014
a. Site Preparation	1	AC	\$10,000	\$10,000	
b. Grading	130	CY	\$20	\$2,600	
c. Building	6,400	SF	\$30	\$192,000	
d. Floor Slab	240	CY	\$300	\$72,000	
e. Asphalt Concrete Pavement	7,000	SF	\$9	\$63,000	
f. Drainage Improvements	1	LS	\$25,000	\$25,000	
g. Utilities	1	LS	\$40,000	\$40,000	
				\$404,600	
h. Mobilization/Contingency				\$122,000	
i. Engineering				\$81,000	
Total				\$607,600	
40 Apron Lighting Enhancements					2015
a. Lighting Improvements	1	LS	\$600,000	\$600,000	
				\$600,000	
b. Mobilization/Contingency				\$180,000	
c. Engineering				\$120,000	
Total				\$900,000	
41 Expand Aircraft Parking Apron					2015
a. Site Preparation	2	AC	\$10,000	\$20,000	
b. Grading	4,700	CY	\$20	\$94,000	
c. Asphalt Concrete Pavement	63,450	SF	\$9	\$571,050	
d. Apron Shoulders	13,000	SF	\$5	\$65,000	
e. Electrical/ Lighting Modifications	1	LS	\$150,000	\$150,000	
f. Drainage Improvements	1	LS	\$100,000	\$100,000	
g. Striping	15,000	SF	\$3	\$45,000	
h. Signage	1	LS	\$50,000	\$50,000	
				\$1,095,050	
i. Mobilization/Contingency				\$329,000	
j. Engineering				\$220,000	
Total				\$1,644,050	
42 Construct Corporate Hangar					2016
a. Site Preparation	1	AC	\$10,000	\$10,000	
b. Grading	130	CY	\$20	\$2,600	
c. Building	6,400	SF	\$30	\$192,000	
d. Floor Slab	240	CY	\$300	\$72,000	
e. Asphalt Concrete Pavement	7,000	SF	\$9	\$63,000	
f. Drainage Improvements	1	LS	\$25,000	\$25,000	
g. Utilities	1	LS	\$40,000	\$40,000	
				\$404,600	
h. Mobilization/Contingency				\$122,000	
i. Engineering				\$81,000	
Total				\$607,600	
43 Demolish Nine Remaining Non-Relocated Portable Hangars					2016
a. Demolish Portable Hangars	9	EA	\$3,000	\$27,000	
				\$27,000	
b. Mobilization/Contingency				\$8,100	
Total				\$35,100	
Phase 2 Total				\$12,553,100	

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Table D-1 (cont'd)
SCHEDULE OF IMPROVEMENTS - DETAILED

Project	Quantity	Unit	Unit Cost	Total Cost	Timing
Phase 3 (2017-2026)					
44 Engineering and Environmental for Relocated Taxiway A					Long-Term
a. Engineering	1	LS	\$617,000	\$617,000	
b. Environmental	1	LS	\$200,000	\$200,000	
Total				\$817,000	
45 Relocate Taxiway A to 400-foot Separation					Long-Term
a. Site Preparation	14	AC	\$10,000	\$140,000	
b. Remove Exist Pavement	24,350	SY	\$10	\$243,500	
c. Grading	22,000	CY	\$20	\$440,000	
d. Asphalt Concrete Pavement	213,300	SF	\$9	\$1,919,700	
e. Taxiway Shoulders	30,000	SY	\$5	\$150,000	
f. Relocate Existing Lights/Install New	200	EA	\$2,000	\$400,000	
g. Remove Existing Conduits	13,000	LF	\$10	\$130,000	
h. Electrical Underground Conduit	13,000	LF	\$30	\$390,000	
i. Drainage Improvements	1	LS	\$100,000	\$100,000	
j. Striping	20,000	SF	\$3	\$60,000	
k. Relocate Signage	20	EA	\$7,000	\$140,000	
				\$4,113,200	
l. Mobilization/Contingency				\$1,234,000	
Total				\$5,347,200	
46 Demolish Building 10					Long-Term
a. Site Preparation	1	AC	\$10,000	\$10,000	
b. Remove Building	2,050	SF	\$5	\$10,250	
c. Remove Foundation	2,050	SF	\$10	\$20,500	
d. Repave Building Area	2,050	SF	\$10	\$20,500	
e. Cap and Remove Utilities	1	LS	\$10,000	\$10,000	
f. Repave Hangar Area	2,050	SF	\$7	\$14,350	
				\$85,600	
g. Mobilization/Contingency				\$26,000	
h. Engineering				\$18,000	
Total				\$129,600	
47 Construct Four Nested T-Hangar Type Buildings					Long-Term
a. Site Preparation	4	AC	\$10,000	\$40,000	
b. Building	56,000	SF	\$30	\$1,680,000	
c. Grading	3,110	CY	\$20	\$62,200	
d. Floor Slab	2,080	CY	\$300	\$624,000	
e. Asphalt Concrete Pavement	56,000	SF	\$9	\$504,000	
f. Drainage Improvements	1	LS	\$50,000	\$50,000	
g. Utilities	1	LS	\$40,000	\$40,000	
				\$3,000,200	
h. Mobilization/Contingency				\$901,000	
i. Engineering				\$601,000	
Total				\$4,502,200	
Phase 3 Total				\$10,796,000	
Total - All Phases				\$54,182,890	

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