

APPENDIX H – AIRFIELD ALTERNATIVES AND CONSTRUCTION OPTIONS COST ESTIMATES

INTRODUCTION

The following spreadsheets are presented to show the basis of the cost estimates presented in the Master Plan update for Alternatives F, G and H. As there were a variety of alternatives analyzed, these spreadsheets have been developed with the phasing and construction of each alternative taken into consideration. The totals for each alternative and the various components of construction options are included for easy reference on the following pages.

There are four summary sheets listed first which summarize the costs for different types of materials/capacity. These are Asphalt – Regional Aircraft, PCC – Regional Aircraft, Asphalt – Narrow Body, and PCC – Narrow Body.

The detailed spreadsheets are listed after and provide the financial detail of variations in grading, phasing and construction between the options. The detailed estimates included are as follows:

Alternative	Construction Option Estimates	Type of Material/Capacity	Pages
F	Option 1 Primary Runway Construction Option 1 Parallel Taxiway Construction	Asphalt-Regional, PCC-Regional, Asphalt-Narrow Body, and PCC-Narrow Body	6 – 13
G	Option 2 Parallel Taxiway for Temporary Runway Construction Option 2, 3 and 5 Primary Runway Construction Option 3, 4 and 5 Parallel Taxiway Construction Option 4 Displaced Threshold	Asphalt-Regional, PCC-Regional, Asphalt-Narrow Body, and PCC-Narrow Body	14 – 29
H	Option 2 Parallel Taxiway for Temporary Runway Construction Option 2, 3 and 5 Primary Runway Construction Option 3, 4 and 5 Parallel Taxiway Construction Option 4 Displaced Threshold Option 2 and 5 Primary Runway Overlay Construction	Asphalt-Regional, PCC-Regional, PCC-Narrow Body, Asphalt-Narrow Body, and Asphalt and PCC Overlays	30 – 49
G & H	Option 3 (G & H) Crosswind Runway for Temporary Runway		50

Summary of Airfield Alternative Construction Option Costs - Asphalt for Regional

Construction Options\Airfield Alternative		Alternative F		Alternative G		Alternative H	
Option 1 Construct New Primary Runway	Temporary Runway Phase	not applicable					
	Primary Runway Phase	\$26,255,000	1 construction season				
	Primary Taxiway Phase	\$13,311,000	2 construction season				
	Total	\$39,566,000	3 construction seasons				
Option 2 Parallel Taxiway for Temporary Runway	Temporary Runway Phase			\$19,188,000	2 construction seasons	\$19,130,000	2 construction seasons
	Primary Runway Phase			\$28,001,000	1 construction season	\$31,300,000	1 construction season
	Primary Taxiway Phase			Completed with Temporary Runway		Completed with Temporary Runway	
	Total			\$47,189,000	3 construction seasons	\$50,430,000	3 construction seasons
Option 2 Overlay Costs	Primary Runway Phase Total					\$15,732,000	
						\$34,862,000	
Option 3 Crosswind Runway for Temporary Runway	Temporary Runway Phase			\$19,475,000	3 construction seasons	\$19,475,000	3 construction seasons
	Primary Runway Phase			\$28,001,000	1 construction season	\$31,300,000	1 construction season
	Primary Taxiway Phase			\$11,458,000	2 construction season	\$12,083,000	2 construction season
	Total			\$58,934,000	6 construction seasons	\$62,858,000	6 construction seasons
Option 4 Displaced Threshold	Temporary Runway Phase			not applicable		not applicable	
	Primary Runway Phase			3 month full runway closure		5 month full runway closure	
	Primary Taxiway Phase			\$11,458,000	2 construction season	\$12,083,000	2 construction season
	Total			\$43,602,000	4 construction seasons	\$50,630,000	4 construction seasons
Option 5 Full Runway Closure	Temporary Runway Phase			not applicable		not applicable	
	Primary Runway Phase			9 month full runway closure		9 month full runway closure	
	Primary Taxiway Phase			\$11,458,000	2 construction season	\$12,083,000	2 construction season
	Total			\$39,459,000	4 construction seasons	\$43,383,000	4 construction seasons
Option 5 Overlay Cost	Primary Runway Phase					\$15,732,000	
						\$27,815,000	

Summary of Airfield Alternative Construction Option Costs - PCC for Regional

Construction Options\Airfield Alternative		Alternative F		Alternative G		Alternative H	
Option 1 Construct New Primary Runway	Temporary Runway Phase	not applicable					
	Primary Runway Phase	\$38,410,000	1 construction season				
	Primary Taxiway Phase	\$14,633,000	2 construction season				
	Total	\$53,043,000	3 construction seasons				
Option 2 Parallel Taxiway for Temporary Runway	Temporary Runway Phase			\$27,616,000	2 construction seasons	\$27,275,000	2 construction seasons
	Primary Runway Phase			\$40,551,000	1 construction season	\$43,853,000	1 construction season
	Primary Taxiway Phase			Completed with Temporary Runway		Completed with Temporary Runway	
	Total			\$68,167,000	3 construction seasons	\$71,128,000	3 construction seasons
Option 2 Overlay Costs	Primary Runway Phase Total					\$33,795,000	
						\$61,070,000	
Option 3 Crosswind Runway for Temporary Runway	Temporary Runway Phase			\$19,475,000	3 construction seasons	\$19,475,000	3 construction seasons
	Primary Runway Phase			\$40,551,000	1 construction season	\$43,853,000	1 construction season
	Primary Taxiway Phase			\$15,667,000	2 construction season	\$16,317,000	2 construction season
	Total			\$75,693,000	6 construction seasons	\$79,645,000	6 construction seasons
Option 4 Displaced Threshold	Temporary Runway Phase			not applicable		not applicable	
	Primary Runway Phase			3 month full runway closure		5 month full runway closure	
	Primary Taxiway Phase			\$44,985,000	2 construction season	\$48,821,000	2 construction season
	Total			\$15,667,000	2 construction season	\$16,317,000	2 construction season
				\$60,652,000	4 construction seasons	\$65,138,000	4 construction seasons
Option 5 Full Runway Closure	Temporary Runway Phase			not applicable		not applicable	
	Primary Runway Phase			9 month full runway closure		9 month full runway closure	
	Primary Taxiway Phase			\$40,551,000	2 construction season	\$43,853,000	2 construction season
	Total			\$15,667,000	2 construction season	\$16,317,000	2 construction season
				\$56,218,000	4 construction seasons	\$60,170,000	4 construction seasons
Option 5 Overlay Cost	Primary Runway Phase					\$33,795,000	
						\$50,112,000	

Summary of Airfield Alternative Construction Option Costs - Asphalt for Narrowbody Aircraft

Construction Options\Airfield Alternative		Alternative F		Alternative G		Alternative H	
Option 1 Construct New Primary Runway	Temporary Runway Phase	not applicable					
	Primary Runway Phase	\$31,353,000	1 construction season				
	Primary Taxiway Phase	\$16,742,000	2 construction season				
	Total	\$48,095,000	3 construction seasons				
Option 2 Parallel Taxiway for Temporary Runway	Temporary Runway Phase			\$22,631,000	2 construction seasons	\$22,590,000	2 construction seasons
	Primary Runway Phase			\$33,195,000	1 construction season	\$36,493,000	1 construction season
	Primary Taxiway Phase			Completed with Temporary Runway		Completed with Temporary Runway	
	Total			\$55,826,000	3 construction seasons	\$59,083,000	3 construction seasons
Option 2 Overlay Costs	Primary Runway Phase Total					\$20,789,000	
						\$43,379,000	
Option 3 Crosswind Runway for Temporary Runway	Temporary Runway Phase			\$19,475,000	3 construction seasons	\$19,475,000	3 construction seasons
	Primary Runway Phase			\$33,195,000	1 construction season	\$36,493,000	1 construction season
	Primary Taxiway Phase			\$13,189,000	2 construction season	\$13,833,000	2 construction season
	Total			\$65,859,000	6 construction seasons	\$69,801,000	6 construction seasons
Option 4 Displaced Threshold	Temporary Runway Phase	not applicable		not applicable		not applicable	
	Primary Runway Phase			3 month full runway closure		5 month full runway closure	
	Primary Taxiway Phase			\$37,361,000	2 construction season	\$45,404,000	2 construction season
	Total			\$13,189,000	2 construction season	\$13,833,000	2 construction season
				\$50,550,000	4 construction seasons	\$59,237,000	4 construction seasons
Option 5 Full Runway Closure	Temporary Runway Phase	not applicable		not applicable		not applicable	
	Primary Runway Phase			9 month full runway closure		9 month full runway closure	
	Primary Taxiway Phase			\$33,195,000	2 construction season	\$36,493,000	2 construction season
	Total			\$13,189,000	2 construction season	\$13,833,000	2 construction season
				\$46,384,000	4 construction seasons	\$50,326,000	4 construction seasons
Option 5 Overlay Cost	Primary Runway Phase					\$20,789,000	
						\$34,622,000	

Summary of Airfield Alternative Construction Option Costs - PCC for Narrowbody

Construction Options\Airfield Alternative		Alternative F		Alternative G		Alternative H	
Option 1 Construct New Primary Runway	Temporary Runway Phase	not applicable					
	Primary Runway Phase	\$44,688,000	1 construction season				
	Primary Taxiway Phase	\$18,201,000	2 construction season				
	Total	\$62,889,000	3 construction seasons				
Option 2 Parallel Taxiway for Temporary Runway	Temporary Runway Phase			\$29,747,000	2 construction seasons	\$29,414,000	2 construction seasons
	Primary Runway Phase			\$46,949,000	1 construction season	\$50,251,000	1 construction season
	Primary Taxiway Phase			Completed with Temporary Runway		Completed with Temporary Runway	
	Total			\$76,696,000	3 construction seasons	\$79,665,000	3 construction seasons
Option 2 Overlay Costs	Primary Runway Phase Total					\$39,305,000	
						\$68,719,000	
Option 3 Crosswind Runway for Temporary Runway	Temporary Runway Phase			\$19,475,000	3 construction seasons	\$19,475,000	3 construction seasons
	Primary Runway Phase			\$46,949,000	1 construction season	\$50,251,000	1 construction season
	Primary Taxiway Phase			\$17,799,000	2 construction season	\$18,455,000	2 construction season
	Total			\$84,223,000	6 construction seasons	\$88,181,000	6 construction seasons
Option 4 Displaced Threshold	Temporary Runway Phase			not applicable		not applicable	
	Primary Runway Phase			3 month full runway closure		5 month full runway closure	
	Primary Taxiway Phase			\$51,395,000	2 construction season	\$55,195,000	2 construction season
	Total			\$17,799,000	2 construction season	\$18,455,000	2 construction season
				\$69,194,000	4 construction seasons	\$73,650,000	4 construction seasons
Option 5 Full Runway Closure	Temporary Runway Phase			not applicable		not applicable	
	Primary Runway Phase			9 month full runway closure		9 month full runway closure	
	Primary Taxiway Phase			\$46,949,000	2 construction season	\$50,251,000	2 construction season
	Total			\$17,799,000	2 construction season	\$18,455,000	2 construction season
				\$64,748,000	4 construction seasons	\$68,706,000	4 construction seasons
Option 5 Overlay Cost	Primary Runway Phase					\$39,305,000	
						\$57,760,000	

DICKINSON THEODORE ROOSEVELT REGIONAL AIRPORT
DICKINSON, NORTH DAKOTA
ANALYSIS OF PROBABLE COSTS (Asphalt for Regional Aircraft - less than 100,000 lbs.)
7,700 ft x 150 ft Runway for Alternate F (Construction Option 1)

Land Acquisition					
Item	Qty.	Unit	Unit Price	Total	
Fee Simple Acquisition	297	Acres	\$ 1,000.00	\$	297,000.00
Administration					5,000.00
Engineering (Assistance with Land Acquisition)					75,000.00
Engineering Assistance to Vacate Portions of Section Line Roads					25,000.00
Appraisal					25,000.00
Review Appraisal					25,000.00
Attorney					75,000.00
Title Work					10,000.00
FAA Closeout Report					10,000.00
Total Estimated Project Cost				\$	547,000
Total Estimated Project Cost (with 10% contingency)				\$	602,000

PRELIMINARY

Airport Wildlife Fence						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
SP-F-168	1	8' Wildlife Fence with High Tensile Wire Top	28,000	L.F.	\$ 10.00	\$ 280,000.00
SP-F-168	2	24' x 8' Slide Open Wildlife Fence Gate with High Tensile Wire Top	8	Each	5,000.00	40,000.00
SP-F-169	3	Remove & Dispose of Wildlife Fence	7,300	L.F.	4.00	29,200.00
SP-Gen	4	Install Road Closed Barriers	2	Each	2,500.00	5,000.00
SP-Gen	5	Mobilization	1	L.S.	43,000.00	43,000.00
Total Estimated Cost						\$ 397,200.00
Other Costs:						
Administration				\$	1,500	
Design & Bidding					40,000	
Construction Administration & Observation					48,000	
Construction Testing					7,500	
FAA Closeout Report					5,000	
Total Other Costs:				\$	102,000	
Total Estimated Project Cost				\$	500,000	
Total Estimated Project Cost (with 10% contingency)				\$	550,000	

Construct 7700' x 150' Runway Pavements						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	1,476,800	C.Y.	\$ 1.00	\$ 1,476,800.00
P-152	2	Water	16,800	M Gal.	30.00	504,000.00
P-154	3	16-inch Subbase	57,800	C.Y.	50.00	2,890,000.00
SP-P-181	4	Soil Stabilization Material	136,600	S.Y.	5.00	683,000.00
P-209	5	12-inch Crushed Aggregate Base Course	42,800	C.Y.	85.00	3,638,000.00
SP-P-230	6	Geotextile Fabric	136,600	S.Y.	3.00	409,800.00
P-401	7	4-inch Bituminous Base Course	28,500	Ton	40.00	1,140,000.00
P-401	8	Asphalt Cement - Type PG 58-28	1,850	Ton	750.00	1,387,500.00
P-401	9	4-inch Plant Mix Bituminous Pavement	28,500	Ton	50.00	1,425,000.00
P-401	10	Asphalt Cement - Type PG 58-28	1,850	Ton	750.00	1,387,500.00
P-603	11	Bituminous Tack Coat	19,300	Gal.	3.50	67,550.00
P-620	12	Runway and Taxiway Painting	111,000	S.F.	1.00	111,000.00
P-621	13	Sawcut Grooving	112,400	S.Y.	2.00	224,800.00
D-701	14	36-inch RCP, Class III	5,000	L.F.	300.00	1,500,000.00
D-701	15	36-inch RCES, Class III	16	Ea.	1,500.00	24,000.00
D-705	16	4-inch Perforated PVC Edgedrain Pipe with Filter Sock	15,400	L.F.	15.00	231,000.00
D-705	17	4-inch PVC Outlet Line & Headwall	62	Ea.	850.00	52,700.00
T-901	18	Seeding	125	Acres	750.00	93,750.00
T-905	19	Topsoiling (On Site)	67,000	C.Y.	8.00	536,000.00
T-908	20	Mulching	605,000	S.Y.	1.00	605,000.00
SP-T-910	21	Erosion Control Fiber Mat	620	S.Y.	10.00	6,200.00
SP-T-912	22	Straw Biorolls	4,000	L.F.	10.00	40,000.00
SP-Gen	23	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	24	Airside Traffic Control	1	L.S.	100,000.00	100,000.00
SP-Gen	25	Mobilization	1	L.S.	2,225,000.00	2,225,000.00
Total Estimated Cost						\$ 20,768,600.00
Other Costs:						
Administration				\$	2,000	
Design & Bidding					415,000	
Construction Administration & Observation					623,000	
Construction Testing					150,000	
FAA Closeout Report					8,000	
Total Other Costs:				\$	1,198,000	
Total Estimated Project Cost				\$	21,967,000	
Total Estimated Project Cost (with 10% contingency)				\$	24,164,000	

PRELIMINARY

Construct High Intensity Runway Lighting						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
L-107	1	L-807 Lighted Windcone	1	Each	\$ 9,000.00	\$ 9,000.00
L-107	2	L-806 Lighted Windcone	2	Each	6,500.00	13,000.00
L-108	3	#8 5KV L-824 Cable	19,000	L.F.	1.50	28,500.00
L-108	4	#6 Counterpoise	17,000	L.F.	1.00	17,000.00
L-108	5	Cable Ploving (Counterpoise Only)	15,000	L.F.	2.00	30,000.00
L-108	6	#2 AWG Cu Type THWN	3,600	L.F.	2.25	8,100.00
L-108	7	#6 Cu Ground	1,300	L.F.	1.25	1,625.00
L-110	8	2" PVC Conduit	17,000	L.F.	6.00	102,000.00
L-110	9	3x3x2" Duct Bank (Sand Encased)	500	L.F.	60.00	30,000.00
L-110	10	1x4x2" Duct Bank (Sand Encased)	200	L.F.	35.00	7,000.00
SP-L-999	11	HI Runway Light (Base Mount)	72	Each	900.00	64,800.00
SP-L-999	12	HI Threshold Light (Base Mount)	16	Each	900.00	14,400.00
SP-L-999	13	L-858 Lighted Sign	10	Each	4,800.00	48,000.00
SP-L-999	14	L-858 Lighted Sign (DRS)	6	Each	4,200.00	25,200.00
SP-L-999	15	L-880 PAPI Unit	2	Each	17,000.00	34,000.00
SP-L-999	16	L-849 REIL	2	Each	15,000.00	30,000.00
SP-L-999	17	Constant Current Regulator	1	Each	18,000.00	18,000.00
SP-L-999	18	L-8678 Base Can with Solid Cover	10	Each	650.00	6,500.00
SP-L-999	19	Electrical Manhole	2	Each	10,000.00	20,000.00
SP-Gen	20	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	21	Airside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	22	Mobilization	1	L.S.	71,000.00	71,000.00
Total Estimated Cost						\$ 663,125.00
Other Costs:						
Administration				\$	2,000	
Design & Bidding					66,000	
Construction Administration & Observation					80,000	
Construction Testing					35,000	
FAA Closeout Report					6,000	
Total Other Costs:				\$	189,000	
Total Estimated Project Cost				\$	853,000	
Total Estimated Project Cost (with 10% contingency)				\$	939,000	

Summary		Total
Land Acquisition		\$ 602,000
Airport Wildlife Fence		550,000
Construct 7700' x 150' Runway Pavements		24,164,000
Construct High Intensity Runway Lighting		939,000
TOTAL		\$ 26,255,000

PRELIMINARY

DICKINSON THEODORE ROOSEVELT REGIONAL AIRPORT
 DICKINSON, NORTH DAKOTA
 ANALYSIS OF PROBABLE COSTS (Asphalt for Regional Aircraft - less than 100,000 lbs.)
 7,700 ft x 100 ft Parallel Taxiway for Alternate F (Phased with Overlay) (Construction Option 1)

Construct 2400' x 50' Taxiway Pavement - Stage 1						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	202,200	C.Y.	\$ 4.00	\$ 808,800.00
P-152	2	Water	2,200	M Gal.	30.00	66,000.00
P-154	3	16-Inch Subbase	6,200	C.Y.	50.00	310,000.00
SP-P-181	4	Soil Stabilization Material	14,600	S.Y.	5.00	73,000.00
P-209	5	12-Inch Crushed Aggregate Base Course	4,600	C.Y.	85.00	391,000.00
SP-P-230	6	Geotextile Fabric	14,600	S.Y.	3.00	43,800.00
P-401	7	4-Inch Bituminous Base Course	3,000	Ton	40.00	120,000.00
P-401	8	Asphalt Cement - Type PG 58-28	200	Ton	750.00	150,000.00
P-401	9	4-Inch Plant Mix Bituminous Pavement	3,000	Ton	50.00	150,000.00
P-401	10	Asphalt Cement - Type PG 58-28	200	Ton	750.00	150,000.00
P-603	11	Bituminous Tack Coat	2,000	Gal.	3.50	7,000.00
P-620	12	Runway and Taxiway Painting	40,000	S.F.	1.50	60,000.00
D-701	13	36-Inch RCP, Class III	2,400	L.F.	300.00	720,000.00
D-701	14	36-Inch RCES, Class III	16	Ea.	1,500.00	24,000.00
D-705	15	4-Inch Perforated PVC Edgedrain Pipe with Filter Sock	5,360	L.F.	15.00	80,400.00
D-705	16	4-Inch PVC Outlet Line & Headwall	21	Ea.	850.00	17,850.00
T-901	17	Seeding	13	Acre	750.00	9,750.00
T-905	18	Topsoiling (On Site)	7,100	C.Y.	15.00	106,500.00
T-908	19	Mulching	62,920	S.Y.	1.00	62,920.00
SP-T-910	20	Erosion Control Fiber Mat	210	S.Y.	10.00	2,100.00
SP-T-912	21	Straw Biorolls	1,000	L.F.	10.00	10,000.00
SP-Gen	22	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	23	Airside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	24	Mobilization	1	L.S.	414,000.00	414,000.00

Total Estimated Cost \$ 3,862,120.00

Other Costs:	
Administration	\$ 2,000
Design & Bidding	116,000
Construction Administration & Observation	154,000
Construction Testing	125,000
FAA Closeout Report	7,000
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Total Other Costs: \$ 404,000

Total Estimated Project Cost \$ 4,267,000

Total Estimated Project Cost (with 10% contingency) \$ 4,694,000

Overlay 5200' x 50' Taxiway Pavements - Stage 2						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-401	1	11-Inch Plant Mix Bituminous Pavement Overlay	35,300	Ton	75.00	2,647,500.00
P-401	2	Asphalt Cement - Type PG 58-28	2,290	Ton	750.00	1,717,500.00
SP-P-411	3	Remove and Dispose of Bituminous Pavement	60,000	S.Y.	5.00	300,000.00
P-603	4	Bituminous Tack Coat	9,000	Gal.	3.50	31,500.00
P-620	5	Runway and Taxiway Painting	20,000	S.F.	1.50	30,000.00
D-705	6	4-Inch Perforated PVC Edgedrain Pipe with Filter Sock	10,400	L.F.	15.00	156,000.00
D-705	7	4-Inch PVC Outlet Line & Headwall	42	Ea.	850.00	35,700.00
T-901	6	Seeding	10	Acre	750.00	7,500.00
T-905	7	Topsoiling (On Site)	15,000	C.Y.	14.00	210,000.00
T-908	8	Mulching	48,400	S.Y.	1.00	48,400.00
SP-T-912	9	Straw Biorolls	10,000	L.F.	10.00	100,000.00
SP-Gen	10	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	11	Airside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	12	Mobilization	1	L.S.	644,000.00	644,000.00

Total Estimated Cost \$ 6,013,100.00

Other Costs:	
Administration	\$ 2,000
Design & Bidding	481,000
Construction Administration & Observation	601,000
Construction Testing	50,000
FAA Closeout Report	7,000
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Total Other Costs: \$ 1,141,000

Total Estimated Project Cost \$ 7,155,000

Total Estimated Project Cost (with 10% contingency) \$ 7,871,000

Construct Taxiway Lighting						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
L-108	1	Cable Ploving (Counterpoise Only)	15,000	L.F.	2.00	30,000.00
L-108	2	#2 AWG Cu Type THWN	3,600	L.F.	2.25	8,100.00
L-108	3	#6 Cu Ground	1,300	L.F.	1.25	1,625.00
L-110	4	2" PVC Conduit	17,000	L.F.	6.00	102,000.00
L-110	5	3x3x2" Duct Bank (Sand Encased)	500	L.F.	60.00	30,000.00
L-110	6	1x4x2" Duct Bank (Sand Encased)	200	L.F.	35.00	7,000.00
SP-L-999	7	MI Taxiway Light (Base Mount)	160	Each	800.00	128,000.00
SP-L-999	8	L-858 Lighted Sign	7	Each	4,800.00	33,600.00
SP-L-999	9	Constant Current Regulator	1	Each	18,000.00	18,000.00
SP-L-999	10	L-867B Base Can with Solid Cover	10	Each	650.00	6,500.00
SP-L-999	11	Electrical Manhole	2	Each	10,000.00	20,000.00
SP-L-999	12	Remove Existing Electrical Equipment	1	L.S.	5,000.00	5,000.00
SP-Gen	13	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	14	Airside Traffic Control	1	L.S.	65,000.00	65,000.00
SP-Gen	15	Mobilization	1	L.S.	56,000.00	56,000.00

Total Estimated Cost \$ 520,825.00

Other Costs:	
Administration	\$ 2,000
Design & Bidding	52,000
Construction Administration & Observation	62,000
Construction Testing	35,000
FAA Closeout Report	6,000
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Total Other Costs: \$ 157,000

Total Estimated Project Cost \$ 678,000

Total Estimated Project Cost (with 10% contingency) \$ 746,000

Summary			
Construct 2400' x 50' Taxiway Pavement - Stage 1			4,694,000
Overlay 5200' x 50' Taxiway Pavements - Stage 2			7,871,000
Construct Taxiway Lighting			746,000
TOTAL			<hr/>
			\$ 13,311,000

DICKINSON THEODORE ROOSEVELT REGIONAL AIRPORT
DICKINSON, NORTH DAKOTA
ANALYSIS OF PROBABLE COSTS (PCC for Regional Aircraft - less than 100,000 lbs.)
7,700 ft x 150 ft Runway for Alternate F (Construction Option 1)

Land Acquisition					
Item	Qty.	Unit	Unit Price		Total
Fee Simple Acquisition	297	Acres	\$ 1,000.00	\$	297,000.00
Administration					5,000.00
Engineering (Assistance with Land Acquisition)					75,000.00
Engineering Assistance to Vacate Portions of Section Line Roads					25,000.00
Appraisal					25,000.00
Review Appraisal					25,000.00
Attorney					75,000.00
Title Work					10,000.00
FAA Closeout Report					10,000.00
Total Estimated Project Cost				\$	547,000
Total Estimated Project Cost (with 10% contingency)				\$	602,000

PRELIMINARY

Airport Wildlife Fence						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
SP-F-168	1	8' Wildlife Fence with High Tensile Wire Top	28,000	L.F.	\$ 10.00	\$ 280,000.00
SP-F-168	2	24' x 8' Slide Open Wildlife Fence Gate with High Tensile Wire Top	8	Each	5,000.00	40,000.00
SP-F-169	3	Remove & Dispose of Wildlife Fence	7,300	L.F.	4.00	29,200.00
SP-Gen	4	Install Road Closed Barriers	2	Each	2,500.00	5,000.00
SP-Gen	5	Mobilization	1	L.S.	43,000.00	43,000.00
Total Estimated Cost						\$ 397,200.00
Other Costs:						
		Administration		\$	1,500	
		Design & Bidding			40,000	
		Construction Administration & Observation			48,000	
		Construction Testing			7,500	
		FAA Closeout Report			5,000	
Total Other Costs:				\$	102,000	
Total Estimated Project Cost						\$ 500,000
Total Estimated Project Cost (with 10% contingency)						\$ 550,000

Construct 7700' x 150' Runway Pavements						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	1,476,800	C.Y.	\$ 1.00	\$ 1,476,800.00
P-152	2	Water	15,600	M Gal.	30.00	468,000.00
SP-P-181	4	Soil Stabilization Material	136,600	S.Y.	5.00	683,000.00
P-209	5	12-inch Crushed Aggregate Base Course	42,800	C.Y.	85.00	3,638,000.00
SP-P-230	6	Geotextile Fabric	136,600	S.Y.	3.00	409,800.00
P-304	7	8-Inch Cement Treated Base	136,600	S.Y.	30.00	4,098,000.00
P-501	9	11-Inch Portland Cement Concrete Pavement	134,800	S.Y.	98.00	13,210,400.00
P-605	10	Joint Sealing	120,000	L.F.	3.50	420,000.00
P-620	11	Runway and Taxiway Painting	111,000	S.F.	1.00	111,000.00
P-621	13	Sawcut Grooving	112,400	S.Y.	2.00	224,800.00
D-701	14	36-Inch RCP, Class III	5,000	L.F.	300.00	1,500,000.00
D-701	15	36-Inch RCES, Class III	16	Ea.	1,500.00	24,000.00
D-705	16	4-Inch Perforated PVC Edgedrain Pipe with Filter Sock	15,400	L.F.	15.00	231,000.00
D-705	17	4-Inch PVC Outlet Line & Headwall	62	Ea.	850.00	52,700.00
T-901	18	Seeding	125	Acre	750.00	93,750.00
T-905	19	Topsoiling (On Site)	67,000	C.Y.	8.00	536,000.00
T-908	20	Mulching	605,000	S.Y.	1.00	605,000.00
SP-T-910	21	Erosion Control Fiber Mat	620	S.Y.	10.00	6,200.00
SP-T-912	22	Straw Biorolls	4,000	L.F.	10.00	40,000.00
SP-Gen	23	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	24	Airside Traffic Control	1	L.S.	100,000.00	100,000.00
SP-Gen	25	Mobilization	1	L.S.	3,353,000.00	3,353,000.00
Total Estimated Cost						\$ 31,291,450.00
Other Costs:						
		Administration		\$	2,000	
		Design & Bidding			626,000	
		Construction Administration & Observation			939,000	
		Construction Testing			150,000	
		FAA Closeout Report			8,000	
Total Other Costs:				\$	1,725,000	
Total Estimated Project Cost						\$ 33,017,000
Total Estimated Project Cost (with 10% contingency)						\$ 36,319,000

PRELIMINARY

Construct High Intensity Runway Lighting						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
L-107	1	L-807 Lighted Windcone	1	Each	\$ 9,000.00	\$ 9,000.00
L-107	2	L-808 Lighted Windcone	2	Each	6,500.00	13,000.00
L-108	3	#8 SKV L-824 Cable	19,000	L.F.	1.50	28,500.00
L-108	4	#6 Counterpoise	17,000	L.F.	1.00	17,000.00
L-108	5	Cable Plowing (Counterpoise Only)	15,000	L.F.	2.00	30,000.00
L-108	6	#2 AWG Cu Type THWN	3,600	L.F.	2.25	8,100.00
L-108	7	#6 Cu Ground	1,300	L.F.	1.25	1,625.00
L-110	8	2" PVC Conduit	17,000	L.F.	6.00	102,000.00
L-110	9	3x3x2" Duct Bank (Sand Encased)	500	L.F.	60.00	30,000.00
L-110	10	1x4x2" Duct Bank (Sand Encased)	200	L.F.	35.00	7,000.00
SP-L-999	11	HI Runway Light (Base Mount)	72	Each	900.00	64,800.00
SP-L-999	12	HI Threshold Light (Base Mount)	16	Each	900.00	14,400.00
SP-L-999	13	L-858 Lighted Sign	10	Each	4,800.00	48,000.00
SP-L-999	14	L-858 Lighted Sign (DRS)	6	Each	4,200.00	25,200.00
SP-L-999	15	L-880 PAPI Unit	2	Each	17,000.00	34,000.00
SP-L-999	16	L-849 REIL	2	Each	15,000.00	30,000.00
SP-L-999	17	Constant Current Regulator	1	Each	18,000.00	18,000.00
SP-L-999	18	L-867B Base Can with Solid Cover	10	Each	650.00	6,500.00
SP-L-999	19	Electrical Manhole	2	Each	10,000.00	20,000.00
SP-Gen	20	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	21	Airside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	22	Mobilization	1	L.S.	71,000.00	71,000.00
Total Estimated Cost						\$ 663,125.00
Other Costs:						
		Administration		\$	2,000	
		Design & Bidding			66,000	
		Construction Administration & Observation			80,000	
		Construction Testing			35,000	
		FAA Closeout Report			6,000	
Total Other Costs:				\$	189,000	
Total Estimated Project Cost						\$ 853,000
Total Estimated Project Cost (with 10% contingency)						\$ 939,000

Summary		Total
Land Acquisition		\$ 602,000
Airport Wildlife Fence		550,000
Construct 7700' x 150' Runway Pavements		36,319,000
Construct High Intensity Runway Lighting		939,000
TOTAL		\$ 38,410,000

PRELIMINARY

DICKINSON THEODORE ROOSEVELT REGIONAL AIRPORT
DICKINSON, NORTH DAKOTA
ANALYSIS OF PROBABLE COSTS (PCC for Regional Aircraft - less than 100,000 lbs.)
7,700 ft x 100 ft Parallel Taxiway for Alternate F (Phased with Overlay) (Construction Option 1)

Construct 2400' x 50' Taxiway Pavement - Stage 1						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	202,200	C.Y.	\$ 4.00	\$ 808,800.00
P-152	2	Water	2,100	M Gal.	30.00	63,000.00
SP-P-181	3	Soil Stabilization Material	14,600	S.Y.	5.00	73,000.00
P-209	4	12-Inch Crushed Aggregate Base Course	4,600	C.Y.	85.00	391,000.00
SP-P-230	5	Geotextile Fabric	14,600	S.Y.	3.00	43,800.00
P-304	6	8-Inch Cement Treated Base	14,600	S.Y.	30.00	438,000.00
P-501	7	11-Inch Portland Cement Concrete Pavement	14,000	S.Y.	98.00	1,372,000.00
P-605	8	Joint Sealing	23,920	L.F.	3.50	83,720.00
P-620	9	Runway and Taxiway Painting	40,000	S.F.	1.50	60,000.00
D-701	10	36-Inch RCP, Class III	2,400	L.F.	300.00	720,000.00
D-701	11	36-Inch RCFE, Class III	16	Ea.	1,500.00	24,000.00
D-705	12	4-Inch Perforated PVC Edgedrain Pipe with Filter Sock	5,360	L.F.	15.00	80,400.00
D-705	13	4-Inch PVC Outlet Line & Headwall	21	Ea.	850.00	17,850.00
T-901	14	Seeding	13	Acre	750.00	9,750.00
T-905	15	Topsoiling (On Site)	7,100	C.Y.	15.00	106,500.00
T-908	16	Mulching	62,920	S.Y.	1.00	62,920.00
SP-T-910	17	Erosion Control Fiber Mat	210	S.Y.	10.00	2,100.00
SP-T-912	18	Straw Biorolls	1,000	L.F.	10.00	10,000.00
SP-Gen	19	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	20	Airside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	21	Mobilization	1	L.S.	534,000.00	534,000.00

Total Estimated Cost \$ 4,985,840.00

Other Costs:		
Administration		\$ 2,000
Design & Bidding		150,000
Construction Administration & Observation		199,000
Construction Testing		125,000
FAA Closeout Report		7,000

Total Other Costs: \$ 483,000

Total Estimated Project Cost \$ 5,469,000

Total Estimated Project Cost (with 10% contingency) \$ 6,016,000

Overlay 5200' x 50' Taxiway Pavements - Stage 2						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-401	1	11-Inch Plant Mix Bituminous Pavement Overlay	35,300	Ton	75.00	2,647,500.00
P-401	2	Asphalt Cement - Type PG 58-28	2,290	Ton	750.00	1,717,500.00
SP-P-411	3	Remove and Dispose of Bituminous Pavement	60,000	S.Y.	5.00	300,000.00
P-603	4	Bituminous Tack Coat	9,000	Gal.	3.50	31,500.00
P-620	5	Runway and Taxiway Painting	20,000	S.F.	1.50	30,000.00
D-705	6	4-Inch Perforated PVC Edgedrain Pipe with Filter Sock	10,400	L.F.	15.00	156,000.00
D-705	7	4-Inch PVC Outlet Line & Headwall	42	Ea.	850.00	35,700.00
T-901	6	Seeding	10	Acre	750.00	7,500.00
T-905	7	Topsoiling (On Site)	15,000	C.Y.	14.00	210,000.00
T-908	8	Mulching	48,400	S.Y.	1.00	48,400.00
SP-T-912	9	Straw Biorolls	10,000	L.F.	10.00	100,000.00
SP-Gen	10	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	11	Airside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	12	Mobilization	1	L.S.	644,000.00	644,000.00

Total Estimated Cost \$ 6,013,100.00

Other Costs:		
Administration		\$ 2,000
Design & Bidding		481,000
Construction Administration & Observation		601,000
Construction Testing		50,000
FAA Closeout Report		7,000

Total Other Costs: \$ 1,141,000

Total Estimated Project Cost \$ 7,155,000

Total Estimated Project Cost (with 10% contingency) \$ 7,871,000

Construct Taxiway Lighting						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
L-108	1	Cable Plowing (Counterpoise Only)	15,000	L.F.	2.00	30,000.00
L-108	2	#2 AWG Cu Type THWN	3,600	L.F.	2.25	8,100.00
L-108	3	#6 Cu Ground	1,300	L.F.	1.25	1,625.00
L-110	4	2" PVC Conduit	17,000	L.F.	6.00	102,000.00
L-110	5	3x3x2" Duct Bank (Sand Encased)	500	L.F.	60.00	30,000.00
L-110	6	1x4x2" Duct Bank (Sand Encased)	200	L.F.	35.00	7,000.00
SP-L-999	7	M Taxiway Light (Base Mount)	160	Each	800.00	128,000.00
SP-L-999	8	L-858 Lighted Sign	7	Each	4,800.00	33,600.00
SP-L-999	9	Constant Current Regulator	1	Each	18,000.00	18,000.00
SP-L-999	10	L-867B Base Can with Solid Cover	10	Each	650.00	6,500.00
SP-L-999	11	Electrical Manhole	2	Each	10,000.00	20,000.00
SP-L-999	12	Remove Existing Electrical Equipment	1	L.S.	5,000.00	5,000.00
SP-Gen	13	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	14	Airside Traffic Control	1	L.S.	65,000.00	65,000.00
SP-Gen	15	Mobilization	1	L.S.	56,000.00	56,000.00

Total Estimated Cost \$ 520,825.00

Other Costs:		
Administration		\$ 2,000
Design & Bidding		52,000
Construction Administration & Observation		62,000
Construction Testing		35,000
FAA Closeout Report		6,000

Total Other Costs: \$ 157,000

Total Estimated Project Cost \$ 678,000

Total Estimated Project Cost (with 10% contingency) \$ 746,000

Summary		
Construct 2400' x 50' Taxiway Pavement - Stage 1		6,016,000
Overlay 5200' x 50' Taxiway Pavements - Stage 2		7,871,000
Construct Taxiway Lighting		746,000
TOTAL		\$ 14,633,000

DICKINSON THEODORE ROOSEVELT REGIONAL AIRPORT
 DICKINSON, NORTH DAKOTA
 ANALYSIS OF PROBABLE COSTS (Asphalt for Narrow Body Aircraft - 100,000 to 200,000 lbs.)
 7,700 ft x 150 ft Runway for Alternate F (Construction Option 1)

Land Acquisition					
Item	Qty.	Unit	Unit Price		Total
Fee Simple Acquisition	297	Acres	\$ 1,000.00	\$	297,000.00
Administration					5,000.00
Engineering (Assistance with Land Acquisition)					75,000.00
Engineering Assistance to Vacate Portions of Section Line Roads					25,000.00
Appraisal					25,000.00
Review Appraisal					25,000.00
Attorney					75,000.00
Title Work					10,000.00
FAA Closeout Report					10,000.00
Total Estimated Project Cost				\$	547,000
Total Estimated Project Cost (with 10% contingency)				\$	602,000

PRELIMINARY

Airport Wildlife Fence						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
SP-F-168	1	8' Wildlife Fence with High Tensile Wire Top	28,000	L.F.	\$ 10.00	\$ 280,000.00
SP-F-168	2	24' x 8' Slide Open Wildlife Fence Gate with High Tensile Wire Top	8	Each	5,000.00	40,000.00
SP-F-169	3	Remove & Dispose of Wildlife Fence	7,300	L.F.	4.00	29,200.00
SP-Gen	4	Install Road Closed Barriers	2	Each	2,500.00	5,000.00
SP-Gen	5	Mobilization	1	L.S.	43,000.00	43,000.00
Total Estimated Cost						\$ 397,200.00
Other Costs:						
Administration				\$	1,500	
Design & Bidding					40,000	
Construction Administration & Observation					48,000	
Construction Testing					7,500	
FAA Closeout Report					5,000	
Total Other Costs:				\$	102,000	
Total Estimated Project Cost				\$	500,000	
Total Estimated Project Cost (with 10% contingency)				\$	550,000	

Construct 7700' x 150' Runway Pavements						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	1,476,800	C.Y.	\$ 1.00	\$ 1,476,800.00
P-152	2	Water	16,800	M Gal.	30.00	504,000.00
P-154	3	16-inch Subbase	57,800	C.Y.	50.00	2,890,000.00
SP-P-181	4	Soil Stabilization Material	136,600	S.Y.	5.00	683,000.00
P-209	5	12-inch Crushed Aggregate Base Course	42,800	C.Y.	85.00	3,638,000.00
SP-P-230	6	Geotextile Fabric	136,600	S.Y.	3.00	409,800.00
P-401	7	4-inch Bituminous Base Course	28,500	Ton	40.00	1,140,000.00
P-401	8	Asphalt Cement - Type PG 58-28	1,850	Ton	750.00	1,387,500.00
P-401	9	9.5-inch Plant Mix Bituminous Pavement	67,700	Ton	50.00	3,385,000.00
P-401	10	Asphalt Cement - Type PG 58-28	4,400	Ton	750.00	3,300,000.00
P-603	11	Bituminous Tack Coat	38,500	Gal.	3.50	134,750.00
P-620	12	Runway and Taxiway Painting	111,000	S.F.	1.00	111,000.00
P-621	13	Sawcut Grooving	112,400	S.Y.	2.00	224,800.00
D-701	14	36-inch RCP, Class III	5,000	L.F.	300.00	1,500,000.00
D-701	15	36-inch RCP, Class III	16	Ea.	1,500.00	24,000.00
D-705	16	4-inch Perforated PVC Edgedrain Pipe with Filter Sock	15,400	L.F.	15.00	231,000.00
D-705	17	4-inch PVC Outlet Line & Headwall	62	Ea.	850.00	52,700.00
T-901	18	Seeding	125	Acres	750.00	93,750.00
T-905	19	Topsailing (On Site)	67,000	C.Y.	8.00	536,000.00
T-908	20	Mulching	605,000	S.Y.	1.00	605,000.00
SP-T-910	21	Erosion Control Fiber Mat	620	S.Y.	10.00	6,200.00
SP-T-912	22	Straw Biorolls	4,000	L.F.	10.00	40,000.00
SP-Gen	23	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	24	Airside Traffic Control	1	L.S.	100,000.00	100,000.00
SP-Gen	25	Mobilization	1	L.S.	2,698,000.00	2,698,000.00
Total Estimated Cost						\$ 25,181,300.00
Other Costs:						
Administration				\$	2,000	
Design & Bidding					504,000	
Construction Administration & Observation					755,000	
Construction Testing					150,000	
FAA Closeout Report					8,000	
Total Other Costs:				\$	1,419,000	
Total Estimated Project Cost				\$	26,601,000	
Total Estimated Project Cost (with 10% contingency)				\$	29,262,000	

PRELIMINARY

Construct High Intensity Runway Lighting						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
L-107	1	L-807 Lighted Windcone	1	Each	\$ 9,000.00	\$ 9,000.00
L-107	2	L-806 Lighted Windcone	2	Each	6,500.00	13,000.00
L-108	3	#8 5KV L-824 Cable	19,000	L.F.	1.50	28,500.00
L-108	4	#6 Counterpoise	17,000	L.F.	1.00	17,000.00
L-108	5	Cable Ploving (Counterpoise Only)	15,000	L.F.	2.00	30,000.00
L-108	6	#2 AWG Cu Type THWN	3,600	L.F.	2.25	8,100.00
L-108	7	#6 Cu Ground	1,300	L.F.	1.25	1,625.00
L-110	8	2" PVC Conduit	17,000	L.F.	6.00	102,000.00
L-110	9	3x3x2" Duct Bank (Sand Encased)	500	L.F.	60.00	30,000.00
L-110	10	1x4x2" Duct Bank (Sand Encased)	200	L.F.	35.00	7,000.00
SP-L-999	11	HI Runway Light (Base Mount)	72	Each	900.00	64,800.00
SP-L-999	12	HI Threshold Light (Base Mount)	16	Each	900.00	14,400.00
SP-L-999	13	L-858 Lighted Sign	10	Each	4,800.00	48,000.00
SP-L-999	14	L-858 Lighted Sign (DRS)	6	Each	4,200.00	25,200.00
SP-L-999	15	L-880 PAPI Unit	2	Each	17,000.00	34,000.00
SP-L-999	16	L-849 REIL	2	Each	15,000.00	30,000.00
SP-L-999	17	Constant Current Regulator	1	Each	18,000.00	18,000.00
SP-L-999	18	L-867B Base Can with Solid Cover	10	Each	650.00	6,500.00
SP-L-999	19	Electrical Manhole	2	Each	10,000.00	20,000.00
SP-Gen	20	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	21	Airside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	22	Mobilization	1	L.S.	71,000.00	71,000.00
Total Estimated Cost						\$ 663,125.00
Other Costs:						
Administration				\$	2,000	
Design & Bidding					66,000	
Construction Administration & Observation					80,000	
Construction Testing					35,000	
FAA Closeout Report					6,000	
Total Other Costs:				\$	189,000	
Total Estimated Project Cost				\$	853,000	
Total Estimated Project Cost (with 10% contingency)				\$	939,000	

Summary		Total
Land Acquisition		\$ 602,000
Airport Wildlife Fence		550,000
Construct 7700' x 150' Runway Pavements		29,262,000
Construct High Intensity Runway Lighting		939,000
TOTAL		\$ 31,353,000

PRELIMINARY

DICKINSON THEODORE ROOSEVELT REGIONAL AIRPORT
DICKINSON, NORTH DAKOTA
ANALYSIS OF PROBABLE COSTS (Asphalt for Narrow Body Aircraft - 100,000 to 200,000 lbs.)
7,700 ft x 100 ft Parallel Taxiway for Alternate F (Phased with Overlay) (Construction Option 1)

Construct 2400' x 50' Taxiway Pavement - Stage 1						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	202,200	C.Y.	\$ 4.00	\$ 808,800.00
P-152	2	Water	2,200	M Gal.	30.00	66,000.00
P-154	3	16-Inch Subbase	6,200	C.Y.	50.00	310,000.00
SP-P-181	4	Soil Stabilization Material	14,600	S.Y.	5.00	73,000.00
P-209	5	12-Inch Crushed Aggregate Base Course	4,600	C.Y.	85.00	391,000.00
SP-P-230	6	Geotextile Fabric	14,600	S.Y.	3.00	43,800.00
P-401	7	4-Inch Bituminous Base Course	3,000	Ton	40.00	120,000.00
P-401	8	Asphalt Cement - Type PG 58-28	200	Ton	750.00	150,000.00
P-401	9	9.5-Inch Plant Mix Bituminous Pavement	7,000	Ton	50.00	350,000.00
P-401	10	Asphalt Cement - Type PG 58-28	460	Ton	750.00	345,000.00
P-603	11	Bituminous Tack Coat	4,000	Gal.	3.50	14,000.00
P-620	12	Runway and Taxiway Painting	40,000	S.F.	1.50	60,000.00
D-701	13	36-Inch RCP, Class III	2,400	L.F.	300.00	720,000.00
D-701	14	36-Inch RCES, Class III	16	Ea.	1,500.00	24,000.00
D-705	15	4-Inch Perforated PVC Edgedrain Pipe with Filter Sock	5,360	L.F.	15.00	80,400.00
D-705	16	4-Inch PVC Outlet Line & Headwall	21	Ea.	850.00	17,850.00
T-901	17	Seeding	13	Acre	750.00	9,750.00
T-905	18	Topsoiling (On Site)	7,100	C.Y.	15.00	106,500.00
T-908	19	Mulching	62,920	S.Y.	1.00	62,920.00
SP-T-910	20	Erosion Control Fiber Mat	210	S.Y.	10.00	2,100.00
SP-T-912	21	Straw Biorolls	1,000	L.F.	10.00	10,000.00
SP-Gen	22	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	23	Airside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	24	Mobilization	1	L.S.	462,000.00	462,000.00

Total Estimated Cost \$ 4,312,120.00

Other Costs:

Administration	\$ 2,000
Design & Bidding	129,000
Construction Administration & Observation	172,000
Construction Testing	125,000
FAA Closeout Report	7,000

Total Other Costs: \$ 435,000

Total Estimated Project Cost \$ 4,748,000

Total Estimated Project Cost (with 10% contingency) \$ 5,223,000

Overlay 5200' x 50' Taxiway Pavements - Stage 2						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-401	1	16-Inch Plant Mix Bituminous Pavement Overlay	51,400	Ton	75.00	3,855,000.00
P-401	2	Asphalt Cement - Type PG 58-28	3,340	Ton	750.00	2,505,000.00
P-411	3	Remove and Dispose of Bituminous Pavement	60,000	S.Y.	5.00	300,000.00
P-603	4	Bituminous Tack Coat	9,000	Gal.	3.50	31,500.00
P-620	5	Runway and Taxiway Painting	20,000	S.F.	1.50	30,000.00
D-705	6	4-Inch Perforated PVC Edgedrain Pipe with Filter Sock	10,400	L.F.	15.00	156,000.00
D-705	7	4-Inch PVC Outlet Line & Headwall	42	Ea.	850.00	35,700.00
T-901	6	Seeding	10	Acre	750.00	7,500.00
T-905	7	Topsoiling (On Site)	15,000	C.Y.	14.00	210,000.00
T-908	8	Mulching	48,400	S.Y.	1.00	48,400.00
SP-T-912	9	Straw Biorolls	10,000	L.F.	10.00	100,000.00
SP-Gen	10	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	11	Airside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	12	Mobilization	1	L.S.	884,000.00	884,000.00

Total Estimated Cost \$ 8,248,100.00

Other Costs:

Administration	\$ 2,000
Design & Bidding	660,000
Construction Administration & Observation	825,000
Construction Testing	50,000
FAA Closeout Report	7,000

Total Other Costs: \$ 1,544,000

Total Estimated Project Cost \$ 9,793,000

Total Estimated Project Cost (with 10% contingency) \$ 10,773,000

Construct Taxiway Lighting						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
L-108	1	Cable Ploving (Counterpoise Only)	15,000	L.F.	2.00	30,000.00
L-108	2	#2 AWG Cu Type THWN	3,600	L.F.	2.25	8,100.00
L-108	3	#6 Cu Ground	1,300	L.F.	1.25	1,625.00
L-110	4	2" PVC Conduit	17,000	L.F.	6.00	102,000.00
L-110	5	3x3x2" Duct Bank (Sand Encased)	500	L.F.	60.00	30,000.00
L-110	6	1x4x2" Duct Bank (Sand Encased)	200	L.F.	35.00	7,000.00
SP-L-999	7	MI Taxiway Light (Base Mount)	160	Each	800.00	128,000.00
SP-L-999	8	L-858 Lighted Sign	7	Each	4,800.00	33,600.00
SP-L-999	9	Constant Current Regulator	1	Each	18,000.00	18,000.00
SP-L-999	10	L-867B Base Can with Solid Cover	10	Each	650.00	6,500.00
SP-L-999	11	Electrical Manhole	2	Each	10,000.00	20,000.00
SP-L-999	12	Remove Existing Electrical Equipment	1	L.S.	5,000.00	5,000.00
SP-Gen	13	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	14	Airside Traffic Control	1	L.S.	65,000.00	65,000.00
SP-Gen	15	Mobilization	1	L.S.	56,000.00	56,000.00

Total Estimated Cost \$ 520,825.00

Other Costs:

Administration	\$ 2,000
Design & Bidding	52,000
Construction Administration & Observation	62,000
Construction Testing	35,000
FAA Closeout Report	6,000

Total Other Costs: \$ 157,000

Total Estimated Project Cost \$ 678,000

Total Estimated Project Cost (with 10% contingency) \$ 746,000

Summary		
Construct 2400' x 50' Taxiway Pavement - Stage 1		5,223,000
Overlay 5200' x 50' Taxiway Pavements - Stage 2		10,773,000
Construct Taxiway Lighting		746,000
TOTAL		\$ 16,742,000

DICKINSON THEODORE ROOSEVELT REGIONAL AIRPORT
DICKINSON, NORTH DAKOTA
ANALYSIS OF PROBABLE COSTS (PCC for Narrow Body Aircraft - 100,000 to 200,000 lbs.)
7,700 ft x 150 ft Runway for Alternate F (Construction Option 1)

Land Acquisition					
Item	Qty.	Unit	Unit Price		Total
Fee Simple Acquisition	297	Acres	\$ 1,000.00	\$	297,000.00
Administration					5,000.00
Engineering (Assistance with Land Acquisition)					75,000.00
Engineering Assistance to Vacate Portions of Section Line Roads					25,000.00
Appraisal					25,000.00
Review Appraisal					25,000.00
Attorney					75,000.00
Title Work					10,000.00
FAA Closeout Report					10,000.00
Total Estimated Project Cost				\$	547,000
Total Estimated Project Cost (with 10% contingency)				\$	602,000

PRELIMINARY

Airport Wildlife Fence						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
SP-F-168	1	8' Wildlife Fence with High Tensile Wire Top	28,000	L.F.	\$ 10.00	\$ 280,000.00
SP-F-168	2	24' x 8' Slide Open Wildlife Fence Gate with High Tensile Wire Top	8	Each	5,000.00	40,000.00
SP-F-169	3	Remove & Dispose of Wildlife Fence	7,300	L.F.	4.00	29,200.00
SP-Gen	4	Install Road Closed Barriers	2	Each	2,500.00	5,000.00
SP-Gen	5	Mobilization	1	L.S.	43,000.00	43,000.00
Total Estimated Cost						\$ 397,200.00
Other Costs:						
		Administration		\$	1,500	
		Design & Bidding			40,000	
		Construction Administration & Observation			48,000	
		Construction Testing			7,500	
		FAA Closeout Report			5,000	
Total Other Costs:				\$	102,000	
Total Estimated Project Cost				\$	500,000	
Total Estimated Project Cost (with 10% contingency)				\$	550,000	

Construct 7700' x 150' Runway Pavements						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	1,476,800	C.Y.	\$ 1.00	\$ 1,476,800.00
P-152	2	Water	15,600	M Gal.	30.00	468,000.00
SP-P-181	3	Soil Stabilization Material	136,600	S.Y.	5.00	683,000.00
P-209	4	12-inch Crushed Aggregate Base Course	42,800	C.Y.	85.00	3,638,000.00
SP-P-230	5	Geotextile Fabric	136,600	S.Y.	3.00	409,800.00
P-304	6	8-Inch Cement Treated Base	136,600	S.Y.	30.00	4,098,000.00
P-501	7	15-Inch Portland Cement Concrete Pavement	134,800	S.Y.	134.00	18,063,200.00
P-605	8	Joint Sealing	120,000	L.F.	3.50	420,000.00
P-620	9	Runway and Taxiway Painting	111,000	S.F.	1.00	111,000.00
P-621	10	Sawcut Grooving	112,400	S.Y.	2.00	224,800.00
D-701	11	36-Inch RCP, Class III	5,000	L.F.	300.00	1,500,000.00
D-701	12	36-Inch RCES, Class III	16	Ea.	1,500.00	24,000.00
D-705	13	4-Inch Perforated PVC Edgedrain Pipe with Filter Sock	15,400	L.F.	15.00	231,000.00
D-705	14	4-Inch PVC Outlet Line & Headwall	62	Ea.	850.00	52,700.00
T-901	15	Seeding	125	Acre	750.00	93,750.00
T-905	16	Topsoling (On Site)	67,000	C.Y.	8.00	536,000.00
T-908	17	Mulching	605,000	S.Y.	1.00	605,000.00
SP-T-910	18	Erosion Control Fiber Mat	4,200	S.Y.	10.00	42,000.00
SP-T-912	19	Straw Biorolls	4,000	L.F.	10.00	40,000.00
SP-Gen	20	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	21	Airside Traffic Control	1	L.S.	100,000.00	100,000.00
SP-Gen	22	Mobilization	1	L.S.	3,935,000.00	3,935,000.00
Total Estimated Cost						\$ 36,726,250.00
Other Costs:						
		Administration		\$	2,000	
		Design & Bidding			735,000	
		Construction Administration & Observation			1,102,000	
		Construction Testing			150,000	
		FAA Closeout Report			8,000	
Total Other Costs:				\$	1,997,000	
Total Estimated Project Cost				\$	38,724,000	
Total Estimated Project Cost (with 10% contingency)				\$	42,597,000	

PRELIMINARY

Construct High Intensity Runway Lighting						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
L-107	1	L-807 Lighted Windcone	1	Each	\$ 9,000.00	\$ 9,000.00
L-107	2	L-808 Lighted Windcone	2	Each	6,500.00	13,000.00
L-108	3	#8 SKV L-824 Cable	19,000	L.F.	1.50	28,500.00
L-108	4	#6 Counterpoise	17,000	L.F.	1.00	17,000.00
L-108	5	Cable Plowing (Counterpoise Only)	15,000	L.F.	2.00	30,000.00
L-108	6	#2 AWG Cu Type THWN	3,600	L.F.	2.25	8,100.00
L-108	7	#6 Cu Ground	1,300	L.F.	1.25	1,625.00
L-110	8	2" PVC Conduit	17,000	L.F.	6.00	102,000.00
L-110	9	3x3x2" Duct Bank (Sand Encased)	500	L.F.	60.00	30,000.00
L-110	10	1x4x2" Duct Bank (Sand Encased)	200	L.F.	35.00	7,000.00
SP-L-999	11	HI Runway Light (Base Mount)	72	Each	900.00	64,800.00
SP-L-999	12	HI Threshold Light (Base Mount)	16	Each	900.00	14,400.00
SP-L-999	13	L-858 Lighted Sign	10	Each	4,800.00	48,000.00
SP-L-999	14	L-858 Lighted Sign (DRS)	6	Each	4,200.00	25,200.00
SP-L-999	15	L-880 PAPI Unit	2	Each	17,000.00	34,000.00
SP-L-999	16	L-849 REIL	2	Each	15,000.00	30,000.00
SP-L-999	17	Constant Current Regulator	1	Each	18,000.00	18,000.00
SP-L-999	18	L-867B Base Can with Solid Cover	10	Each	650.00	6,500.00
SP-L-999	19	Electrical Manhole	2	Each	10,000.00	20,000.00
SP-Gen	20	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	21	Airside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	22	Mobilization	1	L.S.	71,000.00	71,000.00
Total Estimated Cost						\$ 663,125.00
Other Costs:						
		Administration		\$	2,000	
		Design & Bidding			66,000	
		Construction Administration & Observation			80,000	
		Construction Testing			35,000	
		FAA Closeout Report			6,000	
Total Other Costs:				\$	189,000	
Total Estimated Project Cost				\$	853,000	
Total Estimated Project Cost (with 10% contingency)				\$	939,000	

Summary		Total
Land Acquisition		\$ 602,000
Airport Wildlife Fence		550,000
Construct 7700' x 150' Runway Pavements		42,597,000
Construct High Intensity Runway Lighting		939,000
TOTAL		\$ 44,688,000

PRELIMINARY

DICKINSON THEODORE ROOSEVELT REGIONAL AIRPORT
DICKINSON, NORTH DAKOTA
ANALYSIS OF PROBABLE COSTS (PCC for Narrow Body Aircraft - 100,000 to 200,000 lbs.)
7,700 ft x 100 ft Parallel Taxiway for Alternate F (Phased with Overlay) (Construction Option 1)

Construct 2400' x 50' Taxiway Pavement - Stage 1						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	202,200	C.Y.	\$ 4.00	\$ 808,800.00
P-152	2	Water	2,100	M Gal.	30.00	63,000.00
SP-P-181	3	Soil Stabilization Material	14,600	S.Y.	5.00	73,000.00
P-209	4	12-Inch Crushed Aggregate Base Course	4,600	C.Y.	85.00	391,000.00
SP-P-230	5	Geotextile Fabric	14,600	S.Y.	3.00	43,800.00
P-304	6	8-Inch Cement Treated Base	14,600	S.Y.	30.00	438,000.00
P-501	7	15-Inch Portland Cement Concrete Pavement	14,000	S.Y.	134.00	1,876,000.00
P-605	8	Joint Sealing	23,920	L.F.	3.50	83,720.00
P-620	9	Runway and Taxiway Painting	40,000	S.F.	1.50	60,000.00
D-701	10	36-Inch RCP, Class III	2,400	L.F.	300.00	720,000.00
D-701	11	36-Inch RCFE, Class III	16	Ea.	1,500.00	24,000.00
D-705	12	4-Inch Perforated PVC Edgedrain Pipe with Filter Sock	5,360	L.F.	15.00	80,400.00
D-705	13	4-Inch PVC Outlet Line & Headwall	21	Ea.	850.00	17,850.00
T-901	14	Seeding	13	Acre	750.00	9,750.00
T-905	15	Topsoiling (On Site)	7,100	C.Y.	15.00	106,500.00
T-908	16	Mulching	62,920	S.Y.	1.00	62,920.00
SP-T-910	17	Erosion Control Fiber Mat	210	S.Y.	10.00	2,100.00
SP-T-912	18	Straw Biorolls	1,000	L.F.	10.00	10,000.00
SP-Gen	19	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	20	Airside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	21	Mobilization	1	L.S.	595,000.00	595,000.00

Total Estimated Cost \$ 5,550,840.00

Other Costs:

Administration	\$ 2,000
Design & Bidding	167,000
Construction Administration & Observation	222,000
Construction Testing	125,000
FAA Closeout Report	7,000
Total Other Costs:	\$ 523,000

Total Estimated Project Cost \$ 6,074,000

Total Estimated Project Cost (with 10% contingency) \$ 6,682,000

Overlay 5200' x 50' Taxiway Pavements - Stage 2						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-401	1	16-Inch Plant Mix Bituminous Pavement Overlay	51,400	Ton	75.00	3,855,000.00
P-401	2	Asphalt Cement - Type PG 58-28	3,340	Ton	750.00	2,505,000.00
SP-P-411	3	Remove and Dispose of Bituminous Pavement	60,000	S.Y.	5.00	300,000.00
P-603	4	Bituminous Tack Coat	9,000	Gal.	3.50	31,500.00
P-620	5	Runway and Taxiway Painting	20,000	S.F.	1.50	30,000.00
D-705	6	4-Inch Perforated PVC Edgedrain Pipe with Filter Sock	10,400	L.F.	15.00	156,000.00
D-705	7	4-Inch PVC Outlet Line & Headwall	42	Ea.	850.00	35,700.00
T-901	6	Seeding	10	Acre	750.00	7,500.00
T-905	7	Topsoiling (On Site)	15,000	C.Y.	14.00	210,000.00
T-908	8	Mulching	48,400	S.Y.	1.00	48,400.00
SP-T-912	9	Straw Biorolls	10,000	L.F.	10.00	100,000.00
SP-Gen	10	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	11	Airside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	12	Mobilization	1	L.S.	884,000.00	884,000.00

Total Estimated Cost \$ 8,248,100.00

Other Costs:

Administration	\$ 2,000
Design & Bidding	660,000
Construction Administration & Observation	825,000
Construction Testing	50,000
FAA Closeout Report	7,000
Total Other Costs:	\$ 1,544,000

Total Estimated Project Cost \$ 9,793,000

Total Estimated Project Cost (with 10% contingency) \$ 10,773,000

Construct Taxiway Lighting						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
L-108	1	Cable Plowing (Counterpoise Only)	15,000	L.F.	2.00	30,000.00
L-108	2	#2 AWG Cu Type THWN	3,600	L.F.	2.25	8,100.00
L-108	3	#6 Cu Ground	1,300	L.F.	1.25	1,625.00
L-110	4	2" PVC Conduit	17,000	L.F.	6.00	102,000.00
L-110	5	3x3x2" Duct Bank (Sand Encased)	500	L.F.	60.00	30,000.00
L-110	6	1x4x2" Duct Bank (Sand Encased)	200	L.F.	35.00	7,000.00
SP-L-999	7	M Taxiway Light (Base Mount)	160	Each	800.00	128,000.00
SP-L-999	8	L-858 Lighted Sign	7	Each	4,800.00	33,600.00
SP-L-999	9	Constant Current Regulator	1	Each	18,000.00	18,000.00
SP-L-999	10	L-867B Base Can with Solid Cover	10	Each	650.00	6,500.00
SP-L-999	11	Electrical Manhole	2	Each	10,000.00	20,000.00
SP-L-999	12	Remove Existing Electrical Equipment	1	L.S.	5,000.00	5,000.00
SP-Gen	13	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	14	Airside Traffic Control	1	L.S.	65,000.00	65,000.00
SP-Gen	15	Mobilization	1	L.S.	56,000.00	56,000.00

Total Estimated Cost \$ 520,825.00

Other Costs:

Administration	\$ 2,000
Design & Bidding	52,000
Construction Administration & Observation	62,000
Construction Testing	35,000
FAA Closeout Report	6,000
Total Other Costs:	\$ 157,000

Total Estimated Project Cost \$ 678,000

Total Estimated Project Cost (with 10% contingency) \$ 746,000

Summary		
Construct 2400' x 50' Taxiway Pavement - Stage 1		6,682,000
Overlay 5200' x 50' Taxiway Pavements - Stage 2		10,773,000
Construct Taxiway Lighting		746,000
TOTAL		\$ 18,201,000

DICKINSON THEODORE ROOSEVELT REGIONAL AIRPORT
 DICKINSON, NORTH DAKOTA
 ANALYSIS OF PROBABLE COSTS (Asphalt for Regional Aircraft - less than 100,000 lbs.)
 7,700 ft x 100 ft Parallel Taxiway as Runway for Alternate G (Construction Option 2)

Construct 7700' x 100' Runway Pavements (Future Parallel Taxiway) - Stage 1 (4,700 feet)						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	850,000	C.Y.	\$ 2.00	\$ 1,700,000.00
P-152	2	Water	9,300	M Gal.	30.00	279,000.00
P-154	3	16-inch Subbase	20,700	C.Y.	50.00	1,035,000.00
SP-P-181	4	Soil Stabilization Material	56,000	S.Y.	5.00	280,000.00
P-209	5	12-Inch Crushed Aggregate Base Course	17,800	C.Y.	85.00	1,513,000.00
SP-P-230	6	Geotextile Fabric	56,000	S.Y.	3.00	168,000.00
P-401	7	4-inch Bituminous Base Course	11,600	Ton	40.00	464,000.00
P-401	8	Asphalt Cement - Type PG 58-28	750	Ton	750.00	562,500.00
P-401	9	4-inch Plant Mix Bituminous Pavement	11,600	Ton	50.00	580,000.00
P-401	10	Asphalt Cement - Type PG 58-28	750	Ton	750.00	562,500.00
P-603	11	Bituminous Tack Coat	7,800	Gal.	3.50	27,300.00
SP-P-411	12	Remove and Dispose of Bituminous Pavement	5,000	S.Y.	7.50	37,500.00
P-620	13	Runway and Taxiway Painting	75,000	S.F.	1.25	93,750.00
P-621	14	Sawcut Grooving	41,700	S.Y.	2.00	83,400.00
D-705	15	4-inch Perforated PVC Edgedrain Pipe with Filter Sock	9,400	L.F.	15.00	141,000.00
D-705	16	4-inch PVC Outlet Line & Headwall	38	Ea.	850.00	32,300.00
T-901	17	Seeding	28	Acre	750.00	21,000.00
T-905	18	Topsoiling (On Site)	16,000	C.Y.	14.00	224,000.00
T-908	19	Mulching	135,520	S.Y.	1.00	135,520.00
SP-T-910	20	Erosion Control Fiber Mat	380	S.Y.	10.00	3,800.00
SP-T-912	21	Straw Biorets	6,300	L.F.	10.00	63,000.00
SP-Gen	22	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	23	Airside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	24	Mobilization	1	L.S.	971,000.00	971,000.00

Total Estimated Cost		\$ 9,062,570.00
Other Costs:		
Administration	\$	2,000
Design & Bidding		272,000
Construction Administration & Observation		363,000
Construction Testing		125,000
FAA Closeout Report		7,000
Total Other Costs:	\$	769,000
Total Estimated Project Cost	\$	9,832,000
Total Estimated Project Cost (with 10% contingency)	\$	10,816,000

PRELIMINARY

Construct 7700' x 100' Runway Pavements (Future Parallel Taxiway) - Stage 2 (3,000 feet)						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	65,300	C.Y.	\$ 12.00	\$ 783,600.00
P-152	2	Water	1,100	M Gal.	30.00	33,000.00
P-154	3	16-inch Subbase	13,200	C.Y.	50.00	660,000.00
SP-P-181	4	Soil Stabilization Material	35,700	S.Y.	5.00	178,500.00
P-209	5	12-Inch Crushed Aggregate Base Course	11,300	C.Y.	85.00	960,500.00
SP-P-230	6	Geotextile Fabric	35,700	S.Y.	3.00	107,100.00
P-401	7	4-inch Bituminous Base Course	7,400	Ton	40.00	296,000.00
P-401	8	Asphalt Cement - Type PG 58-28	480	Ton	750.00	360,000.00
P-401	9	4-inch Plant Mix Bituminous Pavement	7,400	Ton	50.00	370,000.00
P-401	10	Asphalt Cement - Type PG 58-28	480	Ton	750.00	360,000.00
P-603	11	Bituminous Tack Coat	5,000	Gal.	3.50	17,500.00
P-620	12	Runway and Taxiway Painting	45,000	S.F.	1.50	67,500.00
P-621	13	Sawcut Grooving	27,000	S.Y.	2.00	54,000.00
D-705	14	4-inch Perforated PVC Edgedrain Pipe with Filter Sock	6,000	L.F.	15.00	90,000.00
D-705	15	4-inch PVC Outlet Line & Headwall	24	Ea.	850.00	20,400.00
T-901	16	Seeding	18	Acre	750.00	13,500.00
T-905	17	Topsoiling (On Site)	9,750	C.Y.	15.00	146,250.00
T-908	18	Mulching	87,120	S.Y.	1.00	87,120.00
SP-T-910	19	Erosion Control Fiber Mat	240	S.Y.	10.00	2,400.00
SP-T-912	20	Straw Biorets	4,000	L.F.	10.00	40,000.00
SP-Gen	21	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	22	Airside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	23	Mobilization	1	L.S.	568,000.00	568,000.00

Total Estimated Cost		\$ 5,300,370.00
Other Costs:		
Administration	\$	2,000
Design & Bidding		159,000
Construction Administration & Observation		212,000
Construction Testing		125,000
FAA Closeout Report		7,000
Total Other Costs:	\$	505,000
Total Estimated Project Cost	\$	5,806,000
Total Estimated Project Cost (with 10% contingency)	\$	6,387,000

PRELIMINARY

Construct High Intensity Runway Lighting						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
L-108	1	#8 5KV L-824 Cable	19,000	L.F.	1.50	28,500.00
L-108	2	#6 Counterpoise	17,000	L.F.	1.00	17,000.00
L-108	3	Cable Pleading (Counterpoise Only)	15,000	L.F.	2.00	30,000.00
L-108	4	#2 AWG Cu Type THWN	3,600	L.F.	2.25	8,100.00
L-108	5	#6 Cu Ground	1,300	L.F.	1.25	1,625.00
L-110	6	2" PVC Conduit	17,000	L.F.	6.00	102,000.00
L-110	7	3x3x2" Duct Bank (Sand Encased)	500	L.F.	60.00	30,000.00
L-110	8	1x4x2" Duct Bank (Sand Encased)	200	L.F.	35.00	7,000.00
SP-L-999	9	Hi Runway Light (Base Mount)	72	Each	900.00	64,800.00
SP-L-999	10	Hi Threshold Light (Base Mount)	16	Each	900.00	14,400.00
SP-L-999	11	L-858 Lighted Sign	10	Each	4,800.00	48,000.00
SP-L-999	12	L-858 Lighted Sign (DRS)	6	Each	4,200.00	25,200.00
SP-L-999	13	L-880 P40 Unit	2	Each	17,000.00	34,000.00
SP-L-999	14	L-849 REIL	2	Each	15,000.00	30,000.00
SP-L-999	15	Constant Current Regulator	1	Each	18,000.00	18,000.00
SP-L-999	16	L-867B Base Can with Solid Cover	10	Each	650.00	6,500.00
SP-L-999	17	Electrical Manhole	2	Each	10,000.00	20,000.00
SP-Gen	18	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	19	Airside Traffic Control	1	L.S.	65,000.00	65,000.00
SP-Gen	20	Mobilization	1	L.S.	67,000.00	67,000.00

Total Estimated Cost		\$ 627,125.00
Other Costs:		
Administration	\$	2,000
Design & Bidding		63,000
Construction Administration & Observation		75,000
Construction Testing		35,000
FAA Closeout Report		6,000
Total Other Costs:	\$	181,000
Total Estimated Project Cost	\$	809,000
Total Estimated Project Cost (with 10% contingency)	\$	890,000

Convert Runway to Taxiway						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-620	1	Obilitate Pavement Markings	110,000	S.F.	2.00	220,000.00
P-620	2	Runway and Taxiway Painting	75,000	S.F.	1.50	112,500.00
SP-L-999	3	Revise Lighting from HIRL to MITL	1	L.S.	400,000.00	400,000.00
SP-Gen	4	Airside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	5	Mobilization	1	L.S.	97,000.00	97,000.00

Total Estimated Cost		\$ 904,500.00
Other Costs:		
Administration	\$	2,000
Design & Bidding		36,000
Construction Administration & Observation		45,000
FAA Closeout Report		7,000
Total Other Costs:	\$	90,000
Total Estimated Project Cost	\$	995,000
Total Estimated Project Cost (with 10% contingency)	\$	1,095,000

PRELIMINARY

Summary		Total
Construct 7700' x 100' Runway Pavements (Future Parallel Taxiway) - Stage 1 (4,700 feet)		10,816,000
Construct 7700' x 100' Runway Pavements (Future Parallel Taxiway) - Stage 2 (3,000 feet)		6,387,000
Construct High Intensity Runway Lighting		890,000
Convert Runway to Taxiway		1,095,000
TOTAL	\$	19,188,000

DICKINSON THEODORE ROOSEVELT REGIONAL AIRPORT

DICKINSON, NORTH DAKOTA
 ANALYSIS OF PROBABLE COSTS (Asphalt for Regional Aircraft - less than 100,000 lbs.)
 7,700 ft x 150 ft Runway for Alternate G (Non-Phased Construction) (Construction Options 2, 3 and 5)

Land Acquisition					
Item	Qty.	Unit	Unit Price	Total	
Fee Simple Acquisition	232	Acres	\$ 1,000.00	\$	232,000.00
Administration					5,000.00
Engineering (Assistance with Land Acquisition)					75,000.00
Engineering Assistance to Vacate Portions of Section Line Roads					25,000.00
Appraisal					25,000.00
Review Appraisal					25,000.00
Attorney					75,000.00
Title Work					10,000.00
FAA Closeout Report					10,000.00
Total Estimated Project Cost				\$	482,000
Total Estimated Project Cost (with 10% contingency)				\$	531,000

PRELIMINARY

Airport Wildlife Fence						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
SP-F-168	1	8' Wildlife Fence with High Tensile Wire Top	28,500	L.F.	\$ 10.00	\$ 285,000.00
SP-F-168	2	24' x 8' Slide Open Wildlife Fence Gate with High Tensile Wire Top	8	Each	5,000.00	40,000.00
SP-F-169	3	Remove & Dispose of Wildlife Fence	7,500	L.F.	4.00	30,000.00
SP-Gen	4	Install Road Closed Barriers	2	Each	2,500.00	5,000.00
SP-Gen	5	Mobilization	1	L.S.	43,000.00	43,000.00
Total Estimated Cost						\$ 403,000.00
Other Costs:						
Administration				\$	1,500	
Design & Bidding					40,000	
Construction Administration & Observation					48,000	
Construction Testing					7,500	
FAA Closeout Report					5,000	
Total Other Costs:				\$	102,000	
Total Estimated Project Cost				\$	505,000	
Total Estimated Project Cost (with 10% contingency)				\$	556,000	

Construct 7700' x 150' Runway Pavements						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	400,000	C.Y.	\$ 3.00	\$ 1,200,000.00
P-152	2	Borrow Excavation	1,404,000	C.Y.	1.00	1,404,000.00
P-152	3	Water	20,100	M Gal.	30.00	603,000.00
P-154	4	16-inch Subbase	57,800	C.Y.	50.00	2,890,000.00
SP-P-181	5	Soil Stabilization Material	136,600	S.Y.	5.00	683,000.00
P-209	6	12-inch Crushed Aggregate Base Course	43,400	C.Y.	85.00	3,689,000.00
SP-P-230	7	Geotextile Fabric	136,600	S.Y.	3.00	409,800.00
P-401	8	4-inch Bituminous Base Course	28,500	Ton	40.00	1,140,000.00
P-401	9	Asphalt Cement - Type PG 58-28	1,850	Ton	750.00	1,387,500.00
P-401	10	4-inch Plant Mix Bituminous Pavement	28,500	Ton	50.00	1,425,000.00
P-401	11	Asphalt Cement - Type PG 58-28	1,850	Ton	750.00	1,387,500.00
P-603	12	Bituminous Tack Coat	19,300	Gal.	3.50	67,550.00
P-621	13	Sawcut Grooving	120,000	S.Y.	2.00	240,000.00
P-620	14	Runway and Taxiway Painting	111,000	S.F.	1.00	111,000.00
D-701	15	36-inch RCP, Class III	5,500	L.F.	300.00	1,650,000.00
D-701	16	36-inch RCES, Class III	18	Ea.	1,500.00	27,000.00
D-705	17	4-inch Perforated PVC Edgedrain Pipe with Filter Sock	15,400	L.F.	15.00	231,000.00
D-705	18	4-inch PVC Outlet Line & Headwall	62	Ea.	850.00	52,700.00
T-901	19	Seeding	200	Acre	750.00	150,000.00
T-905	20	Topsoiling (On Site)	110,000	C.Y.	4.00	440,000.00
T-908	21	Mulching	43,800	S.Y.	1.00	43,800.00
SP-T-910	22	Erosion Control Fiber Mat	3,330	S.Y.	10.00	33,300.00
SP-T-912	23	Straw Biorolls	18,900	L.F.	10.00	189,000.00
SP-Gen	24	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	25	Airside Traffic Control	1	L.S.	100,000.00	100,000.00
SP-Gen	26	Mobilization	1	L.S.	2,348,000.00	2,348,000.00
Total Estimated Cost						\$ 21,912,150.00
Other Costs:						
Administration				\$	2,000	
Design & Bidding					657,000	
Construction Administration & Observation					876,000	
Construction Testing					125,000	
FAA Closeout Report					7,000	
Total Other Costs:				\$	1,667,000	
Total Estimated Project Cost				\$	23,580,000	
Total Estimated Project Cost (with 10% contingency)				\$	25,938,000	

PRELIMINARY

Construct High Intensity Runway Lighting						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
L-107	1	L-807 Lighted Windcone	1	Each	\$ 9,000.00	\$ 9,000.00
L-107	2	L-806 Lighted Windcone	2	Each	6,500.00	13,000.00
L-108	3	#8 SKV L-824 Cable	19,000	L.F.	1.50	28,500.00
L-108	4	#6 Counterpoise	17,000	L.F.	1.00	17,000.00
L-108	5	Cable Flowing (Counterpoise Only)	15,000	L.F.	2.00	30,000.00
L-108	6	#2 AWG Cu Type THWN	3,400	L.F.	2.25	8,100.00
L-108	7	#6 Cu Ground	1,300	L.F.	1.25	1,625.00
L-110	8	2" PVC Conduit	17,000	L.F.	6.00	102,000.00
L-110	9	3x3x2" Duct Bank (Sand Encased)	500	L.F.	60.00	30,000.00
L-110	10	14x12" Duct Bank (Sand Encased)	200	L.F.	35.00	7,000.00
SP-L-999	11	HI Runway Light (Base Mount)	72	Each	900.00	64,800.00
SP-L-999	12	HI Threshold Light (Base Mount)	16	Each	900.00	14,400.00
SP-L-999	13	L-858 Lighted Sign	10	Each	4,800.00	48,000.00
SP-L-999	14	L-858 Lighted Sign (DRS)	6	Each	4,200.00	25,200.00
SP-L-999	15	L-880 PARF Unit	2	Each	17,000.00	34,000.00
SP-L-999	16	L-849 REIL	2	Each	15,000.00	30,000.00
SP-L-999	17	Constant Current Regulator	1	Each	18,000.00	18,000.00
SP-L-999	18	L-867B Base Can with Solid Cover	10	Each	650.00	6,500.00
SP-L-999	19	Electrical Manhole	2	Each	10,000.00	20,000.00
SP-Gen	20	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	21	Airside Traffic Control	1	L.S.	100,000.00	100,000.00
SP-Gen	22	Mobilization	1	L.S.	74,000.00	74,000.00
Total Estimated Cost						\$ 691,125.00
Other Costs:						
Administration				\$	2,000	
Design & Bidding					69,000	
Construction Administration & Observation					83,000	
Construction Testing					35,000	
FAA Closeout Report					6,000	
Total Other Costs:				\$	195,000	
Total Estimated Project Cost				\$	887,000	
Total Estimated Project Cost (with 10% contingency)				\$	976,000	

PRELIMINARY

Summary		
Land Acquisition		\$ 531,000
Airport Wildlife Fence		556,000
Construct 7700' x 150' Runway Pavements		25,938,000
Construct High Intensity Runway Lighting		976,000
TOTAL		\$ 28,001,000

**DICKINSON THEODORE ROOSEVELT REGIONAL AIRPORT
DICKINSON, NORTH DAKOTA
ANALYSIS OF PROBABLE COSTS (Asphalt for Regional Aircraft - less than 100,000 lbs.)
7,700 ft x 100 ft Parallel Taxiway for Alternate G (Construction Options 3, 4 and 5)**

Construct 7700' x 50' Parallel Taxiway Pavements - Stage 1 (4,700 feet)						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	300,000	C.Y.	4.00	1,200,000.00
P-152	2	Water	3,400	M Gal.	30.00	102,000.00
P-154	3	16-Inch Subbase	12,100	C.Y.	50.00	605,000.00
SP-P-181	4	Soil Stabilization Material	28,500	S.Y.	5.00	142,500.00
P-209	5	12-Inch Crushed Aggregate Base Course	9,100	C.Y.	85.00	773,500.00
SP-P-230	6	Geotextile Fabric	28,500	S.Y.	3.00	85,500.00
P-401	7	4-Inch Bituminous Base Course	5,800	Ton	40.00	232,000.00
P-401	8	Asphalt Cement - Type PG 58-28	380	Ton	750.00	285,000.00
P-401	9	4-Inch Plant Mix Bituminous Pavement	5,800	Ton	50.00	290,000.00
P-401	10	Asphalt Cement - Type PG 58-28	380	Ton	750.00	285,000.00
P-603	11	Bituminous Tack Coat	3,900	Gal.	3.50	13,650.00
SP-P-411	12	Remove and Dispose of Bituminous Pavement	13,500	S.Y.	7.50	101,250.00
P-620	13	Runway and Taxiway Painting	35,000	S.F.	1.25	43,750.00
D-705	14	4-Inch Perforated PVC Edgedrain Pipe with Filter Sock	9,400	L.F.	15.00	141,000.00
D-705	15	4-Inch PVC Outlet Line & Headwall	38	Ea.	850.00	32,300.00
T-901	16	Seeding	10	Acro	750.00	7,500.00
T-905	17	Topsolling (On Site)	15,000	C.Y.	14.00	210,000.00
T-908	18	Mulching	48,400	S.Y.	1.00	48,400.00
SP-T-910	19	Erosion Control Fiber Mat	380	S.Y.	10.00	3,800.00
SP-T-912	20	Straw Biorolls	9,400	L.F.	10.00	94,000.00
SP-Gen	21	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	22	Airside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	23	Mobilization	1	L.S.	574,000.00	574,000.00
Total Estimated Cost						\$ 5,355,150.00
Other Costs:						
Administration					\$	2,000
Design & Bidding						161,000
Construction Administration & Observation						214,000
Construction Testing						125,000
FAA Closeout Report						7,000
Total Other Costs:						\$ 509,000
Total Estimated Project Cost						\$ 5,865,000
Total Estimated Project Cost (with 10% contingency)						\$ 6,452,000

PRELIMINARY

Construct 7700' x 50' Parallel Taxiway Pavements - Stage 2 (3,000 feet)						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	175,000	C.Y.	4.00	700,000.00
P-152	2	Water	2,000	M Gal.	30.00	60,000.00
P-154	3	16-Inch Subbase	7,700	C.Y.	50.00	385,000.00
SP-P-181	4	Soil Stabilization Material	18,200	S.Y.	5.00	91,000.00
P-209	5	12-Inch Crushed Aggregate Base Course	5,800	C.Y.	85.00	493,000.00
SP-P-230	6	Geotextile Fabric	18,200	S.Y.	3.00	54,600.00
P-401	7	4-Inch Bituminous Base Course	3,700	Ton	40.00	148,000.00
P-401	8	Asphalt Cement - Type PG 58-28	240	Ton	750.00	180,000.00
P-401	9	4-Inch Plant Mix Bituminous Pavement	3,700	Ton	50.00	185,000.00
P-401	10	Asphalt Cement - Type PG 58-28	240	Ton	750.00	180,000.00
P-603	11	Bituminous Tack Coat	2,500	Gal.	3.50	8,750.00
P-620	12	Runway and Taxiway Painting	25,000	S.F.	1.50	37,500.00
D-705	13	4-Inch Perforated PVC Edgedrain Pipe with Filter Sock	6,000	L.F.	15.00	90,000.00
D-705	14	4-Inch PVC Outlet Line & Headwall	24	Ea.	850.00	20,400.00
T-901	15	Seeding	8	Acro	750.00	6,000.00
T-905	16	Topsolling (On Site)	10,000	C.Y.	15.00	150,000.00
T-908	17	Mulching	38,720	S.Y.	1.00	38,720.00
SP-T-910	18	Erosion Control Fiber Mat	240	S.Y.	10.00	2,400.00
SP-T-912	19	Straw Biorolls	9,400	L.F.	10.00	94,000.00
SP-Gen	20	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	21	Airside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	22	Mobilization	1	L.S.	361,000.00	361,000.00
Total Estimated Cost						\$ 3,370,370.00
Other Costs:						
Administration					\$	2,000
Design & Bidding						101,000
Construction Administration & Observation						135,000
Construction Testing						125,000
FAA Closeout Report						7,000
Total Other Costs:						\$ 370,000
Total Estimated Project Cost						\$ 3,741,000
Total Estimated Project Cost (with 10% contingency)						\$ 4,116,000

PRELIMINARY

Construct Medium Intensity Taxiway Lighting						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
L-108	1	#8 5KV L-824 Cable	19,000	L.F.	1.50	28,500.00
L-108	2	#6 Counterpoise	17,000	L.F.	1.00	17,000.00
L-108	3	Cable Ploving (Counterpoise Only)	15,000	L.F.	2.00	30,000.00
L-108	4	#2 AWG Cu Type THWN	3,600	L.F.	2.25	8,100.00
L-108	5	#6 Cu Ground	1,300	L.F.	1.25	1,625.00
L-110	6	2" PVC Conduit	17,000	L.F.	6.00	102,000.00
L-110	7	3x3x2" Duct Bank (Sand Encased)	500	L.F.	60.00	30,000.00
L-110	8	1x4x2" Duct Bank (Sand Encased)	200	L.F.	35.00	7,000.00
SP-L-999	9	HI Runway Light (Base Mount)	72	Each	900.00	64,800.00
SP-L-999	10	HI Threshold Light (Base Mount)	16	Each	900.00	14,400.00
SP-L-999	11	L-858 Lighted Sign	10	Each	4,800.00	48,000.00
SP-L-999	12	L-858 Lighted Sign (DRS)	6	Each	4,200.00	25,200.00
SP-L-999	13	L-880 PAPI Unit	2	Each	17,000.00	34,000.00
SP-L-999	14	L-849 REIL	2	Each	15,000.00	30,000.00
SP-L-999	15	Constant Current Regulator	1	Each	18,000.00	18,000.00
SP-L-999	16	L-867B Base Can with Solid Cover	10	Each	650.00	6,500.00
SP-L-999	17	Electrical Manhole	2	Each	10,000.00	20,000.00
SP-Gen	18	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	19	Airside Traffic Control	1	L.S.	65,000.00	65,000.00
SP-Gen	20	Mobilization	1	L.S.	67,000.00	67,000.00
Total Estimated Cost						\$ 627,125.00
Other Costs:						
Administration					\$	2,000
Design & Bidding						63,000
Construction Administration & Observation						75,000
Construction Testing						35,000
FAA Closeout Report						6,000
Total Other Costs:						\$ 181,000
Total Estimated Project Cost						\$ 809,000
Total Estimated Project Cost (with 10% contingency)						\$ 890,000

Summary		
Construct 7700' x 50' Parallel Taxiway Pavements - Stage 1 (4,700 feet)		6,452,000
Construct 7700' x 50' Parallel Taxiway Pavements - Stage 2 (3,000 feet)		4,116,000
Construct Medium Intensity Taxiway Lighting		890,000
TOTAL	\$	11,458,000

PRELIMINARY

**DICKINSON THEODORE ROOSEVELT REGIONAL AIRPORT
CONTRACT ITEM# 064274**

**ANALYSIS OF PROBABLE COSTS (Airport for Regional Aircraft - less than 100,000 lbs.)
7,700 to 150 ft Runway for Alternative C Phased Construction (Construction Option 4)**

Land Acquisition				
Item	Qty	Unit	Unit Price	Total
Free Simple Acquisition	232	Acres	1,000.00	\$ 232,000.00
Administration				5,000.00
Engineering (Assistance with Land Acquisition)				75,000.00
Engineering Assistance to Vacate Portions of Section Line Roads				25,000.00
Appraisal				25,000.00
Review Appraisal				25,000.00
Attorney				15,000.00
File Work				10,000.00
FAA Chemical Report				10,000.00
Total Estimated Project Cost				\$ 482,000.00
Total Estimated Project Cost (with 10% contingency)				\$ 531,000.00

PRELIMINARY

Airport Wildlife Fence				
Item	Qty	Unit	Unit Price	Total
SP-1-108	1	8 Wildlife Fence with High Tensile Wire Top	28,000	\$ 28,000.00
SP-1-108	2	2" x 4" Solid Open Wildlife Fence with High Tensile Wire Top	6	\$ 12,000.00
SP-1-109	7	Removal & Dispose of Wildlife Fence	7,000	\$ 49,000.00
SP-Gen	4	Install Road Curb Barriers	2	\$ 2,000.00
SP-Gen	5	Mobilization	1	\$ 41,000.00
Total Estimated Cost				\$ 492,000.00
Total Estimated Project Cost (with 10% contingency)				\$ 541,000.00

Other Costs				
Item	Qty	Unit	Unit Price	Total
Administration				1,100
Design & Bid/Build				40,000
Construction Administration & Observation				48,000
Construction Testing				1,100
FAA Chemical Report				1,000
Total Other Costs				\$ 102,200.00
Total Estimated Project Cost				\$ 505,000.00
Total Estimated Project Cost (with 10% contingency)				\$ 556,000.00

Continued 7700 x 150 Runway Pavements - Phase 1 (2,012 feet)						
Spec.	Item	Qty	Unit	Unit Price	Total	
P-112	1	Unexcavated Excavation	12,700	C.Y.	1.00	\$ 12,700.00
P-112	2	Water	1,450,000	C.F.	1.00	\$ 1,450,000.00
P-114	4	Soil Stabilization Material	15,000	M.Cu	30.00	\$ 450,000.00
P-200	5	12 Inch Crushed Aggregate Base Course	22,000	C.Y.	80.00	\$ 1,760,000.00
SP-1-101	5	Geotextile Fabric	53,400	S.Y.	3.00	\$ 160,200.00
SP-1-220	7	4 Inch Bituminous Base Course	11,200	Ton	40.00	\$ 448,000.00
P-401	9	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	10	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	11	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	12	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	13	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	14	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	15	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	16	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	17	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	18	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	19	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	20	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	21	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	22	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	23	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	24	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	25	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	26	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	27	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	28	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	29	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	30	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	31	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	32	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	33	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	34	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	35	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	36	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	37	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	38	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	39	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	40	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	41	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	42	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	43	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	44	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	45	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	46	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	47	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	48	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	49	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	50	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	51	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	52	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	53	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	54	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	55	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	56	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	57	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	58	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	59	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	60	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	61	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	62	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	63	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	64	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	65	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	66	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	67	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	68	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	69	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	70	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	71	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	72	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	73	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	74	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	75	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	76	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	77	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	78	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	79	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	80	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	81	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	82	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	83	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	84	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	85	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	86	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	87	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	88	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	89	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	90	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	91	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	92	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	93	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	94	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	95	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	96	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	97	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	98	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	99	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	100	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	101	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	102	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	103	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	104	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	105	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	106	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	107	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	108	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	109	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	110	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	111	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	112	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	113	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	114	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	115	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	116	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	117	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	118	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00
P-401	119	Asphalt Concrete - Type FC-5B-28	730	Ton	750.00	\$ 547,500.00

DICKINSON THEODORE ROOSEVELT REGIONAL AIRPORT
 DICKINSON, NORTH DAKOTA
 ANALYSIS OF PROBABLE COSTS (PCC for Regional Aircraft - less than 100,000 lbs.)
 7,700 ft x 100 ft Parallel Taxiway as Runway for Alternate G (Construction Option 2)

Construct 7700' x 100' Runway Pavements (Future Parallel Taxiway) - Stage 1 (4,700 feet)						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	850,000	C.Y.	\$ 2.00	\$ 1,700,000.00
P-152	2	Water	8,900	M Gal.	30.00	267,000.00
SP-P-181	3	Soil Stabilization Material	56,000	S.Y.	5.00	280,000.00
P-209	4	12-inch Crushed Aggregate Base Course	17,800	C.Y.	85.00	1,513,000.00
SP-P-230	5	Geotextile Fabric	56,000	S.Y.	3.00	168,000.00
P-304	6	8-inch Cement Treated Base	56,000	S.Y.	30.00	1,680,000.00
P-501	7	11-inch Portland Cement Concrete Pavement	54,800	S.Y.	94.00	5,151,200.00
P-605	8	Joint Sealing	90,000	L.F.	3.50	315,000.00
SP-P-411	9	Remove and Dispose of Bituminous Pavement	5,000	S.Y.	7.50	37,500.00
P-620	10	Runway and Taxiway Painting	75,000	S.F.	1.25	93,750.00
P-621	11	Sawcut Grooving	41,700	S.Y.	2.00	83,400.00
D-705	12	4-inch Perforated PVC Edgedrain Pipe with Filter Sock	9,400	L.F.	15.00	141,000.00
D-705	13	4-inch PVC Outlet Line & Headwall	38	Ea.	850.00	32,300.00
T-901	14	Seeding	28	Acres	750.00	21,000.00
T-905	15	Topsoiling (On Site)	16,000	C.Y.	14.00	224,000.00
T-908	16	Mulching	135,520	S.Y.	1.00	135,520.00
SP-T-910	17	Erosion Control Fiber Mat	380	S.Y.	10.00	3,800.00
SP-T-912	18	Straw Biorolls	6,300	L.F.	10.00	63,000.00
SP-Gen	19	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	20	Airside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	21	Mobilization	1	L.S.	1,439,000.00	1,439,000.00
Total Estimated Cost						\$ 13,433,470.00

Other Costs:

Administration	\$ 2,000
Design & Bidding	403,000
Construction Administration & Observation	537,000
Construction Testing	125,000
FAA Closures Report	7,000
Total Other Costs:	\$ 1,074,000

Total Estimated Project Cost \$ 14,508,000
Total Estimated Project Cost (with 10% contingency) \$ 15,959,000

PRELIMINARY

Construct 7700' x 100' Runway Pavements (Future Parallel Taxiway) - Stage 2 (3,000 feet)						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	65,300	C.Y.	\$ 12.00	\$ 783,600.00
P-152	2	Water	900	M Gal.	30.00	27,000.00
SP-P-181	3	Soil Stabilization Material	35,700	S.Y.	5.00	178,500.00
P-209	4	12-inch Crushed Aggregate Base Course	11,300	C.Y.	85.00	960,500.00
SP-P-230	5	Geotextile Fabric	35,700	S.Y.	3.00	107,100.00
P-304	6	8-inch Cement Treated Base	35,700	S.Y.	30.00	1,071,000.00
P-501	7	11-inch Portland Cement Concrete Pavement	35,000	S.Y.	94.00	3,290,000.00
P-605	8	Joint Sealing	57,000	L.F.	3.50	199,500.00
P-620	9	Runway and Taxiway Painting	45,000	S.F.	1.50	67,500.00
P-621	10	Sawcut Grooving	27,000	S.Y.	2.00	54,000.00
D-705	11	4-inch Perforated PVC Edgedrain Pipe with Filter Sock	6,000	L.F.	15.00	90,000.00
D-705	12	4-inch PVC Outlet Line & Headwall	24	Ea.	850.00	20,400.00
T-901	13	Seeding	18	Acres	750.00	13,500.00
T-905	14	Topsoiling (On Site)	9,750	C.Y.	15.00	146,250.00
T-908	15	Mulching	87,120	S.Y.	1.00	87,120.00
SP-T-910	16	Erosion Control Fiber Mat	240	S.Y.	10.00	2,400.00
SP-T-912	17	Straw Biorolls	4,000	L.F.	10.00	40,000.00
SP-Gen	18	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	19	Airside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	20	Mobilization	1	L.S.	867,000.00	867,000.00
Total Estimated Cost						\$ 8,090,370.00

Other Costs:

Administration	\$ 2,000
Design & Bidding	243,000
Construction Administration & Observation	324,000
Construction Testing	125,000
FAA Closures Report	7,000
Total Other Costs:	\$ 701,000

Total Estimated Project Cost \$ 8,792,000
Total Estimated Project Cost (with 10% contingency) \$ 9,672,000

PRELIMINARY

Construct High Intensity Runway Lighting						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
L-108	1	#8 SKV L-824 Cable	19,000	L.F.	1.50	28,500.00
L-108	2	#6 Counterpoise	17,000	L.F.	1.00	17,000.00
L-108	3	Cable Rerouting (Counterpoise Only)	15,000	L.F.	2.00	30,000.00
L-108	4	#2 AWG Cu Type THWN	3,600	L.F.	2.25	8,100.00
L-108	5	#6 Cu Ground	1,300	L.F.	1.25	1,625.00
L-110	6	2" PVC Conduit	17,000	L.F.	6.00	102,000.00
L-110	7	3x3x2" Duct Bank (Sand Encased)	500	L.F.	60.00	30,000.00
L-110	8	1x4x2" Duct Bank (Sand Encased)	200	L.F.	35.00	7,000.00
SP-L-999	9	HI Runway Light (Base Mount)	72	Each	900.00	64,800.00
SP-L-999	10	HI Threshold Light (Base Mount)	16	Each	900.00	14,400.00
SP-L-999	11	L-858 Lighted Sign	10	Each	4,800.00	48,000.00
SP-L-999	12	L-858 Lighted Sign (DRS)	6	Each	4,200.00	25,200.00
SP-L-999	13	L-880 PAPI Unit	2	Each	17,000.00	34,000.00
SP-L-999	14	L-849 REIL	2	Each	15,000.00	30,000.00
SP-L-999	15	Constant Current Regulator	1	Each	18,000.00	18,000.00
SP-L-999	16	L-847B Base Can with Solid Cover	10	Each	450.00	4,500.00
SP-L-999	17	Electrical Manhole	2	Each	10,000.00	20,000.00
SP-Gen	18	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	19	Airside Traffic Control	1	L.S.	65,000.00	65,000.00
SP-Gen	20	Mobilization	1	L.S.	67,000.00	67,000.00
Total Estimated Cost						\$ 627,125.00

Other Costs:

Administration	\$ 2,000
Design & Bidding	63,000
Construction Administration & Observation	75,000
Construction Testing	35,000
FAA Closures Report	6,000
Total Other Costs:	\$ 181,000

Total Estimated Project Cost \$ 809,000
Total Estimated Project Cost (with 10% contingency) \$ 890,000

PRELIMINARY

Convert Runway to Taxiway						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-620	1	Obliterate Pavement Markings	110,000	S.F.	2.00	220,000.00
P-620	2	Runway and Taxiway Painting	75,000	S.F.	1.50	112,500.00
SP-L-999	3	Revise Lighting from HRL to MITL	1	L.S.	400,000.00	400,000.00
SP-Gen	4	Airside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	5	Mobilization	1	L.S.	97,000.00	97,000.00
Total Estimated Cost						\$ 904,500.00

Other Costs:

Administration	\$ 2,000
Design & Bidding	36,000
Construction Administration & Observation	45,000
FAA Closures Report	7,000
Total Other Costs:	\$ 90,000

Total Estimated Project Cost \$ 995,000
Total Estimated Project Cost (with 10% contingency) \$ 1,095,000

Summary		Total
Construct 7700' x 100' Runway Pavements (Future Parallel Taxiway) - Stage 1 (4,700 feet)		15,959,000
Construct 7700' x 100' Runway Pavements (Future Parallel Taxiway) - Stage 2 (3,000 feet)		9,672,000
Construct High Intensity Runway Lighting		890,000
Convert Runway to Taxiway		1,095,000
TOTAL		\$ 27,616,000

DICKINSON THEODORE ROOSEVELT REGIONAL AIRPORT
DICKINSON, NORTH DAKOTA
ANALYSIS OF PROBABLE COSTS (PCC for Regional Aircraft - less than 100,000 lbs.)
7,700 ft x 150 ft Runway for Alternate G (Non-Phased Construction) (Construction Options 2, 3 and 5)

Land Acquisition				
Item	Qty.	Unit	Unit Price	Total
Fee Simple Acquisition	232	Acres	\$ 1,000.00	\$ 232,000.00
Administration				5,000.00
Engineering (Assistance with Land Acquisition)				75,000.00
Engineering Assistance To Vacate Portions of Section Line Roads				25,000.00
Appraisal				25,000.00
Review Appraisal				25,000.00
Attorney				75,000.00
Title Work				10,000.00
FAA Closeout Report				10,000.00
Total Estimated Project Cost				\$ 482,000
Total Estimated Project Cost (with 10% contingency)				\$ 531,000

PRELIMINARY

Airport Wildlife Fence						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
SP-F-168	1	8' Wildlife Fence with High Tensile Wire Top	28,500	L.F.	\$ 10.00	\$ 285,000.00
SP-F-168	2	24' x 8' Slide Open Wildlife Fence Gate with High Tensile Wire Top	8	Each	5,000.00	40,000.00
SP-F-169	3	Remove & Dispose of Wildlife Fence	7,500	L.F.	4.00	30,000.00
SP-Gen	4	Install Road Closed Barriers	2	Each	2,500.00	5,000.00
SP-Gen	5	Mobilization	1	L.S.	43,000.00	43,000.00
Total Estimated Cost						\$ 403,000.00
Other Costs:						
Administration				\$ 1,500		
Design & Bidding				40,000		
Construction Administration & Observation				48,000		
Construction Testing				7,500		
FAA Closeout Report				5,000		
Total Other Costs:				\$ 102,000		
Total Estimated Project Cost						\$ 505,000
Total Estimated Project Cost (with 10% contingency)						\$ 556,000

Construct 7700' x 150' Runway Pavements						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	400,000	C.Y.	\$ 3.00	\$ 1,200,000.00
P-152	2	Borrow Excavation	1,404,000	C.Y.	1.00	1,404,000.00
P-152	3	Water	18,900	M Gal.	30.00	567,000.00
SP-P-181	4	Soil Stabilization Material	136,600	S.Y.	5.00	683,000.00
P-209	5	12-Inch Crushed Aggregate Base Course	43,400	C.Y.	85.00	3,689,000.00
SP-P-230	6	Geotextile Fabric	136,600	S.Y.	3.00	409,800.00
P-304	7	8-Inch Cement Treated Base	136,600	S.Y.	30.00	4,098,000.00
P-501	8	11-Inch Portland Cement Concrete Pavement	134,800	S.Y.	98.00	13,210,400.00
P-605	9	Joint Sealing	156,000	L.F.	3.50	546,000.00
P-621	10	Sawcut Grooving	120,000	S.Y.	2.00	240,000.00
P-620	11	Runway and Taxiway Painting	111,000	S.F.	1.00	111,000.00
D-701	12	36-Inch RCP, Class III	5,500	L.F.	300.00	1,650,000.00
D-701	13	36-Inch RCES, Class III	18	Ea.	1,500.00	27,000.00
D-705	14	4-inch Perforated PVC Edgedrain Pipe with Filter Sock	15,400	L.F.	15.00	231,000.00
D-705	15	4-inch PVC Outlet Line & Headwall	42	Ea.	850.00	35,700.00
T-901	16	Seeding	200	Acro	750.00	150,000.00
T-905	17	Topssoiling (On Site)	110,000	C.Y.	4.00	440,000.00
T-908	18	Mulching	43,800	S.Y.	1.00	43,800.00
SP-T-910	19	Erosion Control Fiber Mat	3,330	S.Y.	10.00	33,300.00
SP-T-912	20	Straw Biorolls	18,900	L.F.	10.00	189,000.00
SP-Gen	21	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	22	Airside Traffic Control	1	L.S.	100,000.00	100,000.00
SP-Gen	23	Mobilization	1	L.S.	3,490,000.00	3,490,000.00
Total Estimated Cost						\$ 32,575,000.00
Other Costs:						
Administration				\$ 2,000		
Design & Bidding				977,000		
Construction Administration & Observation				1,303,000		
Construction Testing				125,000		
FAA Closeout Report				7,000		
Total Other Costs:				\$ 2,414,000		
Total Estimated Project Cost						\$ 34,989,000
Total Estimated Project Cost (with 10% contingency)						\$ 38,488,000

PRELIMINARY

Construct High Intensity Runway Lighting						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
L-107	1	L-807 Lighted Windcone	1	Each	\$ 9,000.00	\$ 9,000.00
L-107	2	L-806 Lighted Windcone	2	Each	6,500.00	13,000.00
L-108	3	#8 SKV L-824 Cable	19,000	L.F.	1.50	28,500.00
L-108	4	#6 Counterpoise	17,000	L.F.	1.00	17,000.00
L-108	5	Cable Plowing (Counterpoise Only)	15,000	L.F.	2.00	30,000.00
L-108	6	#2 AWG Cu Type THWN	3,600	L.F.	2.25	8,100.00
L-108	7	#6 Cu Ground	1,300	L.F.	1.25	1,625.00
L-110	8	2" PVC Conduit	17,000	L.F.	6.00	102,000.00
L-110	9	3x3x2" Duct Bank (Sand Encased)	500	L.F.	60.00	30,000.00
L-110	10	1x4x2" Duct Bank (Sand Encased)	200	L.F.	35.00	7,000.00
SP-L-999	11	HI Runway Light (Base Mount)	72	Each	900.00	64,800.00
SP-L-999	12	HI Threshold Light (Base Mount)	16	Each	900.00	14,400.00
SP-L-999	13	L-858 Lighted Sign	10	Each	4,800.00	48,000.00
SP-L-999	14	L-858 Lighted Sign (DRS)	6	Each	4,200.00	25,200.00
SP-L-999	15	L-880 PAPI Unit	2	Each	17,000.00	34,000.00
SP-L-999	16	L-849 REIL	2	Each	15,000.00	30,000.00
SP-L-999	17	Constant Current Regulator	1	Each	18,000.00	18,000.00
SP-L-999	18	L-867B Base Can with Solid Cover	10	Each	650.00	6,500.00
SP-L-999	19	Electrical Manhole	2	Each	10,000.00	20,000.00
SP-Gen	20	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	21	Airside Traffic Control	1	L.S.	100,000.00	100,000.00
SP-Gen	22	Mobilization	1	L.S.	74,000.00	74,000.00
Total Estimated Cost						\$ 691,125.00
Other Costs:						
Administration				\$ 2,000		
Design & Bidding				69,000		
Construction Administration & Observation				83,000		
Construction Testing				35,000		
FAA Closeout Report				6,000		
Total Other Costs:				\$ 195,000		
Total Estimated Project Cost						\$ 887,000
Total Estimated Project Cost (with 10% contingency)						\$ 976,000

PRELIMINARY

Summary		Total
Land Acquisition		\$ 531,000
Airport Wildlife Fence		556,000
Construct 7700' x 150' Runway Pavements		38,488,000
Construct High Intensity Runway Lighting		976,000
TOTAL		\$ 40,551,000

DICKINSON THEODORE ROOSEVELT REGIONAL AIRPORT
DICKINSON, NORTH DAKOTA
ANALYSIS OF PROBABLE COSTS (PCC for Regional Aircraft - less than 100,000 lbs.)
7,700 ft x 100 ft Parallel Taxiway for Alternate G (Construction Options 3, 4 and 5)

Construct 7700' x 50' Parallel Taxiway Pavements - Stage 1 (4,700 feet)						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	300,000	C.Y.	\$ 4.00	\$ 1,200,000.00
P-152	2	Water	3,200	M Gal.	30.00	96,000.00
SP-P-181	3	Soil Stabilization Material	28,500	S.Y.	5.00	142,500.00
P-209	4	12-Inch Crushed Aggregate Base Course	9,100	C.Y.	85.00	773,500.00
SP-P-230	5	Geotextile Fabric	28,500	S.Y.	3.00	85,500.00
P-304	6	8-Inch Cement Treated Base	28,500	S.Y.	30.00	855,000.00
P-501	7	11-Inch Portland Cement Concrete Pavement	27,400	S.Y.	98.00	2,685,200.00
P-605	8	Joint Sealing	35,000	L.F.	3.50	122,500.00
SP-P-411	9	Remove and Dispose of Bituminous Pavement	13,500	S.Y.	7.50	101,250.00
P-620	10	Runway and Taxiway Painting	35,000	S.F.	1.25	43,750.00
D-705	11	4-Inch Perforated PVC Edgedrain Pipe with Filter Sock	9,400	L.F.	15.00	141,000.00
D-705	12	4-Inch PVC Outlet Line & Headwall	38	Ea.	850.00	32,300.00
T-901	13	Seeding	10	Acre	750.00	7,500.00
T-905	14	Topssoiling (On Site)	15,000	C.Y.	14.00	210,000.00
T-908	15	Mulching	48,400	S.Y.	1.00	48,400.00
SP-T-910	16	Erosion Control Fiber Mat	380	S.Y.	10.00	3,800.00
SP-T-912	17	Straw Biorolls	9,400	L.F.	10.00	94,000.00
SP-Gen	18	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	19	Airside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	20	Mobilization	1	L.S.	807,000.00	807,000.00

Total Estimated Cost \$ 7,534,200.00

Other Costs:

Administration	\$ 2,000
Design & Bidding	226,000
Construction Administration & Observation	301,000
Construction Testing	125,000
FAA Closeout Report	7,000

Total Other Costs: \$ 661,000

Total Estimated Project Cost \$ 8,196,000

Total Estimated Project Cost (with 10% contingency) \$ 9,016,000

Construct 7700' x 50' Parallel Taxiway Pavements - Stage 2 (3,000 feet)						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	175,000	C.Y.	\$ 4.00	\$ 700,000.00
P-152	2	Water	1,900	M Gal.	30.00	57,000.00
SP-P-181	3	Soil Stabilization Material	18,200	S.Y.	5.00	91,000.00
P-209	4	12-Inch Crushed Aggregate Base Course	5,800	C.Y.	85.00	493,000.00
SP-P-230	5	Geotextile Fabric	18,200	S.Y.	3.00	54,600.00
P-304	6	8-Inch Cement Treated Base	18,200	S.Y.	30.00	546,000.00
P-501	7	11-Inch Portland Cement Concrete Pavement	17,500	S.Y.	98.00	1,715,000.00
P-605	8	Joint Sealing	22,000	L.F.	3.50	77,000.00
P-620	9	Runway and Taxiway Painting	25,000	S.F.	1.50	37,500.00
D-705	10	4-Inch Perforated PVC Edgedrain Pipe with Filter Sock	6,000	L.F.	15.00	90,000.00
D-705	11	4-Inch PVC Outlet Line & Headwall	24	Ea.	850.00	20,400.00
T-901	12	Seeding	8	Acre	750.00	6,000.00
T-905	13	Topssoiling (On Site)	10,000	C.Y.	15.00	150,000.00
T-908	14	Mulching	38,720	S.Y.	1.00	38,720.00
SP-T-910	15	Erosion Control Fiber Mat	240	S.Y.	10.00	2,400.00
SP-T-912	16	Straw Biorolls	9,400	L.F.	10.00	94,000.00
SP-Gen	17	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	18	Airside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	19	Mobilization	1	L.S.	511,000.00	511,000.00

Total Estimated Cost \$ 4,768,620.00

Other Costs:

Administration	\$ 2,000
Design & Bidding	143,000
Construction Administration & Observation	191,000
Construction Testing	125,000
FAA Closeout Report	7,000

Total Other Costs: \$ 468,000

Total Estimated Project Cost \$ 5,237,000

Total Estimated Project Cost (with 10% contingency) \$ 5,761,000

Construct Medium Intensity Taxiway Lighting						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
L-108	1	#8 5KV L-824 Cable	19,000	L.F.	1.50	28,500.00
L-108	2	#6 Counterpoise	17,000	L.F.	1.00	17,000.00
L-108	3	Cable Plowing (Counterpoise Only)	15,000	L.F.	2.00	30,000.00
L-108	4	#2 AWG Cu Type THWN	3,600	L.F.	2.25	8,100.00
L-108	5	#6 Cu Ground	1,300	L.F.	1.25	1,625.00
L-110	6	2" PVC Conduit	17,000	L.F.	6.00	102,000.00
L-110	7	3x3x2" Duct Bank (Sand Encased)	500	L.F.	60.00	30,000.00
L-110	8	1x4x2" Duct Bank (Sand Encased)	200	L.F.	35.00	7,000.00
SP-L-999	9	HI Runway Light (Base Mount)	72	Each	900.00	64,800.00
SP-L-999	10	HI Threshold Light (Base Mount)	16	Each	900.00	14,400.00
SP-L-999	11	L-858 Lighted Sign	10	Each	4,800.00	48,000.00
SP-L-999	12	L-858 Lighted Sign (DRS)	6	Each	4,200.00	25,200.00
SP-L-999	13	L-880 PAPI Unit	2	Each	17,000.00	34,000.00
SP-L-999	14	L-849 REIL	2	Each	15,000.00	30,000.00
SP-L-999	15	Constant Current Regulator	1	Each	18,000.00	18,000.00
SP-L-999	16	L-867B Base Can with Solid Cover	10	Each	650.00	6,500.00
SP-L-999	17	Electrical Manhole	2	Each	10,000.00	20,000.00
SP-Gen	18	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	19	Airside Traffic Control	1	L.S.	65,000.00	65,000.00
SP-Gen	20	Mobilization	1	L.S.	67,000.00	67,000.00

Total Estimated Cost \$ 627,125.00

Other Costs:

Administration	\$ 2,000
Design & Bidding	63,000
Construction Administration & Observation	75,000
Construction Testing	35,000
FAA Closeout Report	6,000

Total Other Costs: \$ 181,000

Total Estimated Project Cost \$ 809,000

Total Estimated Project Cost (with 10% contingency) \$ 890,000

Summary		
Construct 7700' x 50' Parallel Taxiway Pavements - Stage 1 (4,700 feet)		9,016,000
Construct 7700' x 50' Parallel Taxiway Pavements - Stage 2 (3,000 feet)		5,761,000
Construct Medium Intensity Taxiway Lighting		890,000
TOTAL	\$	15,667,000

DICKINSON (FREEDOM HODGKIN) REGIONAL AIRPORT
 DICKINSON, NORTH DAKOTA
 ANALYSIS OF PROBABLE COSTS (PCC for Regional Aircraft - less than 100,000 lbs.)
 7,200 ft x 150 ft Runway for Alternative C (Phase Construction) (Construction Option 4)

Land Acquisition					
Item	Qty	Unit	Unit Price	Total	
Fee Simple Acquisition	222	Acres	1,000.00	\$	222,000.00
Administration				\$	5,000.00
Engineering Assistance with Land Acquisition				\$	25,000.00
Engineering Assistance to Vacate Portions of Section Line Roads				\$	25,000.00
Appraisal				\$	25,000.00
Review Appraisal				\$	25,000.00
Attorney				\$	10,000.00
Title Work				\$	10,000.00
FAA Clearance Report				\$	10,000.00
Total Estimated Project Cost				\$	482,000.00
Total Estimated Project Cost (with 10% contingency)				\$	531,000.00

PRELIMINARY

Airport Wildlife Fence						
Spec	No.	Item	Qty	Unit	Unit Price	Total
SP-F-148	1	0' Wildlife Fence with High Tensile Wire Top	20,500	L.F.	1.00	\$ 20,500.00
SP-F-148	2	24" x 8' Slide Open Wildlife Fence Gate with High Tensile Wire Top	8	Each	5,000.00	\$ 40,000.00
SP-F-149	2	Removal & Reinstall of Wildlife Fence	1,500	L.F.	4.00	\$ 6,000.00
SP-Gan	4	Install Road Closed Barriers	2	Each	2,500.00	\$ 5,000.00
SP-Gan	5	Mobilization	1	L.S.	43,000.00	\$ 43,000.00
Total Estimated Cost						\$ 493,000.00
Total Estimated Project Cost (with 10% contingency)						\$ 542,000.00

Other Costs					
Item	Qty	Unit	Unit Price	Total	
Administration				\$	1,500.00
Design & Bidding				\$	40,000.00
Construction Administration & Observation				\$	48,000.00
Construction Testing				\$	7,000.00
FAA Clearance Report				\$	5,000.00
Total Other Costs				\$	102,000.00
Total Estimated Project Cost				\$	644,000.00
Total Estimated Project Cost (with 10% contingency)				\$	708,000.00

Construct 7200' x 150' Runway Pavements - Phase 1 (3,012 feet)						
Spec	No.	Item	Qty	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	12,700	C.Y.	14.00	\$ 177,800.00
P-152	2	Water	2,400,000	C.F.	1.00	\$ 2,400,000.00
P-152	3	Water	14,500	M.Gal.	30.00	\$ 435,000.00
SP-P-181	1	Soil Stabilization Material	5,400	S.Y.	5.00	\$ 27,000.00
P-209	4	12-Inch Crushed Aggregate Base Course	17,000	C.Y.	85.00	\$ 1,445,000.00
SP-P-220	1	Concrete Fabric	52,700	S.Y.	3.00	\$ 158,100.00
P-304	7	8-Inch Cement Treated Base	53,400	S.Y.	30.00	\$ 1,602,000.00
P-421	6	11-Inch Portland Cement Concrete Pavement	52,700	S.Y.	96.00	\$ 5,060,200.00
P-421	6	Joint Sealing	59,200	L.F.	3.50	\$ 207,200.00
P-421	6	Sealed Grooving	49,000	S.F.	1.00	\$ 49,000.00
P-420	11	Obstruction Pavement Markings	23,000	S.F.	2.00	\$ 46,000.00
P-420	12	Runway and Taxiway Painting	11,000	S.F.	1.00	\$ 11,000.00
D-301	13	36-Inch RCP, Class III	2,000	L.F.	300.00	\$ 600,000.00
D-305	15	4-Inch Perforated PVC Edge Drain Pipe with Filter Sock	5,860	L.F.	15.00	\$ 87,900.00
D-305	15	4-Inch Perforated PVC Edge Drain Pipe with Filter Sock	23	Each	850.00	\$ 19,550.00
T-601	17	Sealing	73	Acres	750.00	\$ 54,750.00
T-605	18	Topsoiling (On Site)	40,000	C.Y.	12.00	\$ 480,000.00
SP-T-610	19	Mulching	16,800	S.Y.	1.00	\$ 16,800.00
SP-T-610	20	Erosion Control Fabric Mat	400	S.Y.	18.00	\$ 7,200.00
SP-T-612	21	Straw Bunches	6,300	L.F.	10.00	\$ 63,000.00
SP-T-612	22	Temporary Threshhold Lighting	1	L.S.	3,000.00	\$ 3,000.00
SP-Gan	23	Fluid Office / Laboratory	1	L.S.	10,000.00	\$ 10,000.00
SP-Gan	24	Airside Traffic Control	1	L.S.	100,000.00	\$ 100,000.00
SP-Gan	25	Mobilization	1	L.S.	1,500,000.00	\$ 1,500,000.00
Total Estimated Cost						\$ 14,017,800.00
Total Estimated Project Cost (with 10% contingency)						\$ 15,419,580.00

PRELIMINARY

Construct 7200' x 150' Runway Pavements - Phase 2 (3,207 feet)						
Spec	No.	Item	Qty	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	26,000	C.Y.	4.00	\$ 1,040,000.00
P-152	2	Water	2,700,000	C.F.	1.00	\$ 2,700,000.00
SP-P-181	1	Soil Stabilization Material	21,300	S.Y.	5.00	\$ 106,500.00
P-209	4	12-Inch Crushed Aggregate Base Course	4,800	C.Y.	85.00	\$ 408,000.00
SP-P-220	1	Concrete Fabric	21,300	S.Y.	3.00	\$ 63,900.00
P-304	6	8-Inch Cement Treated Base	24,500	S.Y.	30.00	\$ 735,000.00
P-421	6	11-Inch Portland Cement Concrete Pavement	24,500	S.Y.	96.00	\$ 2,352,000.00
P-421	6	Joint Sealing	24,500	L.F.	3.50	\$ 85,750.00
P-421	6	Sealed Grooving	19,200	S.F.	2.00	\$ 38,400.00
SP-P-420	11	Obstruction Pavement Markings	11,000	S.F.	2.00	\$ 22,000.00
P-420	12	Runway and Taxiway Painting	11,000	S.F.	1.00	\$ 11,000.00
L-999	13	Temporary Threshhold Lighting	1	L.S.	3,500.00	\$ 3,500.00
D-301	14	36-Inch RCP, Class III	880	L.F.	300.00	\$ 264,000.00
D-305	15	4-Inch Perforated PVC Edge Drain Pipe with Filter Sock	2,460	L.F.	15.00	\$ 36,900.00
D-305	15	4-Inch Perforated PVC Edge Drain Pipe with Filter Sock	10	Each	850.00	\$ 8,500.00
T-601	17	Sealing	30	Acres	750.00	\$ 22,500.00
T-605	18	Topsoiling (On Site)	16,000	C.Y.	14.00	\$ 224,000.00
SP-T-610	19	Mulching	1,000	S.Y.	1.00	\$ 1,000.00
SP-T-610	20	Erosion Control Fabric Mat	300	S.Y.	10.00	\$ 3,000.00
SP-T-612	21	Straw Bunches	6,300	L.F.	10.00	\$ 63,000.00
SP-Gan	22	Fluid Office / Laboratory	1	L.S.	10,000.00	\$ 10,000.00
SP-Gan	24	Airside Traffic Control	1	L.S.	100,000.00	\$ 100,000.00
SP-Gan	25	Mobilization	1	L.S.	737,000.00	\$ 737,000.00
Total Estimated Cost						\$ 6,678,450.00
Total Estimated Project Cost (with 10% contingency)						\$ 7,346,295.00

PRELIMINARY

Construct 7200' x 150' Runway Pavements - Phase 3 (3,488 feet)						
Spec	No.	Item	Qty	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	12,000	C.Y.	4.00	\$ 48,000.00
P-152	2	Water	1,800,000	C.F.	1.00	\$ 1,800,000.00
SP-P-181	1	Soil Stabilization Material	61,900	S.Y.	5.00	\$ 309,500.00
P-209	4	12-Inch Crushed Aggregate Base Course	19,800	C.Y.	85.00	\$ 1,683,000.00
SP-P-220	1	Concrete Fabric	61,900	S.Y.	3.00	\$ 185,700.00
P-304	6	8-Inch Cement Treated Base	61,900	S.Y.	30.00	\$ 1,857,000.00
P-421	6	11-Inch Portland Cement Concrete Pavement	61,900	S.Y.	96.00	\$ 5,942,400.00
P-421	6	Joint Sealing	71,300	L.F.	3.50	\$ 250,050.00
P-421	6	Sealed Grooving	59,000	S.F.	2.00	\$ 118,000.00
SP-P-420	11	Obstruction Pavement Markings	59,000	S.F.	10.00	\$ 590,000.00
P-420	12	Runway and Taxiway Painting	23,000	S.F.	2.00	\$ 46,000.00
D-301	14	36-Inch RCP, Class III	11,000	L.F.	300.00	\$ 3,300,000.00
D-305	15	4-Inch Perforated PVC Edge Drain Pipe with Filter Sock	2,130	L.F.	15.00	\$ 31,950.00
D-305	15	4-Inch Perforated PVC Edge Drain Pipe with Filter Sock	29	Each	850.00	\$ 24,450.00
T-601	17	Sealing	87	Acres	750.00	\$ 65,250.00
T-605	18	Topsoiling (On Site)	47,000	C.Y.	12.00	\$ 564,000.00
SP-T-610	19	Mulching	87	Acres	750.00	\$ 65,250.00
SP-T-610	20	Erosion Control Fabric Mat	390	S.Y.	10.00	\$ 3,900.00
SP-T-612	21	Straw Bunches	6,300	L.F.	10.00	\$ 63,000.00
SP-Gan	22	Fluid Office / Laboratory	1	L.S.	10,000.00	\$ 10,000.00
SP-Gan	24	Airside Traffic Control	1	L.S.	100,000.00	\$ 100,000.00
SP-Gan	25	Mobilization	1	L.S.	1,619,000.00	\$ 1,619,000.00
Total Estimated Cost						\$ 15,110,495.00
Total Estimated Project Cost (with 10% contingency)						\$ 16,621,544.50

PRELIMINARY

Construct High Intensity Runway Lighting						
Spec	No.	Item	Qty	Unit	Unit Price	Total
L-107	1	L-801 Lighted Windows	1	Each	9,000.00	\$ 9,000.00
L-107	2	L-806 Lighted Windows	2	Each	6,500.00	\$ 13,000.00
L-108	3	48 RVC L-824 Cable	19,000	L.F.	1.50	\$ 28,500.00
L-108	4	AC Downstep	17,000	L.F.	1.00	\$ 17,000.00
L-108	5	Cable Raising (Elastomeric Grip)	15,000	L.F.	2.00	\$ 30,000.00
L-108	6	42 ABS Co Type TMRs	3,800	L.F.	2.25	\$ 8,550.00
L-108	7	48 Co Concrete	1,200	L.F.	1.25	\$ 1,500.00
L-110	8	2" PVC Conduit	10,000	L.F.	6.00	\$ 60,000.00
L-110	9	3/4" PVC Conduit	500	L.F.	40.00	\$ 20,000.00
L-110	10	1/4" PVC Conduit	390	L.F.	35.00	\$ 13,650.00
SP-L-999	11	18 Runway Light (Base Mount)	72	Each	900.00	\$ 64,800.00
SP-L-999	12	H Threshold Light (Base Mount)	18	Each	900.00	\$ 16,200.00
SP-L-999	13	L-808 Lighted Sign (Base Mount)	10	Each	4,500.00	\$ 45,000.00
SP-L-999	14	L-808 Lighted Sign (BEG)	6	Each	4,200.00	\$ 25,200.00
SP-L-999	15	L-880 RWY End	2	Each	17,000.00	\$ 34,000.00
SP-L-999	16	L-849 HEL	2	Each	10,000.00	\$ 20,000.00
SP-L-999	17	Concrete Current Regulator	1	Each	10,000.00	\$ 10,000.00
SP-L-999	18	L-847 Base Can with Solid Cover	10	Each	850.00	\$ 8,500.00
SP-L-999	19	Electrical Manhole	2	Each	10,000.00	\$ 20,000.00
SP-Gan	20	Fluid Office / Laboratory	1	L.S.	10,000.00	\$ 10,000.00
SP-Gan	21	Airside Traffic Control	1	L.S.	100,000.00	\$ 100,000.00
SP-Gan	22	Mobilization	1	L.S.	74,000.00	\$ 74,000.00
Total Estimated Cost						\$ 691,125.00
Total Estimated Project Cost (with 10% contingency)						\$ 758,237.50

PRELIMINARY

Summary					
Item	Qty	Unit	Unit Price	Total	
Land Acquisition				\$	531,000.00
Airport Wildlife Fence				\$	156,000.00
Construct 7200' x 150' Runway Pavements - Phase 1 (3,012 feet)				\$	14,017,800.00
Construct 7200' x 150' Runway Pavements - Phase 2 (3,207 feet)				\$	6,678,450.00
Construct 7200' x 150' Runway Pavements - Phase 3 (3,488 feet)				\$	17,913,000.00
Construct High Intensity Runway Lighting				\$	691,125.00
TOTAL				\$	44,985,000.00

PRELIMINARY

DICKINSON THEODORE ROOSEVELT REGIONAL AIRPORT
DICKINSON, NORTH DAKOTA
ANALYSIS OF PROBABLE COSTS (Asphalt for Narrow Body Aircraft - 100,000 to 200,000 lbs.)
7,700 ft x 100 ft Parallel Taxiway as Runway for Alternate G (Construction Option 2)

Construct 7700' x 100' Runway Pavements (Future Parallel Taxiway) - Stage 1 (4,700 feet)						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	850,000	C.Y.	\$ 2.00	\$ 1,700,000.00
P-152	2	Water	9,300	M Gal.	30.00	279,000.00
P-154	3	16-inch Subbase	20,700	C.Y.	50.00	1,035,000.00
SP-P-181	4	Soil Stabilization Material	56,000	S.Y.	5.00	280,000.00
P-209	5	12-Inch Crushed Aggregate Base Course	17,800	C.Y.	85.00	1,513,000.00
SP-P-230	6	Geotextile Fabric	56,000	S.Y.	3.00	168,000.00
P-401	7	4-inch Bituminous Base Course	11,600	Ton	40.00	464,000.00
P-401	8	Asphalt Cement - Type PG 58-28	750	Ton	750.00	562,500.00
P-401	9	4-inch Plant Mix Bituminous Pavement	27,600	Ton	50.00	1,380,000.00
P-401	10	Asphalt Cement - Type PG 58-28	1,790	Ton	750.00	1,342,500.00
P-603	11	Bituminous Tack Coat	15,700	Gal.	3.50	54,950.00
SP-P-411	12	Remove and Dispose of Bituminous Pavement	5,000	S.Y.	7.50	37,500.00
P-620	13	Runway and Taxiway Painting	75,000	S.F.	1.25	93,750.00
P-621	14	Sawcut Grooving	41,700	S.Y.	2.00	83,400.00
D-705	15	4-inch Perforated PVC Edgedrain Pipe with Filter Sock	9,400	L.F.	15.00	141,000.00
D-705	16	4-inch PVC Outlet Line & Headwall	38	Ea.	850.00	32,300.00
T-901	17	Seeding	28	Acre	750.00	21,000.00
T-905	18	Topsoiling (On Site)	16,000	C.Y.	14.00	224,000.00
T-908	19	Mulching	135,520	S.Y.	1.00	135,520.00
SP-T-910	20	Erosion Control Fiber Mat	380	S.Y.	10.00	3,800.00
SP-T-912	21	Straw Bioretts	6,300	L.F.	10.00	63,000.00
SP-Gen	22	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	23	Airside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	24	Mobilization	1	L.S.	1,164,000.00	1,164,000.00

Total Estimated Cost \$ 10,863,220.00

Other Costs:
 Administration \$ 2,000
 Design & Bidding 326,000
 Construction Administration & Observation 435,000
 Construction Testing 125,000
 FAA Closeout Report 7,000

Total Other Costs: \$ 895,000

Total Estimated Project Cost \$ 11,759,000

Total Estimated Project Cost (with 10% contingency) \$ 12,935,000

Construct 7700' x 100' Runway Pavements (Future Parallel Taxiway) - Stage 2 (3,000 feet)						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	65,300	C.Y.	\$ 12.00	\$ 783,600.00
P-152	2	Water	1,100	M Gal.	30.00	33,000.00
P-154	3	16-inch Subbase	13,200	C.Y.	50.00	660,000.00
SP-P-181	4	Soil Stabilization Material	35,700	S.Y.	5.00	178,500.00
P-209	5	12-Inch Crushed Aggregate Base Course	11,300	C.Y.	85.00	960,500.00
SP-P-230	6	Geotextile Fabric	35,700	S.Y.	3.00	107,100.00
P-401	7	4-inch Bituminous Base Course	7,400	Ton	40.00	296,000.00
P-401	8	Asphalt Cement - Type PG 58-28	480	Ton	750.00	360,000.00
P-401	9	5.5-inch Plant Mix Bituminous Pavement	17,600	Ton	50.00	880,000.00
P-401	10	Asphalt Cement - Type PG 58-28	1,140	Ton	750.00	855,000.00
P-603	11	Bituminous Tack Coat	5,000	Gal.	3.50	17,500.00
P-620	12	Runway and Taxiway Painting	45,000	S.F.	1.50	67,500.00
P-621	13	Sawcut Grooving	27,000	S.Y.	2.00	54,000.00
D-705	14	4-inch Perforated PVC Edgedrain Pipe with Filter Sock	6,000	L.F.	15.00	90,000.00
D-705	15	4-inch PVC Outlet Line & Headwall	24	Ea.	850.00	20,400.00
T-901	16	Seeding	18	Acre	750.00	13,500.00
T-905	17	Topsoiling (On Site)	9,750	C.Y.	15.00	146,250.00
T-908	18	Mulching	87,120	S.Y.	1.00	87,120.00
SP-T-910	19	Erosion Control Fiber Mat	240	S.Y.	10.00	2,400.00
SP-T-912	20	Straw Bioretts	4,000	L.F.	10.00	40,000.00
SP-Gen	21	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	22	Airside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	23	Mobilization	1	L.S.	688,000.00	688,000.00

Total Estimated Cost \$ 6,425,370.00

Other Costs:
 Administration \$ 2,000
 Design & Bidding 193,000
 Construction Administration & Observation 257,000
 Construction Testing 125,000
 FAA Closeout Report 7,000

Total Other Costs: \$ 584,000

Total Estimated Project Cost \$ 7,010,000

Total Estimated Project Cost (with 10% contingency) \$ 7,711,000

Construct High Intensity Runway Lighting						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
L-108	1	#8 SKV L-824 Cable	19,000	L.F.	1.50	28,500.00
L-108	2	#6 Counterpoise	17,000	L.F.	1.00	17,000.00
L-108	3	Cable Pleading (Counterpoise Only)	15,000	L.F.	2.00	30,000.00
L-108	4	#2 AWG Cu Type THWN	3,600	L.F.	2.25	8,100.00
L-108	5	#6 Cu Ground	1,300	L.F.	1.25	1,625.00
L-110	6	2" PVC Conduit	17,000	L.F.	6.00	102,000.00
L-110	7	3x3x2" Duct Bank (Sand Encased)	500	L.F.	60.00	30,000.00
L-110	8	1x4x2" Duct Bank (Sand Encased)	200	L.F.	35.00	7,000.00
SP-L-999	9	Hi Runway Light (Base Mount)	72	Each	900.00	64,800.00
SP-L-999	10	Hi Threshold Light (Base Mount)	16	Each	900.00	14,400.00
SP-L-999	11	L-858 Lighted Sign	10	Each	4,800.00	48,000.00
SP-L-999	12	L-858 Lighted Sign (DRS)	6	Each	4,200.00	25,200.00
SP-L-999	13	L-880 P40 Unit	2	Each	17,000.00	34,000.00
SP-L-999	14	L-849 REIL	2	Each	15,000.00	30,000.00
SP-L-999	15	Constant Current Regulator	1	Each	18,000.00	18,000.00
SP-L-999	16	L-867B Base Can with Solid Cover	10	Each	650.00	6,500.00
SP-L-999	17	Electrical Manhole	2	Each	10,000.00	20,000.00
SP-Gen	18	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	19	Airside Traffic Control	1	L.S.	65,000.00	65,000.00
SP-Gen	20	Mobilization	1	L.S.	67,000.00	67,000.00

Total Estimated Cost \$ 627,125.00

Other Costs:
 Administration \$ 2,000
 Design & Bidding 63,000
 Construction Administration & Observation 75,000
 Construction Testing 35,000
 FAA Closeout Report 6,000

Total Other Costs: \$ 181,000

Total Estimated Project Cost \$ 809,000

Total Estimated Project Cost (with 10% contingency) \$ 890,000

Convert Runway to Taxiway						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-620	1	Obilitate Pavement Markings	110,000	S.F.	2.00	220,000.00
P-620	2	Runway and Taxiway Painting	75,000	S.F.	1.50	112,500.00
SP-L-999	3	Revise Lighting from HIRL to MITL	1	L.S.	400,000.00	400,000.00
SP-Gen	4	Airside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	5	Mobilization	1	L.S.	97,000.00	97,000.00

Total Estimated Cost \$ 904,500.00

Other Costs:
 Administration \$ 2,000
 Design & Bidding 36,000
 Construction Administration & Observation 45,000
 FAA Closeout Report 7,000

Total Other Costs: \$ 90,000

Total Estimated Project Cost \$ 995,000

Total Estimated Project Cost (with 10% contingency) \$ 1,095,000

Summary		Total
Construct 7700' x 100' Runway Pavements (Future Parallel Taxiway) - Stage 1 (4,700 feet)		12,935,000
Construct 7700' x 100' Runway Pavements (Future Parallel Taxiway) - Stage 2 (3,000 feet)		7,711,000
Construct High Intensity Runway Lighting		890,000
Convert Runway to Taxiway		1,095,000

TOTAL \$ 22,631,000

DICKINSON THEODORE ROOSEVELT REGIONAL AIRPORT

DICKINSON, NORTH DAKOTA

ANALYSIS OF PROBABLE COSTS (Asphalt for Narrow Body Aircraft - 100,000 to 200,000 lbs.)
7,700 ft x 150 ft Runway for Alternate G (Non-Phased Construction) (Construction Options 2, 3 and 5)

Land Acquisition					
Item	Qty.	Unit	Unit Price	Total	
Fee Simple Acquisition	232	Acres	\$ 1,000.00	\$	232,000.00
Administration					5,000.00
Engineering (Assistance with Land Acquisition)					75,000.00
Engineering Assistance to Vacate Portions of Section Line Roads					25,000.00
Appraisal					25,000.00
Review Appraisal					25,000.00
Attorney					75,000.00
Title Work					10,000.00
FAA Closeout Report					10,000.00
Total Estimated Project Cost					\$ 482,000
Total Estimated Project Cost (with 10% contingency)					\$ 531,000

PRELIMINARY

Airport Wildlife Fence						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
SP-F-168	1	8' Wildlife Fence with High Tensile Wire Top	28,500	L.F.	\$ 10.00	\$ 285,000.00
SP-F-168	2	24' x 8' Slide Open Wildlife Fence Gate with High Tensile Wire Top	8	Each	5,000.00	40,000.00
SP-F-169	3	Remove & Dispose of Wildlife Fence	7,500	L.F.	4.00	30,000.00
SP-Gen	4	Install Road Closed Barriers	2	Each	2,500.00	5,000.00
SP-Gen	5	Mobilization	1	L.S.	43,000.00	43,000.00
Total Estimated Cost						\$ 403,000.00
Other Costs:						
Administration				\$	1,500	
Design & Bidding					40,000	
Construction Administration & Observation					48,000	
Construction Testing					7,500	
FAA Closeout Report					5,000	
Total Other Costs:				\$	102,000	
Total Estimated Project Cost					\$ 505,000	
Total Estimated Project Cost (with 10% contingency)					\$ 556,000	

Construct 7700' x 150' Runway Pavements						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	400,000	C.Y.	\$ 3.00	\$ 1,200,000.00
P-152	2	Borrow Excavation	1,404,000	C.Y.	1.00	1,404,000.00
P-152	3	Water	20,100	M Gal.	30.00	603,000.00
P-154	4	16-inch Subbase	57,800	C.Y.	50.00	2,890,000.00
SP-P-181	5	Soil Stabilization Material	136,600	S.Y.	5.00	683,000.00
P-209	6	12-inch Crushed Aggregate Base Course	43,400	C.Y.	85.00	3,689,000.00
SP-P-230	7	Geotextile Fabric	136,600	S.Y.	3.00	409,800.00
P-401	8	4-inch Bituminous Base Course	28,500	Ton	40.00	1,140,000.00
P-401	9	Asphalt Cement - Type PG 58-28	1,850	Ton	750.00	1,387,500.00
P-401	10	9.5-inch Plant Mix Bituminous Pavement	67,700	Ton	50.00	3,385,000.00
P-401	11	Asphalt Cement - Type PG 58-28	4,400	Ton	750.00	3,300,000.00
P-603	12	Bituminous Tack Coat	38,500	Gal.	3.50	134,750.00
P-621	13	Sawcut Grooving	120,000	S.Y.	2.00	240,000.00
P-620	14	Runway and Taxiway Painting	111,000	S.F.	1.00	111,000.00
D-701	15	36-inch RCP, Class III	5,500	L.F.	300.00	1,650,000.00
D-701	16	36-inch RCES, Class III	18	Ea.	1,500.00	27,000.00
D-705	17	4-inch Perforated PVC Edgedrain Pipe with Filter Sock	15,400	L.F.	15.00	231,000.00
D-705	18	4-inch PVC Outlet Line & Headwall	62	Ea.	850.00	52,700.00
T-901	19	Seeding	200	Acre	750.00	150,000.00
T-905	20	Topsoiling (On Site)	110,000	C.Y.	4.00	440,000.00
T-908	21	Mulching	43,800	S.Y.	1.00	43,800.00
SP-T-910	22	Erosion Control Fiber Mat	3,330	S.Y.	10.00	33,300.00
SP-T-912	23	Straw Biorolls	18,900	L.F.	10.00	189,000.00
SP-Gen	24	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	25	Airside Traffic Control	1	L.S.	100,000.00	100,000.00
SP-Gen	26	Mobilization	1	L.S.	2,820,000.00	2,820,000.00
Total Estimated Cost						\$ 26,323,850.00
Other Costs:						
Administration				\$	2,000	
Design & Bidding					790,000	
Construction Administration & Observation					1,053,000	
Construction Testing					125,000	
FAA Closeout Report					7,000	
Total Other Costs:				\$	1,977,000	
Total Estimated Project Cost					\$ 28,301,000	
Total Estimated Project Cost (with 10% contingency)					\$ 31,132,000	

PRELIMINARY

Construct High Intensity Runway Lighting						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
L-107	1	L-807 Lighted Windcone	1	Each	\$ 9,000.00	\$ 9,000.00
L-107	2	L-806 Lighted Windcone	2	Each	6,500.00	13,000.00
L-108	3	#8 SKV L-824 Cable	19,000	L.F.	1.50	28,500.00
L-108	4	#6 Counterpoise	17,000	L.F.	1.00	17,000.00
L-108	5	Cable Flowing (Counterpoise Only)	15,000	L.F.	2.00	30,000.00
L-108	6	#2 AWG Cu Type THWN	3,600	L.F.	2.25	8,100.00
L-108	7	#6 Cu Ground	1,300	L.F.	1.25	1,625.00
L-110	8	2" PVC Conduit	17,000	L.F.	6.00	102,000.00
L-110	9	3x3x2" Duct Bank (Sand Encased)	500	L.F.	60.00	30,000.00
L-110	10	14x12" Duct Bank (Sand Encased)	200	L.F.	35.00	7,000.00
SP-L-999	11	HI Runway Light (Base Mount)	72	Each	900.00	64,800.00
SP-L-999	12	HI Threshold Light (Base Mount)	16	Each	900.00	14,400.00
SP-L-999	13	L-858 Lighted Sign	10	Each	4,800.00	48,000.00
SP-L-999	14	L-858 Lighted Sign (DRS)	6	Each	4,200.00	25,200.00
SP-L-999	15	L-880 PARF Unit	2	Each	17,000.00	34,000.00
SP-L-999	16	L-849 REIL	2	Each	15,000.00	30,000.00
SP-L-999	17	Constant Current Regulator	1	Each	18,000.00	18,000.00
SP-L-999	18	L-867B Base Can with Solid Cover	10	Each	650.00	6,500.00
SP-L-999	19	Electrical Manhole	2	Each	10,000.00	20,000.00
SP-Gen	20	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	21	Airside Traffic Control	1	L.S.	100,000.00	100,000.00
SP-Gen	22	Mobilization	1	L.S.	74,000.00	74,000.00
Total Estimated Cost						\$ 691,125.00
Other Costs:						
Administration				\$	2,000	
Design & Bidding					69,000	
Construction Administration & Observation					83,000	
Construction Testing					35,000	
FAA Closeout Report					6,000	
Total Other Costs:				\$	195,000	
Total Estimated Project Cost					\$ 887,000	
Total Estimated Project Cost (with 10% contingency)					\$ 976,000	

PRELIMINARY

Summary		
Land Acquisition		\$ 531,000
Airport Wildlife Fence		556,000
Construct 7700' x 150' Runway Pavements		31,132,000
Construct High Intensity Runway Lighting		976,000
TOTAL		\$ 33,195,000

DICKINSON THEODORE ROOSEVELT REGIONAL AIRPORT
DICKINSON, NORTH DAKOTA
ANALYSIS OF PROBABLE COSTS (Asphalt for Narrow Body Aircraft - 100,000 to 200,000 lbs.)
7,700 ft x 100 ft Parallel Taxiway for Alternate G (Construction Options 3, 4 and 5)

Construct 7700' x 50' Parallel Taxiway Pavements - Stage 1 (4,700 feet)						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	300,000	C.Y.	\$ 4.00	\$ 1,200,000.00
P-152	2	Water	3,400	M Gal.	30.00	102,000.00
P-154	3	16-inch Subbase	12,100	C.Y.	50.00	605,000.00
SP-P-181	4	Soil Stabilization Material	28,500	S.Y.	5.00	142,500.00
P-209	5	12-inch Crushed Aggregate Base Course	9,100	C.Y.	85.00	773,500.00
SP-P-230	6	Geotextile Fabric	28,500	S.Y.	3.00	85,500.00
P-401	7	4-Inch Bituminous Base Course	5,800	Ton	40.00	232,000.00
P-401	8	Asphalt Cement - Type PG 58-28	380	Ton	750.00	285,000.00
P-401	9	9.5-inch Plant Mix Bituminous Pavement	13,800	Ton	50.00	690,000.00
P-401	10	Asphalt Cement - Type PG 58-28	900	Ton	750.00	675,000.00
P-603	11	Bituminous Tack Coat	7,800	Gal.	3.50	27,300.00
SP-P-411	12	Remove and Dispose of Bituminous Pavement	13,500	S.Y.	7.50	101,250.00
P-620	13	Runway and Taxiway Painting	35,000	S.F.	1.25	43,750.00
D-705	14	4-Inch Perforated PVC Edgedrain Pipe with Filter Sock	9,400	L.F.	15.00	141,000.00
D-705	15	4-Inch PVC Outlet Line & Headwall	38	Ea.	850.00	32,300.00
T-901	16	Seeding	10	Acro	750.00	7,500.00
T-905	17	Topsolling (On Site)	15,000	C.Y.	14.00	210,000.00
T-908	18	Mulching	48,400	S.Y.	1.00	48,400.00
SP-T-910	19	Erosion Control Fiber Mat	380	S.Y.	10.00	3,800.00
SP-T-912	20	Straw Biorolls	9,400	L.F.	10.00	94,000.00
SP-Gen	21	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	22	Airside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	23	Mobilization	1	L.S.	670,000.00	670,000.00
Total Estimated Cost						\$ 6,254,800.00
Other Costs:						
Administration						\$ 2,000
Design & Bidding						188,000
Construction Administration & Observation						250,000
Construction Testing						125,000
FAA Closeout Report						7,000
Total Other Costs:						\$ 572,000
Total Estimated Project Cost						\$ 6,827,000
Total Estimated Project Cost (with 10% contingency)						\$ 7,510,000

PRELIMINARY

Construct 7700' x 50' Parallel Taxiway Pavements - Stage 2 (3,000 feet)						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	175,000	C.Y.	\$ 4.00	\$ 700,000.00
P-152	2	Water	2,000	M Gal.	30.00	60,000.00
P-154	3	16-inch Subbase	7,700	C.Y.	50.00	385,000.00
SP-P-181	4	Soil Stabilization Material	18,200	S.Y.	5.00	91,000.00
P-209	5	12-inch Crushed Aggregate Base Course	5,800	C.Y.	85.00	493,000.00
SP-P-230	6	Geotextile Fabric	18,200	S.Y.	3.00	54,600.00
P-401	7	4-Inch Bituminous Base Course	3,700	Ton	40.00	148,000.00
P-401	8	Asphalt Cement - Type PG 58-28	240	Ton	750.00	180,000.00
P-401	9	9.5-inch Plant Mix Bituminous Pavement	8,800	Ton	50.00	440,000.00
P-401	10	Asphalt Cement - Type PG 58-28	570	Ton	750.00	427,500.00
P-603	11	Bituminous Tack Coat	5,000	Gal.	3.50	17,500.00
P-620	12	Runway and Taxiway Painting	25,000	S.F.	1.50	37,500.00
D-705	13	4-Inch Perforated PVC Edgedrain Pipe with Filter Sock	6,000	L.F.	15.00	90,000.00
D-705	14	4-Inch PVC Outlet Line & Headwall	24	Ea.	850.00	20,400.00
T-901	15	Seeding	8	Acro	750.00	6,000.00
T-905	16	Topsolling (On Site)	10,000	C.Y.	15.00	150,000.00
T-908	17	Mulching	38,720	S.Y.	1.00	38,720.00
SP-T-910	18	Erosion Control Fiber Mat	240	S.Y.	10.00	2,400.00
SP-T-912	19	Straw Biorolls	9,400	L.F.	10.00	94,000.00
SP-Gen	20	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	21	Airside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	22	Mobilization	1	L.S.	422,000.00	422,000.00
Total Estimated Cost						\$ 3,942,620.00
Other Costs:						
Administration						\$ 2,000
Design & Bidding						118,000
Construction Administration & Observation						158,000
Construction Testing						125,000
FAA Closeout Report						7,000
Total Other Costs:						\$ 410,000
Total Estimated Project Cost						\$ 4,353,000
Total Estimated Project Cost (with 10% contingency)						\$ 4,789,000

PRELIMINARY

Construct Medium Intensity Taxiway Lighting						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
L-108	1	#8 SKV L-824 Cable	19,000	L.F.	1.50	28,500.00
L-108	2	#6 Counterpoise	17,000	L.F.	1.00	17,000.00
L-108	3	Cable Ploving (Counterpoise Only)	15,000	L.F.	2.00	30,000.00
L-108	4	#2 AWG Cu Type THWN	3,600	L.F.	2.25	8,100.00
L-108	5	#6 Cu Ground	1,300	L.F.	1.25	1,625.00
L-110	6	2" PVC Conduit	17,000	L.F.	6.00	102,000.00
L-110	7	3x3x2" Duct Bank (Sand Encased)	500	L.F.	60.00	30,000.00
L-110	8	1x4x2" Duct Bank (Sand Encased)	200	L.F.	35.00	7,000.00
SP-L-999	9	HI Runway Light (Base Mount)	72	Each	900.00	64,800.00
SP-L-999	10	HI Threshold Light (Base Mount)	16	Each	900.00	14,400.00
SP-L-999	11	L-853 Lighted Sign	10	Each	4,800.00	48,000.00
SP-L-999	12	L-858 Lighted Sign (DRS)	6	Each	4,200.00	25,200.00
SP-L-999	13	L-880 PAPI Unit	2	Each	17,000.00	34,000.00
SP-L-999	14	L-849 REIL	2	Each	15,000.00	30,000.00
SP-L-999	15	Constant Current Regulator	1	Each	18,000.00	18,000.00
SP-L-999	16	L-867B Base Can with Solid Cover	10	Each	650.00	6,500.00
SP-L-999	17	Electrical Manhole	2	Each	10,000.00	20,000.00
SP-Gen	18	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	19	Airside Traffic Control	1	L.S.	65,000.00	65,000.00
SP-Gen	20	Mobilization	1	L.S.	67,000.00	67,000.00
Total Estimated Cost						\$ 627,125.00
Other Costs:						
Administration						\$ 2,000
Design & Bidding						63,000
Construction Administration & Observation						75,000
Construction Testing						35,000
FAA Closeout Report						6,000
Total Other Costs:						\$ 181,000
Total Estimated Project Cost						\$ 809,000
Total Estimated Project Cost (with 10% contingency)						\$ 890,000

Summary		
Construct 7700' x 50' Parallel Taxiway Pavements - Stage 1 (4,700 feet)		7,510,000
Construct 7700' x 50' Parallel Taxiway Pavements - Stage 2 (3,000 feet)		4,789,000
Construct Medium Intensity Taxiway Lighting		890,000
TOTAL		\$ 13,189,000

PRELIMINARY

DICKINSON THEODORE ROOSEVELT REGIONAL AIRPORT
 DICKINSON, NORTH DAKOTA
 ANALYSIS OF PROBABILE COSTS (Adjusted for Reserve Study Aircraft - 100,000 to 200,000 lbs.)
 7,700 to 13,018 Runway for Alternative C (Phase 1 Construction) (Construction Option 4)

Land Acquisition					
Item	Qty	Unit	Unit Price	Total	
Fee Simple Acquisition	232	Acres	1,000.00	\$	232,000.00
Administration					5,000.00
Engineering Assistance with Land Acquisition					75,000.00
Engineering Assistance to Vacate Portions of Section Line Roads					25,000.00
Appraisal					25,000.00
Review Appraisal					25,000.00
Attorney					15,000.00
Title Work					10,000.00
FAA Chemical Report					10,000.00
Total Estimated Project Cost				\$	482,000.00
Total Estimated Project Cost (with 10% contingency)				\$	531,000.00

PRELIMINARY

Airport Wildlife Fence						
Item	Qty	Unit	Unit Price	Total		
SP-1-108	1	8' Wildlife Fence with High Tensile Wire Top	28,000	L.F.	\$	280,000.00
SP-1-108	2	2" x 4" Solid Open Wildlife Fence Gate with High Tensile Wire Top	6	Each	\$	40,000.00
SP-1-109	7	Removal & Reinstall of Wildlife Fence	7,000	L.F.	\$	49,000.00
SP-Gen	4	Install Road Cross Barriers	2	Each	\$	2,000.00
SP-Gen	5	Modification	1	L.S.	\$	41,000.00
Total Estimated Cost				\$	402,000.00	

Other Costs					
Item	Qty	Unit	Unit Price	Total	
Administration					1,100
Design & Bid/Build					40,000
Construction Administration & Observation					48,000
Construction Testing					1,100
FAA Chemical Report					8,000
Total Other Costs				\$	102,200
Total Estimated Project Cost				\$	505,000
Total Estimated Project Cost (with 10% contingency)				\$	556,000

Continued 7700 x 1507 Runway Pavements - (Phase 1 (2,012 Feet))						
Spec.	Item	Qty	Unit	Unit Price	Total	
P-112	1	Unclassified Excavation	12,700	C.Y.	\$	177,000.00
P-112	2	Backfill Excavation	12,700	C.Y.	\$	177,000.00
P-112	3	Water Treatment	15,000	M.Gal	\$	450,000.00
P-114	4	10 Inch Subbase	22,000	C.Y.	\$	440,000.00
SP-1-101	5	Soil Stabilization Material	53,400	S.Y.	\$	267,000.00
P-200	6	12 Inch Crushed Aggregate Base Course	4,800	C.Y.	\$	192,000.00
SP-1-220	7	Geotextile Fabric	53,400	S.Y.	\$	267,000.00
P-601	8	4 Inch Bituminous Base Course	11,200	TON	\$	448,000.00
P-602	9	Asphalt Concrete - Type FC-5B-28	730	TON	\$	357,000.00
P-603	10	Asphalt Concrete - Type FC-5B-28	730	TON	\$	357,000.00
P-604	11	Bituminous Tack Coat	3,300	Gal	\$	33,000.00
P-621	12	Sealed Gravel	49,000	S.Y.	\$	245,000.00
P-622	13	Unsealed Gravel	23,000	S.Y.	\$	115,000.00
P-623	14	Unsealed Gravel	23,000	S.Y.	\$	115,000.00
D-101	15	36 Inch RCT, Class III	39,000	L.F.	\$	39,000.00
D-102	16	36 Inch RCT, Class III	2,000	L.F.	\$	20,000.00
D-103	17	36 Inch RCT, Class III	8	Ea.	\$	1,600.00
D-104	18	4 Inch Perforated PVC Edge Drain Paper with Filter Sock	15,000	L.F.	\$	15,000.00
D-105	19	4 Inch PVC Outfall Line & Headwall	73	Ea.	\$	14,600.00
T-100	20	Seeding	33	Acres	\$	33,000.00
T-106	21	Topsoil (2in-5in)	40,000	C.Y.	\$	400,000.00
T-108	22	Mulching	16,800	L.F.	\$	16,800.00
SP-1-910	23	Embossed Concrete Fiber Mat	400	S.Y.	\$	2,000.00
SP-1-912	24	Straw Berms	4,000	L.F.	\$	20,000.00
SP-Gen	25	Field Office / Laboratory	1	L.S.	\$	10,000.00
SP-Gen	26	Airport Traffic Control	1	L.S.	\$	100,000.00
SP-Gen	27	Modification	1	L.S.	\$	1,242,000.00
Total Estimated Cost				\$	11,542,350.00	

PRELIMINARY

Other Costs					
Item	Qty	Unit	Unit Price	Total	
Administration					2,000
Design & Bid/Build					348,000
Construction Administration & Observation					484,000
Construction Testing					125,000
FAA Chemical Report					2,000
Total Other Costs				\$	946,000
Total Estimated Project Cost				\$	12,538,000
Total Estimated Project Cost (with 10% contingency)				\$	13,792,000

Continued 7700 x 1507 Runway Pavements - (Phase 2 (1,200 Feet))						
Spec.	Item	Qty	Unit	Unit Price	Total	
P-112	1	Unclassified Excavation	10,000	C.Y.	\$	140,000.00
P-112	2	Water	30,000	M.Gal	\$	900,000.00
P-114	3	10 Inch Subbase	16,000	C.Y.	\$	320,000.00
SP-1-101	4	Soil Stabilization Material	21,000	S.Y.	\$	105,000.00
P-200	5	12 Inch Crushed Aggregate Base Course	4,800	C.Y.	\$	192,000.00
SP-1-220	6	Geotextile Fabric	21,000	S.Y.	\$	105,000.00
P-601	7	4 Inch Bituminous Base Course	4,800	TON	\$	192,000.00
P-602	8	Asphalt Concrete - Type FC-5B-28	270	TON	\$	135,000.00
P-603	9	Asphalt Concrete - Type FC-5B-28	270	TON	\$	135,000.00
P-604	10	Bituminous Tack Coat	4,800	Gal	\$	48,000.00
P-621	11	Sealed Gravel	2,000	S.Y.	\$	10,000.00
P-622	12	Unsealed Gravel	11,200	S.Y.	\$	56,000.00
SP-1-411	13	Removal and Reinstall of Bituminous Pavement	78,200	S.Y.	\$	391,000.00
SP-1-420	14	Displace Pavement Method	111,000	S.Y.	\$	555,000.00
P-620	15	Runway and Taxiway Paving	111,000	S.Y.	\$	555,000.00
L-999	16	Temporary Threshold Lighting	3,300	L.F.	\$	33,000.00
D-101	17	36 Inch RCT, Class III	880	L.F.	\$	8,800.00
D-102	18	36 Inch RCT, Class III	10	L.F.	\$	100.00
D-103	19	36 Inch RCT, Class III	2,460	L.F.	\$	24,600.00
D-104	20	4 Inch Perforated PVC Edge Drain Paper with Filter Sock	10	Ea.	\$	2,000.00
D-105	21	4 Inch PVC Outfall Line & Headwall	30	Ea.	\$	6,000.00
T-100	22	Seeding	30	Acres	\$	30,000.00
T-106	23	Topsoil (2in-5in)	14,000	C.Y.	\$	140,000.00
T-108	24	Mulching	7,000	L.F.	\$	7,000.00
SP-1-910	25	Embossed Concrete Fiber Mat	300	S.Y.	\$	1,500.00
SP-1-912	26	Straw Berms	4,000	L.F.	\$	20,000.00
SP-Gen	27	Field Office / Laboratory	1	L.S.	\$	10,000.00
SP-Gen	28	Airport Traffic Control	1	L.S.	\$	100,000.00
SP-Gen	29	Modification	1	L.S.	\$	800,000.00
Total Estimated Cost				\$	5,449,200.00	

PRELIMINARY

Other Costs					
Item	Qty	Unit	Unit Price	Total	
Administration					2,000
Design & Bid/Build					227,000
Construction Administration & Observation					490,000
Construction Testing					75,000
FAA Chemical Report					2,000
Total Other Costs				\$	994,000
Total Estimated Project Cost				\$	6,243,000
Total Estimated Project Cost (with 10% contingency)				\$	6,897,000

Continued 7700 x 1507 Runway Pavements - (Phase 3 (2,488 Feet))						
Spec.	Item	Qty	Unit	Unit Price	Total	
P-112	1	Unclassified Excavation	122,000	C.Y.	\$	1,708,000.00
P-112	2	Water	2,100	M.Gal	\$	63,000.00
P-114	3	10 Inch Subbase	80,000	C.Y.	\$	1,600,000.00
SP-1-101	4	Soil Stabilization Material	49,000	S.Y.	\$	245,000.00
P-200	5	12 Inch Crushed Aggregate Base Course	24,000	C.Y.	\$	96,000.00
SP-1-220	6	Geotextile Fabric	49,000	S.Y.	\$	245,000.00
P-601	7	4 Inch Bituminous Base Course	24,000	TON	\$	96,000.00
P-602	8	Asphalt Concrete - Type FC-5B-28	1,400	TON	\$	70,000.00
P-603	9	Asphalt Concrete - Type FC-5B-28	1,400	TON	\$	70,000.00
P-604	10	Bituminous Tack Coat	2,400	Gal	\$	24,000.00
P-621	11	Sealed Gravel	1,400	S.Y.	\$	7,000.00
SP-1-411	12	Removal and Reinstall of Bituminous Pavement	111,000	S.Y.	\$	555,000.00
SP-1-420	13	Displace Pavement Method	111,000	S.Y.	\$	555,000.00
P-620	14	Runway and Taxiway Paving	111,000	S.Y.	\$	555,000.00
D-101	15	36 Inch RCT, Class III	2,100	L.F.	\$	21,000.00
D-102	16	36 Inch RCT, Class III	1	L.F.	\$	10.00
D-103	17	36 Inch RCT, Class III	7,000	L.F.	\$	70,000.00
D-104	18	4 Inch Perforated PVC Edge Drain Paper with Filter Sock	10	Ea.	\$	2,000.00
D-105	19	4 Inch PVC Outfall Line & Headwall	30	Ea.	\$	6,000.00
T-100	20	Seeding	41	Acres	\$	41,000.00
T-106	21	Topsoil (2in-5in)	47,000	C.Y.	\$	470,000.00
T-108	22	Mulching	26,000	L.F.	\$	260,000.00
SP-1-910	23	Embossed Concrete Fiber Mat	190	S.Y.	\$	950.00
SP-1-912	24	Straw Berms	4,000	L.F.	\$	20,000.00
SP-Gen	25	Field Office / Laboratory	1	L.S.	\$	10,000.00
SP-Gen	26	Airport Traffic Control	1	L.S.	\$	100,000.00
SP-Gen	27	Modification	1	L.S.	\$	1,311,000.00
Total Estimated Cost				\$	12,389,680.00	

PRELIMINARY

Other Costs					
Item	Qty	Unit	Unit Price	Total	
Administration					2,000
Design & Bid/Build					348,000
Construction Administration & Observation					490,000
Construction Testing					75,000
FAA Chemical Report					2,000
Total Other Costs				\$	995,000
Total Estimated Project Cost				\$	13,285,000
Total Estimated Project Cost (with 10% contingency)				\$	14,614,000

Continued High Intensity Runway Lighting						
Spec.	Item	Qty	Unit	Unit Price	Total	
L-107	1	L-821 Lighted Whitecone	3	Each	\$	15,000.00
L-108	2	L-821 Lighted Whitecone	2	Each	\$	10,000.00
L-108	3	L-821 Lighted Whitecone	1	Each	\$	5,000.00
L-108	4	4' x 4' LED Light Cabinet	79,000	L.F.	\$	3,160,000.00
L-108	5	4' x 4' LED Light Cabinet	79,000	L.F.	\$	3,160,000.00
L-108	6	4' x 4' LED Light Cabinet	79,000	L.F.	\$	3,160,000.00
L-108	7	4' x 4' LED Light Cabinet	79,000	L.F.	\$	3,160,000.00
L-108	8	4' x 4' LED Light Cabinet	79,000	L.F.	\$	3,160,000.00
L-110	9	7' x 7' LED Cabinet	1,200	L.F.	\$	12,000.00
L-110	10	7' x 7' LED Cabinet	1,200	L.F.	\$	12,000.00
L-110	11	7' x 7' LED Cabinet	1,200	L.F.	\$	12,000.00
L-110	12	7' x 7' LED Cabinet	1,200	L.F.	\$	12,000.00
L-110	13	7' x 7' LED Cabinet	1,200	L.F.	\$	12,000.00
L-110	14	7' x 7' LED Cabinet	1,200	L.F.	\$	12,000.00
L-110	15	7' x 7' LED Cabinet	1,200	L.F.	\$	12,000.00
L-110	16	7' x 7' LED Cabinet	1,200	L.F.	\$	12,000.00
L-110	17	7' x 7' LED Cabinet	1,200	L.F.	\$	12,000.00
L-110	18	7' x 7' LED Cabinet	1,200	L.F.	\$	12,000.00
L-110	19	7' x 7' LED Cabinet	1,200	L.F.	\$	12,000.00
L-110	20	7' x 7' LED Cabinet	1,200	L.F.	\$	12,000.00
L-110						

DICKINSON THEODORE ROOSEVELT REGIONAL AIRPORT
 DICKINSON, NORTH DAKOTA
 ANALYSIS OF PROBABLE COSTS (PCC) for Narrow Body Aircraft - 100,000 to 200,000 lbs.)
 7,700 ft x 100 ft Parallel Taxiway as Runway for Alternate G (Construction Option 2)

Construct 7700' x 100' Runway Pavements (Future Parallel Taxiway) - Stage 1 (4,700 feet)						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	850,000	C.Y.	\$ 2.00	\$ 1,700,000.00
P-152	2	Water	8,900	M Gal.	30.00	267,000.00
SP-P-181	3	Soil Stabilization Material	56,000	S.Y.	5.00	280,000.00
P-209	4	12-inch Crushed Aggregate Base Course	17,800	C.Y.	85.00	1,513,000.00
SP-P-230	5	Geotextile Fabric	56,000	S.Y.	3.00	168,000.00
P-304	6	8-inch Cement Treated Base	56,000	S.Y.	30.00	1,680,000.00
P-501	7	15-inch Portland Cement Concrete Pavement	54,800	S.Y.	112.00	6,137,600.00
P-605	8	Joint Sealing	90,000	L.F.	3.50	315,000.00
SP-P-411	9	Remove and Dispose of Bituminous Pavement	5,000	S.Y.	7.50	37,500.00
P-620	10	Runway and Taxiway Painting	75,000	S.F.	1.25	93,750.00
P-621	11	Sawcut Grooving	41,700	S.Y.	2.00	83,400.00
D-705	12	4-inch Perforated PVC Edgedrain Pipe with Filter Sock	9,400	L.F.	15.00	141,000.00
D-705	13	4-inch PVC Outlet Line & Headwall	38	Ea.	850.00	32,300.00
T-901	14	Seeding	28	Acres	750.00	21,000.00
T-905	15	Topsoiling (On Site)	16,000	C.Y.	14.00	224,000.00
T-908	16	Mulching	135,520	S.Y.	1.00	135,520.00
SP-T-910	17	Erosion Control Fiber Mat	380	S.Y.	10.00	3,800.00
SP-T-912	18	Straw Biorolls	6,300	L.F.	10.00	63,000.00
SP-Gen	19	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	20	Airside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	21	Mobilization	1	L.S.	1,558,000.00	1,558,000.00
Total Estimated Cost						\$ 14,538,870.00
Other Costs:						
Administration					\$	2,000
Design & Bidding						436,000
Construction Administration & Observation						582,000
Construction Testing						125,000
FAA Closeout Report						7,000
Total Other Costs:						\$ 1,152,000
Total Estimated Project Cost						\$ 15,691,000
Total Estimated Project Cost (with 10% contingency)						\$ 17,261,000

PRELIMINARY

Construct 7700' x 100' Runway Pavements (Future Parallel Taxiway) - Stage 2 (3,000 feet)						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	65,300	C.Y.	\$ 12.00	\$ 783,600.00
P-152	2	Water	900	M Gal.	30.00	27,000.00
SP-P-181	3	Soil Stabilization Material	35,700	S.Y.	5.00	178,500.00
P-209	4	12-inch Crushed Aggregate Base Course	11,300	C.Y.	85.00	960,500.00
SP-P-230	5	Geotextile Fabric	35,700	S.Y.	3.00	107,100.00
P-304	6	8-inch Cement Treated Base	35,700	S.Y.	30.00	1,071,000.00
P-501	7	15-inch Portland Cement Concrete Pavement	35,000	S.Y.	112.00	3,920,000.00
P-605	8	Joint Sealing	57,000	L.F.	3.50	199,500.00
P-620	9	Runway and Taxiway Painting	45,000	S.F.	1.50	67,500.00
P-621	10	Sawcut Grooving	27,000	S.Y.	2.00	54,000.00
D-705	11	4-inch Perforated PVC Edgedrain Pipe with Filter Sock	6,000	L.F.	15.00	90,000.00
D-705	12	4-inch PVC Outlet Line & Headwall	24	Ea.	850.00	20,400.00
T-901	13	Seeding	18	Acres	750.00	13,500.00
T-905	14	Topsoiling (On Site)	9,750	C.Y.	15.00	146,250.00
T-908	15	Mulching	87,120	S.Y.	1.00	87,120.00
SP-T-910	16	Erosion Control Fiber Mat	240	S.Y.	10.00	2,400.00
SP-T-912	17	Straw Biorolls	4,000	L.F.	10.00	40,000.00
SP-Gen	18	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	19	Airside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	20	Mobilization	1	L.S.	942,000.00	942,000.00
Total Estimated Cost						\$ 8,795,370.00
Other Costs:						
Administration					\$	2,000
Design & Bidding						264,000
Construction Administration & Observation						352,000
Construction Testing						125,000
FAA Closeout Report						7,000
Total Other Costs:						\$ 750,000
Total Estimated Project Cost						\$ 9,546,000
Total Estimated Project Cost (with 10% contingency)						\$ 10,501,000

PRELIMINARY

Construct High Intensity Runway Lighting						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
L-108	1	#8 SKV L-824 Cable	19,000	L.F.	1.50	28,500.00
L-108	2	#6 Counterpoise	17,000	L.F.	1.00	17,000.00
L-108	3	Cable Raising (Counterpoise Only)	15,000	L.F.	2.00	30,000.00
L-108	4	#2 AWG Cu Type THWN	3,600	L.F.	2.25	8,100.00
L-108	5	#6 Cu Ground	1,300	L.F.	1.25	1,625.00
L-110	6	2" PVC Conduit	17,000	L.F.	6.00	102,000.00
L-110	7	3x3x2" Duct Bank (Sand Encased)	500	L.F.	60.00	30,000.00
L-110	8	1x4x2" Duct Bank (Sand Encased)	200	L.F.	35.00	7,000.00
SP-L-999	9	HI Runway Light (Base Mount)	72	Each	900.00	64,800.00
SP-L-999	10	HI Threshold Light (Base Mount)	16	Each	900.00	14,400.00
SP-L-999	11	L-858 Lighted Sign	10	Each	4,800.00	48,000.00
SP-L-999	12	L-858 Lighted Sign (DRS)	6	Each	4,200.00	25,200.00
SP-L-999	13	L-880 PAPI Unit	2	Each	17,000.00	34,000.00
SP-L-999	14	L-849 REIL	2	Each	15,000.00	30,000.00
SP-L-999	15	Constant Current Regulator	1	Each	18,000.00	18,000.00
SP-L-999	16	L-847B Base Can with Solid Cover	10	Each	450.00	4,500.00
SP-L-999	17	Electrical Manhole	2	Each	10,000.00	20,000.00
SP-Gen	18	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	19	Airside Traffic Control	1	L.S.	65,000.00	65,000.00
SP-Gen	20	Mobilization	1	L.S.	67,000.00	67,000.00
Total Estimated Cost						\$ 627,125.00
Other Costs:						
Administration					\$	2,000
Design & Bidding						63,000
Construction Administration & Observation						75,000
Construction Testing						35,000
FAA Closeout Report						6,000
Total Other Costs:						\$ 181,000
Total Estimated Project Cost						\$ 809,000
Total Estimated Project Cost (with 10% contingency)						\$ 890,000

Convert Runway to Taxiway						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-620	1	Obviate Pavement Markings	110,000	S.F.	2.00	220,000.00
P-620	2	Runway and Taxiway Painting	75,000	S.F.	1.50	112,500.00
SP-L-999	3	Revise Lighting from HRL to MITL	1	L.S.	400,000.00	400,000.00
SP-Gen	4	Airside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	5	Mobilization	1	L.S.	97,000.00	97,000.00
Total Estimated Cost						\$ 904,500.00
Other Costs:						
Administration					\$	2,000
Design & Bidding						36,000
Construction Administration & Observation						45,000
FAA Closeout Report						7,000
Total Other Costs:						\$ 90,000
Total Estimated Project Cost						\$ 995,000
Total Estimated Project Cost (with 10% contingency)						\$ 1,095,000

PRELIMINARY

Summary		Total
Construct 7700' x 100' Runway Pavements (Future Parallel Taxiway) - Stage 1 (4,700 feet)		17,261,000
Construct 7700' x 100' Runway Pavements (Future Parallel Taxiway) - Stage 2 (3,000 feet)		10,501,000
Construct High Intensity Runway Lighting		890,000
Convert Runway to Taxiway		1,095,000
TOTAL		\$ 29,747,000

DICKINSON THEODORE ROOSEVELT REGIONAL AIRPORT
DICKINSON, NORTH DAKOTA
ANALYSIS OF PROBABLE COSTS (PCC for Narrow Body Aircraft - 100,000 to 200,000 lbs.)
7,700 ft x 150 ft Runway for Alternate G (Non-Phased Construction) (Construction Options 2, 3 and 5)

Land Acquisition				
Item	Qty.	Unit	Unit Price	Total
Fee Simple Acquisition	232	Acres	\$ 1,000.00	\$ 232,000.00
Administration				5,000.00
Engineering (Assistance with Land Acquisition)				75,000.00
Engineering Assistance To Vacate Portions of Section Line Roads				25,000.00
Appraisal				25,000.00
Review Appraisal				25,000.00
Attorney				75,000.00
Title Work				10,000.00
FAA Closeout Report				10,000.00
Total Estimated Project Cost				\$ 482,000
Total Estimated Project Cost (with 10% contingency)				\$ 531,000

PRELIMINARY

Airport Wildlife Fence						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
SP-F-168	1	8' Wildlife Fence with High Tensile Wire Top	28,500	L.F.	\$ 10.00	\$ 285,000.00
SP-F-168	2	24' x 8' Slide Open Wildlife Fence Gate with High Tensile Wire Top	8	Each	5,000.00	40,000.00
SP-F-169	3	Remove & Dispose of Wildlife Fence	7,500	L.F.	4.00	30,000.00
SP-Gen	4	Install Road Closed Barriers	2	Each	2,500.00	5,000.00
SP-Gen	5	Mobilization	1	L.S.	43,000.00	43,000.00
Total Estimated Cost						\$ 403,000.00
Other Costs:						
Administration				\$ 1,500		
Design & Bidding				40,000		
Construction Administration & Observation				48,000		
Construction Testing				7,500		
FAA Closeout Report				5,000		
Total Other Costs:				\$ 102,000		
Total Estimated Project Cost						\$ 505,000
Total Estimated Project Cost (with 10% contingency)						\$ 556,000

Construct 7700' x 150' Runway Pavements						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	400,000	C.Y.	\$ 3.00	\$ 1,200,000.00
P-152	2	Borrow Excavation	1,404,000	C.Y.	1.00	1,404,000.00
P-152	3	Water	18,900	M Gal.	30.00	567,000.00
SP-P-181	4	Soil Stabilization Material	136,600	S.Y.	5.00	683,000.00
P-209	5	12-Inch Crushed Aggregate Base Course	43,400	C.Y.	85.00	3,689,000.00
SP-P-230	6	Geotextile Fabric	136,600	S.Y.	3.00	409,800.00
P-304	7	8-Inch Cement Treated Base	136,600	S.Y.	30.00	4,098,000.00
P-501	8	15-Inch Portland Cement Concrete Pavement	134,800	S.Y.	134.00	18,063,200.00
P-605	9	Joint Sealing	156,000	L.F.	3.50	546,000.00
P-621	10	Sawcut Grooving	120,000	S.Y.	2.00	240,000.00
P-620	11	Runway and Taxiway Painting	111,000	S.F.	1.00	111,000.00
D-701	12	36-Inch RCP, Class III	5,500	L.F.	300.00	1,650,000.00
D-701	13	36-Inch RCES, Class III	18	Ea.	1,500.00	27,000.00
D-705	14	4-inch Perforated PVC Edgedrain Pipe with Filter Sock	15,400	L.F.	15.00	231,000.00
D-705	15	4-inch PVC Outlet Line & Headwall	42	Ea.	850.00	35,700.00
T-901	16	Seeding	200	Acro	750.00	150,000.00
T-905	17	Topssoiling (On Site)	110,000	C.Y.	4.00	440,000.00
T-908	18	Mulching	43,800	S.Y.	1.00	43,800.00
SP-T-910	19	Erosion Control Fiber Mat	3,330	S.Y.	10.00	33,300.00
SP-T-912	20	Straw Biorolls	18,900	L.F.	10.00	189,000.00
SP-Gen	21	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	22	Airside Traffic Control	1	L.S.	100,000.00	100,000.00
SP-Gen	23	Mobilization	1	L.S.	4,073,000.00	4,073,000.00
Total Estimated Cost						\$ 38,010,800.00
Other Costs:						
Administration				\$ 2,000		
Design & Bidding				1,140,000		
Construction Administration & Observation				1,520,000		
Construction Testing				125,000		
FAA Closeout Report				7,000		
Total Other Costs:				\$ 2,794,000		
Total Estimated Project Cost						\$ 40,805,000
Total Estimated Project Cost (with 10% contingency)						\$ 44,886,000

PRELIMINARY

Construct High Intensity Runway Lighting						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
L-107	1	L-807 Lighted Windcone	1	Each	\$ 9,000.00	\$ 9,000.00
L-107	2	L-806 Lighted Windcone	2	Each	6,500.00	13,000.00
L-108	3	#8 SKV L-824 Cable	19,000	L.F.	1.50	28,500.00
L-108	4	#6 Counterpoise	17,000	L.F.	1.00	17,000.00
L-108	5	Cable Plowing (Counterpoise Only)	15,000	L.F.	2.00	30,000.00
L-108	6	#2 AWG Cu Type THWN	3,600	L.F.	2.25	8,100.00
L-108	7	#6 Cu Ground	1,300	L.F.	1.25	1,625.00
L-110	8	2" PVC Conduit	17,000	L.F.	6.00	102,000.00
L-110	9	3x3x2" Duct Bank (Sand Encased)	500	L.F.	60.00	30,000.00
L-110	10	1x4x2" Duct Bank (Sand Encased)	200	L.F.	35.00	7,000.00
SP-L-999	11	HI Runway Light (Base Mount)	72	Each	900.00	64,800.00
SP-L-999	12	HI Threshold Light (Base Mount)	16	Each	900.00	14,400.00
SP-L-999	13	L-858 Lighted Sign	10	Each	4,800.00	48,000.00
SP-L-999	14	L-858 Lighted Sign (DRS)	6	Each	4,200.00	25,200.00
SP-L-999	15	L-880 PAPI Unit	2	Each	17,000.00	34,000.00
SP-L-999	16	L-849 REIL	2	Each	15,000.00	30,000.00
SP-L-999	17	Constant Current Regulator	1	Each	18,000.00	18,000.00
SP-L-999	18	L-867B Base Can with Solid Cover	10	Each	650.00	6,500.00
SP-L-999	19	Electrical Manhole	2	Each	10,000.00	20,000.00
SP-Gen	20	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	21	Airside Traffic Control	1	L.S.	100,000.00	100,000.00
SP-Gen	22	Mobilization	1	L.S.	74,000.00	74,000.00
Total Estimated Cost						\$ 691,125.00
Other Costs:						
Administration				\$ 2,000		
Design & Bidding				69,000		
Construction Administration & Observation				83,000		
Construction Testing				35,000		
FAA Closeout Report				6,000		
Total Other Costs:				\$ 195,000		
Total Estimated Project Cost						\$ 887,000
Total Estimated Project Cost (with 10% contingency)						\$ 976,000

PRELIMINARY

Summary		Total
Land Acquisition		\$ 531,000
Airport Wildlife Fence		556,000
Construct 7700' x 150' Runway Pavements		44,886,000
Construct High Intensity Runway Lighting		976,000
TOTAL		\$ 46,949,000

DICKINSON THEODORE ROOSEVELT REGIONAL AIRPORT
 DICKINSON, NORTH DAKOTA
 ANALYSIS OF PROBABLE COSTS (PCC for Narrow Body Aircraft - 100,000 to 200,000 lbs.)
 7,700 ft x 100 ft Parallel Taxiway for Alternate G (Construction Options 3, 4 and 5)

Construct 7700' x 50' Parallel Taxiway Pavements - Stage 1 (4,700 feet)						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	300,000	C.Y.	\$ 4.00	\$ 1,200,000.00
P-152	2	Water	3,200	M Gal.	30.00	96,000.00
SP-P-181	3	Soil Stabilization Material	28,500	S.Y.	5.00	142,500.00
P-209	4	12-Inch Crushed Aggregate Base Course	9,100	C.Y.	85.00	773,500.00
SP-P-230	5	Geotextile Fabric	28,500	S.Y.	3.00	85,500.00
P-304	6	8-Inch Cement Treated Base	28,500	S.Y.	30.00	855,000.00
P-501	7	15-Inch Portland Cement Concrete Pavement	27,400	S.Y.	134.00	3,671,600.00
P-605	8	Joint Sealing	35,000	L.F.	3.50	122,500.00
SP-P-411	9	Remove and Dispose of Bituminous Pavement	13,500	S.Y.	7.50	101,250.00
P-620	10	Runway and Taxiway Painting	35,000	S.F.	1.25	43,750.00
D-705	11	4-Inch Perforated PVC Edgedrain Pipe with Filter Sock	9,400	L.F.	15.00	141,000.00
D-705	12	4-Inch PVC Outlet Line & Headwall	38	Ea.	850.00	32,300.00
T-901	13	Seeding	10	Acre	750.00	7,500.00
T-905	14	Topssoiling (On Site)	15,000	C.Y.	14.00	210,000.00
T-908	15	Mulching	48,400	S.Y.	1.00	48,400.00
SP-T-910	16	Erosion Control Fiber Mat	380	S.Y.	10.00	3,800.00
SP-T-912	17	Straw Biorolls	9,400	L.F.	10.00	94,000.00
SP-Gen	18	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	19	Airside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	20	Mobilization	1	L.S.	926,000.00	926,000.00
Total Estimated Cost						\$ 8,639,600.00

Other Costs:
 Administration \$ 2,000
 Design & Bidding 259,000
 Construction Administration & Observation 346,000
 Construction Testing 125,000
 FAA Closeout Report 7,000

PRELIMINARY

Total Other Costs: \$ 739,000
 Total Estimated Project Cost \$ 9,379,000
 Total Estimated Project Cost (with 10% contingency) \$ 10,317,000

Construct 7700' x 50' Parallel Taxiway Pavements - Stage 2 (3,000 feet)						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	175,000	C.Y.	\$ 4.00	\$ 700,000.00
P-152	2	Water	1,900	M Gal.	30.00	57,000.00
SP-P-181	3	Soil Stabilization Material	18,200	S.Y.	5.00	91,000.00
P-209	4	12-Inch Crushed Aggregate Base Course	5,800	C.Y.	85.00	493,000.00
SP-P-230	5	Geotextile Fabric	18,200	S.Y.	3.00	54,600.00
P-304	6	8-Inch Cement Treated Base	18,200	S.Y.	30.00	546,000.00
P-501	7	15-Inch Portland Cement Concrete Pavement	17,500	S.Y.	134.00	2,345,000.00
P-605	8	Joint Sealing	22,000	L.F.	3.50	77,000.00
P-620	9	Runway and Taxiway Painting	25,000	S.F.	1.50	37,500.00
D-705	10	4-Inch Perforated PVC Edgedrain Pipe with Filter Sock	6,000	L.F.	15.00	90,000.00
D-705	11	4-Inch PVC Outlet Line & Headwall	24	Ea.	850.00	20,400.00
T-901	12	Seeding	8	Acre	750.00	6,000.00
T-905	13	Topssoiling (On Site)	10,000	C.Y.	15.00	150,000.00
T-908	14	Mulching	38,720	S.Y.	1.00	38,720.00
SP-T-910	15	Erosion Control Fiber Mat	240	S.Y.	10.00	2,400.00
SP-T-912	16	Straw Biorolls	9,400	L.F.	10.00	94,000.00
SP-Gen	17	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	18	Airside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	19	Mobilization	1	L.S.	587,000.00	587,000.00
Total Estimated Cost						\$ 5,474,620.00

Other Costs:
 Administration \$ 2,000
 Design & Bidding 164,000
 Construction Administration & Observation 219,000
 Construction Testing 125,000
 FAA Closeout Report 7,000

PRELIMINARY

Total Other Costs: \$ 517,000
 Total Estimated Project Cost \$ 5,992,000
 Total Estimated Project Cost (with 10% contingency) \$ 6,592,000

Construct Medium Intensity Taxiway Lighting						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
L-108	1	#8 5KV L-824 Cable	19,000	L.F.	1.50	28,500.00
L-108	2	#6 Counterpoise	17,000	L.F.	1.00	17,000.00
L-108	3	Cable Plowing (Counterpoise Only)	15,000	L.F.	2.00	30,000.00
L-108	4	#2 AWG Cu Type THWN	3,600	L.F.	2.25	8,100.00
L-108	5	#6 Cu Ground	1,300	L.F.	1.25	1,625.00
L-110	6	2" PVC Conduit	17,000	L.F.	6.00	102,000.00
L-110	7	3x3x2" Duct Bank (Sand Encased)	500	L.F.	60.00	30,000.00
L-110	8	1x4x2" Duct Bank (Sand Encased)	200	L.F.	35.00	7,000.00
SP-L-999	9	HI Runway Light (Base Mount)	72	Each	900.00	64,800.00
SP-L-999	10	HI Threshold Light (Base Mount)	16	Each	900.00	14,400.00
SP-L-999	11	L-858 Lighted Sign	10	Each	4,800.00	48,000.00
SP-L-999	12	L-858 Lighted Sign (DRS)	6	Each	4,200.00	25,200.00
SP-L-999	13	L-880 PAPI Unit	2	Each	17,000.00	34,000.00
SP-L-999	14	L-849 REIL	2	Each	15,000.00	30,000.00
SP-L-999	15	Constant Current Regulator	1	Each	18,000.00	18,000.00
SP-L-999	16	L-867B Base Can with Solid Cover	10	Each	650.00	6,500.00
SP-L-999	17	Electrical Manhole	2	Each	10,000.00	20,000.00
SP-Gen	18	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	19	Airside Traffic Control	1	L.S.	65,000.00	65,000.00
SP-Gen	20	Mobilization	1	L.S.	67,000.00	67,000.00
Total Estimated Cost						\$ 627,125.00

Other Costs:
 Administration \$ 2,000
 Design & Bidding 63,000
 Construction Administration & Observation 75,000
 Construction Testing 35,000
 FAA Closeout Report 6,000

Total Other Costs: \$ 181,000
 Total Estimated Project Cost \$ 809,000
 Total Estimated Project Cost (with 10% contingency) \$ 890,000

Summary		
Construct 7700' x 50' Parallel Taxiway Pavements - Stage 1 (4,700 feet)		10,317,000
Construct 7700' x 50' Parallel Taxiway Pavements - Stage 2 (3,000 feet)		6,592,000
Construct Medium Intensity Taxiway Lighting		890,000
TOTAL		\$ 17,799,000

PRELIMINARY

DICKSON (FREDDIE ROOSEVELT) REGIONAL AIRPORT
 DICKSON, NORTH CAROLINA
 ANALYSIS OF PROBABLE COSTS (PCC for Narrow Body Aircraft - 100,000 to 200,000 lbs.)
 7,700 ft x 150 ft Runway for Alternative C (Phase Construction Construction Option 4)

Land Acquisition					
Item	Qty	Unit	Unit Price	Total	
Fee Simple Acquisition	222	Acres	1,000.00	\$	222,000.00
Administration				\$	5,000.00
Engineering Assistance with Land Acquisition				\$	25,000.00
Engineering Assistance to Vacate Portions of Section Line Roads				\$	25,000.00
Appraisal				\$	25,000.00
Review Appraisal				\$	25,000.00
Attorney				\$	10,000.00
Title Work				\$	10,000.00
FAA Clearance Report				\$	30,000.00
Total Estimated Project Cost				\$	482,000.00
Total Estimated Project Cost (with 10% contingency)				\$	531,000.00

PRELIMINARY

Airport Wildlife Fence						
Spec	No.	Item	Qty	Unit	Unit Price	Total
SP-F-148	1	0' Wildlife Fence with High Tensile White Top	20,500	L.F.	1.00	\$ 20,500.00
SP-F-148	2	24" x 8' Slide Open Wildlife Fence Gate with High Tensile White Top	8	Each	5,000.00	\$ 40,000.00
SP-F-149	2	Removal & Reinstall of Wildlife Fence	1,500	L.F.	4.00	\$ 6,000.00
SP-Gan	4	Install Road Closed Barriers	2	Each	2,500.00	\$ 5,000.00
SP-Gan	5	Mobilization	1	L.S.	43,000.00	\$ 43,000.00
Total Estimated Cost						\$ 493,000.00
Total Estimated Project Cost (with 10% contingency)						\$ 542,000.00

Other Costs					
Item	Qty	Unit	Unit Price	Total	
Administration				\$	1,500.00
Design & Bidding				\$	40,000.00
Construction Administration & Observation				\$	48,000.00
Construction Testing				\$	7,000.00
FAA Clearance Report				\$	5,000.00
Total Other Costs				\$	102,000.00
Total Estimated Project Cost				\$	644,000.00
Total Estimated Project Cost (with 10% contingency)				\$	708,000.00

Construct 7700' x 150' Runway Pavements - Phase 1 (3,012 feet)						
Spec	No.	Item	Qty	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	12,700	C.Y.	14.00	\$ 177,800.00
P-152	2	Water	2,400,000	C.F.	1.00	\$ 2,400,000.00
P-152	3	Water	14,500	M Gal.	30.00	\$ 435,000.00
SP-P-181	1	Soil Stabilization Material	4,800	C.Y.	85.00	\$ 408,000.00
P-209	4	12-Inch Crushed Aggregate Base Course	17,000	C.Y.	85.00	\$ 1,445,000.00
SP-P-220	5	Concrete Fabric	50,700	S.F.	3.00	\$ 152,100.00
P-304	6	8-Inch Cement Treated Base	53,400	S.F.	35.00	\$ 1,869,000.00
P-421	7	15-Inch Portland Cement Concrete Pavement	52,700	S.F.	114.00	\$ 6,001,800.00
P-421	8	Joint Sealing	59,200	L.F.	3.50	\$ 207,200.00
P-421	9	Sealed Grooving	49,000	S.F.	2.00	\$ 98,000.00
P-420	10	Obstruction Pavement Markings	23,000	S.F.	2.00	\$ 46,000.00
P-420	11	Runway and Taxiway Painting	20,000	S.F.	1.00	\$ 20,000.00
D-301	12	36-Inch RCP, Class III	2,000	L.F.	300.00	\$ 600,000.00
D-305	13	4-Inch Perforated PVC Edge Drain Pipe with Filter Sock	5,860	L.F.	15.00	\$ 87,900.00
D-305	14	4-Inch Perforated PVC Edge Drain Pipe with Filter Sock	23	Each	850.00	\$ 19,550.00
T-001	15	Sealing	73	Acres	750.00	\$ 54,750.00
T-005	16	Topsoil (On Site)	40,000	C.Y.	12.00	\$ 480,000.00
SP-T-190	19	Mulching	16,800	S.F.	1.00	\$ 16,800.00
SP-T-190	20	Erosion Control Fiber Mat	400	S.Y.	18.00	\$ 7,200.00
SP-T-192	21	Straw Bunches	6,300	L.F.	10.00	\$ 63,000.00
SP-T-192	22	Temporary Threshhold Lighting	1	L.S.	3,000.00	\$ 3,000.00
SP-Gan	23	Fluid Office / Laboratory	1	L.S.	10,000.00	\$ 10,000.00
SP-Gan	24	Airside Traffic Control	1	L.S.	100,000.00	\$ 100,000.00
SP-Gan	25	Mobilization	1	L.S.	1,700,000.00	\$ 1,700,000.00
Total Estimated Cost						\$ 16,143,000.00
Total Estimated Project Cost (with 10% contingency)						\$ 17,757,000.00

PRELIMINARY

Construct 7700' x 150' Runway Pavements - Phase 2 (3,207 feet)						
Spec	No.	Item	Qty	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	260,000	C.Y.	4.00	\$ 1,040,000.00
P-152	2	Water	2,700,000	C.F.	1.00	\$ 2,700,000.00
SP-P-181	1	Soil Stabilization Material	21,300	S.F.	5.00	\$ 106,500.00
P-209	4	12-Inch Crushed Aggregate Base Course	4,800	C.Y.	85.00	\$ 408,000.00
SP-P-220	5	Concrete Fabric	21,300	S.F.	3.00	\$ 63,900.00
P-304	6	8-Inch Cement Treated Base	21,300	S.F.	40.00	\$ 852,000.00
P-421	7	15-Inch Portland Cement Concrete Pavement	21,300	S.F.	114.00	\$ 2,425,200.00
P-421	8	Joint Sealing	21,300	L.F.	3.50	\$ 74,550.00
P-421	9	Sealed Grooving	19,200	S.F.	2.00	\$ 38,400.00
SP-P-420	10	Obstruction Pavement Markings	111,000	S.F.	2.00	\$ 222,000.00
P-420	11	Runway and Taxiway Painting	111,000	S.F.	1.00	\$ 111,000.00
L-999	12	Temporary Threshhold Lighting	1	L.S.	3,000.00	\$ 3,000.00
D-301	13	36-Inch RCP, Class III	880	L.F.	300.00	\$ 264,000.00
D-305	14	4-Inch Perforated PVC Edge Drain Pipe with Filter Sock	2,460	L.F.	15.00	\$ 36,900.00
D-305	15	4-Inch Perforated PVC Edge Drain Pipe with Filter Sock	10	Each	850.00	\$ 8,500.00
T-001	16	Sealing	30	Acres	750.00	\$ 22,500.00
T-005	19	Mulching	16,000	S.F.	1.00	\$ 16,000.00
SP-T-190	20	Erosion Control Fiber Mat	1,000	S.Y.	18.00	\$ 18,000.00
SP-T-192	21	Straw Bunches	300	S.F.	10.00	\$ 3,000.00
SP-T-192	22	Temporary Threshhold Lighting	6,300	L.F.	10.00	\$ 63,000.00
SP-Gan	23	Fluid Office / Laboratory	1	L.S.	10,000.00	\$ 10,000.00
SP-Gan	24	Airside Traffic Control	1	L.S.	100,000.00	\$ 100,000.00
SP-Gan	25	Mobilization	1	L.S.	826,000.00	\$ 826,000.00
Total Estimated Cost						\$ 7,725,450.00
Total Estimated Project Cost (with 10% contingency)						\$ 8,500,000.00

PRELIMINARY

Construct 7700' x 150' Runway Pavements - Phase 3 (3,488 feet)						
Spec	No.	Item	Qty	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	122,000	C.Y.	4.00	\$ 488,000.00
P-152	2	Water	1,800,000	C.F.	1.00	\$ 1,800,000.00
SP-P-181	1	Soil Stabilization Material	61,900	S.F.	5.00	\$ 309,500.00
P-209	4	12-Inch Crushed Aggregate Base Course	19,800	C.Y.	85.00	\$ 1,683,000.00
SP-P-220	5	Concrete Fabric	61,900	S.F.	3.00	\$ 185,700.00
P-304	6	8-Inch Cement Treated Base	61,900	S.F.	35.00	\$ 2,166,500.00
P-421	7	15-Inch Portland Cement Concrete Pavement	61,900	S.F.	114.00	\$ 7,061,400.00
P-421	8	Joint Sealing	71,300	L.F.	3.50	\$ 250,050.00
P-421	9	Sealed Grooving	59,000	S.F.	2.00	\$ 118,000.00
SP-P-420	10	Obstruction Pavement Markings	59,000	S.F.	10.00	\$ 590,000.00
P-420	11	Runway and Taxiway Painting	59,000	S.F.	2.00	\$ 118,000.00
D-301	12	36-Inch RCP, Class III	2,100	L.F.	300.00	\$ 630,000.00
D-305	13	4-Inch Perforated PVC Edge Drain Pipe with Filter Sock	7,950	L.F.	15.00	\$ 119,250.00
D-305	14	4-Inch Perforated PVC Edge Drain Pipe with Filter Sock	29	Each	850.00	\$ 24,650.00
T-001	15	Sealing	87	Acres	750.00	\$ 65,250.00
T-005	19	Mulching	47,000	S.F.	1.00	\$ 47,000.00
SP-T-190	20	Erosion Control Fiber Mat	390	S.Y.	18.00	\$ 7,020.00
SP-T-192	21	Straw Bunches	1,900	L.F.	10.00	\$ 19,000.00
SP-T-192	22	Temporary Threshhold Lighting	6,300	L.F.	10.00	\$ 63,000.00
SP-Gan	23	Fluid Office / Laboratory	1	L.S.	10,000.00	\$ 10,000.00
SP-Gan	24	Airside Traffic Control	1	L.S.	100,000.00	\$ 100,000.00
SP-Gan	25	Mobilization	1	L.S.	1,882,000.00	\$ 1,882,000.00
Total Estimated Cost						\$ 17,569,495.00
Total Estimated Project Cost (with 10% contingency)						\$ 19,326,000.00

PRELIMINARY

Construct High Intensity Runway Lighting						
Spec	No.	Item	Qty	Unit	Unit Price	Total
L-107	1	L-107 Lighted Windows	1	Each	9,000.00	\$ 9,000.00
L-107	2	L-106 Lighted Windows	2	Each	6,500.00	\$ 13,000.00
L-108	3	48' BXV L-104 Cable	19,000	L.F.	1.50	\$ 28,500.00
L-108	4	AC Downspout	17,000	L.F.	1.00	\$ 17,000.00
L-108	5	Cable Reroute (Eliminate Group)	15,000	L.F.	2.00	\$ 30,000.00
L-108	6	42' ABS Co Type TMRs	3,800	L.F.	2.25	\$ 8,550.00
L-108	7	48' Co Ground	1,200	L.F.	1.25	\$ 1,500.00
L-110	8	2" PVC Conduit	10,000	L.F.	6.00	\$ 60,000.00
L-110	9	3/4" PVC Duct Bank (Base Encased)	500	L.F.	40.00	\$ 20,000.00
L-110	10	1/4" PVC Duct Bank (Base Encased)	200	L.F.	35.00	\$ 7,000.00
SP-L-999	11	10 Runway Light (Base Measure)	72	Each	900.00	\$ 64,800.00
SP-L-999	12	14 Threshold Light (Base Measure)	16	Each	900.00	\$ 14,400.00
SP-L-999	13	L-108 Lighted Sign (Base Measure)	10	Each	8,000.00	\$ 80,000.00
SP-L-999	14	L-108 Lighted Sign (BEG)	6	Each	4,200.00	\$ 25,200.00
SP-L-999	15	L-108 Lighted Sign	2	Each	17,000.00	\$ 34,000.00
SP-L-999	16	L-149 HEL	2	Each	10,000.00	\$ 20,000.00
SP-L-999	17	Control Current Regulator	1	Each	10,000.00	\$ 10,000.00
SP-L-999	18	L-147 Base Can with Solid Cover	10	Each	850.00	\$ 8,500.00
SP-L-999	19	Electrical Manhole	2	Each	10,000.00	\$ 20,000.00
SP-Gan	20	Fluid Office / Laboratory	1	L.S.	10,000.00	\$ 10,000.00
SP-Gan	21	Airside Traffic Control	1	L.S.	100,000.00	\$ 100,000.00
SP-Gan	22	Mobilization	1	L.S.	74,000.00	\$ 74,000.00
Total Estimated Cost						\$ 691,125.00
Total Estimated Project Cost (with 10% contingency)						\$ 762,237.50

PRELIMINARY

Summary					
Item	Qty	Unit	Unit Price	Total	
Land Acquisition				\$	531,000.00
Airport Wildlife Fence				\$	156,000.00
Construct 7700' x 150' Runway Pavements - Phase 1 (3,012 feet)				\$	17,148,000.00
Construct 7700' x 150' Runway Pavements - Phase 2 (3,207 feet)				\$	8,500,000.00
Construct 7700' x 150' Runway Pavements - Phase 3 (3,488 feet)				\$	20,828,000.00
Construct High Intensity Runway Lighting				\$	774,000.00
TOTAL				\$	51,395,000.00

PRELIMINARY

DICKINSON THEODORE ROOSEVELT REGIONAL AIRPORT
 DICKINSON, NORTH DAKOTA
 ANALYSIS OF PROBABLE COSTS (Asphalt for Regional Aircraft - less than 100,000 lbs.)
 7,700 ft x 100 Ft Parallel Taxiway as Runway for Alternate H (Construction Option 2)

Construct 7700' x 100' Runway Pavements (Future Parallel Taxiway) - Stage 1 (6,400 feet)						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	375,000	C.Y.	\$ 3.00	\$ 1,125,000.00
P-152	2	Water	4,800	W Gal.	30.00	144,000.00
P-154	3	16-inch Subbase	28,100	C.Y.	50.00	1,405,000.00
SP-P-181	4	Soil Stabilization Material	76,200	S.Y.	5.00	381,000.00
P-209	5	12-inch Crushed Aggregate Base Course	24,200	C.Y.	85.00	2,057,000.00
SP-P-230	6	Geotextile Fabric	76,200	S.Y.	3.00	228,600.00
P-401	7	4-inch Bituminous Base Course	15,800	Ton	40.00	632,000.00
P-401	8	Asphalt Cement - Type PG 58-28	1,030	Ton	750.00	772,500.00
P-401	9	4-inch Plant Mix Bituminous Pavement	15,800	Ton	50.00	790,000.00
P-401	10	Asphalt Cement - Type PG 58-28	1,030	Ton	750.00	772,500.00
SP-P-411	11	Remove and Dispose of Bituminous Pavement	8,000	S.Y.	7.50	60,000.00
P-403	12	Bituminous Tack Coat	10,700	Gal.	3.50	37,450.00
P-620	13	Runway and Taxiway Painting	100,000	S.F.	1.00	100,000.00
P-621	14	Sawcut Grooving	57,000	S.Y.	2.00	114,000.00
D-701	15	36-inch RCES, Class III	1,560	L.F.	300.00	468,000.00
D-701	16	36-inch RCES, Class III	26	Ea.	1,500.00	39,000.00
D-705	17	4-inch Perforated PVC Edg drain Pipe with Filter Sock	12,800	L.F.	15.00	192,000.00
D-705	18	4-inch PVC Outlet Line & Headwall	51	Ea.	850.00	43,350.00
T-901	19	Seeding	29	Acre	750.00	21,750.00
T-905	20	Topsoiling (On Site)	15,500	C.Y.	14.00	217,000.00
T-908	21	Matching	140,360	S.Y.	1.00	140,360.00
SP-T-910	22	Erosion Control Fiber Mat	1,810	S.Y.	10.00	18,100.00
SP-T-912	23	Straw Biorolls	8,500	L.F.	10.00	85,000.00
SP-Gen	24	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	25	Alside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	26	Mobilization	1	L.S.	1,191,000.00	1,191,000.00

Total Estimated Cost \$ 11,119,610.00

Other Costs:

Administration	\$ 2,000
Design & Bidding	334,000
Construction Administration & Observation	445,000
Construction Testing	125,000
FAA Closeout Report	7,000

Total Other Costs \$ 913,000

Total Estimated Project Cost \$ 12,033,000

Total Estimated Project Cost (with 10% contingency) \$ 13,237,000

Construct 7700' x 100' Runway Pavements (Future Parallel Taxiway) - Stage 2 (1,200 feet)						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	75,000	C.Y.	\$ 8.00	\$ 600,000.00
P-152	2	Water	1,000	W Gal.	30.00	30,000.00
P-154	3	16-inch Subbase	5,700	C.Y.	50.00	285,000.00
SP-P-181	4	Soil Stabilization Material	15,500	S.Y.	5.00	77,500.00
P-209	5	12-inch Crushed Aggregate Base Course	4,900	C.Y.	85.00	416,500.00
SP-P-230	6	Geotextile Fabric	15,500	S.Y.	3.00	46,500.00
P-401	7	4-inch Bituminous Base Course	3,200	Ton	40.00	128,000.00
P-401	8	Asphalt Cement - Type PG 58-28	210	Ton	750.00	157,500.00
P-401	9	4-inch Plant Mix Bituminous Pavement	3,200	Ton	50.00	160,000.00
P-401	10	Asphalt Cement - Type PG 58-28	210	Ton	750.00	157,500.00
SP-P-411	11	Remove and Dispose of Bituminous Pavement	1,700	S.Y.	10.00	17,000.00
P-403	12	Bituminous Tack Coat	2,200	Gal.	3.50	7,700.00
P-620	13	Runway and Taxiway Painting	20,000	S.F.	1.50	30,000.00
P-621	14	Sawcut Grooving	13,000	S.Y.	2.00	26,000.00
D-701	15	36-inch RCES, Class III	60	L.F.	300.00	180,000.00
D-701	16	36-inch RCES, Class III	2	Ea.	1,500.00	3,000.00
D-705	17	4-inch Perforated PVC Edg drain Pipe with Filter Sock	2,600	L.F.	15.00	39,000.00
D-705	18	4-inch PVC Outlet Line & Headwall	10	Ea.	850.00	8,500.00
T-901	19	Seeding	20	Acre	750.00	15,000.00
T-905	20	Topsoiling (On Site)	15,000	C.Y.	14.00	210,000.00
T-908	21	Matching	96,800	S.Y.	1.00	96,800.00
SP-T-910	22	Erosion Control Fiber Mat	200	S.Y.	10.00	2,000.00
SP-T-912	23	Straw Biorolls	1,700	L.F.	10.00	17,000.00
SP-Gen	24	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	25	Alside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	26	Mobilization	1	L.S.	335,000.00	335,000.00

Total Estimated Cost \$ 3,130,500.00

Other Costs:

Administration	\$ 2,000
Design & Bidding	125,000
Construction Administration & Observation	157,000
Construction Testing	100,000
FAA Closeout Report	7,000

Total Other Costs \$ 391,000

Total Estimated Project Cost \$ 3,522,000

Total Estimated Project Cost (with 10% contingency) \$ 3,875,000

Construct High Intensity Runway Lighting						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
L-107	1	L-807 Lighted Windcone	1	Each	\$ 9,000.00	\$ 9,000.00
L-107	2	L-806 Lighted Windcone	2	Each	6,500.00	13,000.00
L-108	3	#8 L-824 Cable	19,000	L.F.	1.50	28,500.00
L-108	4	#6 Counterpoise	17,000	L.F.	1.00	17,000.00
L-108	5	Cable Ploving (Counterpoise Only)	15,000	L.F.	2.00	30,000.00
L-108	6	#2 AWG Cu Type THWN	3,600	L.F.	2.25	8,100.00
L-108	7	#6 Cu Ground	1,300	L.F.	1.25	1,625.00
L-110	8	2" PVC Conduit	17,000	L.F.	6.00	102,000.00
L-110	9	3x3x2" Duct Bank (Sand Encased)	500	L.F.	60.00	30,000.00
L-110	10	1x4x2" Duct Bank (Sand Encased)	200	L.F.	35.00	7,000.00
SP-L-999	11	H Runway Light (Base Mount)	72	Each	900.00	64,800.00
SP-L-999	12	H Threshold Light (Base Mount)	16	Each	900.00	14,400.00
SP-L-999	13	L-858 Lighted Sign	10	Each	4,800.00	48,000.00
SP-L-999	14	L-858 Lighted Sign (DIS)	6	Each	4,200.00	25,200.00
SP-L-999	15	L-807 HPI Unit	2	Each	17,000.00	34,000.00
SP-L-999	16	L-849 REIL	2	Each	15,000.00	30,000.00
SP-L-999	17	Constant Current Regulator	1	Each	18,000.00	18,000.00
SP-L-999	18	L-867B Base Can with Solid Cover	10	Each	650.00	6,500.00
SP-L-999	19	Electrical Manhole	2	Each	10,000.00	20,000.00
SP-Gen	20	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	21	Alside Traffic Control	1	L.S.	65,000.00	65,000.00
SP-Gen	22	Mobilization	1	L.S.	70,000.00	70,000.00

Total Estimated Cost \$ 652,125.00

Other Costs:

Administration	\$ 2,000
Design & Bidding	45,000
Construction Administration & Observation	78,000
Construction Testing	35,000
FAA Closeout Report	6,000

Total Other Costs \$ 186,000

Total Estimated Project Cost \$ 839,000

Total Estimated Project Cost (with 10% contingency) \$ 923,000

Convert Runway to Taxiway						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-620	1	Obillerate Pavement Markings	110,000	S.F.	2.00	220,000.00
P-620	2	Runway and Taxiway Painting	75,000	S.F.	1.50	112,500.00
SP-L-999	3	Revise Lighting from HRL to MITL	1	L.S.	400,000.00	400,000.00
SP-Gen	4	Alside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	5	Mobilization	1	L.S.	97,000.00	97,000.00

Total Estimated Cost \$ 904,500.00

Other Costs:

Administration	\$ 2,000
Design & Bidding	36,000
Construction Administration & Observation	45,000
Construction Testing	7,000

Total Other Costs \$ 90,000

Total Estimated Project Cost \$ 995,000

Total Estimated Project Cost (with 10% contingency) \$ 1,095,000

Summary						
Construct 7700' x 100' Runway Pavements (Future Parallel Taxiway) - Stage 1 (6,400 feet)						13,237,000
Construct 7700' x 100' Runway Pavements (Future Parallel Taxiway) - Stage 2 (1,200 feet)						3,875,000
Construct High Intensity Runway Lighting						923,000
Convert Runway to Taxiway						1,095,000

TOTAL \$ 19,130,000

DICKINSON THEODORE ROOSEVELT REGIONAL AIRPORT
 DICKINSON, NORTH DAKOTA
 ANALYSIS OF PROBABLE COSTS (Asphalt for Regional Aircraft - less than 100,000 lbs.)
 7,700 ft x 150 ft Runway for Alternate H (Non-Phased Construction) (Construction Options 2, 3 and 5)

Land Acquisition					
Item	Qty.	Unit	Unit Price		Total
Fee Simple Acquisition	202	Acres	\$ 1,000.00	\$	202,000.00
Administration					5,000.00
Engineering (Assistance with Land Acquisition)					75,000.00
Engineering Assistance to Vacate Portions of Section Line Roads					25,000.00
Appraisal					25,000.00
Review Appraisal					25,000.00
Attorney					75,000.00
Title Work					10,000.00
FAA Closeout Report					10,000.00
Total Estimated Project Cost				\$	452,000
Total Estimated Project Cost (with 10% contingency)				\$	498,000

PRELIMINARY

Airport Wildlife Fence						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
SP-F-168	1	8' Wildlife Fence with High Tensile Wire Top	31,700	L.F.	\$ 10.00	\$ 317,000.00
SP-F-168	2	24' x 8' Slide Open Wildlife Fence Gate with High Tensile Wire Top	9	Each	5,000.00	45,000.00
SP-F-169	3	Remove & Dispose of Wildlife Fence	7,300	L.F.	4.00	29,200.00
SP-Gen	4	Install Road Closed Barriers	2	Each	2,500.00	5,000.00
SP-Gen	5	Mobilization	1	L.S.	50,000.00	50,000.00
Total Estimated Cost						\$ 446,200.00
Other Costs:						
Administration				\$	1,500	
Design & Bidding					45,000	
Construction Administration & Observation					54,000	
Construction Testing					7,500	
FAA Closeout Report					5,000	
Total Other Costs:				\$	113,000	
Total Estimated Project Cost						\$ 560,000
Total Estimated Project Cost (with 10% contingency)						\$ 616,000

Construct 7700' x 150' Runway Pavements						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	630,200	C.Y.	\$ 2.00	\$ 1,260,400.00
P-152	2	Borrow Excavation	1,090,600	C.Y.	2.00	2,181,200.00
P-152	3	Water	19,200	M Gal.	30.00	576,000.00
P-154	4	16-inch Subbase	57,800	C.Y.	50.00	2,890,000.00
SP-P-181	5	Soil Stabilization Material	136,600	S.Y.	5.00	683,000.00
P-209	6	12-inch Crushed Aggregate Base Course	43,400	C.Y.	85.00	3,689,000.00
SP-P-230	7	Geotextile Fabric	136,600	S.Y.	3.00	409,800.00
P-401	8	4-inch Bituminous Base Course	28,500	Ton	40.00	1,140,000.00
P-401	9	Asphalt Cement - Type PG 58-28	1,850	Ton	750.00	1,387,500.00
P-401	10	4-inch Plant Mix Bituminous Pavement	28,500	Ton	50.00	1,425,000.00
P-401	11	Asphalt Cement - Type PG 58-28	1,850	Ton	750.00	1,387,500.00
P-603	12	Bituminous Tack Coat	19,300	Gal.	3.50	67,550.00
P-620	13	Runway and Taxiway Painting	120,000	S.F.	1.50	180,000.00
P-621	14	Sawcut Grooving	111,000	S.Y.	2.00	222,000.00
D-701	15	36-inch RCP, Class III	8,500	L.F.	300.00	2,550,000.00
D-701	16	36-inch RCES, Class III	30	Ea.	1,500.00	45,000.00
D-705	17	4-inch Perforated PVC Edgeland Pipe with Filter Sock	15,412	L.F.	15.00	231,180.00
D-705	18	4-inch PVC Outlet Line & Headwall	62	Ea.	850.00	52,700.00
T-901	19	Seeding	138	Acre	750.00	103,500.00
T-905	20	Topsoiling (On Site)	67,640	C.Y.	8.00	541,120.00
T-908	21	Mulching	667,920	S.Y.	1.00	667,920.00
SP-T-910	22	Erosion Control Fiber Mat	3,430	S.Y.	10.00	34,300.00
SP-T-912	23	Straw Biorolls	18,900	L.F.	10.00	189,000.00
SP-Gen	24	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	25	Airside Traffic Control	1	L.S.	100,000.00	100,000.00
SP-Gen	26	Mobilization	1	L.S.	2,643,000.00	2,643,000.00
Total Estimated Cost						\$ 24,666,670.00
Other Costs:						
Administration				\$	2,000	
Design & Bidding					740,000	
Construction Administration & Observation					987,000	
Construction Testing					150,000	
FAA Closeout Report					8,000	
Total Other Costs:				\$	1,887,000	
Total Estimated Project Cost						\$ 26,554,000
Total Estimated Project Cost (with 10% contingency)						\$ 29,210,000

PRELIMINARY

Construct High Intensity Runway Lighting						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
L-107	1	L-807 Lighted Windcone	1	Each	\$ 9,000.00	\$ 9,000.00
L-107	2	L-806 Lighted Windcone	2	Each	6,500.00	13,000.00
L-108	3	#8 SKV L-824 Cable	19,000	L.F.	1.50	28,500.00
L-108	4	#6 Counterpoise	17,000	L.F.	1.00	17,000.00
L-108	5	Cable Ploving (Counterpoise Only)	15,000	L.F.	2.00	30,000.00
L-108	6	#2 AWG Cu Type THWN	3,600	L.F.	2.25	8,100.00
L-108	7	#6 Cu Ground	1,300	L.F.	1.25	1,625.00
L-110	8	2" PVC Conduit	17,000	L.F.	6.00	102,000.00
L-110	9	3x3x2" Duct Bank (Sand Encased)	500	L.F.	60.00	30,000.00
L-110	10	1'x4'x2" Duct Bank (Sand Encased)	200	L.F.	35.00	7,000.00
SP-L-999	11	HI Runway Light (Base Mount)	72	Each	900.00	64,800.00
SP-L-999	12	HI Threshold Light (Base Mount)	16	Each	900.00	14,400.00
SP-L-999	13	L-858 Lighted Sign	10	Each	4,800.00	48,000.00
SP-L-999	14	L-858 Lighted Sign (DRS)	6	Each	4,200.00	25,200.00
SP-L-999	15	L-880 PAPI Unit	2	Each	17,000.00	34,000.00
SP-L-999	16	L-849 REL	2	Each	15,000.00	30,000.00
SP-L-999	17	Constant Current Regulator	1	Each	18,000.00	18,000.00
SP-L-999	18	L-867B Base Can with Solid Cover	10	Each	650.00	6,500.00
SP-L-999	19	Electrical Manhole	2	Each	10,000.00	20,000.00
SP-Gen	20	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	21	Airside Traffic Control	1	L.S.	100,000.00	100,000.00
SP-Gen	22	Mobilization	1	L.S.	74,000.00	74,000.00
Total Estimated Cost						\$ 691,125.00
Other Costs:						
Administration				\$	2,000	
Design & Bidding					69,000	
Construction Administration & Observation					83,000	
Construction Testing					35,000	
FAA Closeout Report					6,000	
Total Other Costs:				\$	195,000	
Total Estimated Project Cost						\$ 887,000
Total Estimated Project Cost (with 10% contingency)						\$ 976,000

PRELIMINARY

Summary		Total
Land Acquisition		\$ 498,000
Airport Wildlife Fence		616,000
Construct 7700' x 150' Runway Pavements		29,210,000
Construct High Intensity Runway Lighting		976,000
TOTAL		\$ 31,300,000

DICKINSON THEODORE ROOSEVELT REGIONAL AIRPORT
DICKINSON, NORTH DAKOTA
ANALYSIS OF PROBABLE COSTS (Asphalt for Regional Aircraft - less than 100,000 lbs.)
7,700 ft x 50 ft Parallel Taxiway for Alternate H (Construction Options 3, 4 and 5)

Construct 7700' x 50' Parallel Taxiway Pavements - Stage 1 (6,400 feet)						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	340,500	C.Y.	\$ 3.00	\$ 1,021,500.00
P-152	2	Water	4,000	M Gal.	30.00	120,000.00
P-154	3	16-Inch Subbase	16,400	C.Y.	50.00	820,000.00
SP-P-181	4	Soil Stabilization Material	38,800	S.Y.	5.00	194,000.00
P-209	5	12-inch Crushed Aggregate Base Course	13,300	C.Y.	85.00	1,130,500.00
SP-P-230	6	Geotextile Fabric	38,800	S.Y.	3.00	116,400.00
P-401	7	4-inch Bituminous Base Course	7,900	Ton	40.00	316,000.00
P-401	8	Asphalt Cement - Type PG 58-28	510	Ton	750.00	382,500.00
P-401	9	4-inch Plant Mix Bituminous Pavement	7,900	Ton	50.00	395,000.00
P-401	10	Asphalt Cement - Type PG 58-28	510	Ton	750.00	382,500.00
SP-P-411	11	Remove and Dispose of Bituminous Pavement	13,500	S.Y.	7.50	101,250.00
P-603	12	Bituminous Tack Coat	5,300	Gal.	3.50	18,550.00
P-620	13	Runway and Taxiway Painting	38,000	S.F.	1.00	38,000.00
D-701	14	36-Inch RCP, Class III	1,560	L.F.	300.00	468,000.00
D-701	15	36-Inch RCES, Class III	26	Ea.	1,500.00	39,000.00
D-705	16	4-Inch Perforated PVC Edgedrain Pipe with Filter Sock	12,800	L.F.	15.00	192,000.00
D-705	17	4-Inch PVC Outlet Line & Headwall	51	Ea.	850.00	43,350.00
T-901	18	Seeding	13	Acre	750.00	9,750.00
T-905	19	Topsailing (On Site)	21,000	C.Y.	14.00	294,000.00
T-908	20	Mulching	62,920	S.Y.	1.00	62,920.00
SP-T-910	21	Erosion Control Fiber Mat	1,810	S.Y.	10.00	18,100.00
SP-T-912	22	Straw Biorolls	8,500	L.F.	10.00	85,000.00
SP-Gen	23	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	24	Airside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	25	Mobilization	1	L.S.	760,000.00	760,000.00
Total Estimated Cost						\$ 7,093,320.00

Other Costs:	
Administration	\$ 2,000
Design & Bidding	212,000
Construction Administration & Observation	284,000
Construction Testing	125,000
FAA Closeout Report	7,000
Total Other Costs:	\$ 631,000

Total Estimated Project Cost	\$ 7,725,000
Total Estimated Project Cost (with 10% contingency)	\$ 8,498,000

Construct 7700' x 50' Parallel Taxiway Pavements - Stage 2 (1,300 feet)						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	70,000	C.Y.	\$ 8.00	\$ 560,000.00
P-152	2	Water	800	M Gal.	30.00	24,000.00
P-154	3	16-Inch Subbase	3,300	C.Y.	50.00	165,000.00
SP-P-181	4	Soil Stabilization Material	7,900	S.Y.	5.00	39,500.00
P-209	5	12-inch Crushed Aggregate Base Course	2,500	C.Y.	85.00	212,500.00
SP-P-230	6	Geotextile Fabric	7,900	S.Y.	3.00	23,700.00
P-401	7	4-inch Bituminous Base Course	1,600	Ton	40.00	64,000.00
P-401	8	Asphalt Cement - Type PG 58-28	100	Ton	750.00	75,000.00
P-401	9	4-inch Plant Mix Bituminous Pavement	1,600	Ton	50.00	80,000.00
P-401	10	Asphalt Cement - Type PG 58-28	100	Ton	750.00	75,000.00
P-603	11	Bituminous Tack Coat	1,100	Gal.	3.50	3,850.00
P-620	12	Runway and Taxiway Painting	20,000	S.F.	1.50	30,000.00
D-701	13	36-Inch RCP, Class III	600	L.F.	300.00	180,000.00
D-701	14	36-Inch RCES, Class III	2	Ea.	1,500.00	3,000.00
D-705	15	4-Inch Perforated PVC Edgedrain Pipe with Filter Sock	2,600	L.F.	15.00	39,000.00
D-705	16	4-Inch PVC Outlet Line & Headwall	10	Ea.	850.00	8,500.00
T-901	17	Seeding	10	Acre	750.00	7,500.00
T-905	18	Topsailing (On Site)	10,000	C.Y.	15.00	150,000.00
T-908	19	Mulching	48,400	S.Y.	1.00	48,400.00
SP-T-910	20	Erosion Control Fiber Mat	200	S.Y.	10.00	2,000.00
SP-T-912	21	Straw Biorolls	1,700	L.F.	10.00	17,000.00
SP-Gen	22	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	23	Airside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	24	Mobilization	1	L.S.	227,000.00	227,000.00
Total Estimated Cost						\$ 2,119,950.00

Other Costs:	
Administration	\$ 2,000
Design & Bidding	85,000
Construction Administration & Observation	106,000
Construction Testing	100,000
FAA Closeout Report	7,000
Total Other Costs:	\$ 300,000

Total Estimated Project Cost	\$ 2,420,000
Total Estimated Project Cost (with 10% contingency)	\$ 2,662,000

Construct Medium Intensity Taxiway Lighting						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
L-107	1	L-807 Lighted Windcone	1	Each	\$ 9,000.00	\$ 9,000.00
L-107	2	L-806 Lighted Windcone	2	Each	6,500.00	13,000.00
L-108	3	#8 SKV L-824 Cable	19,000	L.F.	1.50	28,500.00
L-108	4	#6 Counterpoise	17,000	L.F.	1.00	17,000.00
L-108	5	Cable Ploving (Counterpoise Only)	15,000	L.F.	2.00	30,000.00
L-108	6	#2 AWG Cu Type THWN	3,600	L.F.	2.25	8,100.00
L-108	7	#6 Cu Ground	1,300	L.F.	1.25	1,625.00
L-110	8	2" PVC Conduit	17,000	L.F.	6.00	102,000.00
L-110	9	3x3x2" Duct Bank (Sand Encased)	500	L.F.	60.00	30,000.00
L-110	10	1x4x2" Duct Bank (Sand Encased)	200	L.F.	35.00	7,000.00
SP-L-999	11	HI Runway Light (Base Mount)	72	Each	900.00	64,800.00
SP-L-999	12	HI Threshold Light (Base Mount)	16	Each	900.00	14,400.00
SP-L-999	13	L-858 Lighted Sign	10	Each	4,800.00	48,000.00
SP-L-999	14	L-858 Lighted Sign (DRS)	6	Each	4,200.00	25,200.00
SP-L-999	15	L-880 PAPI Unit	2	Each	17,000.00	34,000.00
SP-L-999	16	L-849 REIL	2	Each	15,000.00	30,000.00
SP-L-999	17	Constant Current Regulator	1	Each	18,000.00	18,000.00
SP-L-999	18	L-867B Base Can with Solid Cover	10	Each	650.00	6,500.00
SP-L-999	19	Electrical Manhole	2	Each	10,000.00	20,000.00
SP-Gen	20	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	21	Airside Traffic Control	1	L.S.	65,000.00	65,000.00
SP-Gen	22	Mobilization	1	L.S.	70,000.00	70,000.00
Total Estimated Cost						\$ 652,125.00

Other Costs:	
Administration	\$ 2,000
Design & Bidding	65,000
Construction Administration & Observation	78,000
Construction Testing	35,000
FAA Closeout Report	6,000
Total Other Costs:	\$ 186,000

Total Estimated Project Cost	\$ 839,000
Total Estimated Project Cost (with 10% contingency)	\$ 923,000

Summary		Total
Construct 7700' x 50' Parallel Taxiway Pavements - Stage 1 (6,400 feet)		8,498,000
Construct 7700' x 50' Parallel Taxiway Pavements - Stage 2 (1,300 feet)		2,662,000
Construct Medium Intensity Taxiway Lighting		923,000
TOTAL		\$ 12,083,000

DICKINSON THEODORE ROOSEVELT REGIONAL AIRPORT
DICKINSON, NORTH DAKOTA
ANALYSIS OF PROBABLE COSTS (Airport for Regional Aircraft - less than 100,000 lbs.)
7,700 ft x 150 ft Runway for Alternative B (Phase 1) Construction (Continued - Stage 4)

Land Acquisition					
Item	Qty	Unit	Unit Price	Total	
Fee Simple Acquisition	2	Acres	\$ 1,000.00	\$ 2,000.00	
Administration				5,000.00	
Engineering Assistance with Land Acquisition				75,000.00	
Engineering Assistance to Vacate Portions of Section Line Roads				25,000.00	
Appraisal				25,000.00	
Review Appraisal				25,000.00	
Attorney				15,000.00	
File Work				10,000.00	
FAA Cleared Report				10,000.00	
Total Estimated Project Cost				\$ 452,000.00	
Total Estimated Project Cost (with 10% contingency)				\$ 498,000.00	

PRELIMINARY

Airport Middle Fence					
Spec.	Qty	Unit	Unit Price	Total	
SP-F-104	1	0' Wildlife Fence with High Tensile Wire Top	27,700 L.F.	\$ 10.00	\$ 277,000.00
SP-F-104	2	2' x 4' Steel Open Wood Frame Fence with High Tensile Wire Top	9 Each	5,000.00	45,000.00
SP-F-104	3	Runway & Taxiway Edge of Wildlife Fence	7,200 L.F.	4.00	28,800.00
SP-Gen	4	Install Road Closure Barriers	2 Each	2,500.00	5,000.00
SP-Gen	5	Modification	1 L.S.	50,000.00	50,000.00
Total Estimated Cost				\$ 446,200.00	
Total Estimated Project Cost				\$ 540,000.00	
Total Estimated Project Cost (with 10% contingency)				\$ 614,000.00	

Contract 7700 x 150 Runway Pavements - Stage 1 (1,300 feet)					
Spec.	Qty	Unit	Unit Price	Total	
P-112	1	Unexcavated Excavation	16,700 C.Y.	\$ 2.00	\$ 33,400.00
P-112	2	Barrow Excavation	726 L.F.	1.20	871.20
P-112	3	Water	7,000 M.Gal.	30.00	210,000.00
P-114	4	Soil Subbase	9,000 C.Y.	50.00	450,000.00
SP-S-101	5	Soil Stabilization Material	23,100 S.Y.	5.00	115,500.00
SP-S-220	6	12 inch Crushed Aggregate Base Course	23,100 S.Y.	3.00	69,300.00
SP-S-220	7	Geotextile Fabric	23,100 S.Y.	3.00	69,300.00
P-401	8	4 inch Bituminous Base Course	4,800 Ton	40.00	192,000.00
P-401	9	Asphalt Concrete - Type FC-SB-28	4,800 Ton	70.00	336,000.00
P-401	10	Asphalt Concrete - Type FC-SB-28	4,800 Ton	70.00	336,000.00
P-402	11	Blotting Sand	3,900 Gal.	3.50	13,650.00
P-420	12	Runway and Taxiway Parking	23,100 S.Y.	1.50	34,650.00
P-420	14	Obstructor Pavement Markings	29,000 L.F.	4.00	116,000.00
P-421	15	Sealed Gravel	14,000 S.Y.	2.00	28,000.00
D-701	16	3/4 inch RCT, Class III	1,100 L.F.	1.00	1,100.00
D-701	17	3/4 inch RCT, Class III	4 L.A.	1,500.00	6,000.00
D-702	18	4 inch Perforated PVC Edgebeam Pipe with Filter Sock	2,000 L.F.	15.00	30,000.00
D-705	19	4 inch PVC Outfall Line & Headwall	8 L.A.	800.00	6,400.00
T-901	20	Seeding	29 Acres	75.00	2,175.00
T-901	21	Seeding	15,000 C.Y.	14.00	210,000.00
T-902	22	Mulching	140,000 S.Y.	1.00	140,000.00
SP-F-910	23	Excise Control Fiber Mat	1,200 S.Y.	10.00	12,000.00
SP-F-910	24	Drain Berms	6,000 L.F.	10.00	60,000.00
L-999	25	Temporary Threshold Lighting	1 L.S.	3,000.00	3,000.00
SP-Gen	26	Field Office / Laboratory	1 L.S.	10,000.00	10,000.00
SP-Gen	27	Airport Traffic Control	1 L.S.	100,000.00	100,000.00
SP-Gen	28	Modification	1 L.S.	425,000.00	425,000.00
Total Estimated Cost				\$ 5,922,520.00	
Total Estimated Project Cost				\$ 6,472,000.00	
Total Estimated Project Cost (with 10% contingency)				\$ 7,120,000.00	

PRELIMINARY

Contract 7700 x 150 Runway Pavements - Stage 2 (1,200 feet)					
Spec.	Qty	Unit	Unit Price	Total	
P-112	1	Unexcavated Excavation	16,700 C.Y.	\$ 2.00	\$ 33,400.00
P-112	2	Barrow Excavation	411,000 C.Y.	3.00	1,233,000.00
P-112	3	Water	5,700 M.Gal.	30.00	171,000.00
P-114	4	Soil Subbase	9,000 C.Y.	50.00	450,000.00
SP-S-101	5	Soil Stabilization Material	21,000 S.Y.	5.00	105,000.00
SP-S-220	6	12 inch Crushed Aggregate Base Course	6,000 C.Y.	3.00	18,000.00
SP-S-220	7	Geotextile Fabric	6,000 C.Y.	3.00	18,000.00
P-401	8	4 inch Bituminous Base Course	4,800 Ton	40.00	192,000.00
P-401	9	Asphalt Concrete - Type FC-SB-28	4,800 Ton	70.00	336,000.00
P-401	10	Asphalt Concrete - Type FC-SB-28	4,800 Ton	70.00	336,000.00
P-402	11	Blotting Sand	3,900 Gal.	3.50	13,650.00
P-420	12	Runway and Taxiway Parking	111,000 S.Y.	1.50	166,500.00
P-420	14	Obstructor Pavement Markings	111,000 L.F.	4.00	444,000.00
P-421	15	Sealed Gravel	111,000 S.Y.	2.00	222,000.00
D-701	16	3/4 inch RCT, Class III	1,020 L.F.	1.00	1,020.00
D-701	17	3/4 inch RCT, Class III	4 L.A.	1,500.00	6,000.00
D-702	18	4 inch Perforated PVC Edgebeam Pipe with Filter Sock	1,800 L.F.	15.00	27,000.00
D-705	19	4 inch PVC Outfall Line & Headwall	8 L.A.	800.00	6,400.00
T-901	20	Seeding	30 Acres	75.00	2,250.00
T-901	21	Seeding	26,000 C.Y.	15.00	390,000.00
T-902	22	Mulching	242,000 S.Y.	1.00	242,000.00
SP-F-910	23	Excise Control Fiber Mat	1,100 S.Y.	10.00	11,000.00
SP-F-910	24	Drain Berms	6,000 L.F.	10.00	60,000.00
L-999	25	Temporary Threshold Lighting	1 L.S.	3,000.00	3,000.00
SP-Gen	26	Field Office / Laboratory	1 L.S.	10,000.00	10,000.00
SP-Gen	27	Airport Traffic Control	1 L.S.	100,000.00	100,000.00
SP-Gen	28	Modification	1 L.S.	642,000.00	642,000.00
Total Estimated Cost				\$ 6,503,830.00	
Total Estimated Project Cost				\$ 7,093,000.00	
Total Estimated Project Cost (with 10% contingency)				\$ 7,803,000.00	

PRELIMINARY

Contract 7700 x 150 Runway Pavements - Stage 3 (5,200 feet)					
Spec.	Qty	Unit	Unit Price	Total	
P-112	1	Unexcavated Excavation	47,000 C.Y.	\$ 3.00	\$ 141,000.00
P-112	2	Barrow Excavation	6,100 M.Gal.	30.00	183,000.00
P-114	3	Soil Subbase	39,000 C.Y.	50.00	1,950,000.00
SP-S-101	4	Soil Stabilization Material	92,000 S.Y.	5.00	460,000.00
SP-S-220	5	12 inch Crushed Aggregate Base Course	29,000 C.Y.	3.00	87,000.00
SP-S-220	6	Geotextile Fabric	92,000 S.Y.	3.00	276,000.00
P-401	7	4 inch Bituminous Base Course	28,000 Ton	40.00	1,120,000.00
P-401	8	Asphalt Concrete - Type FC-SB-28	28,000 Ton	70.00	1,960,000.00
P-401	9	Asphalt Concrete - Type FC-SB-28	28,000 Ton	70.00	1,960,000.00
P-402	10	Blotting Sand	1,800 Gal.	3.50	6,300.00
P-420	11	Runway and Taxiway Parking	111,000 S.Y.	1.50	166,500.00
P-420	14	Obstructor Pavement Markings	111,000 L.F.	4.00	444,000.00
P-421	15	Sealed Gravel	111,000 S.Y.	2.00	222,000.00
D-701	16	3/4 inch RCT, Class III	1,020 L.F.	1.00	1,020.00
D-701	17	3/4 inch RCT, Class III	4 L.A.	1,500.00	6,000.00
D-702	18	4 inch Perforated PVC Edgebeam Pipe with Filter Sock	1,800 L.F.	15.00	27,000.00
D-705	19	4 inch PVC Outfall Line & Headwall	8 L.A.	800.00	6,400.00
T-901	20	Seeding	40 Acres	75.00	3,000.00
T-901	21	Seeding	28,000 C.Y.	15.00	420,000.00
T-902	22	Mulching	260,000 S.Y.	1.00	260,000.00
SP-F-910	23	Excise Control Fiber Mat	1,100 S.Y.	10.00	11,000.00
SP-F-910	24	Drain Berms	6,000 L.F.	10.00	60,000.00
L-999	25	Temporary Threshold Lighting	1 L.S.	3,000.00	3,000.00
SP-Gen	26	Field Office / Laboratory	1 L.S.	10,000.00	10,000.00
SP-Gen	27	Airport Traffic Control	1 L.S.	100,000.00	100,000.00
SP-Gen	28	Modification	1 L.S.	1,847,000.00	1,847,000.00
Total Estimated Cost				\$ 18,149,430.00	
Total Estimated Project Cost				\$ 19,576,000.00	
Total Estimated Project Cost (with 10% contingency)				\$ 21,534,000.00	

PRELIMINARY

Contract High Intensity Runway Lighting					
Spec.	Qty	Unit	Unit Price	Total	
L-107	1	LED Lighted Windcone	1 Each	9,000.00	9,000.00
L-107	2	LED Lighted Windcone	19,000	1,900.00	36,100.00
L-108	3	48 SWL LED Cable	1,500 L.F.	1.50	2,250.00
L-108	4	48 SWL LED Cable	15,000 L.F.	1.50	22,500.00
L-108	5	Cable Pileup (Counterpoise Only)	15,000 L.F.	2.00	30,000.00
L-108	6	4' x 4' LED Cable	2,200 L.F.	2.20	4,840.00
L-108	7	4' x 4' LED Cable	1,200 L.F.	1.20	1,440.00
L-110	8	7" x 7" Control	11,000 L.F.	4.00	44,000.00
L-110	9	3x3' Dual Bank (Lead Encased)	300 L.F.	40.00	12,000.00
L-110	10	1x4' Dual Bank (Lead Encased)	800 L.F.	40.00	32,000.00
SP-L-999	11	18 Runway Light (Blue Round)	72 Each	900.00	64,800.00
SP-L-999	12	18 Threshold Light (Blue Round)	16 Each	900.00	14,400.00
SP-L-999	13	LED Lighted Sign	4,000 Each	4,000.00	16,000.00
SP-L-999	14	LED Lighted Sign (200)	6 Each	4,000.00	24,000.00
SP-L-999	15	LED Lighted Sign	2 Each	17,000.00	34,000.00
SP-L-999	16	LED Lighted Sign	2 Each	15,000.00	30,000.00
SP-L-999	17	Control Cabinet Regulator	1 Each	18,000.00	18,000.00
SP-L-999	18	LED Base Can with Lead Cover	10 Each	400.00	4,000.00
SP-L-999	19	Electrical Methods	2 Each	10,000.00	20,000.00
SP-Gen	20	Field Office / Laboratory	1 L.S.	10,000.00	10,000.00
SP-Gen	21	Airport Traffic Control	1 L.S.	100,000.00	100,000.00
SP-Gen	22	Modification	1 L.S.	74,000.00	74,000.00
Total Estimated Cost				\$ 691,125.00	
Total Estimated Project Cost				\$ 887,000.00	
Total Estimated Project Cost (with 10% contingency)				\$ 976,000.00	

PRELIMINARY

Summary		Total
Land Acquisition		\$ 498,000.00
Airport Middle Fence		614,000.00
Contract 7700 x 150 Runway Pavements - Stage 1 (1,300 feet)		7,120,000.00
Contract 7700 x 150 Runway Pavements - Stage 2 (1,200 feet)		7,803,000.00
Contract 7700 x 150 Runway Pavements - Stage 3 (5,200 feet)		21,534,000.00
Contract High Intensity Runway Lighting		976,000.00
TOTAL		\$ 38,545,000.00

PRELIMINARY

DICKINSON THEODORE ROOSEVELT REGIONAL AIRPORT
DICKINSON, NORTH DAKOTA
ANALYSIS OF PROBABLE COSTS (Asphalt for Regional Aircraft - less than 100,000 lbs.)
7,700 Ft x 150 Ft Runway for Alternate H (Non-Phased Overlay Construction) (Construction Options 2 and 5)

Land Acquisition				
Item	Qty.	Unit	Unit Price	Total
Fee Simple Acquisition	202	Acres	\$ 1,000.00	\$ 202,000.00
Administration				5,000.00
Engineering (Assistance with Land Acquisition)				75,000.00
Engineering Assistance to Vacate Portions of Section Line Roads				25,000.00
Appraisal				25,000.00
Review Appraisal				25,000.00
Attorney				75,000.00
Title Work				10,000.00
FAA Closeout Report				10,000.00
Total Estimated Project Cost				\$ 452,000
Total Estimated Project Cost (with 10% contingency)				\$ 498,000

PRELIMINARY

Airport Wildlife Fence						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
SP-F-168	1	8' Wildlife Fence with High Tensile Wire Top	31,700	L.F.	\$ 10.00	\$ 317,000.00
SP-F-168	2	24" x 8' Slide Open Wildlife Fence Gate with High Tensile Wire Top	9	Each	5,000.00	45,000.00
SP-F-169	3	Remove & Dispose of Wildlife Fence	7,300	L.F.	4.00	29,200.00
SP-Gen	4	Install Road Closed Barriers	2	Each	2,500.00	5,000.00
SP-Gen	5	Mobilization	1	L.S.	50,000.00	50,000.00
Total Estimated Cost						\$ 446,200.00
Other Costs:						
Administration				\$	1,500	
Design & Bidding					45,000	
Construction Administration & Observation					54,000	
Construction Testing					7,500	
FAA Closeout Report					5,000	
Total Other Costs:				\$	113,000	
Total Estimated Project Cost						\$ 560,000
Total Estimated Project Cost (with 10% contingency)						\$ 616,000

Overlay 6400' x 100' Runway Pavements						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-401	1	11 inch Plant Mix Bituminous Pavement Overlay	45,000	Ton	50.00	2,250,000.00
P-401	2	Asphalt Cement - Type PG 58-28	2,930	Ton	750.00	2,197,500.00
P-603	3	Bituminous Tack Coat	28,800	Gal.	3.50	100,800.00
P-620	4	Runway and Taxiway Painting	120,000	S.F.	1.50	180,000.00
P-621	5	Sawcut Grooving	61,000	S.Y.	2.00	122,000.00
SP-Gen	6	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	7	Alnside Traffic Control	1	L.S.	100,000.00	100,000.00
SP-Gen	8	Mobilization	1	L.S.	595,000.00	595,000.00
Total Estimated Cost						\$ 5,555,300.00
Other Costs:						
Administration				\$	2,000	
Design & Bidding					167,000	
Construction Administration & Observation					222,000	
Construction Testing					150,000	
FAA Closeout Report					8,000	
Total Other Costs:				\$	549,000	
Total Estimated Project Cost						\$ 6,105,000
Total Estimated Project Cost (with 10% contingency)						\$ 6,716,000

PRELIMINARY

Construct 1300' x 150' Runway Extension and 6400' x 25' Runway Widening Pavements						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	283,600	C.Y.	\$ 2.00	\$ 567,200.00
P-152	2	Borrow Excavation	490,800	C.Y.	2.00	981,600.00
P-152	3	Water	8,700	ft Gal.	30.00	261,000.00
P-154	4	16-inch Subbase	26,200	C.Y.	50.00	1,310,000.00
SP-P-181	5	Soil Stabilization Material	61,900	S.Y.	5.00	309,500.00
P-209	6	12-inch Crushed Aggregate Base Course	19,700	C.Y.	85.00	1,674,500.00
SP-P-220	7	Geotextile Fabric	61,900	S.Y.	3.00	185,700.00
P-401	8	4-inch Bituminous Base Course	12,700	Ton	40.00	508,000.00
P-401	9	Asphalt Cement - Type PG 58-28	830	Ton	750.00	622,500.00
P-401	10	4-inch Plant Mix Bituminous Pavement	12,700	Ton	50.00	635,000.00
P-401	11	Asphalt Cement - Type PG 58-28	830	Ton	750.00	622,500.00
P-603	12	Bituminous Tack Coat	14,300	Gal.	3.50	50,050.00
P-621	13	Sawcut Grooving	50,000	S.Y.	2.00	100,000.00
D-701	14	36-inch RCP, Class III	3,500	L.F.	300.00	1,050,000.00
D-701	15	36-inch RCEs, Class III	30	Ea.	1,500.00	45,000.00
D-705	16	4-inch Perforated PVC Edgdrain Pipe with Filter Sock	15,412	L.F.	15.00	231,180.00
D-705	17	4-inch PVC Outlet Line & Headwall	62	Ea.	850.00	52,700.00
T-901	18	Seeding	138	Acre	750.00	103,500.00
T-905	19	Tasselling (On Site)	67,640	C.Y.	8.00	541,120.00
T-908	20	Mulching	667,920	S.Y.	1.00	667,920.00
SP-T-910	21	Erosion Control Fiber Mat	3,430	S.Y.	10.00	34,300.00
SP-T-912	22	Straw Bioretts	18,900	L.F.	10.00	189,000.00
SP-Gen	23	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	24	Alnside Traffic Control	1	L.S.	100,000.00	100,000.00
SP-Gen	25	Mobilization	1	L.S.	1,302,000.00	1,302,000.00
Total Estimated Cost						\$ 5,734,270.00
Other Costs:						
Administration				\$	2,000	
Design & Bidding					172,000	
Construction Administration & Observation					229,000	
Construction Testing					150,000	
FAA Closeout Report					8,000	
Total Other Costs:				\$	561,000	
Total Estimated Project Cost						\$ 6,296,000
Total Estimated Project Cost (with 10% contingency)						\$ 6,926,000

PRELIMINARY

Construct High Intensity Runway Lighting						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
L-107	1	L-807 Lighted Windcone	1	Each	\$ 9,000.00	\$ 9,000.00
L-107	2	L-806 Lighted Windcone	2	Each	6,500.00	13,000.00
L-108	3	#8 5KV L-824 Cable	19,000	L.F.	1.50	28,500.00
L-108	4	#6 Counterpoise	17,000	L.F.	1.00	17,000.00
L-108	5	Cable Flowing (Counterpoise Only)	15,000	L.F.	2.00	30,000.00
L-108	6	#2 AWG Cu Type THWN	3,600	L.F.	2.25	8,100.00
L-108	7	#6 Cu Ground	1,300	L.F.	1.25	1,625.00
L-110	8	2" PVC Conduit	17,000	L.F.	6.00	102,000.00
L-110	9	3x3x2" Duct Bank (Sand Encased)	500	L.F.	60.00	30,000.00
L-110	10	1x1x2" Duct Bank (Sand Encased)	200	L.F.	35.00	7,000.00
SP-L-999	11	H8 Runway Light (Base Mount)	12	Each	900.00	10,800.00
SP-L-999	12	H8 Threshold Light (Base Mount)	16	Each	900.00	14,400.00
SP-L-999	13	L-858 Lighted Sign	10	Each	4,800.00	48,000.00
SP-L-999	14	L-858 Lighted Sign (DRS)	6	Each	4,200.00	25,200.00
SP-L-999	15	L-880 PAPI Unit	2	Each	17,000.00	34,000.00
SP-L-999	16	L-849 REEL	2	Each	15,000.00	30,000.00
SP-L-999	17	Constant Current Regulator	1	Each	18,000.00	18,000.00
SP-L-999	18	L-867 Base Can with Solid Cover	10	Each	650.00	6,500.00
SP-L-999	19	Electrical Manhole	2	Each	10,000.00	20,000.00
SP-Gen	20	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	21	Alnside Traffic Control	1	L.S.	100,000.00	100,000.00
SP-Gen	22	Mobilization	1	L.S.	74,000.00	74,000.00
Total Estimated Cost						\$ 691,125.00
Other Costs:						
Administration				\$	2,000	
Design & Bidding					69,000	
Construction Administration & Observation					83,000	
Construction Testing					35,000	
FAA Closeout Report					6,000	
Total Other Costs:				\$	195,000	
Total Estimated Project Cost						\$ 887,000
Total Estimated Project Cost (with 10% contingency)						\$ 976,000

PRELIMINARY

Summary		Total
Land Acquisition		\$ 498,000
Airport Wildlife Fence		616,000
Overlay 6400' x 100' Runway Pavements		6,716,000
Construct 1300' x 150' Runway Extension and 6400' x 25' Runway Widening Pavements		6,926,000
Construct High Intensity Runway Lighting		976,000
TOTAL		\$ 15,732,000

DICKINSON THEODORE ROOSEVELT REGIONAL AIRPORT
DICKINSON, NORTH DAKOTA
ANALYSIS OF PROBABLE COSTS (POC) for Regional Aircraft - less than 100,000 lbs.)
7,700 ft x 100 ft Parallel Taxiway as Runway for Alternate H (Construction Option 2)

Construct 7700' x 100' Runway Pavements (Future Parallel Taxiway) - Stage 1 (6,400 feet)						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	375,000	C.Y.	\$ 3.00	\$ 1,125,000.00
P-152	2	Water	4,200	M Gal.	30.00	126,000.00
SP-P-181	3	Soil Stabilization Material	76,200	S.Y.	5.00	381,000.00
P-209	4	12-inch Crushed Aggregate Base Course	24,200	C.Y.	85.00	2,057,000.00
SP-P-230	5	Geotextile Fabric	76,200	S.Y.	3.00	228,600.00
P-304	6	8-inch Cement Treated Base	76,200	S.Y.	30.00	2,286,000.00
SP-P-411	7	Remove and Dispose of Bituminous Pavement	8,000	S.Y.	7.50	60,000.00
P-501	8	11-inch Portland Cement Concrete Pavement	74,700	S.Y.	94.00	7,021,800.00
P-605	9	Joint Sealing	68,200	L.F.	3.50	238,700.00
P-620	10	Runway and Taxiway Painting	100,000	S.F.	1.00	100,000.00
P-621	11	Sawcut Grooving	57,000	S.Y.	2.00	114,000.00
D-701	12	36-inch RCP, Class III	1,560	L.F.	300.00	468,000.00
D-701	13	36-inch RCES, Class III	26	Ea.	1,500.00	39,000.00
D-705	14	4-inch Perforated PVC Edgedrain Pipe with Filter Sock	12,800	L.F.	15.00	192,000.00
D-705	15	4-inch PVC Outlet Line & Headwall	51	Ea.	850.00	43,350.00
T-901	16	Seeding	29	Acre	750.00	21,750.00
T-905	17	Topsoiling (On Site)	15,500	C.Y.	14.00	217,000.00
T-908	18	Mulching	140,360	S.Y.	1.00	140,360.00
SP-T-910	19	Erosion Control Fiber Mat	1,810	S.Y.	10.00	18,100.00
SP-T-912	20	Straw Bioretalls	8,500	L.F.	10.00	85,000.00
SP-Gen	21	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	22	Alside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	23	Mobilization	1	L.S.	1,806,000.00	1,806,000.00

Total Estimated Cost \$ 16,853,640.00

Other Costs:

Administration	\$ 2,000
Design & Bidding	506,000
Construction Administration & Observation	674,000
Construction Testing	125,000
FAA Closeout Report	7,000

Total Other Costs: \$ 1,314,000

Total Estimated Project Cost \$ 18,168,000

Total Estimated Project Cost (with 10% contingency) \$ 19,985,000

Construct 7700' x 100' Runway Pavements (Future Parallel Taxiway) - Stage 2 (1,300 feet)						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	75,000	C.Y.	\$ 8.00	\$ 600,000.00
P-152	2	Water	800	M Gal.	30.00	24,000.00
SP-P-181	3	Soil Stabilization Material	15,500	S.Y.	5.00	77,500.00
P-209	4	12-inch Crushed Aggregate Base Course	4,900	C.Y.	85.00	416,500.00
SP-P-230	5	Geotextile Fabric	15,500	S.Y.	3.00	46,500.00
P-304	6	8-inch Cement Treated Base	15,500	S.Y.	30.00	465,000.00
SP-P-411	7	Remove and Dispose of Bituminous Pavement	1,700	S.Y.	10.00	17,000.00
P-501	8	11-inch Portland Cement Concrete Pavement	15,200	S.Y.	94.00	1,428,800.00
P-605	9	Joint Sealing	13,800	L.F.	3.50	48,300.00
P-620	10	Runway and Taxiway Painting	20,000	S.F.	1.50	30,000.00
P-621	11	Sawcut Grooving	13,000	S.Y.	2.00	26,000.00
D-701	12	36-inch RCP, Class III	600	L.F.	300.00	180,000.00
D-701	13	36-inch RCES, Class III	2	Ea.	1,500.00	3,000.00
D-705	14	4-inch Perforated PVC Edgedrain Pipe with Filter Sock	2,600	L.F.	15.00	39,000.00
D-705	15	4-inch PVC Outlet Line & Headwall	10	Ea.	850.00	8,500.00
T-901	16	Seeding	20	Acre	750.00	15,000.00
T-905	17	Topsoiling (On Site)	15,000	C.Y.	14.00	210,000.00
T-908	18	Mulching	96,800	S.Y.	1.00	96,800.00
SP-T-910	19	Erosion Control Fiber Mat	200	S.Y.	10.00	2,000.00
SP-T-912	20	Straw Bioretalls	1,700	L.F.	10.00	17,000.00
SP-Gen	21	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	22	Alside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	23	Mobilization	1	L.S.	460,000.00	460,000.00

Total Estimated Cost \$ 4,295,900.00

Other Costs:

Administration	\$ 2,000
Design & Bidding	172,000
Construction Administration & Observation	215,000
Construction Testing	100,000
FAA Closeout Report	7,000

Total Other Costs: \$ 496,000

Total Estimated Project Cost \$ 4,792,000

Total Estimated Project Cost (with 10% contingency) \$ 5,272,000

Construct High Intensity Runway Lighting						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
L-107	1	L-807 Lighted Windcone	1	Each	\$ 9,000.00	\$ 9,000.00
L-107	2	L-806 Lighted Windcone	2	Each	6,500.00	13,000.00
L-108	3	#8 5KV L-824 Cable	19,000	L.F.	1.50	28,500.00
L-108	4	#6 Counterpoise	17,000	L.F.	1.00	17,000.00
L-108	5	Cable Ploving (Counterpoise Only)	15,000	L.F.	2.00	30,000.00
L-108	6	#2 AWG Cu Type THWN	3,600	L.F.	2.25	8,100.00
L-108	7	#6 Cu Ground	1,300	L.F.	1.25	1,625.00
L-110	8	2" PVC Conduit	17,000	L.F.	6.00	102,000.00
L-110	9	3x3x2" Duct Bank (Sand Encased)	500	L.F.	60.00	30,000.00
L-110	10	1x4x2" Duct Bank (Sand Encased)	200	L.F.	35.00	7,000.00
SP-L-999	11	HI Runway Light (Base Mount)	72	Each	900.00	64,800.00
SP-L-999	12	HI Threshold Light (Base Mount)	16	Each	900.00	14,400.00
SP-L-999	13	L-858 Lighted Sign	10	Each	4,800.00	48,000.00
SP-L-999	14	L-858 Lighted Sign (DRS)	6	Each	4,200.00	25,200.00
SP-L-999	15	L-860 HiRI Unit	2	Each	17,000.00	34,000.00
SP-L-999	16	L-849 REL	2	Each	15,000.00	30,000.00
SP-L-999	17	Constant Current Regulator	1	Each	18,000.00	18,000.00
SP-L-999	18	L-867B Base Can with Solid Cover	10	Each	650.00	6,500.00
SP-L-999	19	Electrical Manhole	2	Each	10,000.00	20,000.00
SP-Gen	20	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	21	Alside Traffic Control	1	L.S.	65,000.00	65,000.00
SP-Gen	22	Mobilization	1	L.S.	70,000.00	70,000.00

Total Estimated Cost \$ 652,125.00

Other Costs:

Administration	\$ 2,000
Design & Bidding	65,000
Construction Administration & Observation	78,000
Construction Testing	35,000
FAA Closeout Report	6,000

Total Other Costs: \$ 186,000

Total Estimated Project Cost \$ 839,000

Total Estimated Project Cost (with 10% contingency) \$ 923,000

Convert Runway to Taxiway						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-620	1	Obsolete Pavement Markings	110,000	S.F.	2.00	220,000.00
P-620	2	Runway and Taxiway Painting	75,000	S.F.	1.50	112,500.00
SP-L-999	3	Revise Lighting from HIRL to MITL	1	L.S.	400,000.00	400,000.00
SP-Gen	4	Alside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	5	Mobilization	1	L.S.	97,000.00	97,000.00

Total Estimated Cost \$ 904,500.00

Other Costs:

Administration	\$ 2,000
Design & Bidding	36,000
Construction Administration & Observation	45,000
Construction Testing	7,000

Total Other Costs: \$ 90,000

Total Estimated Project Cost \$ 995,000

Total Estimated Project Cost (with 10% contingency) \$ 1,095,000

Summary						
Construct 7700' x 100' Runway Pavements (Future Parallel Taxiway) - Stage 1 (6,400 feet)						19,985,000
Construct 7700' x 100' Runway Pavements (Future Parallel Taxiway) - Stage 2 (1,300 feet)						5,272,000
Construct High Intensity Runway Lighting						923,000
Convert Runway to Taxiway						1,095,000

TOTAL \$ 27,275,000

DICKINSON THEODORE ROOSEVELT REGIONAL AIRPORT
DICKINSON, NORTH DAKOTA
ANALYSIS OF PROBABLE COSTS (PCC for Regional Aircraft - less than 100,000 lbs.)
7,700 ft x 150 ft Runway for Alternate H (Non-Phased Construction) (Construction Options 2, 3 and 5)

Land Acquisition					
Item	Qty.	Unit	Unit Price		Total
Fee Simple Acquisition	202	Acres	\$ 1,000.00	\$	202,000.00
Administration					5,000.00
Engineering (Assistance with Land Acquisition)					75,000.00
Engineering Assistance to Vacate Portions of Section Line Roads					25,000.00
Appraisal					25,000.00
Review Appraisal					25,000.00
Attorney					75,000.00
Title Work					10,000.00
FAA Closeout Report					10,000.00
Total Estimated Project Cost				\$	452,000
Total Estimated Project Cost (with 10% contingency)				\$	498,000

PRELIMINARY

Airport Wildlife Fence						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
SP-F-168	1	8' Wildlife Fence with High Tensile Wire Top	31,700	L.F.	\$ 10.00	\$ 317,000.00
SP-F-168	2	24' x 8' Slide Open Wildlife Fence Gate with High Tensile Wire Top	9	Each	5,000.00	45,000.00
SP-F-169	3	Remove & Dispose of Wildlife Fence	7,300	L.F.	4.00	29,200.00
SP-Gen	4	Install Road Closed Barriers	2	Each	2,500.00	5,000.00
SP-Gen	5	Mobilization	1	L.S.	50,000.00	50,000.00
Total Estimated Cost						\$ 446,200.00
Other Costs:						
Administration				\$	1,500	
Design & Bidding					45,000	
Construction Administration & Observation					54,000	
Construction Testing					7,500	
FAA Closeout Report					5,000	
Total Other Costs:				\$	113,000	
Total Estimated Project Cost				\$	560,000	
Total Estimated Project Cost (with 10% contingency)				\$	616,000	

Construct 7700' x 150' Runway Pavements						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	630,200	C.Y.	\$ 2.00	\$ 1,260,400.00
P-152	2	Borrow Excavation	1,090,600	C.Y.	2.00	2,181,200.00
P-152	3	Water	18,100	M Gal.	30.00	543,000.00
SP-P-181	4	Soil Stabilization Material	136,600	S.Y.	5.00	683,000.00
P-209	5	12-inch Crushed Aggregate Base Course	43,400	C.Y.	85.00	3,689,000.00
SP-P-230	6	Geotextile Fabric	136,600	S.Y.	3.00	409,800.00
P-304	7	8-inch Cement Treated Base	136,600	S.Y.	30.00	4,098,000.00
P-501	8	11-inch Portland Cement Concrete Pavement	134,800	S.Y.	98.00	13,210,400.00
P-605	9	Joint Sealing	155,750	L.F.	3.50	545,125.00
P-620	10	Runway and Taxiway Painting	120,000	S.F.	1.50	180,000.00
P-621	11	Sawcut Grooving	111,000	S.Y.	2.00	222,000.00
D-701	12	36-inch RCP, Class III	8,500	L.F.	300.00	2,550,000.00
D-701	13	36-inch RCES, Class III	30	Ea.	1,500.00	45,000.00
D-705	14	4-inch Perforated PVC Edgedrain Pipe with Filter Sock	15,412	L.F.	15.00	231,180.00
D-705	15	4-inch PVC Outlet Line & Headwall	52	Ea.	850.00	52,700.00
T-901	16	Seeding	138	Acro	750.00	103,500.00
T-905	17	Topsolling (On Site)	67,640	C.Y.	8.00	541,120.00
T-908	18	Mulching	667,920	S.Y.	1.00	667,920.00
SP-T-910	19	Erosion Control Fiber Mat	3,430	S.Y.	10.00	34,300.00
SP-T-912	20	Straw Bioretts	18,900	L.F.	10.00	189,000.00
SP-Gen	21	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	22	Airside Traffic Control	1	L.S.	100,000.00	100,000.00
SP-Gen	23	Mobilization	1	L.S.	3,786,000.00	3,786,000.00
Total Estimated Cost						\$ 35,332,645.00
Other Costs:						
Administration				\$	2,000	
Design & Bidding					1,060,000	
Construction Administration & Observation					1,413,000	
Construction Testing					150,000	
FAA Closeout Report					8,000	
Total Other Costs:				\$	2,633,000	
Total Estimated Project Cost				\$	37,966,000	
Total Estimated Project Cost (with 10% contingency)				\$	41,763,000	

PRELIMINARY

Construct High Intensity Runway Lighting						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
L-107	1	L-807 Lighted Windcone	1	Each	\$ 9,000.00	\$ 9,000.00
L-107	2	L-806 Lighted Windcone	2	Each	6,500.00	13,000.00
L-108	3	#8 5KV L-824 Cable	19,000	L.F.	1.50	28,500.00
L-108	4	#6 Counterpoise	17,000	L.F.	1.00	17,000.00
L-108	5	Cable Plowing (Counterpoise Only)	15,000	L.F.	2.00	30,000.00
L-108	6	#2 AWG Cu Type THWN	3,600	L.F.	2.25	8,100.00
L-108	7	#6 Cu Ground	1,300	L.F.	1.25	1,625.00
L-110	8	2" PVC Conduit	17,000	L.F.	6.00	102,000.00
L-110	9	3x3x2" Duct Bank (Sand Encased)	500	L.F.	60.00	30,000.00
L-110	10	1x4x2" Duct Bank (Sand Encased)	200	L.F.	35.00	7,000.00
SP-L-999	11	HI Runway Light (Base Mount)	72	Each	900.00	64,800.00
SP-L-999	12	HI Threshold Light (Base Mount)	16	Each	900.00	14,400.00
SP-L-999	13	L-858 Lighted Sign	10	Each	4,800.00	48,000.00
SP-L-999	14	L-858 Lighted Sign (DRS)	6	Each	4,200.00	25,200.00
SP-L-999	15	L-880 PAPI Unit	2	Each	17,000.00	34,000.00
SP-L-999	16	L-849 REIL	2	Each	15,000.00	30,000.00
SP-L-999	17	Constant Current Regulator	1	Each	18,000.00	18,000.00
SP-L-999	18	L-867B Base Can with Solid Cover	10	Each	650.00	6,500.00
SP-L-999	19	Electrical Manhole	2	Each	10,000.00	20,000.00
SP-Gen	20	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	21	Airside Traffic Control	1	L.S.	100,000.00	100,000.00
SP-Gen	22	Mobilization	1	L.S.	74,000.00	74,000.00
Total Estimated Cost						\$ 691,125.00
Other Costs:						
Administration				\$	2,000	
Design & Bidding					69,000	
Construction Administration & Observation					83,000	
Construction Testing					35,000	
FAA Closeout Report					6,000	
Total Other Costs:				\$	195,000	
Total Estimated Project Cost				\$	887,000	
Total Estimated Project Cost (with 10% contingency)				\$	976,000	

PRELIMINARY

Summary		
Land Acquisition		\$ 498,000
Airport Wildlife Fence		616,000
Construct 7700' x 150' Runway Pavements		41,763,000
Construct High Intensity Runway Lighting		976,000
TOTAL		\$ 43,853,000

DICKINSON THEODORE ROOSEVELT REGIONAL AIRPORT
DICKINSON, NORTH DAKOTA
ANALYSIS OF PROBABLE COSTS (PCC for Regional Aircraft - less than 100,000 lbs.)
7,700 Ft x 50 Ft Parallel Taxiway for Alternate H (Construction Options 3, 4 and 5)

Construct 7700' x 50' Parallel Taxiway Pavements - Stage 1 (6,400 feet)						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	340,500	C.Y.	\$ 3.00	\$ 1,021,500.00
P-152	2	Water	3,700	M Gal.	30.00	111,000.00
SP-P-181	3	Soil Stabilization Material	38,800	S.Y.	5.00	194,000.00
P-209	4	12-Inch Crushed Aggregate Base Course	13,300	C.Y.	85.00	1,130,500.00
SP-P-230	5	Geotextile Fabric	38,800	S.Y.	3.00	116,400.00
P-304	6	8-Inch Cement Treated Base	38,800	S.Y.	30.00	1,164,000.00
SP-P-411	7	Remove and Dispose of Bituminous Pavement	13,500	S.Y.	7.50	101,250.00
P-501	8	11-Inch Portland Cement Concrete Pavement	37,300	S.Y.	98.00	3,655,400.00
P-605	9	Joint Sealing	47,000	L.F.	3.50	164,500.00
P-620	10	Runway and Taxiway Painting	38,000	S.F.	1.00	38,000.00
D-701	11	36-Inch RCP, Class III	1,550	L.F.	300.00	465,000.00
D-701	12	36-Inch RCES, Class III	26	Ea.	1,500.00	39,000.00
D-705	13	4-Inch Perforated PVC Edgedrain Pipe with Filter Sock	12,800	L.F.	15.00	192,000.00
D-705	14	4-Inch PVC Outlet Line & Headwall	51	Ea.	850.00	43,350.00
T-901	15	Seeding	13	Acres	750.00	9,750.00
T-905	16	Topsolling (On Site)	21,000	C.Y.	14.00	294,000.00
T-908	17	Mulching	62,920	S.Y.	1.00	62,920.00
SP-T-910	18	Erosion Control Fiber Mat	1,810	S.Y.	10.00	18,100.00
SP-T-912	19	Straw Biorolls	8,500	L.F.	10.00	85,000.00
SP-Gen	20	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	21	Airside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	22	Mobilization	1	L.S.	1,079,000.00	1,079,000.00

Total Estimated Cost \$ 10,072,670.00

Other Costs:

Administration	\$ 2,000
Design & Bidding	302,000
Construction Administration & Observation	403,000
Construction Testing	125,000
FAA Closeout Report	7,000

Total Other Costs: \$ 839,000

Total Estimated Project Cost \$ 10,912,000

Total Estimated Project Cost (with 10% contingency) \$ 12,004,000

Construct 7700' x 50' Parallel Taxiway Pavements - Stage 2 (1,300 feet)						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	70,000	C.Y.	\$ 8.00	\$ 560,000.00
P-152	2	Water	800	M Gal.	30.00	24,000.00
SP-P-181	3	Soil Stabilization Material	7,900	S.Y.	5.00	39,500.00
P-209	4	12-Inch Crushed Aggregate Base Course	2,500	C.Y.	85.00	212,500.00
SP-P-230	5	Geotextile Fabric	7,900	S.Y.	3.00	23,700.00
P-304	6	8-Inch Cement Treated Base	7,900	S.Y.	30.00	237,000.00
P-501	7	11-Inch Portland Cement Concrete Pavement	7,600	S.Y.	98.00	744,800.00
P-605	8	Joint Sealing	6,600	L.F.	3.50	23,100.00
P-620	9	Runway and Taxiway Painting	20,000	S.F.	1.50	30,000.00
D-701	10	36-Inch RCP, Class III	600	L.F.	300.00	180,000.00
D-701	11	36-Inch RCES, Class III	2	Ea.	1,500.00	3,000.00
D-705	12	4-Inch Perforated PVC Edgedrain Pipe with Filter Sock	2,600	L.F.	15.00	39,000.00
D-705	13	4-Inch PVC Outlet Line & Headwall	10	Ea.	850.00	8,500.00
T-901	14	Seeding	10	Acres	750.00	7,500.00
T-905	15	Topsolling (On Site)	10,000	C.Y.	15.00	150,000.00
T-908	16	Mulching	48,400	S.Y.	1.00	48,400.00
SP-T-910	17	Erosion Control Fiber Mat	200	S.Y.	10.00	2,000.00
SP-T-912	18	Straw Biorolls	1,700	L.F.	10.00	17,000.00
SP-Gen	19	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	20	Airside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	21	Mobilization	1	L.S.	292,000.00	292,000.00

Total Estimated Cost \$ 2,727,000.00

Other Costs:

Administration	\$ 2,000
Design & Bidding	109,000
Construction Administration & Observation	136,000
Construction Testing	100,000
FAA Closeout Report	7,000

Total Other Costs: \$ 354,000

Total Estimated Project Cost \$ 3,081,000

Total Estimated Project Cost (with 10% contingency) \$ 3,390,000

Construct Medium Intensity Taxiway Lighting						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
L-107	1	L-807 Lighted Windcone	1	Each	\$ 9,000.00	\$ 9,000.00
L-107	2	L-806 Lighted Windcone	2	Each	6,500.00	13,000.00
L-108	3	#8 18KV L-824 Cable	19,000	L.F.	1.50	28,500.00
L-108	4	#6 Counterpoise	17,000	L.F.	1.00	17,000.00
L-108	5	Cable Flowing (Counterpoise Only)	15,000	L.F.	2.00	30,000.00
L-108	6	#2 AWG Cu Type THWN	3,600	L.F.	2.25	8,100.00
L-108	7	#6 Cu Ground	1,300	L.F.	1.25	1,625.00
L-110	8	2" PVC Conduit	17,000	L.F.	6.00	102,000.00
L-110	9	3x3x2" Duct Bank (Sand Encased)	500	L.F.	60.00	30,000.00
L-110	10	1x4x2" Duct Bank (Sand Encased)	200	L.F.	35.00	7,000.00
SP-L-999	11	HI Runway Light (Base Mount)	72	Each	900.00	64,800.00
SP-L-999	12	HI Threshold Light (Base Mount)	16	Each	900.00	14,400.00
SP-L-999	13	L-858 Lighted Sign	10	Each	4,800.00	48,000.00
SP-L-999	14	L-858 Lighted Sign (DRS)	6	Each	4,200.00	25,200.00
SP-L-999	15	L-880 PAPI Unit	2	Each	17,000.00	34,000.00
SP-L-999	16	L-849 REIL	2	Each	15,000.00	30,000.00
SP-L-999	17	Constant Current Regulator	1	Each	18,000.00	18,000.00
SP-L-999	18	L-867B Base Can with Solid Cover	10	Each	650.00	6,500.00
SP-L-999	19	Electrical Manhole	2	Each	10,000.00	20,000.00
SP-Gen	20	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	21	Airside Traffic Control	1	L.S.	65,000.00	65,000.00
SP-Gen	22	Mobilization	1	L.S.	70,000.00	70,000.00

Total Estimated Cost \$ 652,125.00

Other Costs:

Administration	\$ 2,000
Design & Bidding	65,000
Construction Administration & Observation	78,000
Construction Testing	35,000
FAA Closeout Report	6,000

Total Other Costs: \$ 186,000

Total Estimated Project Cost \$ 839,000

Total Estimated Project Cost (with 10% contingency) \$ 923,000

Summary		
Construct 7700' x 50' Parallel Taxiway Pavements - Stage 1 (6,400 feet)		12,004,000
Construct 7700' x 50' Parallel Taxiway Pavements - Stage 2 (1,300 feet)		3,390,000
Construct Medium Intensity Taxiway Lighting		923,000
TOTAL		\$ 16,317,000

DICKINSON THEODORE ROOSEVELT REGIONAL AIRPORT
DICKINSON, NORTH DAKOTA
ANALYSIS OF PROBABLE COSTS (PCC) For Regional Aircraft - less than 100,000 lbs.)
7,700 to 1,100 Runway for Alternative II (Phase Construction) Construction Option 4)

Land Acquisition					
Item	Qty	Unit	Unit Price	Total	
Fee Simple Acquisition	202	Acres	\$ 1,000.00	\$	202,000.00
Administration				\$	5,000.00
Engineering/Assistance with Land Acquisition				\$	75,000.00
Engineering/Assistance to Vacate Portions of Section Line Bids				\$	25,000.00
Approval				\$	25,000.00
Review Appraisal				\$	25,000.00
Attorney				\$	75,000.00
File Work				\$	100,000.00
FAA Clearance Report				\$	10,000.00
Total Estimated Project Cost				\$	452,000.00
Total Estimated Project Cost (with 10% contingency)				\$	498,000.00

Airport Middle Fence						
Spec	No.	Item	Qty	Unit	Unit Price	Total
SP-F-104	1	8' Wildlife Fence with High Tensile Wire Top	27,700	L.F.	\$ 10.20	\$ 282,540.00
SP-F-104	2	2 1/2" x 8" Steel Open Width Fence Gate with High Tensile Wire Top	5	Each	\$ 4,000.00	\$ 20,000.00
SP-F-104	3	Removal & Dispose of Wildlife Fence	7,300	L.F.	\$ 4.00	\$ 29,200.00
SP-Gen	4	Install Road Closed Barriers	2	Each	\$ 2,500.00	\$ 5,000.00
SP-Gen	5	Modification	1	L.S.	\$ 50,000.00	\$ 50,000.00
Total Estimated Cost				\$	446,200.00	
Other Costs:				\$	1,300.00	
Administration				\$	45,000.00	
Design & Bidding				\$	65,000.00	
Construction Administration & Observation				\$	15,000.00	
Construction Testing				\$	1,500.00	
FAA Clearance Report				\$	3,000.00	
Total Other Costs:				\$	113,000.00	
Total Estimated Project Cost				\$	560,000.00	
Total Estimated Project Cost (with 10% contingency)				\$	616,000.00	

Construct 7'00" x 150' Runway Pavements - Stage 1 (1,300 feet)						
Spec	No.	Item	Qty	Unit	Unit Price	Total
P-112	1	Unclassified Excavation	726,100	C.Y.	\$ 2.00	\$ 1,452,200.00
P-112	2	Import Excavation	7,700	M.Gal	\$ 30.00	\$ 231,000.00
P-112	3	Water	7,700	M.Gal	\$ 3.00	\$ 23,100.00
SP-F-103	4	Sold Stabilization Material	25,100	S.Y.	\$ 3.00	\$ 75,300.00
P-209	5	12 Inch Crushed Aggregate Base Course	7,700	C.Y.	\$ 8.00	\$ 61,600.00
SP-F-220	6	Geotextile Fabric	25,100	S.Y.	\$ 3.00	\$ 75,300.00
P-204	7	8 Inch Cement Treated Base	23,100	S.Y.	\$ 30.00	\$ 693,000.00
P-201	8	11 Inch Portland Cement Concrete Pavement	23,100	S.Y.	\$ 60.00	\$ 1,386,000.00
P-405	9	Joint Sealing	25,100	L.F.	\$ 1.50	\$ 37,650.00
P-420	10	Runway and Taxiway Painting	25,100	S.Y.	\$ 1.50	\$ 37,650.00
P-420	11	Obstacle Prevention Markings	25,000	S.Y.	\$ 4.00	\$ 100,000.00
P-421	12	Special Coatings	14,400	S.Y.	\$ 2.00	\$ 28,800.00
D-101	13	36 inch RCY, Class II	1,100	L.F.	\$ 300.00	\$ 330,000.00
D-101	14	36 inch RCY, Class II	4	EA	\$ 1,500.00	\$ 6,000.00
D-105	15	4 Inch Perforated PVC Edgewise Pipe with Filter Sock	2,000	L.F.	\$ 15.00	\$ 30,000.00
D-105	16	4 Inch PVC Culvert Liner & Headwall	8	EA	\$ 800.00	\$ 6,400.00
T-901	17	Seeding	29	Acres	\$ 750.00	\$ 21,750.00
T-902	18	Spreading (On-Site)	14,400	C.Y.	\$ 14.00	\$ 201,600.00
T-908	19	Mulching	140,300	S.Y.	\$ 1.00	\$ 140,300.00
SP-F-910	20	Embankment Control Fabric Mat	25,100	S.Y.	\$ 10.00	\$ 251,000.00
SP-F-912	21	Draw Berms	4,800	L.F.	\$ 1.00	\$ 4,800.00
L-109	22	Temporary Threshold Lighting	2,000	L.S.	\$ 2,500.00	\$ 5,000.00
SP-Gen	23	Field Office / Laboratory	1	L.S.	\$ 100,000.00	\$ 100,000.00
SP-Gen	24	Airside Traffic Control	1	L.S.	\$ 100,000.00	\$ 100,000.00
SP-Gen	25	Modification	1	L.S.	\$ 826,000.00	\$ 826,000.00
Total Estimated Cost				\$	7,707,420.00	
Other Costs:				\$	2,000.00	
Administration				\$	251,000.00	
Design & Bidding				\$	208,000.00	
Construction Administration & Observation				\$	125,000.00	
Construction Testing				\$	3,000.00	
FAA Clearance Report				\$	3,000.00	
Total Other Costs:				\$	673,000.00	
Total Estimated Project Cost				\$	8,381,000.00	
Total Estimated Project Cost (with 10% contingency)				\$	9,220,000.00	

Construct 7'00" x 150' Runway Pavements - Stage 2 (2,200 feet)						
Spec	No.	Item	Qty	Unit	Unit Price	Total
P-112	1	Unclassified Excavation	128,100	C.Y.	\$ 4.00	\$ 512,400.00
P-112	2	Import Excavation	411,800	C.Y.	\$ 3.00	\$ 1,235,400.00
P-112	3	Water	5,000	M.Gal	\$ 30.00	\$ 150,000.00
SP-F-103	4	Sold Stabilization Material	21,100	S.Y.	\$ 3.00	\$ 63,300.00
P-209	5	12 Inch Crushed Aggregate Base Course	6,000	C.Y.	\$ 8.00	\$ 48,000.00
SP-F-220	6	Geotextile Fabric	21,100	S.Y.	\$ 3.00	\$ 63,300.00
P-204	7	8 Inch Cement Treated Base	21,000	S.Y.	\$ 30.00	\$ 630,000.00
P-201	8	11 Inch Portland Cement Concrete Pavement	21,000	S.Y.	\$ 60.00	\$ 1,260,000.00
P-405	9	Joint Sealing	21,100	L.F.	\$ 1.50	\$ 31,650.00
P-420	10	Runway and Taxiway Painting	21,100	S.Y.	\$ 1.50	\$ 31,650.00
P-420	11	Obstacle Prevention Markings	21,000	S.Y.	\$ 4.00	\$ 84,000.00
P-421	12	Special Coatings	18,100	S.Y.	\$ 2.00	\$ 36,200.00
D-101	13	36 inch RCY, Class II	1,000	L.F.	\$ 300.00	\$ 300,000.00
D-101	14	36 inch RCY, Class II	4	EA	\$ 1,500.00	\$ 6,000.00
D-105	15	4 Inch Perforated PVC Edgewise Pipe with Filter Sock	1,800	L.F.	\$ 15.00	\$ 27,000.00
D-105	16	4 Inch PVC Culvert Liner & Headwall	6	EA	\$ 800.00	\$ 4,800.00
T-901	17	Seeding	30	Acres	\$ 700.00	\$ 21,000.00
T-902	18	Spreading (On-Site)	26,100	C.Y.	\$ 12.00	\$ 313,200.00
T-908	19	Mulching	242,000	S.Y.	\$ 1.00	\$ 242,000.00
SP-F-910	20	Embankment Control Fabric Mat	21,100	S.Y.	\$ 10.00	\$ 211,000.00
SP-F-912	21	Draw Berms	4,000	L.F.	\$ 1.00	\$ 4,000.00
L-109	22	Temporary Threshold Lighting	1,500	L.S.	\$ 3,000.00	\$ 4,500.00
SP-Gen	23	Field Office / Laboratory	1	L.S.	\$ 100,000.00	\$ 100,000.00
SP-Gen	24	Airside Traffic Control	1	L.S.	\$ 100,000.00	\$ 100,000.00
SP-Gen	25	Modification	1	L.S.	\$ 818,000.00	\$ 818,000.00
Total Estimated Cost				\$	8,146,760.00	
Other Costs:				\$	2,000.00	
Administration				\$	244,000.00	
Design & Bidding				\$	208,000.00	
Construction Administration & Observation				\$	125,000.00	
Construction Testing				\$	3,000.00	
FAA Clearance Report				\$	3,000.00	
Total Other Costs:				\$	704,000.00	
Total Estimated Project Cost				\$	8,849,000.00	
Total Estimated Project Cost (with 10% contingency)				\$	9,734,000.00	

Construct 7'00" x 150' Runway Pavements - Stage 3 (2,200 feet)						
Spec	No.	Item	Qty	Unit	Unit Price	Total
P-112	1	Unclassified Excavation	477,900	C.Y.	\$ 3.00	\$ 1,433,700.00
P-112	2	Water	5,000	M.Gal	\$ 30.00	\$ 150,000.00
SP-F-103	3	Sold Stabilization Material	20,200	S.Y.	\$ 3.00	\$ 60,600.00
P-209	4	12 Inch Crushed Aggregate Base Course	29,100	C.Y.	\$ 8.00	\$ 232,800.00
SP-F-220	5	Geotextile Fabric	20,200	S.Y.	\$ 3.00	\$ 60,600.00
SP-F-411	6	8 Inch Cement Treated Base	40,000	S.Y.	\$ 15.00	\$ 600,000.00
SP-F-411	7	Removal and Dispose of Bituminous Pavement	11,000	S.Y.	\$ 60.00	\$ 660,000.00
P-204	8	11 Inch Portland Cement Concrete Pavement	11,000	S.Y.	\$ 60.00	\$ 660,000.00
P-405	9	Joint Sealing	20,200	L.F.	\$ 1.50	\$ 30,300.00
P-420	10	Runway and Taxiway Painting	20,200	S.Y.	\$ 1.50	\$ 30,300.00
P-420	11	Obstacle Prevention Markings	20,000	S.Y.	\$ 4.00	\$ 80,000.00
P-421	12	Special Coatings	17,200	S.Y.	\$ 2.00	\$ 34,400.00
D-101	13	36 inch RCY, Class II	800	L.F.	\$ 300.00	\$ 240,000.00
D-101	14	36 inch RCY, Class II	3	EA	\$ 1,500.00	\$ 4,500.00
D-105	15	4 Inch Perforated PVC Edgewise Pipe with Filter Sock	11,562	L.F.	\$ 15.00	\$ 173,430.00
D-105	16	4 Inch PVC Culvert Liner & Headwall	46	EA	\$ 800.00	\$ 36,800.00
T-901	17	Seeding	40	Acres	\$ 700.00	\$ 28,000.00
T-902	18	Spreading (On-Site)	26,100	C.Y.	\$ 12.00	\$ 313,200.00
T-908	19	Mulching	290,400	S.Y.	\$ 1.00	\$ 290,400.00
SP-F-910	20	Embankment Control Fabric Mat	20,200	S.Y.	\$ 10.00	\$ 202,000.00
SP-F-912	21	Draw Berms	4,000	L.F.	\$ 1.00	\$ 4,000.00
L-109	22	Temporary Threshold Lighting	1,500	L.S.	\$ 3,000.00	\$ 4,500.00
SP-Gen	23	Field Office / Laboratory	1	L.S.	\$ 100,000.00	\$ 100,000.00
SP-Gen	24	Airside Traffic Control	1	L.S.	\$ 100,000.00	\$ 100,000.00
SP-Gen	25	Modification	1	L.S.	\$ 2,515,000.00	\$ 2,515,000.00
Total Estimated Cost				\$	22,473,363.00	
Other Costs:				\$	2,000.00	
Administration				\$	194,000.00	
Design & Bidding				\$	191,000.00	
Construction Administration & Observation				\$	125,000.00	
Construction Testing				\$	3,000.00	
FAA Clearance Report				\$	3,000.00	
Total Other Costs:				\$	1,777,000.00	
Total Estimated Project Cost				\$	25,251,000.00	
Total Estimated Project Cost (with 10% contingency)				\$	27,777,000.00	

Construct High Intensity Runway Lighting						
Spec	No.	Item	Qty	Unit	Unit Price	Total
L-107	1	L-807 Lighted Windcone	1	Each	\$ 9,000.00	\$ 9,000.00
L-107	2	L-808 Lighted Windcone	2	Each	\$ 6,000.00	\$ 12,000.00
L-108	3	RP59Y L-24 Cable	19,000	L.F.	\$ 1.50	\$ 28,500.00
L-108	4	RP5 Cable	11,000	L.F.	\$ 1.00	\$ 11,000.00
L-108	5	Cable Pileup (Cable/Bumper Only)	15,000	L.F.	\$ 2.00	\$ 30,000.00
L-108	6	RP5 Cable Type 1000	2,400	L.F.	\$ 2.25	\$ 5,400.00
L-108	7	RP5 Cable	1,300	L.F.	\$ 1.20	\$ 1,560.00
L-110	8	2x2x2-200-100 (S&H Encased)	17,000	L.F.	\$ 6.00	\$ 102,000.00
L-110	9	2x2x2-200-100 (S&H Encased)	40,000	L.F.	\$ 4.00	\$ 160,000.00
L-110	10	1x1x2-200-100 (S&H Encased)	200	L.F.	\$ 30.00	\$ 6,000.00
SP-L-999	11	RP5 Runway Light (S&H Mount)	72	Each	\$ 60.00	\$ 4,320.00
SP-L-999	12	RP5 Threshold Light (S&H Mount)	16	Each	\$ 900.00	\$ 14,400.00
SP-L-999	13	L-808 Lighted Sign (S&H)	10	Each	\$ 4,000.00	\$ 40,000.00
SP-L-999	14	L-808 Lighted Sign (S&H)	6	Each	\$ 4,000.00	\$ 24,000.00
SP-L-999	15	L-807 Lighted Sign	3	Each	\$ 17,000.00	\$ 51,000.00
SP-L-999	16	L-807 Lighted Sign	2	Each	\$ 15,000.00	\$ 30,000.00
SP-L-999	17	Control Current Regulator	1	Each	\$ 18,000.00	\$ 18,000.00
SP-L-999	18	L-810 Base Cap with Solid Cover	10	Each	\$ 600.00	\$ 6,000.00
SP-L-999	19	Electrical Cable	2	Each	\$ 100,000.00	\$ 200,000.00
SP-Gen	20	Field Office / Laboratory	1	L.S.	\$ 100,000.00	\$ 100,000.00
SP-Gen	21	Airside Traffic Control	1	L.S.	\$ 100,000.00	\$ 100,000.00
SP-Gen	22	Modification	1	L.S.	\$ 74,000.00	\$ 74,000.00
Total Estimated Cost						

DICKINSON THEODORE ROOSEVELT REGIONAL AIRPORT
DICKINSON, NORTH DAKOTA
ANALYSIS OF PROBABLE COSTS (PCC for Regional Aircraft - less than 100,000 lbs.)
7,700 Ft x 150 Ft Runway for Alternate H (Non-Phased Overlay Construction) (Construction Options 2 and 5)

Land Acquisition				
Item	Qty.	Unit	Unit Price	Total
Fee Simple Acquisition	202	Acres	\$ 1,000.00	\$ 202,000.00
Administration				5,000.00
Engineering (Assistance with Land Acquisition)				75,000.00
Engineering Assistance to Vacate Portions of Section Line Roads				25,000.00
Appraisal				25,000.00
Review Appraisal				25,000.00
Attorney				75,000.00
Title Work				10,000.00
FAA Closeout Report				10,000.00
Total Estimated Project Cost				\$ 452,000
Total Estimated Project Cost (with 10% contingency)				\$ 498,000

PRELIMINARY

Airport Wildlife Fence						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
SP-F-168	1	8' Wildlife Fence with High Tensile Wire Top	31,700	L.F.	\$ 10.00	\$ 317,000.00
SP-F-168	2	24' x 8' Slide Open Wildlife Fence Gate with High Tensile Wire Top	9	Each	5,000.00	45,000.00
SP-F-169	3	Remove & Dispose of Wildlife Fence	7,300	L.F.	4.00	29,200.00
SP-Gen	4	Install Road Closed Barriers	2	Each	2,500.00	5,000.00
SP-Gen	5	Mobilization	1	L.S.	50,000.00	50,000.00
Total Estimated Cost						\$ 446,200.00
Other Costs:						
Administration				\$	1,500	
Design & Bidding					45,000	
Construction Administration & Observation					54,000	
Construction Testing					7,500	
FAA Closeout Report					5,000	
Total Other Costs:				\$	113,000	
Total Estimated Project Cost						\$ 560,000
Total Estimated Project Cost (with 10% contingency)						\$ 616,000

Overlay 6400' x 100' Runway Pavements						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-401	1	11 inch Plant Mix Bituminous Pavement Overlay	1,850	Ton	50.00	92,500.00
P-401	2	Asphalt Cement - Type PG 58-28	120	Ton	750.00	90,000.00
P-501	3	12 inch Portland Cement Concrete Pavement Overlay	74,700	S.Y.	107.00	7,992,900.00
P-501	4	Joint Sealing	85,650	L.F.	3.50	299,775.00
P-420	5	Runway and Taxiway Painting	120,000	S.F.	1.50	180,000.00
P-421	6	Sawcut Grooving	61,000	S.Y.	2.00	122,000.00
SP-Gen	7	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	8	Inside Traffic Control	1	L.S.	100,000.00	100,000.00
SP-Gen	9	Mobilization	1	L.S.	1,045,000.00	1,045,000.00
Total Estimated Cost						\$ 9,749,675.00
Other Costs:						
Administration				\$	2,000	
Design & Bidding					292,000	
Construction Administration & Observation					390,000	
Construction Testing					150,000	
FAA Closeout Report					8,000	
Total Other Costs:				\$	842,000	
Total Estimated Project Cost						\$ 10,592,000
Total Estimated Project Cost (with 10% contingency)						\$ 11,652,000

PRELIMINARY

Construct 1300' x 150' Runway Extension and 6400' x 25' Runway Widening Pavements						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	283,600	C.Y.	\$ 2.00	\$ 567,200.00
P-152	2	Borrow Excavation	490,800	C.Y.	2.00	981,600.00
P-152	3	Water	8,100	M Gal.	30.00	243,000.00
SP-P-181	4	Soil Stabilization Material	61,900	S.Y.	5.00	309,500.00
P-209	5	12 inch Crushed Aggregate Base Course	19,700	C.Y.	85.00	1,674,500.00
SP-P-210	6	Geotextile Fabric	61,900	S.Y.	3.00	185,700.00
P-304	7	8 inch Cement Treated Base	61,900	S.Y.	30.00	1,857,000.00
P-501	8	11 inch Portland Cement Concrete Pavement	60,100	S.Y.	98.00	5,889,800.00
P-605	9	Joint Sealing	70,100	L.F.	3.50	245,350.00
P-421	10	Sawcut Grooving	50,000	S.Y.	2.00	100,000.00
D-701	11	36 inch RCP, Class III	3,500	L.F.	300.00	1,050,000.00
D-701	12	36 inch RCS, Class III	30	Ea.	1,500.00	45,000.00
D-705	13	4 inch Perforated PVC Edgdrain Pipe with Filter Sock	15,412	L.F.	15.00	231,180.00
D-705	14	4 inch PVC Outlet Line & Headwall	62	Ea.	850.00	52,700.00
T-901	15	Seeding	158	Acre	750.00	103,500.00
T-905	16	Topsoiling (On Site)	67,640	C.Y.	8.00	541,120.00
T-908	17	Mulching	667,920	S.Y.	1.00	667,920.00
SP-T-910	18	Erosion Control Fiber Mat	3,480	S.Y.	10.00	34,800.00
SP-T-912	19	Straw Berralls	18,900	L.F.	10.00	189,000.00
SP-Gen	20	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	21	Inside Traffic Control	1	L.S.	100,000.00	100,000.00
SP-Gen	22	Mobilization	1	L.S.	1,899,000.00	1,899,000.00
Total Estimated Cost						\$ 16,887,370.00
Other Costs:						
Administration				\$	2,000	
Design & Bidding					507,000	
Construction Administration & Observation					675,000	
Construction Testing					150,000	
FAA Closeout Report					8,000	
Total Other Costs:				\$	1,342,000	
Total Estimated Project Cost						\$ 18,230,000
Total Estimated Project Cost (with 10% contingency)						\$ 20,053,000

PRELIMINARY

Construct High Intensity Runway Lighting						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
L-107	1	L-807 Lighted Windcone	1	Each	\$ 9,000.00	\$ 9,000.00
L-107	2	L-806 Lighted Windcone	2	Each	6,500.00	13,000.00
L-108	3	#8 SNV L-824 Cable	19,800	L.F.	1.50	29,700.00
L-108	4	#6 Counterpoise	17,000	L.F.	1.00	17,000.00
L-108	5	Cable Ploving (Counterpoise Only)	15,000	L.F.	2.00	30,000.00
L-108	6	#2 AWC Cu Type THWN	3,600	L.F.	2.25	8,100.00
L-108	7	#6 Cu Ground	1,300	L.F.	1.25	1,625.00
L-110	8	2" PVC Conduit	17,000	L.F.	6.00	102,000.00
L-110	9	3x3x2" Duct Bank (Sand Encased)	500	L.F.	60.00	30,000.00
L-110	10	1x4x2" Duct Bank (Sand Encased)	200	L.F.	35.00	7,000.00
SP-L-999	11	H8 Runway Light (Base Mount)	72	Each	900.00	64,800.00
SP-L-999	12	H8 Threshold Light (Base Mount)	16	Each	900.00	14,400.00
SP-L-999	13	L-858 Lighted Sign	10	Each	4,000.00	40,000.00
SP-L-999	14	L-858 Lighted Sign (DRS)	6	Each	4,200.00	25,200.00
SP-L-999	15	L-880 PAPI Unit	2	Each	17,000.00	34,000.00
SP-L-999	16	L-849 RFL	2	Each	15,000.00	30,000.00
SP-L-999	17	Constant Current Regulator	1	Each	18,000.00	18,000.00
SP-L-999	18	L-867B Base Can with Solid Cover	10	Each	650.00	6,500.00
SP-L-999	19	Electrical Manhole	2	Each	10,000.00	20,000.00
SP-Gen	20	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	21	Inside Traffic Control	1	L.S.	100,000.00	100,000.00
SP-Gen	22	Mobilization	1	L.S.	74,000.00	74,000.00
Total Estimated Cost						\$ 691,125.00
Other Costs:						
Administration				\$	2,000	
Design & Bidding					69,000	
Construction Administration & Observation					83,000	
Construction Testing					35,000	
FAA Closeout Report					6,000	
Total Other Costs:				\$	195,000	
Total Estimated Project Cost						\$ 887,000
Total Estimated Project Cost (with 10% contingency)						\$ 976,000

PRELIMINARY

Summary		Total
Land Acquisition		\$ 498,000
Airport Wildlife Fence		446,200
Overlay 6400' x 100' Runway Pavements		11,652,000
Construct 1300' x 150' Runway Extension and 6400' x 25' Runway Widening Pavements		20,053,000
Construct High Intensity Runway Lighting		976,000
TOTAL		\$ 33,795,000

DICKINSON THEODORE ROOSEVELT REGIONAL AIRPORT
 DICKINSON, NORTH DAKOTA
 ANALYSIS OF PROBABLE COSTS (Asphalt for Narrow Body Aircraft - 100,000 to 200,000 lbs.)
 7,700 ft x 100 Ft Parallel Taxiway as Runway for Alternate H (Construction Option 2)

Construct 7700' x 100' Runway Pavements (Future Parallel Taxiway) - Stage 1 (6,400 feet)						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	375,000	C.Y.	\$ 3.00	\$ 1,125,000.00
P-152	2	Water	4,800	W.Gal.	30.00	144,000.00
P-154	3	16-inch Subbase	28,100	C.Y.	50.00	1,405,000.00
SP-P-181	4	Soil Stabilization Material	76,200	S.Y.	5.00	381,000.00
P-209	5	12-inch Crushed Aggregate Base Course	24,200	C.Y.	85.00	2,057,000.00
SP-P-230	6	Geotextile Fabric	76,200	S.Y.	3.00	228,600.00
P-401	7	4-inch Bituminous Base Course	15,800	Ton	40.00	632,000.00
P-401	8	Asphalt Cement - Type PG 58-28	1,030	Ton	750.00	772,500.00
P-401	9	9.5-inch Plant Mix Bituminous Pavement	37,500	Ton	50.00	1,875,000.00
P-401	10	Asphalt Cement - Type PG 58-28	2,440	Ton	750.00	1,830,000.00
SP-P-411	11	Remove and Dispose of Bituminous Pavement	8,000	S.Y.	7.50	60,000.00
P-403	12	Bituminous Tack Coat	21,300	Gal.	3.50	74,550.00
P-620	13	Runway and Taxiway Painting	100,000	S.F.	1.00	100,000.00
P-621	14	Sawcut Grooving	57,000	S.Y.	2.00	114,000.00
D-701	15	36-inch RCES, Class III	1,560	L.F.	300.00	468,000.00
D-701	16	36-inch RCES, Class III	26	Ea.	1,500.00	39,000.00
D-705	17	4-inch Perforated PVC Edgeline Pipe with Filter Sock	12,800	L.F.	15.00	192,000.00
D-705	18	4-inch PVC Outlet Line & Headwall	51	Ea.	850.00	43,350.00
T-901	19	Seeding	29	Acre	750.00	21,750.00
T-905	20	Topsoiling (On Site)	15,500	C.Y.	14.00	217,000.00
T-908	21	Matching	140,360	S.Y.	1.00	140,360.00
SP-T-910	22	Erosion Control Fiber Mat	1,810	S.Y.	10.00	18,100.00
SP-T-912	23	Straw Biorolls	8,500	L.F.	10.00	85,000.00
SP-Gen	24	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	25	Alside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	26	Mobilization	1	L.S.	1,453,000.00	1,453,000.00
Total Estimated Cost						\$ 13,561,210.00

Other Costs:

Administration	\$ 2,000
Design & Bidding	407,000
Construction Administration & Observation	542,000
Construction Testing	125,000
FAA Closeout Report	7,000
Total Other Costs:	\$ 1,083,000

Total Estimated Project Cost \$ 14,645,000
 Total Estimated Project Cost (with 10% contingency) \$ 16,110,000

Construct 7700' x 100' Runway Pavements (Future Parallel Taxiway) - Stage 2 (1,200 feet)						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	75,000	C.Y.	\$ 8.00	\$ 600,000.00
P-152	2	Water	1,000	W.Gal.	30.00	30,000.00
P-154	3	16-inch Subbase	5,700	C.Y.	50.00	285,000.00
SP-P-181	4	Soil Stabilization Material	15,500	S.Y.	5.00	77,500.00
P-209	5	12-inch Crushed Aggregate Base Course	4,900	C.Y.	85.00	416,500.00
SP-P-230	6	Geotextile Fabric	15,500	S.Y.	3.00	46,500.00
P-401	7	4-inch Bituminous Base Course	3,200	Ton	40.00	128,000.00
P-401	8	Asphalt Cement - Type PG 58-28	210	Ton	750.00	157,500.00
P-401	9	9.5-inch Plant Mix Bituminous Pavement	7,600	Ton	50.00	380,000.00
P-401	10	Asphalt Cement - Type PG 58-28	490	Ton	750.00	367,500.00
SP-P-411	11	Remove and Dispose of Bituminous Pavement	1,700	S.Y.	10.00	17,000.00
P-403	12	Bituminous Tack Coat	4,300	Gal.	3.50	15,050.00
P-620	13	Runway and Taxiway Painting	20,000	S.F.	1.50	30,000.00
P-621	14	Sawcut Grooving	13,000	S.Y.	2.00	26,000.00
D-701	15	36-inch RCES, Class III	60	L.F.	300.00	180,000.00
D-701	16	36-inch RCES, Class III	2	Ea.	1,500.00	3,000.00
D-705	17	4-inch Perforated PVC Edgeline Pipe with Filter Sock	2,600	L.F.	15.00	39,000.00
D-705	18	4-inch PVC Outlet Line & Headwall	10	Ea.	850.00	8,500.00
T-901	19	Seeding	20	Acre	750.00	15,000.00
T-905	20	Topsoiling (On Site)	15,000	C.Y.	14.00	210,000.00
T-908	21	Matching	96,800	S.Y.	1.00	96,800.00
SP-T-910	22	Erosion Control Fiber Mat	200	S.Y.	10.00	2,000.00
SP-T-912	23	Straw Biorolls	1,700	L.F.	10.00	17,000.00
SP-Gen	24	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	25	Alside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	26	Mobilization	1	L.S.	388,000.00	388,000.00
Total Estimated Cost						\$ 3,620,850.00

Other Costs:

Administration	\$ 2,000
Design & Bidding	145,000
Construction Administration & Observation	181,000
Construction Testing	100,000
FAA Closeout Report	7,000
Total Other Costs:	\$ 435,000

Total Estimated Project Cost \$ 4,056,000
 Total Estimated Project Cost (with 10% contingency) \$ 4,462,000

Construct High Intensity Runway Lighting						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
L-107	1	L-807 Lighted Windcone	1	Each	\$ 9,000.00	\$ 9,000.00
L-107	2	L-806 Lighted Windcone	2	Each	6,500.00	13,000.00
L-108	3	#8 L-824 Cable	19,000	L.F.	1.50	28,500.00
L-108	4	#6 Counterpoise	17,000	L.F.	1.00	17,000.00
L-108	5	Cable Ploving (Counterpoise Only)	15,000	L.F.	2.00	30,000.00
L-108	6	#2 AWG Cu Type THWN	3,600	L.F.	2.25	8,100.00
L-108	7	#6 Cu Ground	1,300	L.F.	1.25	1,625.00
L-110	8	2" PVC Conduit	17,000	L.F.	6.00	102,000.00
L-110	9	3x3x2" Duct Bank (Sand Encased)	500	L.F.	60.00	30,000.00
L-110	10	1x4x2" Duct Bank (Sand Encased)	200	L.F.	35.00	7,000.00
SP-L-999	11	H8 Runway Light (Base Mount)	72	Each	900.00	64,800.00
SP-L-999	12	H8 Threshold Light (Base Mount)	16	Each	900.00	14,400.00
SP-L-999	13	L-858 Lighted Sign	10	Each	4,800.00	48,000.00
SP-L-999	14	L-858 Lighted Sign (DIS)	6	Each	4,200.00	25,200.00
SP-L-999	15	L-807 HPI Unit	2	Each	17,000.00	34,000.00
SP-L-999	16	L-849 REIL	2	Each	15,000.00	30,000.00
SP-L-999	17	Constant Current Regulator	1	Each	18,000.00	18,000.00
SP-L-999	18	L-8678 Base Can with Solid Cover	10	Each	650.00	6,500.00
SP-L-999	19	Electrical Manhole	2	Each	10,000.00	20,000.00
SP-Gen	20	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	21	Alside Traffic Control	1	L.S.	65,000.00	65,000.00
SP-Gen	22	Mobilization	1	L.S.	70,000.00	70,000.00
Total Estimated Cost						\$ 652,125.00

Other Costs:

Administration	\$ 2,000
Design & Bidding	45,000
Construction Administration & Observation	78,000
Construction Testing	35,000
FAA Closeout Report	6,000
Total Other Costs:	\$ 186,000

Total Estimated Project Cost \$ 839,000
 Total Estimated Project Cost (with 10% contingency) \$ 923,000

Convert Runway to Taxiway						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-620	1	Obillerate Pavement Markings	110,000	S.F.	2.00	220,000.00
P-620	2	Runway and Taxiway Painting	75,000	S.F.	1.50	112,500.00
SP-L-999	3	Revise Lighting from HRL to MITL	1	L.S.	400,000.00	400,000.00
SP-Gen	4	Alside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	5	Mobilization	1	L.S.	97,000.00	97,000.00
Total Estimated Cost						\$ 904,500.00

Other Costs:

Administration	\$ 2,000
Design & Bidding	36,000
Construction Administration & Observation	45,000
Construction Testing	35,000
FAA Closeout Report	7,000
Total Other Costs:	\$ 90,000

Total Estimated Project Cost \$ 995,000
 Total Estimated Project Cost (with 10% contingency) \$ 1,095,000

Summary						
Construct 7700' x 100' Runway Pavements (Future Parallel Taxiway) - Stage 1 (6,400 feet)	16,110,000					
Construct 7700' x 100' Runway Pavements (Future Parallel Taxiway) - Stage 2 (1,200 feet)	4,462,000					
Construct High Intensity Runway Lighting	923,000					
Convert Runway to Taxiway	1,095,000					
TOTAL	\$ 22,590,000					

DICKINSON THEODORE ROOSEVELT REGIONAL AIRPORT
DICKINSON, NORTH DAKOTA
ANALYSIS OF PROBABLE COSTS (Asphalt for Narrow Body Aircraft - 100,000 to 200,000 lbs.)
7,700 ft x 150 ft Runway for Alternate H (Non-Phased Construction) (Construction Options 2, 3 and 5)

Land Acquisition					
Item	Qty.	Unit	Unit Price		Total
Fee Simple Acquisition	202	Acres	\$ 1,000.00	\$	202,000.00
Administration					5,000.00
Engineering (Assistance with Land Acquisition)					75,000.00
Engineering Assistance to Vacate Portions of Section Line Roads					25,000.00
Appraisal					25,000.00
Review Appraisal					25,000.00
Attorney					75,000.00
Title Work					10,000.00
FAA Closeout Report					10,000.00
Total Estimated Project Cost				\$	452,000
Total Estimated Project Cost (with 10% contingency)				\$	498,000

PRELIMINARY

Airport Wildlife Fence						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
SP-F-168	1	8' Wildlife Fence with High Tensile Wire Top	31,700	L.F.	\$ 10.00	\$ 317,000.00
SP-F-168	2	24' x 8' Slide Open Wildlife Fence Gate with High Tensile Wire Top	9	Each	5,000.00	45,000.00
SP-F-169	3	Remove & Dispose of Wildlife Fence	7,300	L.F.	4.00	29,200.00
SP-Gen	4	Install Road Closed Barriers	2	Each	2,500.00	5,000.00
SP-Gen	5	Mobilization	1	L.S.	50,000.00	50,000.00
Total Estimated Cost						\$ 446,200.00
Other Costs:						
Administration				\$	1,500	
Design & Bidding					45,000	
Construction Administration & Observation					54,000	
Construction Testing					7,500	
FAA Closeout Report					5,000	
Total Other Costs:				\$	113,000	
Total Estimated Project Cost						\$ 560,000
Total Estimated Project Cost (with 10% contingency)						\$ 616,000

Construct 7700' x 150' Runway Pavements						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	630,200	C.Y.	\$ 2.00	\$ 1,260,400.00
P-152	2	Borrow Excavation	1,090,600	C.Y.	2.00	2,181,200.00
P-152	3	Water	19,200	M Gal.	30.00	576,000.00
P-154	4	16-inch Subbase	57,800	C.Y.	50.00	2,890,000.00
SP-P-181	5	Soil Stabilization Material	136,600	S.Y.	5.00	683,000.00
P-209	6	12-inch Crushed Aggregate Base Course	43,400	C.Y.	85.00	3,689,000.00
SP-P-230	7	Geotextile Fabric	136,600	S.Y.	3.00	409,800.00
P-401	8	4-inch Bituminous Base Course	28,500	Ton	40.00	1,140,000.00
P-401	9	Asphalt Cement - Type PG 58-28	1,850	Ton	750.00	1,387,500.00
P-401	10	9.5-inch Plant Mix Bituminous Pavement	67,700	Ton	50.00	3,385,000.00
P-401	11	Asphalt Cement - Type PG 58-28	4,400	Ton	750.00	3,300,000.00
P-603	12	Bituminous Tack Coat	38,500	Gal.	3.50	134,750.00
P-620	13	Runway and Taxiway Painting	120,000	S.F.	1.50	180,000.00
P-621	14	Sawcut Grooving	111,000	S.Y.	2.00	222,000.00
D-701	15	36-inch RCP, Class III	8,500	L.F.	300.00	2,550,000.00
D-701	16	36-inch RCES, Class III	30	Ea.	1,500.00	45,000.00
D-705	17	4-inch Perforated PVC Edgedrain Pipe with Filter Sock	15,412	L.F.	15.00	231,180.00
D-705	18	4-inch PVC Outlet Line & Headwall	62	Ea.	850.00	52,700.00
T-901	19	Seeding	138	Acre	750.00	103,500.00
T-905	20	Topsoiling (On Site)	67,640	C.Y.	8.00	541,120.00
T-908	21	Mulching	667,920	S.Y.	1.00	667,920.00
SP-T-910	22	Erosion Control Fiber Mat	3,430	S.Y.	10.00	34,300.00
SP-T-912	23	Straw Biorolls	18,900	L.F.	10.00	189,000.00
SP-Gen	24	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	25	Alside Traffic Control	1	L.S.	100,000.00	100,000.00
SP-Gen	26	Mobilization	1	L.S.	3,116,000.00	3,116,000.00
Total Estimated Cost						\$ 29,079,370.00
Other Costs:						
Administration				\$	2,000	
Design & Bidding					872,000	
Construction Administration & Observation					1,163,000	
Construction Testing					150,000	
FAA Closeout Report					8,000	
Total Other Costs:				\$	2,195,000	
Total Estimated Project Cost						\$ 31,275,000
Total Estimated Project Cost (with 10% contingency)						\$ 34,403,000

PRELIMINARY

Construct High Intensity Runway Lighting						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
L-107	1	L-807 Lighted Windcone	1	Each	\$ 9,000.00	\$ 9,000.00
L-107	2	L-806 Lighted Windcone	2	Each	6,500.00	13,000.00
L-108	3	#8 SKV L-824 Cable	19,000	L.F.	1.50	28,500.00
L-108	4	#6 Counterpoise	17,000	L.F.	1.00	17,000.00
L-108	5	Cable Ploving (Counterpoise Only)	15,000	L.F.	2.00	30,000.00
L-108	6	#2 AWG Cu Type THWN	3,600	L.F.	2.25	8,100.00
L-108	7	#6 Cu Ground	1,300	L.F.	1.25	1,625.00
L-110	8	2" PVC Conduit	17,000	L.F.	6.00	102,000.00
L-110	9	3x3x2" Duct Bank (Sand Encased)	500	L.F.	60.00	30,000.00
L-110	10	1'x4'x2" Duct Bank (Sand Encased)	200	L.F.	35.00	7,000.00
SP-L-999	11	HI Runway Light (Base Mount)	72	Each	900.00	64,800.00
SP-L-999	12	HI Threshold Light (Base Mount)	16	Each	900.00	14,400.00
SP-L-999	13	L-858 Lighted Sign	10	Each	4,800.00	48,000.00
SP-L-999	14	L-858 Lighted Sign (DRS)	6	Each	4,200.00	25,200.00
SP-L-999	15	L-880 PAPI Unit	2	Each	17,000.00	34,000.00
SP-L-999	16	L-849 REL	2	Each	15,000.00	30,000.00
SP-L-999	17	Constant Current Regulator	1	Each	18,000.00	18,000.00
SP-L-999	18	L-867B Base Can with Solid Cover	10	Each	650.00	6,500.00
SP-L-999	19	Electrical Manhole	2	Each	10,000.00	20,000.00
SP-Gen	20	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	21	Alside Traffic Control	1	L.S.	100,000.00	100,000.00
SP-Gen	22	Mobilization	1	L.S.	74,000.00	74,000.00
Total Estimated Cost						\$ 691,125.00
Other Costs:						
Administration				\$	2,000	
Design & Bidding					69,000	
Construction Administration & Observation					83,000	
Construction Testing					35,000	
FAA Closeout Report					6,000	
Total Other Costs:				\$	195,000	
Total Estimated Project Cost						\$ 887,000
Total Estimated Project Cost (with 10% contingency)						\$ 976,000

PRELIMINARY

Summary		Total
Land Acquisition		\$ 498,000
Airport Wildlife Fence		616,000
Construct 7700' x 150' Runway Pavements		34,403,000
Construct High Intensity Runway Lighting		976,000
TOTAL		\$ 36,493,000

DICKINSON THEODORE ROOSEVELT REGIONAL AIRPORT
DICKINSON, NORTH DAKOTA
ANALYSIS OF PROBABLE COSTS (Asphalt for Narrow Body Aircraft - 100,000 to 200,000 lbs.)
7,700 ft x 50 ft Parallel Taxiway for Alternate H (Construction Options 3, 4 and 5)

Construct 7700' x 50' Parallel Taxiway Pavements - Stage 1 (6,400 feet)						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	340,500	C.Y.	\$ 3.00	\$ 1,021,500.00
P-152	2	Water	4,000	M Gal.	30.00	120,000.00
P-154	3	16-Inch Subbase	16,400	C.Y.	50.00	820,000.00
SP-P-181	4	Soil Stabilization Material	38,800	S.Y.	5.00	194,000.00
P-209	5	12-Inch Crushed Aggregate Base Course	13,300	C.Y.	85.00	1,130,500.00
SP-P-230	6	Geotextile Fabric	38,800	S.Y.	3.00	116,400.00
P-401	7	4-Inch Bituminous Base Course	7,900	Ton	40.00	316,000.00
P-401	8	Asphalt Cement - Type PG 58-28	510	Ton	750.00	382,500.00
P-401	9	9.5-Inch Plant Mix Bituminous Pavement	18,800	Ton	50.00	940,000.00
P-401	10	Asphalt Cement - Type PG 58-28	1,220	Ton	750.00	915,000.00
SP-P-411	11	Remove and Dispose of Bituminous Pavement	13,500	S.Y.	7.50	101,250.00
P-603	12	Bituminous Tack Coat	10,700	Gal.	3.50	37,450.00
P-620	13	Runway and Taxiway Painting	38,000	S.F.	1.00	38,000.00
D-701	14	36-Inch RCP, Class III	1,560	L.F.	300.00	468,000.00
D-701	15	36-Inch RCES, Class III	26	Ea.	1,500.00	39,000.00
D-705	16	4-Inch Perforated PVC Edgedrain Pipe with Filter Sock	12,800	L.F.	15.00	192,000.00
D-705	17	4-Inch PVC Outlet Line & Headwall	51	Ea.	850.00	43,350.00
T-901	18	Seeding	13	Acre	750.00	9,750.00
T-905	19	Topsailing (On Site)	21,000	C.Y.	14.00	294,000.00
T-908	20	Mulching	62,920	S.Y.	1.00	62,920.00
SP-T-910	21	Erosion Control Fiber Mat	1,810	S.Y.	10.00	18,100.00
SP-T-912	22	Straw Biorolls	8,500	L.F.	10.00	85,000.00
SP-Gen	23	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	24	Airside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	25	Mobilization	1	L.S.	892,000.00	892,000.00

Total Estimated Cost \$ 8,321,720.00

Other Costs:	
Administration	\$ 2,000
Design & Bidding	250,000
Construction Administration & Observation	333,000
Construction Testing	125,000
FAA Closeout Report	7,000

Total Other Costs: \$ 717,000

Total Estimated Project Cost \$ 9,039,000

Total Estimated Project Cost (with 10% contingency) \$ 9,943,000

Construct 7700' x 50' Parallel Taxiway Pavements - Stage 2 (1,300 feet)						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	70,000	C.Y.	\$ 8.00	\$ 560,000.00
P-152	2	Water	800	M Gal.	30.00	24,000.00
P-154	3	16-Inch Subbase	3,300	C.Y.	50.00	165,000.00
SP-P-181	4	Soil Stabilization Material	7,900	S.Y.	5.00	39,500.00
P-209	5	12-Inch Crushed Aggregate Base Course	2,500	C.Y.	85.00	212,500.00
SP-P-230	6	Geotextile Fabric	7,900	S.Y.	3.00	23,700.00
P-401	7	4-Inch Bituminous Base Course	1,600	Ton	40.00	64,000.00
P-401	8	Asphalt Cement - Type PG 58-28	100	Ton	750.00	75,000.00
P-401	9	9.5-Inch Plant Mix Bituminous Pavement	3,800	Ton	50.00	190,000.00
P-401	10	Asphalt Cement - Type PG 58-28	250	Ton	750.00	187,500.00
P-603	11	Bituminous Tack Coat	2,200	Gal.	3.50	7,700.00
P-620	12	Runway and Taxiway Painting	20,000	S.F.	1.50	30,000.00
D-701	13	36-Inch RCP, Class III	600	L.F.	300.00	180,000.00
D-701	14	36-Inch RCES, Class III	2	Ea.	1,500.00	3,000.00
D-705	15	4-Inch Perforated PVC Edgedrain Pipe with Filter Sock	2,600	L.F.	15.00	39,000.00
D-705	16	4-Inch PVC Outlet Line & Headwall	10	Ea.	850.00	8,500.00
T-901	17	Seeding	10	Acre	750.00	7,500.00
T-905	18	Topsailing (On Site)	10,000	C.Y.	15.00	150,000.00
T-908	19	Mulching	48,400	S.Y.	1.00	48,400.00
SP-T-910	20	Erosion Control Fiber Mat	200	S.Y.	10.00	2,000.00
SP-T-912	21	Straw Biorolls	1,700	L.F.	10.00	17,000.00
SP-Gen	22	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	23	Airside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	24	Mobilization	1	L.S.	254,000.00	254,000.00

Total Estimated Cost \$ 2,373,300.00

Other Costs:	
Administration	\$ 2,000
Design & Bidding	95,000
Construction Administration & Observation	119,000
Construction Testing	100,000
FAA Closeout Report	7,000

Total Other Costs: \$ 323,000

Total Estimated Project Cost \$ 2,697,000

Total Estimated Project Cost (with 10% contingency) \$ 2,967,000

Construct Medium Intensity Taxiway Lighting						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
L-107	1	L-807 Lighted Windcone	1	Each	\$ 9,000.00	\$ 9,000.00
L-107	2	L-806 Lighted Windcone	2	Each	6,500.00	13,000.00
L-108	3	#8 SKV L-824 Cable	19,000	L.F.	1.50	28,500.00
L-108	4	#6 Counterpoise	17,000	L.F.	1.00	17,000.00
L-108	5	Cable Ploving (Counterpoise Only)	15,000	L.F.	2.00	30,000.00
L-108	6	#2 AWG Cu Type THWN	3,600	L.F.	2.25	8,100.00
L-108	7	#6 Cu Ground	1,300	L.F.	1.25	1,625.00
L-110	8	2" PVC Conduit	17,000	L.F.	6.00	102,000.00
L-110	9	3x3x2" Duct Bank (Sand Encased)	500	L.F.	60.00	30,000.00
L-110	10	1x4x2" Duct Bank (Sand Encased)	200	L.F.	35.00	7,000.00
SP-L-999	11	HI Runway Light (Base Mount)	72	Each	900.00	64,800.00
SP-L-999	12	HI Threshold Light (Base Mount)	16	Each	900.00	14,400.00
SP-L-999	13	L-858 Lighted Sign	10	Each	4,800.00	48,000.00
SP-L-999	14	L-858 Lighted Sign (DRS)	6	Each	4,200.00	25,200.00
SP-L-999	15	L-880 PAPI Unit	2	Each	17,000.00	34,000.00
SP-L-999	16	L-849 REIL	2	Each	15,000.00	30,000.00
SP-L-999	17	Constant Current Regulator	1	Each	18,000.00	18,000.00
SP-L-999	18	L-867B Base Can with Solid Cover	10	Each	650.00	6,500.00
SP-L-999	19	Electrical Manhole	2	Each	10,000.00	20,000.00
SP-Gen	20	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	21	Airside Traffic Control	1	L.S.	65,000.00	65,000.00
SP-Gen	22	Mobilization	1	L.S.	70,000.00	70,000.00

Total Estimated Cost \$ 652,125.00

Other Costs:	
Administration	\$ 2,000
Design & Bidding	65,000
Construction Administration & Observation	78,000
Construction Testing	35,000
FAA Closeout Report	6,000

Total Other Costs: \$ 186,000

Total Estimated Project Cost \$ 839,000

Total Estimated Project Cost (with 10% contingency) \$ 923,000

Summary	
Construct 7700' x 50' Parallel Taxiway Pavements - Stage 1 (6,400 feet)	9,943,000
Construct 7700' x 50' Parallel Taxiway Pavements - Stage 2 (1,300 feet)	2,967,000
Construct Medium Intensity Taxiway Lighting	923,000
TOTAL	\$ 13,833,000

DICKINSON THEODORE ROOSEVELT REGIONAL AIRPORT
DICKINSON, NORTH DAKOTA
ANALYSIS OF FEASIBLE COSTS (Subject for Reserve Study Aircraft - 100,000 to 200,000 lbs.)
7,700 ft x 150 ft Runway for Alternatives B (Phase 2 Construction) (Continued - Option 4)

Land Acquisition					
Item	Qty	Unit	Unit Price	Total	
Fee Simple Acquisition	202	Acres	\$ 1,000.00	\$ 202,000.00	
Administration				\$ 5,000.00	
Engineering (Assistance with Land Acquisition)				\$ 75,000.00	
Engineering Assistance to Vacate Portions of Section Line Bids				\$ 25,000.00	
Appraisal				\$ 25,000.00	
Review Appraisal				\$ 25,000.00	
Attorney				\$ 15,000.00	
File/Blank				\$ 10,000.00	
FAA Cleared Report				\$ 10,000.00	
Total Estimated Project Cost				\$ 452,000.00	
Total Estimated Project Cost (with 10% contingency)				\$ 498,000.00	

Airport Middle Fence						
Spec.	Qty	Unit	Unit Price	Total		
SP-F-104	1	0 Wildlife Fence with High Tensile Wire Top	37,700	L.F.	\$ 10.00	\$ 377,000.00
SP-F-104	2	2' x 4' Strand Open Weave Fence Gate with High Tensile Wire Top	9	Each	\$ 4,000.00	\$ 36,000.00
SP-F-104	3	Remove & Replace of Wildlife Fence	7,300	L.F.	\$ 4.00	\$ 29,200.00
SP-Gen	4	Install Road Closed Barriers	2	Each	\$ 2,500.00	\$ 5,000.00
SP-Gen	5	Modification	1	L.S.	\$ 50,000.00	\$ 50,000.00
Total Estimated Cost				\$ 446,200.00		
Total Estimated Project Cost				\$ 540,000.00		
Total Estimated Project Cost (with 10% contingency)				\$ 610,000.00		

Contract 7700 x 150 Runway Pavements - Stage 1 (1,300 feet)						
Spec.	Qty	Unit	Unit Price	Total		
P-112	1	Unexcavated Excavation	10,100	C.Y.	\$ 2.00	\$ 20,200.00
P-112	2	Barrow Excavation	726	C.Y.	\$ 1.20	\$ 871.20
P-114	3	Soil Subbase	7,000	S.F.	\$ 20.00	\$ 140,000.00
P-114	4	Soil Stabilization Material	6	S.F.	\$ 20.00	\$ 120.00
SP-F-101	5	Soil Stabilization Material	23,100	S.F.	\$ 5.00	\$ 115,500.00
SP-F-220	7	Geotextile Fabric	23,100	S.F.	\$ 3.00	\$ 69,300.00
P-401	8	4 Inch Bituminous Base Course	4,400	Ton	\$ 40.00	\$ 176,000.00
P-401	9	Asphalt Concrete - Type FC 5B-28	310	Ton	\$ 70.00	\$ 21,700.00
P-401	10	4 Inch Perforated PVC Edgebeam Pipe with Filter Sock	110	Run	\$ 10.00	\$ 1,100.00
P-401	11	Asphalt Concrete - Type FC 5B-28	740	Ton	\$ 70.00	\$ 51,800.00
P-402	12	Bituminous Seal Coat	4,400	Gal	\$ 3.50	\$ 15,400.00
P-420	13	Runway and Taxiway Paving	23,000	S.F.	\$ 1.50	\$ 34,500.00
P-420	14	Obstructor Pavement Markings	29,000	S.F.	\$ 4.00	\$ 116,000.00
P-421	15	Sealed Graveling	14,400	S.F.	\$ 2.00	\$ 28,800.00
D-101	16	36 inch RCT, Class III	1,100	L.F.	\$ 200.00	\$ 220,000.00
D-101	17	4 Inch Perforated PVC Edgebeam Pipe with Filter Sock	4	Run	\$ 1,500.00	\$ 6,000.00
D-102	18	4 Inch PVC Outfall Line & Headwall	2	Run	\$ 10.00	\$ 20.00
D-105	19	4 Inch PVC Outfall Line & Headwall	8	Run	\$ 80.00	\$ 640.00
T-901	20	Seeding	29	Acres	\$ 21.700.00	\$ 629.30
T-901	21	Topsoil	15,400	C.Y.	\$ 14.00	\$ 215,600.00
T-902	22	Mulching	140,340	S.F.	\$ 1.00	\$ 140,340.00
SP-F-910	23	Excavated Control Fiber Mat	1,200	L.F.	\$ 10.00	\$ 12,000.00
SP-F-910	24	Draw Berms	6,000	L.F.	\$ 10.00	\$ 60,000.00
L-999	25	Temporary Threshold Lighting	1	L.S.	\$ 3,000.00	\$ 3,000.00
SP-Gen	26	Field Office / Laboratory	1	L.S.	\$ 10,000.00	\$ 10,000.00
SP-Gen	27	Airport Traffic Control	1	L.S.	\$ 100,000.00	\$ 100,000.00
SP-Gen	28	Modification	1	L.S.	\$ 714,000.00	\$ 714,000.00
Total Estimated Cost				\$ 6,665,220.00		
Total Estimated Project Cost				\$ 7,247,000.00		
Total Estimated Project Cost (with 10% contingency)				\$ 7,994,000.00		

Contract 7700 x 150 Runway Pavements - Stage 2 (1,200 feet)						
Spec.	Qty	Unit	Unit Price	Total		
P-112	1	Unexcavated Excavation	10,100	C.Y.	\$ 2.00	\$ 20,200.00
P-112	2	Barrow Excavation	411,800	C.Y.	\$ 3.00	\$ 1,235,400.00
P-114	3	Soil Subbase	5,700	S.F.	\$ 30.00	\$ 171,000.00
SP-F-101	5	Soil Stabilization Material	9,000	S.F.	\$ 5.00	\$ 45,000.00
SP-F-220	7	Geotextile Fabric	9,000	S.F.	\$ 3.00	\$ 27,000.00
P-401	8	4 Inch Bituminous Base Course	4,400	Ton	\$ 40.00	\$ 176,000.00
P-401	9	Asphalt Concrete - Type FC 5B-28	700	Ton	\$ 70.00	\$ 49,000.00
P-401	10	4 Inch Perforated PVC Edgebeam Pipe with Filter Sock	110	Run	\$ 10.00	\$ 1,100.00
P-401	11	Asphalt Concrete - Type FC 5B-28	490	Ton	\$ 70.00	\$ 34,300.00
SP-F-411	12	Remove and Replace of Bituminous Pavement	15	L.F.	\$ 10.00	\$ 150.00
P-401	13	Runway and Taxiway Paving	6,000	S.F.	\$ 3.50	\$ 21,000.00
P-420	14	Obstructor Pavement Markings	113,000	S.F.	\$ 1.50	\$ 169,500.00
P-420	15	Sealed Graveling	113,000	S.F.	\$ 4.00	\$ 452,000.00
D-101	16	36 inch RCT, Class III	1,000	L.F.	\$ 200.00	\$ 200,000.00
D-101	17	4 Inch Perforated PVC Edgebeam Pipe with Filter Sock	1,000	L.F.	\$ 6.000.00	\$ 6,000.00
D-105	19	4 Inch PVC Outfall Line & Headwall	1,000	L.F.	\$ 15.00	\$ 15,000.00
D-102	18	4 Inch PVC Outfall Line & Headwall	8	Run	\$ 80.00	\$ 640.00
T-901	20	Seeding	30	Acres	\$ 70.00	\$ 2,100.00
T-902	22	Mulching	26,400	S.F.	\$ 10.00	\$ 264,000.00
T-902	23	Excavated Control Fiber Mat	240,000	S.F.	\$ 1.00	\$ 240,000.00
SP-F-910	24	Draw Berms	1,100	L.F.	\$ 10.00	\$ 11,000.00
SP-F-912	25	Temporary Threshold Lighting	6,000	L.F.	\$ 10.00	\$ 60,000.00
L-999	26	Temporary Threshold Lighting	1	L.S.	\$ 3,000.00	\$ 3,000.00
SP-Gen	27	Field Office / Laboratory	1	L.S.	\$ 10,000.00	\$ 10,000.00
SP-Gen	28	Airport Traffic Control	1	L.S.	\$ 100,000.00	\$ 100,000.00
SP-Gen	29	Modification	1	L.S.	\$ 714,000.00	\$ 714,000.00
Total Estimated Cost				\$ 7,199,320.00		
Total Estimated Project Cost				\$ 7,837,000.00		
Total Estimated Project Cost (with 10% contingency)				\$ 8,621,000.00		

Contract 7700 x 150 Runway Pavements - Stage 3 (5,200 feet)						
Spec.	Qty	Unit	Unit Price	Total		
P-112	1	Unexcavated Excavation	10,100	C.Y.	\$ 2.00	\$ 20,200.00
P-112	2	Barrow Excavation	477,000	C.Y.	\$ 3.00	\$ 1,431,000.00
P-114	3	Soil Subbase	6,100	S.F.	\$ 30.00	\$ 183,000.00
SP-F-101	5	Soil Stabilization Material	9,000	S.F.	\$ 5.00	\$ 45,000.00
SP-F-220	7	Geotextile Fabric	9,000	S.F.	\$ 3.00	\$ 27,000.00
P-401	8	4 Inch Bituminous Base Course	29,000	Ton	\$ 40.00	\$ 1,160,000.00
P-401	9	Asphalt Concrete - Type FC 5B-28	1,800	Ton	\$ 70.00	\$ 126,000.00
P-401	10	4 Inch Perforated PVC Edgebeam Pipe with Filter Sock	470	Run	\$ 10.00	\$ 4,700.00
SP-F-411	12	Remove and Replace of Bituminous Pavement	4	L.F.	\$ 10.00	\$ 40.00
P-401	13	Runway and Taxiway Paving	113,000	S.F.	\$ 3.50	\$ 395,500.00
P-420	14	Obstructor Pavement Markings	113,000	S.F.	\$ 4.00	\$ 452,000.00
P-420	15	Sealed Graveling	113,000	S.F.	\$ 4.00	\$ 452,000.00
D-101	16	36 inch RCT, Class III	1,000	L.F.	\$ 200.00	\$ 200,000.00
D-101	17	4 Inch Perforated PVC Edgebeam Pipe with Filter Sock	1,000	L.F.	\$ 6.000.00	\$ 6,000.00
D-105	19	4 Inch PVC Outfall Line & Headwall	1,000	L.F.	\$ 15.00	\$ 15,000.00
D-102	18	4 Inch PVC Outfall Line & Headwall	8	Run	\$ 80.00	\$ 640.00
T-901	20	Seeding	30	Acres	\$ 70.00	\$ 2,100.00
T-902	22	Mulching	26,400	S.F.	\$ 10.00	\$ 264,000.00
T-902	23	Excavated Control Fiber Mat	240,000	S.F.	\$ 1.00	\$ 240,000.00
SP-F-910	24	Draw Berms	1,100	L.F.	\$ 10.00	\$ 11,000.00
SP-F-912	25	Temporary Threshold Lighting	6,000	L.F.	\$ 10.00	\$ 60,000.00
L-999	26	Temporary Threshold Lighting	1	L.S.	\$ 3,000.00	\$ 3,000.00
SP-Gen	27	Field Office / Laboratory	1	L.S.	\$ 10,000.00	\$ 10,000.00
SP-Gen	28	Airport Traffic Control	1	L.S.	\$ 100,000.00	\$ 100,000.00
SP-Gen	29	Modification	1	L.S.	\$ 2,417,000.00	\$ 2,417,000.00
Total Estimated Cost				\$ 7,199,320.00		
Total Estimated Project Cost				\$ 7,837,000.00		
Total Estimated Project Cost (with 10% contingency)				\$ 8,621,000.00		

Contract High Intensity Runway Lighting						
Spec.	Qty	Unit	Unit Price	Total		
L-107	1	L-801 Lighted Windcone	1	Each	\$ 9,000.00	\$ 9,000.00
L-107	2	L-801 Lighted Windcone	19	Each	\$ 6,000.00	\$ 114,000.00
L-108	3	48 SWL L-24 Cable	19,000	L.F.	\$ 1.50	\$ 28,500.00
L-108	4	48 SWL L-24 Cable	15,000	L.F.	\$ 1.50	\$ 22,500.00
L-108	5	Cable Paving (Counterpoise Only)	15,000	L.F.	\$ 2.00	\$ 30,000.00
L-108	6	4' x 4' Cable	2,200	L.F.	\$ 2.25	\$ 4,950.00
L-108	7	4' x 4' Cable	1,300	L.F.	\$ 1.25	\$ 1,625.00
L-110	8	7" PVC Conduit	117,000	L.F.	\$ 4.00	\$ 468,000.00
L-110	9	3x3" Duct Bank (Lead Encased)	300	L.F.	\$ 40.00	\$ 12,000.00
L-110	10	3x3" Duct Bank (Lead Encased)	400	L.F.	\$ 40.00	\$ 16,000.00
SP-L-999	11	18 Runway Light (Blue Round)	72	Each	\$ 600.00	\$ 43,200.00
SP-L-999	12	18 Threshold Light (Blue Round)	16	Each	\$ 900.00	\$ 14,400.00
SP-L-999	13	L-801 Lighted Sign	4	Each	\$ 4,800.00	\$ 19,200.00
SP-L-999	14	L-801 Lighted Sign (200')	4	Each	\$ 4,800.00	\$ 19,200.00
SP-L-999	15	L-801 Lighted Sign	2	Each	\$ 17,000.00	\$ 34,000.00
SP-L-999	16	L-801 Lighted Sign	2	Each	\$ 15,000.00	\$ 30,000.00
SP-L-999	17	Control Cabinet Regulator	1	Each	\$ 18,000.00	\$ 18,000.00
SP-L-999	18	L-801 Base Can with Lead Cover	10	Each	\$ 400.00	\$ 4,000.00
SP-Gen	19	Electrical Methods	2	Each	\$ 10,000.00	\$ 20,000.00
SP-Gen	20	Field Office / Laboratory	1	L.S.	\$ 10,000.00	\$ 10,000.00
SP-Gen	21	Airport Traffic Control	1	L.S.	\$ 100,000.00	\$ 100,000.00
SP-Gen	22	Modification	1	L.S.	\$ 74,000.00	\$ 74,000.00
Total Estimated Cost				\$ 691,125.00		
Total Estimated Project Cost				\$ 887,000.00		
Total Estimated Project Cost (with 10% contingency)				\$ 976,000.00		

Summary					
Item	Qty	Unit	Unit Price	Total	
Land Acquisition				\$ 452,000.00	
Airport Middle Fence				\$ 446,200.00	
Contract 7700 x 150 Runway Pavements - Stage 1 (1,300 feet)				\$ 6,665,220.00	
Contract 7700 x 150 Runway Pavements - Stage 2 (1,200 feet)				\$ 7,199,320.00	
Contract 7700 x 150 Runway Pavements - Stage 3 (5,200 feet)				\$ 7,199,320.00	
Contract High Intensity Runway Lighting				\$ 691,125.00	
TOTAL				\$ 45,400,000.00	

DICKINSON THEODORE ROOSEVELT REGIONAL AIRPORT
 DICKINSON, NORTH DAKOTA
 ANALYSIS OF PROBABLE COSTS (Asphalt for Narrow Body Aircraft - 100,000 to 200,000 lbs.)
 7,700 Ft x 150 Ft Runway for Alternate H (Non-Phased Overlay Construction) (Construction Options 2 and 5)

Land Acquisition				
Item	Qty.	Unit	Unit Price	Total
Fee Simple Acquisition	202	Acres	\$ 1,000.00	\$ 202,000.00
Administration				5,000.00
Engineering (Assistance with Land Acquisition)				75,000.00
Engineering Assistance to Vacate Portions of Section Line Roads				25,000.00
Appraisal				25,000.00
Review Appraisal				25,000.00
Attorney				75,000.00
Title Work				10,000.00
FAA Closeout Report				10,000.00
Total Estimated Project Cost				\$ 452,000
Total Estimated Project Cost (with 10% contingency)				\$ 498,000

PRELIMINARY

Airport Wildlife Fence						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
SP-F-168	1	8' Wildlife Fence with High Tensile Wire Top	31,700	L.F.	\$ 10.00	\$ 317,000.00
SP-F-168	2	24" x 8' Side Open Wildlife Fence Gate with High Tensile Wire Top	9	Each	5,000.00	45,000.00
SP-F-169	3	Remove & Dispose of Wildlife Fence	7,300	L.F.	4.00	29,200.00
SP-Gen	4	Install Road Closed Barriers	2	Each	2,500.00	5,000.00
SP-Gen	5	Mobilization	1	L.S.	50,000.00	50,000.00
Total Estimated Cost						\$ 446,200.00
Other Costs:						
Administration				\$	1,500	
Design & Bidding					45,000	
Construction Administration & Observation					54,000	
Construction Testing					7,500	
FAA Closeout Report					5,000	
Total Other Costs:				\$	113,000	
Total Estimated Project Cost						\$ 560,000
Total Estimated Project Cost (with 10% contingency)						\$ 616,000

Overlay 6400' x 100' Runway Pavements						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-401	1	1 1/2 Inch Plant Mix Bituminous Pavement Overlay	66,400	Ton	50.00	3,320,000.00
P-401	2	Asphalt Cement - Type PG 58-28	4,320	Ton	750.00	3,240,000.00
P-603	3	Bituminous Tack Coat	28,800	Gal.	3.50	100,800.00
P-620	4	Runway and Taxiway Painting	120,000	S.F.	1.50	180,000.00
P-621	5	Sawcut Grooving	61,000	S.Y.	2.00	122,000.00
SP-Gen	6	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	7	Alnside Traffic Control	1	L.S.	100,000.00	100,000.00
SP-Gen	8	Mobilization	1	L.S.	849,000.00	849,000.00
Total Estimated Cost						\$ 7,921,800.00
Other Costs:						
Administration				\$	2,000	
Design & Bidding					238,000	
Construction Administration & Observation					317,000	
Construction Testing					150,000	
FAA Closeout Report					8,000	
Total Other Costs:				\$	715,000	
Total Estimated Project Cost						\$ 8,637,000
Total Estimated Project Cost (with 10% contingency)						\$ 9,501,000

PRELIMINARY

Construct 1300' x 150' Runway Extension and 6400' x 25' Runway Widening Pavements						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	283,600	C.Y.	\$ 2.00	\$ 567,200.00
P-152	2	Borrow Excavation	490,800	C.Y.	2.00	981,600.00
P-152	3	Water	8,700	Gal.	30.00	261,000.00
P-154	4	1 1/2 Inch Subbase	26,200	C.Y.	50.00	1,310,000.00
SP-P-181	5	Soil Stabilization Material	61,900	S.Y.	5.00	309,500.00
P-209	6	12-Inch Crushed Aggregate Base Course	19,700	C.Y.	85.00	1,674,500.00
SP-P-210	7	Geotextile Fabric	61,900	S.Y.	3.00	185,700.00
P-401	8	4-inch Bituminous Base Course	12,700	Ton	40.00	508,000.00
P-401	9	Asphalt Cement - Type PG 58-28	830	Ton	750.00	622,500.00
P-401	10	1 1/2-Inch Plant Mix Bituminous Pavement	30,200	Ton	50.00	1,510,000.00
P-401	11	Asphalt Cement - Type PG 58-28	1,960	Ton	750.00	1,470,000.00
P-603	12	Bituminous Tack Coat	14,300	Gal.	3.50	50,050.00
P-621	13	Sawcut Grooving	50,000	S.Y.	2.00	100,000.00
D-701	14	36-inch RCP, Class III	3,500	L.F.	300.00	1,050,000.00
D-701	15	36-inch RCEs, Class III	30	Ea.	1,500.00	45,000.00
D-705	16	4-inch Perforated PVC Edge/Drain Pipe with Filter Sock	15,412	L.F.	15.00	231,180.00
D-705	17	4-inch PVC Outlet Line & Headwall	62	Ea.	850.00	52,700.00
T-901	18	Seeding	138	Acre	750.00	103,500.00
T-905	19	Tasselling (On Site)	67,660	C.Y.	8.00	541,280.00
T-908	20	Mulching	667,920	S.Y.	1.00	667,920.00
SP-T-910	21	Erosion Control Fiber Mat	3,430	S.Y.	10.00	34,300.00
SP-T-912	22	Straw Bioretts	18,900	L.F.	10.00	189,000.00
SP-Gen	23	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	24	Alnside Traffic Control	1	L.S.	100,000.00	100,000.00
SP-Gen	25	Mobilization	1	L.S.	1,509,000.00	1,509,000.00
Total Estimated Cost						\$ 7,663,770.00
Other Costs:						
Administration				\$	2,000	
Design & Bidding					230,000	
Construction Administration & Observation					307,000	
Construction Testing					150,000	
FAA Closeout Report					8,000	
Total Other Costs:				\$	697,000	
Total Estimated Project Cost						\$ 8,361,000
Total Estimated Project Cost (with 10% contingency)						\$ 9,198,000

PRELIMINARY

Construct High Intensity Runway Lighting						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
L-107	1	L-807 Lighted Windcone	1	Each	9,000.00	9,000.00
L-107	2	L-806 Lighted Windcone	2	Each	6,500.00	13,000.00
L-108	3	#8 5KV L-824 Cable	19,000	L.F.	1.50	28,500.00
L-108	4	#6 Counterpoise	17,000	L.F.	1.00	17,000.00
L-108	5	Cable Flowing (Counterpoise Only)	15,000	L.F.	2.00	30,000.00
L-108	6	#2 AWG Cu Type THWN	3,600	L.F.	2.25	8,100.00
L-108	7	#6 Cu Ground	1,300	L.F.	1.25	1,625.00
L-110	8	2" PVC Conduit	17,000	L.F.	6.00	102,000.00
L-110	9	3x3x2" Duct Bank (Sand Encased)	500	L.F.	60.00	30,000.00
L-110	10	1x1x2" Duct Bank (Sand Encased)	200	L.F.	35.00	7,000.00
SP-L-999	11	H8 Runway Light (Base Mount)	12	Each	44,800.00	537,600.00
SP-L-999	12	H8 Threshold Light (Base Mount)	16	Each	900.00	14,400.00
SP-L-999	13	L-858 Lighted Sign	10	Each	4,800.00	48,000.00
SP-L-999	14	L-858 Lighted Sign (DRS)	6	Each	4,200.00	25,200.00
SP-L-999	15	L-880 PAPI Unit	2	Each	17,000.00	34,000.00
SP-L-999	16	L-849 REEL	2	Each	15,000.00	30,000.00
SP-L-999	17	Constant Current Regulator	1	Each	18,000.00	18,000.00
SP-L-999	18	L-867 Base Can with Solid Cover	10	Each	650.00	6,500.00
SP-L-999	19	Electrical Manhole	2	Each	10,000.00	20,000.00
SP-Gen	20	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	21	Alnside Traffic Control	1	L.S.	100,000.00	100,000.00
SP-Gen	22	Mobilization	1	L.S.	74,000.00	74,000.00
Total Estimated Cost						\$ 691,125.00
Other Costs:						
Administration				\$	2,000	
Design & Bidding					69,000	
Construction Administration & Observation					83,000	
Construction Testing					35,000	
FAA Closeout Report					6,000	
Total Other Costs:				\$	195,000	
Total Estimated Project Cost						\$ 887,000
Total Estimated Project Cost (with 10% contingency)						\$ 976,000

PRELIMINARY

Summary		Total
Land Acquisition		\$ 498,000
Airport Wildlife Fence		616,000
Overlay 6400' x 100' Runway Pavements		9,501,000
Construct 1300' x 150' Runway Extension and 6400' x 25' Runway Widening Pavements		9,198,000
Construct High Intensity Runway Lighting		976,000
TOTAL		\$ 20,789,000

DICKINSON THEODORE ROOSEVELT REGIONAL AIRPORT
DICKINSON, NORTH DAKOTA
ANALYSIS OF PROBABLE COSTS (PCC For Narrow Body Aircraft - 100,000 to 200,000 lbs.)
7,700 ft x 100 ft Parallel Taxiway as Runway for Alternate H (Construction Option 2)

Construct 7700' x 100' Runway Pavements (Future Parallel Taxiway) - Stage 1 (6,400 feet)						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	375,000	C.Y.	\$ 3.00	\$ 1,125,000.00
P-152	2	Water	4,200	M Gal.	30.00	126,000.00
SP-P-181	3	Soil Stabilization Material	76,200	S.Y.	5.00	381,000.00
P-209	4	12-inch Crushed Aggregate Base Course	24,200	C.Y.	85.00	2,057,000.00
SP-P-230	5	Geotextile Fabric	76,200	S.Y.	3.00	228,600.00
P-304	6	8-inch Cement Treated Base	76,200	S.Y.	30.00	2,286,000.00
SP-P-411	7	Remove and Dispose of Bituminous Pavement	8,000	S.Y.	7.50	60,000.00
P-501	8	15-inch Portland Cement Concrete Pavement	74,700	S.Y.	112.00	8,366,400.00
P-605	9	Joint Sealing	68,200	L.F.	3.50	238,700.00
P-620	10	Runway and Taxiway Painting	100,000	S.F.	1.00	100,000.00
P-621	11	Sawcut Grooving	57,000	S.Y.	2.00	114,000.00
D-701	12	36-inch RCP, Class III	1,560	L.F.	300.00	468,000.00
D-701	13	36-inch RCES, Class III	26	Ea.	1,500.00	39,000.00
D-705	14	4-inch Perforated PVC Edgedrain Pipe with Filter Sock	12,800	L.F.	15.00	192,000.00
D-705	15	4-inch PVC Outlet Line & Headwall	51	Ea.	850.00	43,350.00
T-901	16	Seeding	29	Acre	750.00	21,750.00
T-905	17	Topsoiling (On Site)	15,500	C.Y.	14.00	217,000.00
T-908	18	Mulching	140,360	S.Y.	1.00	140,360.00
SP-T-910	19	Erosion Control Fiber Mat	1,810	S.Y.	10.00	18,100.00
SP-T-912	20	Straw Bioretalls	8,500	L.F.	10.00	85,000.00
SP-Gen	21	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	22	Alside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	23	Mobilization	1	L.S.	1,967,000.00	1,967,000.00

Total Estimated Cost \$ 18,359,260.00

Other Costs:

Administration	\$ 2,000
Design & Bidding	551,000
Construction Administration & Observation	734,000
Construction Testing	125,000
FAA Closeout Report	7,000

Total Other Costs: \$ 1,419,000

Total Estimated Project Cost \$ 19,779,000

Total Estimated Project Cost (with 10% contingency) \$ 21,757,000

Construct 7700' x 100' Runway Pavements (Future Parallel Taxiway) - Stage 2 (1,300 feet)						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	75,000	C.Y.	\$ 8.00	\$ 600,000.00
P-152	2	Water	800	M Gal.	30.00	24,000.00
SP-P-181	3	Soil Stabilization Material	15,500	S.Y.	5.00	77,500.00
P-209	4	12-inch Crushed Aggregate Base Course	4,900	C.Y.	85.00	416,500.00
SP-P-230	5	Geotextile Fabric	15,500	S.Y.	3.00	46,500.00
P-304	6	8-inch Cement Treated Base	15,500	S.Y.	30.00	465,000.00
SP-P-411	7	Remove and Dispose of Bituminous Pavement	1,700	S.Y.	10.00	17,000.00
P-501	8	15-inch Portland Cement Concrete Pavement	15,200	S.Y.	112.00	1,702,400.00
P-605	9	Joint Sealing	13,800	L.F.	3.50	48,300.00
P-620	10	Runway and Taxiway Painting	20,000	S.F.	1.50	30,000.00
P-621	11	Sawcut Grooving	13,000	S.Y.	2.00	26,000.00
D-701	12	36-inch RCP, Class III	600	L.F.	300.00	180,000.00
D-701	13	36-inch RCES, Class III	2	Ea.	1,500.00	3,000.00
D-705	14	4-inch Perforated PVC Edgedrain Pipe with Filter Sock	2,600	L.F.	15.00	39,000.00
D-705	15	4-inch PVC Outlet Line & Headwall	10	Ea.	850.00	8,500.00
T-901	16	Seeding	20	Acre	750.00	15,000.00
T-905	17	Topsoiling (On Site)	15,000	C.Y.	14.00	210,000.00
T-908	18	Mulching	96,800	S.Y.	1.00	96,800.00
SP-T-910	19	Erosion Control Fiber Mat	200	S.Y.	10.00	2,000.00
SP-T-912	20	Straw Bioretalls	1,700	L.F.	10.00	17,000.00
SP-Gen	21	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	22	Alside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	23	Mobilization	1	L.S.	493,000.00	493,000.00

Total Estimated Cost \$ 4,602,500.00

Other Costs:

Administration	\$ 2,000
Design & Bidding	184,000
Construction Administration & Observation	230,000
Construction Testing	100,000
FAA Closeout Report	7,000

Total Other Costs: \$ 523,000

Total Estimated Project Cost \$ 5,126,000

Total Estimated Project Cost (with 10% contingency) \$ 5,639,000

Construct High Intensity Runway Lighting						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
L-107	1	L-807 Lighted Windcone	1	Each	\$ 9,000.00	\$ 9,000.00
L-107	2	L-806 Lighted Windcone	2	Each	6,500.00	13,000.00
L-108	3	#8 5KV L-824 Cable	19,000	L.F.	1.50	28,500.00
L-108	4	#6 Counterpoise	17,000	L.F.	1.00	17,000.00
L-108	5	Cable Ploving (Counterpoise Only)	15,000	L.F.	2.00	30,000.00
L-108	6	#2 AWG Cu Type THWN	3,600	L.F.	2.25	8,100.00
L-108	7	#6 Cu Ground	1,300	L.F.	1.25	1,625.00
L-110	8	2" PVC Conduit	17,000	L.F.	6.00	102,000.00
L-110	9	3x3x2" Duct Bank (Sand Encased)	500	L.F.	60.00	30,000.00
L-110	10	1x4x2" Duct Bank (Sand Encased)	200	L.F.	35.00	7,000.00
SP-L-999	11	Hi Runway Light (Base Mount)	72	Each	900.00	64,800.00
SP-L-999	12	Hi Threshold Light (Base Mount)	16	Each	14,400.00	14,400.00
SP-L-999	13	L-858 Lighted Sign	10	Each	4,800.00	48,000.00
SP-L-999	14	L-858 Lighted Sign (DRS)	6	Each	4,200.00	25,200.00
SP-L-999	15	L-860 Hi/Hi Unit	2	Each	17,000.00	34,000.00
SP-L-999	16	L-849 REL	2	Each	15,000.00	30,000.00
SP-L-999	17	Constant Current Regulator	1	Each	18,000.00	18,000.00
SP-L-999	18	L-867B Base Can with Solid Cover	10	Each	650.00	6,500.00
SP-L-999	19	Electrical Manhole	2	Each	10,000.00	20,000.00
SP-Gen	20	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	21	Alside Traffic Control	1	L.S.	65,000.00	65,000.00
SP-Gen	22	Mobilization	1	L.S.	70,000.00	70,000.00

Total Estimated Cost \$ 652,125.00

Other Costs:

Administration	\$ 2,000
Design & Bidding	65,000
Construction Administration & Observation	78,000
Construction Testing	35,000
FAA Closeout Report	6,000

Total Other Costs: \$ 186,000

Total Estimated Project Cost \$ 839,000

Total Estimated Project Cost (with 10% contingency) \$ 923,000

Convert Runway to Taxiway						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-620	1	Obsolete Pavement Markings	110,000	S.F.	2.00	220,000.00
P-620	2	Runway and Taxiway Painting	75,000	S.F.	1.50	112,500.00
SP-L-999	3	Revise Lighting from HIRL to MITL	1	L.S.	400,000.00	400,000.00
SP-Gen	4	Alside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	5	Mobilization	1	L.S.	97,000.00	97,000.00

Total Estimated Cost \$ 904,500.00

Other Costs:

Administration	\$ 2,000
Design & Bidding	36,000
Construction Administration & Observation	45,000
FAA Closeout Report	7,000

Total Other Costs: \$ 90,000

Total Estimated Project Cost \$ 995,000

Total Estimated Project Cost (with 10% contingency) \$ 1,095,000

Summary						
Construct 7700' x 100' Runway Pavements (Future Parallel Taxiway) - Stage 1 (6,400 feet)						21,757,000
Construct 7700' x 100' Runway Pavements (Future Parallel Taxiway) - Stage 2 (1,300 feet)						5,639,000
Construct High Intensity Runway Lighting						923,000
Convert Runway to Taxiway						1,095,000
TOTAL						\$ 29,414,000

DICKINSON THEODORE ROOSEVELT REGIONAL AIRPORT
DICKINSON, NORTH DAKOTA
ANALYSIS OF PROBABLE COSTS (PCC for Narrow Body Aircraft - 100,000 to 200,000 lbs.)
7,700 ft x 150 ft Runway for Alternate H (Non-Phased Construction) (Construction Options 2, 3 and 5)

Land Acquisition					
Item	Qty.	Unit	Unit Price		Total
Fee Simple Acquisition	202	Acres	\$ 1,000.00	\$	202,000.00
Administration					5,000.00
Engineering (Assistance with Land Acquisition)					75,000.00
Engineering Assistance to Vacate Portions of Section Line Roads					25,000.00
Appraisal					25,000.00
Review Appraisal					25,000.00
Attorney					75,000.00
Title Work					10,000.00
FAA Closeout Report					10,000.00
Total Estimated Project Cost				\$	452,000
Total Estimated Project Cost (with 10% contingency)				\$	498,000

PRELIMINARY

Airport Wildlife Fence						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
SP-F-168	1	8' Wildlife Fence with High Tensile Wire Top	31,700	L.F.	\$ 10.00	\$ 317,000.00
SP-F-168	2	24' x 8' Slide Open Wildlife Fence Gate with High Tensile Wire Top	9	Each	5,000.00	45,000.00
SP-F-169	3	Remove & Dispose of Wildlife Fence	7,300	L.F.	4.00	29,200.00
SP-Gen	4	Install Road Closed Barriers	2	Each	2,500.00	5,000.00
SP-Gen	5	Mobilization	1	L.S.	50,000.00	50,000.00
Total Estimated Cost						\$ 446,200.00
Other Costs:						
Administration				\$	1,500	
Design & Bidding					45,000	
Construction Administration & Observation					54,000	
Construction Testing					7,500	
FAA Closeout Report					5,000	
Total Other Costs:				\$	113,000	
Total Estimated Project Cost				\$	560,000	
Total Estimated Project Cost (with 10% contingency)				\$	616,000	

Construct 7700' x 150' Runway Pavements						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	630,200	C.Y.	\$ 2.00	\$ 1,260,400.00
P-152	2	Borrow Excavation	1,090,600	C.Y.	2.00	2,181,200.00
P-152	3	Water	18,100	M Gal.	30.00	543,000.00
SP-P-181	4	Soil Stabilization Material	136,600	S.Y.	5.00	683,000.00
P-209	5	12-inch Crushed Aggregate Base Course	43,400	C.Y.	85.00	3,689,000.00
SP-P-230	6	Geotextile Fabric	136,600	S.Y.	3.00	409,800.00
P-304	7	8-inch Cement Treated Base	136,600	S.Y.	30.00	4,098,000.00
P-501	8	15-inch Portland Cement Concrete Pavement	134,800	S.Y.	134.00	18,063,200.00
P-605	9	Joint Sealing	155,750	L.F.	3.50	545,125.00
P-620	10	Runway and Taxiway Painting	120,000	S.F.	1.50	180,000.00
P-621	11	Sawcut Grooving	111,000	S.Y.	2.00	222,000.00
D-701	12	36-inch RCP, Class III	8,500	L.F.	300.00	2,550,000.00
D-701	13	36-inch RCES, Class III	30	Ea.	1,500.00	45,000.00
D-705	14	4-inch Perforated PVC Edgedrain Pipe with Filter Sock	15,412	L.F.	15.00	231,180.00
D-705	15	4-inch PVC Outlet Line & Headwall	52	Ea.	850.00	52,700.00
T-901	16	Seeding	138	Acro	750.00	103,500.00
T-905	17	Topsolling (On Site)	67,640	C.Y.	8.00	541,120.00
T-908	18	Mulching	667,920	S.Y.	1.00	667,920.00
SP-T-910	19	Erosion Control Fiber Mat	3,430	S.Y.	10.00	34,300.00
SP-T-912	20	Straw Bioretts	18,900	L.F.	10.00	189,000.00
SP-Gen	21	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	22	Airside Traffic Control	1	L.S.	100,000.00	100,000.00
SP-Gen	23	Mobilization	1	L.S.	4,368,000.00	4,368,000.00
Total Estimated Cost						\$ 40,767,445.00
Other Costs:						
Administration				\$	2,000	
Design & Bidding					1,223,000	
Construction Administration & Observation					1,631,000	
Construction Testing					150,000	
FAA Closeout Report					8,000	
Total Other Costs:				\$	3,014,000	
Total Estimated Project Cost				\$	43,782,000	
Total Estimated Project Cost (with 10% contingency)				\$	48,161,000	

PRELIMINARY

Construct High Intensity Runway Lighting						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
L-107	1	L-807 Lighted Windcone	1	Each	\$ 9,000.00	\$ 9,000.00
L-107	2	L-806 Lighted Windcone	2	Each	6,500.00	13,000.00
L-108	3	#8 5KV L-824 Cable	19,000	L.F.	1.50	28,500.00
L-108	4	#6 Counterpoise	17,000	L.F.	1.00	17,000.00
L-108	5	Cable Plowing (Counterpoise Only)	15,000	L.F.	2.00	30,000.00
L-108	6	#2 AWG Cu Type THWN	3,600	L.F.	2.25	8,100.00
L-108	7	#6 Cu Ground	1,300	L.F.	1.25	1,625.00
L-110	8	2" PVC Conduit	17,000	L.F.	6.00	102,000.00
L-110	9	3x3x2" Duct Bank (Sand Encased)	500	L.F.	60.00	30,000.00
L-110	10	1x4x2" Duct Bank (Sand Encased)	200	L.F.	35.00	7,000.00
SP-L-999	11	HI Runway Light (Base Mount)	72	Each	900.00	64,800.00
SP-L-999	12	HI Threshold Light (Base Mount)	16	Each	900.00	14,400.00
SP-L-999	13	L-858 Lighted Sign	10	Each	4,800.00	48,000.00
SP-L-999	14	L-858 Lighted Sign (DRS)	6	Each	4,200.00	25,200.00
SP-L-999	15	L-880 PAPI Unit	2	Each	17,000.00	34,000.00
SP-L-999	16	L-849 REIL	2	Each	15,000.00	30,000.00
SP-L-999	17	Constant Current Regulator	1	Each	18,000.00	18,000.00
SP-L-999	18	L-867B Base Can with Solid Cover	10	Each	650.00	6,500.00
SP-L-999	19	Electrical Manhole	2	Each	10,000.00	20,000.00
SP-Gen	20	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	21	Airside Traffic Control	1	L.S.	100,000.00	100,000.00
SP-Gen	22	Mobilization	1	L.S.	74,000.00	74,000.00
Total Estimated Cost						\$ 691,125.00
Other Costs:						
Administration				\$	2,000	
Design & Bidding					69,000	
Construction Administration & Observation					83,000	
Construction Testing					35,000	
FAA Closeout Report					6,000	
Total Other Costs:				\$	195,000	
Total Estimated Project Cost				\$	887,000	
Total Estimated Project Cost (with 10% contingency)				\$	976,000	

PRELIMINARY

Summary		
Land Acquisition		\$ 498,000
Airport Wildlife Fence		616,000
Construct 7700' x 150' Runway Pavements		48,161,000
Construct High Intensity Runway Lighting		976,000
TOTAL		\$ 50,251,000

DICKINSON THEODORE ROOSEVELT REGIONAL AIRPORT
DICKINSON, NORTH DAKOTA
ANALYSIS OF PROBABLE COSTS (PCC for Narrow Body Aircraft - 100,000 to 200,000 lbs.)
7,700 Ft x 50 Ft Parallel Taxiway for Alternate H (Construction Options 3, 4 and 5)

Construct 7700' x 50' Parallel Taxiway Pavements - Stage 1 (6,400 feet)						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	340,500	C.Y.	\$ 3.00	\$ 1,021,500.00
P-152	2	Water	3,700	M Gal.	30.00	111,000.00
SP-P-181	3	Soil Stabilization Material	38,800	S.Y.	5.00	194,000.00
P-209	4	12-Inch Crushed Aggregate Base Course	13,300	C.Y.	85.00	1,130,500.00
SP-P-230	5	Geotextile Fabric	38,800	S.Y.	3.00	116,400.00
P-304	6	8-Inch Cement Treated Base	38,800	S.Y.	30.00	1,164,000.00
SP-P-411	7	Remove and Dispose of Bituminous Pavement	13,500	S.Y.	7.50	101,250.00
P-501	8	15-Inch Portland Cement Concrete Pavement	37,300	S.Y.	134.00	4,998,200.00
P-605	9	Joint Sealing	47,000	L.F.	3.50	164,500.00
P-620	10	Runway and Taxiway Painting	38,000	S.F.	1.00	38,000.00
D-701	11	36-Inch RCP, Class III	1,550	L.F.	300.00	465,000.00
D-701	12	36-Inch RCES, Class III	26	Ea.	1,500.00	39,000.00
D-705	13	4-Inch Perforated PVC Edgedrain Pipe with Filter Sock	12,800	L.F.	15.00	192,000.00
D-705	14	4-Inch PVC Outlet Line & Headwall	51	Ea.	850.00	43,350.00
T-901	15	Seeding	13	Acres	750.00	9,750.00
T-905	16	Topsolting (On Site)	21,000	C.Y.	14.00	294,000.00
T-908	17	Mulching	62,920	S.Y.	1.00	62,920.00
SP-T-910	18	Erosion Control Fiber Mat	1,810	S.Y.	10.00	18,100.00
SP-T-912	19	Straw Biorolls	8,500	L.F.	10.00	85,000.00
SP-Gen	20	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	21	Airside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	22	Mobilization	1	L.S.	1,240,000.00	1,240,000.00

Total Estimated Cost \$ 11,576,470.00

Other Costs:

Administration	\$ 2,000
Design & Bidding	347,000
Construction Administration & Observation	463,000
Construction Testing	125,000
FAA Closeout Report	7,000

Total Other Costs: \$ 944,000

Total Estimated Project Cost \$ 12,521,000

Total Estimated Project Cost (with 10% contingency) \$ 13,774,000

Construct 7700' x 50' Parallel Taxiway Pavements - Stage 2 (1,300 feet)						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	70,000	C.Y.	\$ 8.00	\$ 560,000.00
P-152	2	Water	800	M Gal.	30.00	24,000.00
SP-P-181	3	Soil Stabilization Material	7,900	S.Y.	5.00	39,500.00
P-209	4	12-Inch Crushed Aggregate Base Course	2,500	C.Y.	85.00	212,500.00
SP-P-230	5	Geotextile Fabric	7,900	S.Y.	3.00	23,700.00
P-304	6	8-Inch Cement Treated Base	7,900	S.Y.	30.00	237,000.00
P-501	7	15-Inch Portland Cement Concrete Pavement	7,600	S.Y.	134.00	1,018,400.00
P-605	8	Joint Sealing	6,600	L.F.	3.50	23,100.00
P-620	9	Runway and Taxiway Painting	20,000	S.F.	1.50	30,000.00
D-701	10	36-Inch RCP, Class III	600	L.F.	300.00	180,000.00
D-701	11	36-Inch RCES, Class III	2	Ea.	1,500.00	3,000.00
D-705	12	4-Inch Perforated PVC Edgedrain Pipe with Filter Sock	2,600	L.F.	15.00	39,000.00
D-705	13	4-Inch PVC Outlet Line & Headwall	10	Ea.	850.00	8,500.00
T-901	14	Seeding	10	Acres	750.00	7,500.00
T-905	15	Topsolting (On Site)	10,000	C.Y.	15.00	150,000.00
T-908	16	Mulching	48,400	S.Y.	1.00	48,400.00
SP-T-910	17	Erosion Control Fiber Mat	200	S.Y.	10.00	2,000.00
SP-T-912	18	Straw Biorolls	1,700	L.F.	10.00	17,000.00
SP-Gen	19	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	20	Airside Traffic Control	1	L.S.	75,000.00	75,000.00
SP-Gen	21	Mobilization	1	L.S.	325,000.00	325,000.00

Total Estimated Cost \$ 3,033,600.00

Other Costs:

Administration	\$ 2,000
Design & Bidding	121,000
Construction Administration & Observation	152,000
Construction Testing	100,000
FAA Closeout Report	7,000

Total Other Costs: \$ 382,000

Total Estimated Project Cost \$ 3,416,000

Total Estimated Project Cost (with 10% contingency) \$ 3,758,000

Construct Medium Intensity Taxiway Lighting						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
L-107	1	L-807 Lighted Windcone	1	Each	\$ 9,000.00	\$ 9,000.00
L-107	2	L-806 Lighted Windcone	2	Each	6,500.00	13,000.00
L-108	3	#8 18KV L-824 Cable	19,000	L.F.	1.50	28,500.00
L-108	4	#6 Counterpoise	17,000	L.F.	1.00	17,000.00
L-108	5	Cable Flowing (Counterpoise Only)	15,000	L.F.	2.00	30,000.00
L-108	6	#2 AWG Cu Type THWN	3,600	L.F.	2.25	8,100.00
L-108	7	#6 Cu Ground	1,300	L.F.	1.25	1,625.00
L-110	8	2" PVC Conduit	17,000	L.F.	6.00	102,000.00
L-110	9	3x3x2" Duct Bank (Sand Encased)	500	L.F.	60.00	30,000.00
L-110	10	1x4x2" Duct Bank (Sand Encased)	200	L.F.	35.00	7,000.00
SP-L-999	11	HI Runway Light (Base Mount)	72	Each	900.00	64,800.00
SP-L-999	12	HI Threshold Light (Base Mount)	16	Each	900.00	14,400.00
SP-L-999	13	L-858 Lighted Sign	10	Each	4,800.00	48,000.00
SP-L-999	14	L-858 Lighted Sign (DRS)	6	Each	4,200.00	25,200.00
SP-L-999	15	L-880 PAPI Unit	2	Each	17,000.00	34,000.00
SP-L-999	16	L-849 REIL	2	Each	15,000.00	30,000.00
SP-L-999	17	Constant Current Regulator	1	Each	18,000.00	18,000.00
SP-L-999	18	L-867B Base Can with Solid Cover	10	Each	650.00	6,500.00
SP-L-999	19	Electrical Manhole	2	Each	10,000.00	20,000.00
SP-Gen	20	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	21	Airside Traffic Control	1	L.S.	65,000.00	65,000.00
SP-Gen	22	Mobilization	1	L.S.	70,000.00	70,000.00

Total Estimated Cost \$ 652,125.00

Other Costs:

Administration	\$ 2,000
Design & Bidding	65,000
Construction Administration & Observation	78,000
Construction Testing	35,000
FAA Closeout Report	6,000

Total Other Costs: \$ 186,000

Total Estimated Project Cost \$ 839,000

Total Estimated Project Cost (with 10% contingency) \$ 923,000

Summary		
Construct 7700' x 50' Parallel Taxiway Pavements - Stage 1 (6,400 feet)		13,774,000
Construct 7700' x 50' Parallel Taxiway Pavements - Stage 2 (1,300 feet)		3,758,000
Construct Medium Intensity Taxiway Lighting		923,000
TOTAL	\$	18,455,000

DICKINSON THEODORE ROOSEVELT REGIONAL AIRPORT
DICKINSON, NORTH DAKOTA
ANALYSIS OF PROBABLE COSTS (PCC) FOR Normal Body Aircraft - 100,000 to 200,000 lbs.)
7,700 to 1,100 Runway for Alternative II (Phase Construction) (Construction Option 4)

Land Acquisition					
Item	Qty	Unit	Unit Price	Total	
Item	Qty	Unit	Unit Price	Total	
Fee Simple Acquisition	202	Acres	\$ 1,000.00	\$	202,000.00
Administration				\$	25,000.00
Engineering Assistance with Land Acquisition				\$	25,000.00
Engineering Assistance to Vacate Portions of Section Line Bids				\$	25,000.00
Appraisal				\$	25,000.00
Review Appraisal				\$	25,000.00
Attorney				\$	10,000.00
File Work				\$	10,000.00
FAA Clearance Report				\$	10,000.00
Total Estimated Project Cost				\$	452,000.00
Total Estimated Project Cost (with 10% contingency)				\$	498,000.00

Airport Middle Fence						
Spec	No.	Item	Qty	Unit	Unit Price	Total
SP-F-104	1	8' Wildlife Fence with High Tensile Wire Top	27,700	L.F.	\$ 10.20	\$ 282,540.00
SP-F-104	2	2" x 4" Solid Spruce Wood Posts with High Tensile Wire Top	5,400	Each	\$ 8.00	\$ 43,200.00
SP-F-104	3	Remove & Dispose of Wildlife Fence	7,300	L.F.	\$ 4.00	\$ 29,200.00
SP-Gen	4	Install Road Closure Barriers	2	Each	\$ 2,500.00	\$ 5,000.00
SP-Gen	5	Modification	1	L.S.	\$ 50,000.00	\$ 50,000.00
Total Estimated Cost						\$ 446,200.00
Other Costs:				\$	1,300.00	
Administration				\$	45,000.00	
Design & Bidding				\$	60,000.00	
Construction Administration & Observation				\$	15,000.00	
Construction Testing				\$	1,500.00	
FAA Clearance Report				\$	3,000.00	
Total Other Costs:				\$	113,000.00	
Total Estimated Project Cost				\$	560,000.00	
Total Estimated Project Cost (with 10% contingency)				\$	616,000.00	

Construct P300 x 150 Runway Pavements - Stage 1 (1,300 feet)						
Spec	No.	Item	Qty	Unit	Unit Price	Total
P-112	1	Unclassified Excavation	726	C.Y.	\$ 14.00	\$ 10,164.00
P-112	2	Import Excavation	726	C.Y.	\$ 2.00	\$ 1,452.00
P-112	3	Water	7,700	M.Gal	\$ 30.00	\$ 231,000.00
SP-F-103	4	Soil Stabilization Material	25,000	S.Y.	\$ 3.00	\$ 75,000.00
P-209	5	12 Inch Crushed Aggregate Base Course	7,700	C.Y.	\$ 65.00	\$ 500,500.00
SP-F-220	6	Geotextile Fabric	25,000	S.Y.	\$ 3.00	\$ 75,000.00
P-204	7	8 Inch Concrete Finished Base	25,000	S.Y.	\$ 34.00	\$ 850,000.00
P-201	8	10 Inch Portland Cement Concrete Pavement	25,000	S.Y.	\$ 35.00	\$ 875,000.00
P-405	9	Joint Sealing	25,000	L.F.	\$ 1.50	\$ 37,500.00
P-420	10	Remove and Dispose of Bituminous Pavement	15,000	S.Y.	\$ 1.50	\$ 22,500.00
P-420	11	Obstructive Pavement Markings	30,000	L.F.	\$ 4.00	\$ 120,000.00
P-421	12	Special Coatings	14,400	S.Y.	\$ 2.00	\$ 28,800.00
D-101	13	36 Inch RCY, Class II	1,000	L.F.	\$ 300.00	\$ 300,000.00
D-101	14	36 Inch RCY, Class II	4	Each	\$ 1,500.00	\$ 6,000.00
D-105	15	4 Inch Perforated PVC Edgeline Pipe with Filter Sock	2,000	L.F.	\$ 15.00	\$ 30,000.00
D-105	16	4 Inch PVC Culvert Liner & Headwall	8	Each	\$ 800.00	\$ 6,400.00
T-901	17	Seeding	29	Acres	\$ 750.00	\$ 21,750.00
T-902	18	Spreading (On-Site)	14,400	C.Y.	\$ 14.00	\$ 201,600.00
T-908	19	Mulching	140,300	S.Y.	\$ 1.00	\$ 140,300.00
SP-F-910	20	Embed Control Fiber Mat	25,000	L.F.	\$ 10.00	\$ 250,000.00
SP-F-912	21	Draw Berms	4,000	L.F.	\$ 10.00	\$ 40,000.00
L-999	22	Temporary Threshold Lighting	1	L.S.	\$ 2,500.00	\$ 2,500.00
SP-Gen	23	Field Office / Laboratory	1	L.S.	\$ 100,000.00	\$ 100,000.00
SP-Gen	24	Alaride Traffic Control	1	L.S.	\$ 100,000.00	\$ 100,000.00
SP-Gen	25	Modification	1	L.S.	\$ 924,000.00	\$ 924,000.00
Total Estimated Cost						\$ 8,626,220.00
Other Costs:				\$	2,000.00	
Administration				\$	250,000.00	
Design & Bidding				\$	345,000.00	
Construction Administration & Observation				\$	120,000.00	
Construction Testing				\$	1,000.00	
FAA Clearance Report				\$	3,000.00	
Total Other Costs:				\$	728,000.00	
Total Estimated Project Cost				\$	9,354,000.00	
Total Estimated Project Cost (with 10% contingency)				\$	10,289,000.00	

Construct P300 x 150 Runway Pavements - Stage 2 (2,200 feet)						
Spec	No.	Item	Qty	Unit	Unit Price	Total
P-112	1	Unclassified Excavation	128	C.Y.	\$ 4.00	\$ 512.00
P-112	2	Import Excavation	411	C.Y.	\$ 3.00	\$ 1,233.00
P-112	3	Water	5,000	M.Gal	\$ 30.00	\$ 150,000.00
SP-F-103	4	Soil Stabilization Material	21,000	S.Y.	\$ 3.00	\$ 63,000.00
P-209	5	12 Inch Crushed Aggregate Base Course	6,000	C.Y.	\$ 80.00	\$ 480,000.00
SP-F-220	6	Geotextile Fabric	21,000	S.Y.	\$ 3.00	\$ 63,000.00
P-204	7	8 Inch Concrete Finished Base	21,000	S.Y.	\$ 30.00	\$ 630,000.00
P-201	8	10 Inch Portland Cement Concrete Pavement	21,000	S.Y.	\$ 35.00	\$ 735,000.00
P-405	9	Joint Sealing	21,000	L.F.	\$ 1.50	\$ 31,500.00
P-420	10	Remove and Dispose of Bituminous Pavement	15,000	S.Y.	\$ 1.50	\$ 22,500.00
P-420	11	Obstructive Pavement Markings	30,000	L.F.	\$ 4.00	\$ 120,000.00
P-421	12	Special Coatings	18,000	S.Y.	\$ 2.00	\$ 36,000.00
D-101	13	36 Inch RCY, Class II	1,000	L.F.	\$ 300.00	\$ 300,000.00
D-101	14	36 Inch RCY, Class II	4	Each	\$ 1,500.00	\$ 6,000.00
D-105	15	4 Inch Perforated PVC Edgeline Pipe with Filter Sock	1,800	L.F.	\$ 15.00	\$ 27,000.00
D-105	16	4 Inch PVC Culvert Liner & Headwall	8	Each	\$ 800.00	\$ 6,400.00
T-901	17	Seeding	50	Acres	\$ 700.00	\$ 35,000.00
T-902	18	Spreading (On-Site)	26,400	C.Y.	\$ 12.00	\$ 316,800.00
T-908	19	Mulching	240,000	S.Y.	\$ 1.00	\$ 240,000.00
SP-F-910	20	Embed Control Fiber Mat	21,000	L.F.	\$ 10.00	\$ 210,000.00
SP-F-912	21	Draw Berms	4,000	L.F.	\$ 10.00	\$ 40,000.00
L-999	22	Temporary Threshold Lighting	1	L.S.	\$ 3,000.00	\$ 3,000.00
SP-Gen	23	Field Office / Laboratory	1	L.S.	\$ 100,000.00	\$ 100,000.00
SP-Gen	24	Alaride Traffic Control	1	L.S.	\$ 100,000.00	\$ 100,000.00
SP-Gen	25	Modification	1	L.S.	\$ 908,000.00	\$ 908,000.00
Total Estimated Cost						\$ 8,990,760.00
Other Costs:				\$	2,000.00	
Administration				\$	210,000.00	
Design & Bidding				\$	268,000.00	
Construction Administration & Observation				\$	127,000.00	
Construction Testing				\$	1,000.00	
FAA Clearance Report				\$	3,000.00	
Total Other Costs:				\$	764,000.00	
Total Estimated Project Cost				\$	9,755,000.00	
Total Estimated Project Cost (with 10% contingency)				\$	10,730,000.00	

Construct P300 x 150 Runway Pavements - Stage 3 (2,200 feet)						
Spec	No.	Item	Qty	Unit	Unit Price	Total
P-112	1	Unclassified Excavation	128	C.Y.	\$ 4.00	\$ 512.00
P-112	2	Import Excavation	411	C.Y.	\$ 3.00	\$ 1,233.00
P-112	3	Water	5,000	M.Gal	\$ 30.00	\$ 150,000.00
SP-F-103	4	Soil Stabilization Material	21,000	S.Y.	\$ 3.00	\$ 63,000.00
P-209	5	12 Inch Crushed Aggregate Base Course	6,000	C.Y.	\$ 80.00	\$ 480,000.00
SP-F-220	6	Geotextile Fabric	21,000	S.Y.	\$ 3.00	\$ 63,000.00
P-204	7	8 Inch Concrete Finished Base	21,000	S.Y.	\$ 30.00	\$ 630,000.00
P-201	8	10 Inch Portland Cement Concrete Pavement	21,000	S.Y.	\$ 35.00	\$ 735,000.00
P-405	9	Joint Sealing	21,000	L.F.	\$ 1.50	\$ 31,500.00
P-420	10	Remove and Dispose of Bituminous Pavement	15,000	S.Y.	\$ 1.50	\$ 22,500.00
P-420	11	Obstructive Pavement Markings	30,000	L.F.	\$ 4.00	\$ 120,000.00
P-421	12	Special Coatings	18,000	S.Y.	\$ 2.00	\$ 36,000.00
D-101	13	36 Inch RCY, Class II	1,000	L.F.	\$ 300.00	\$ 300,000.00
D-101	14	36 Inch RCY, Class II	4	Each	\$ 1,500.00	\$ 6,000.00
D-105	15	4 Inch Perforated PVC Edgeline Pipe with Filter Sock	1,800	L.F.	\$ 15.00	\$ 27,000.00
D-105	16	4 Inch PVC Culvert Liner & Headwall	8	Each	\$ 800.00	\$ 6,400.00
T-901	17	Seeding	50	Acres	\$ 700.00	\$ 35,000.00
T-902	18	Spreading (On-Site)	26,400	C.Y.	\$ 12.00	\$ 316,800.00
T-908	19	Mulching	240,000	S.Y.	\$ 1.00	\$ 240,000.00
SP-F-910	20	Embed Control Fiber Mat	21,000	L.F.	\$ 10.00	\$ 210,000.00
SP-F-912	21	Draw Berms	4,000	L.F.	\$ 10.00	\$ 40,000.00
L-999	22	Temporary Threshold Lighting	1	L.S.	\$ 3,000.00	\$ 3,000.00
SP-Gen	23	Field Office / Laboratory	1	L.S.	\$ 100,000.00	\$ 100,000.00
SP-Gen	24	Alaride Traffic Control	1	L.S.	\$ 100,000.00	\$ 100,000.00
SP-Gen	25	Modification	1	L.S.	\$ 908,000.00	\$ 908,000.00
Total Estimated Cost						\$ 8,990,760.00
Other Costs:				\$	2,000.00	
Administration				\$	210,000.00	
Design & Bidding				\$	268,000.00	
Construction Administration & Observation				\$	127,000.00	
Construction Testing				\$	1,000.00	
FAA Clearance Report				\$	3,000.00	
Total Other Costs:				\$	764,000.00	
Total Estimated Project Cost				\$	9,755,000.00	
Total Estimated Project Cost (with 10% contingency)				\$	10,730,000.00	

Construct P300 x 150 Runway Pavements - Stage 4 (2,200 feet)						
Spec	No.	Item	Qty	Unit	Unit Price	Total
P-112	1	Unclassified Excavation	128	C.Y.	\$ 4.00	\$ 512.00
P-112	2	Import Excavation	411	C.Y.	\$ 3.00	\$ 1,233.00
P-112	3	Water	5,000	M.Gal	\$ 30.00	\$ 150,000.00
SP-F-103	4	Soil Stabilization Material	21,000	S.Y.	\$ 3.00	\$ 63,000.00
P-209	5	12 Inch Crushed Aggregate Base Course	6,000	C.Y.	\$ 80.00	\$ 480,000.00
SP-F-220	6	Geotextile Fabric	21,000	S.Y.	\$ 3.00	\$ 63,000.00
P-204	7	8 Inch Concrete Finished Base	21,000	S.Y.	\$ 30.00	\$ 630,000.00
P-201	8	10 Inch Portland Cement Concrete Pavement	21,000	S.Y.	\$ 35.00	\$ 735,000.00
P-405	9	Joint Sealing	21,000	L.F.	\$ 1.50	\$ 31,500.00
P-420	10	Remove and Dispose of Bituminous Pavement	15,000	S.Y.	\$ 1.50	\$ 22,500.00
P-420	11	Obstructive Pavement Markings	30,000	L.F.	\$ 4.00	\$ 120,000.00
P-421	12	Special Coatings	18,000	S.Y.	\$ 2.00	\$ 36,000.00
D-101	13	36 Inch RCY, Class II	1,000	L.F.	\$ 300.00	\$ 300,000.00
D-101	14	36 Inch RCY, Class II	4	Each	\$ 1,500.00	\$ 6,000.00
D-105	15	4 Inch Perforated PVC Edgeline Pipe with Filter Sock	1,800	L.F.	\$ 15.00	\$ 27,000.00
D-105	16	4 Inch PVC Culvert Liner & Headwall	8	Each	\$ 800.00	\$ 6,400.00
T-901	17	Seeding	50	Acres	\$ 700.00	\$ 35,000.00
T-902	18	Spreading (On-Site)	26,400	C.Y.	\$ 12.00	\$ 316,800.00
T-908	19	Mulching	240,000	S.Y.	\$ 1.00	\$ 240,000.00
SP-F-910	20	Embed Control Fiber Mat	21,000	L.F.	\$ 10.00	\$ 210,000.00
SP-F-912	21	Draw Berms	4,000	L.F.	\$ 10.00	\$ 40,000.00
L-999	22	Temporary Threshold Lighting	1	L.S.	\$ 3,000.00	\$ 3,000.00
SP-Gen	23	Field Office / Laboratory	1	L.S.	\$ 100,000.00	\$ 100

DICKINSON THEODORE ROOSEVELT REGIONAL AIRPORT
DICKINSON, NORTH DAKOTA
ANALYSIS OF PROBABLE COSTS (PCC for Narrow Body Aircraft - 100,000 to 200,000 lbs.)
7,700 Ft x 150 Ft Runway for Alternate H (Non-Phased Overlay Construction) (Construction Options 2 and 5)

Land Acquisition				
Item	Qty.	Unit	Unit Price	Total
Fee Simple Acquisition	202	Acres	\$ 1,000.00	\$ 202,000.00
Administration				5,000.00
Engineering (Assistance with Land Acquisition)				75,000.00
Engineering Assistance to Vacate Portions of Section Line Roads				25,000.00
Appraisal				25,000.00
Review Appraisal				25,000.00
Attorney				75,000.00
Title Work				10,000.00
FAA Closeout Report				10,000.00
Total Estimated Project Cost				\$ 452,000
Total Estimated Project Cost (with 10% contingency)				\$ 498,000

PRELIMINARY

Airport Wildlife Fence						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
SP-F-168	1	8' Wildlife Fence with High Tensile Wire Top	31,700	L.F.	\$ 10.00	\$ 317,000.00
SP-F-168	2	24' x 8' Slide Open Wildlife Fence Gate with High Tensile Wire Top	9	Each	5,000.00	45,000.00
SP-F-169	3	Remove & Dispose of Wildlife Fence	7,300	L.F.	4.00	29,200.00
SP-Gen	4	Install Road Closed Barriers	2	Each	2,500.00	5,000.00
SP-Gen	5	Mobilization	1	L.S.	50,000.00	50,000.00
Total Estimated Cost						\$ 446,200.00
Other Costs:						
Administration					\$ 1,500	
Design & Bidding						45,000
Construction Administration & Observation						54,000
Construction Testing						7,500
FAA Closeout Report						5,000
Total Other Costs:						\$ 113,000
Total Estimated Project Cost						\$ 560,000
Total Estimated Project Cost (with 10% contingency)						\$ 616,000

Overlay 6400' x 100' Runway Pavements						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-401	1	15-inch Plant Mix Bituminous Pavement Overlay	2,920	Ton	50.00	146,000.00
P-401	2	Asphalt Cement - Type PG 58-28	190	Ton	750.00	142,500.00
P-501	3	15-inch Portland Cement Concrete Pavement Overlay	74,700	S.Y.	134.00	10,009,800.00
P-501	4	Joint Sealing	85,650	L.F.	3.50	299,775.00
P-420	5	Runway and Taxiway Painting	120,000	S.F.	1.50	180,000.00
P-421	6	Sawcut Grooving	61,000	S.Y.	2.00	122,000.00
SP-Gen	7	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	8	Arise Traffic Control	1	L.S.	100,000.00	100,000.00
SP-Gen	9	Mobilization	1	L.S.	1,287,000.00	1,287,000.00
Total Estimated Cost						\$ 12,008,575.00
Other Costs:						
Administration					\$ 2,000	
Design & Bidding						360,000
Construction Administration & Observation						480,000
Construction Testing						150,000
FAA Closeout Report						8,000
Total Other Costs:						\$ 1,000,000
Total Estimated Project Cost						\$ 13,009,000
Total Estimated Project Cost (with 10% contingency)						\$ 14,310,000

Construct 1300' x 150' Runway Extension and 6400' x 25' Runway Widening Pavements						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	283,600	C.Y.	\$ 2.00	\$ 567,200.00
P-152	2	Borrow Excavation	490,800	C.Y.	2.00	981,600.00
P-152	3	Water	8,100	M Gal.	30.00	243,000.00
SP-P-181	4	Soil Stabilization Material	61,900	S.Y.	5.00	309,500.00
P-209	5	12-inch Crushed Aggregate Base Course	19,700	C.Y.	85.00	1,674,500.00
SP-P-220	6	Geotextile Fabric	61,900	S.Y.	3.00	185,700.00
P-304	7	8-inch Cement Treated Base	61,900	S.Y.	30.00	1,857,000.00
P-501	8	15-inch Portland Cement Concrete Pavement	60,100	S.Y.	134.00	8,053,400.00
P-406	9	Joint Sealing	70,100	L.F.	3.50	245,350.00
P-421	10	Sawcut Grooving	50,000	S.Y.	2.00	100,000.00
D-701	11	36-inch RCP, Class III	3,500	L.F.	300.00	1,050,000.00
D-701	12	36-inch RCS, Class III	30	Ea.	1,500.00	45,000.00
D-705	13	4-inch Perforated PVC Ebbdrain Pipe with Filter Sock	15,412	L.F.	15.00	231,180.00
D-705	14	4-inch PVC Outlet Line & Headwall	62	Ea.	850.00	52,700.00
T-901	15	Seeding	128	Acres	750.00	103,800.00
T-905	16	Topsoiling (On Site)	67,640	C.Y.	8.00	541,120.00
T-908	17	Mulching	667,920	S.Y.	1.00	667,920.00
SP-T-910	18	Erosion Control Fiber Mat	3,430	S.Y.	10.00	34,300.00
SP-T-912	19	Straw Biorolls	18,900	L.F.	10.00	189,000.00
SP-Gen	20	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	21	Arise Traffic Control	1	L.S.	100,000.00	100,000.00
SP-Gen	22	Mobilization	1	L.S.	2,069,000.00	2,069,000.00
Total Estimated Cost						\$ 19,310,970.00
Other Costs:						
Administration					\$ 2,000	
Design & Bidding						579,000
Construction Administration & Observation						772,000
Construction Testing						150,000
FAA Closeout Report						8,000
Total Other Costs:						\$ 1,511,000
Total Estimated Project Cost						\$ 20,822,000
Total Estimated Project Cost (with 10% contingency)						\$ 22,905,000

PRELIMINARY

Construct High Intensity Runway Lighting						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
L-107	1	L-807 Lighted Windcone	1	Each	\$ 9,000.00	\$ 9,000.00
L-107	2	L-806 Lighted Windcone	2	Each	6,500.00	13,000.00
L-108	3	#9 SVL L-824 Cable	19,000	L.F.	1.50	28,500.00
L-108	4	#6 Counterpoise	17,000	L.F.	1.00	17,000.00
L-108	5	Cable Pivoting (Counterpoise Only)	15,000	L.F.	2.00	30,000.00
L-108	6	#2 AWG Cu Type THWN	2,640	L.F.	2.25	5,940.00
L-108	7	#6 Cu Ground	1,300	L.F.	1.25	1,625.00
L-110	8	2" PVC Conduit	17,000	L.F.	6.00	102,000.00
L-110	9	3x4x2" Duct Bank (Sand Encased)	500	L.F.	60.00	30,000.00
L-110	10	1x4x2" Duct Bank (Sand Encased)	200	L.F.	35.00	7,000.00
SP-L-999	11	H8 Runway Light (Base Mount)	72	Each	900.00	64,800.00
SP-L-999	12	H8 Threshold Light (Base Mount)	16	Each	900.00	14,400.00
SP-L-999	13	L-858 Lighted Sign	19	Each	4,800.00	91,200.00
SP-L-999	14	L-858 Lighted Sign (DRS)	6	Each	4,200.00	25,200.00
SP-L-999	15	L-880 PAPI Unit	2	Each	17,000.00	34,000.00
SP-L-999	16	L-849 REL	2	Each	15,000.00	30,000.00
SP-L-999	17	Constant Current Regulator	1	Each	18,000.00	18,000.00
SP-L-999	18	L-867B Base Can with Solid Cover	10	Each	650.00	6,500.00
SP-L-999	19	Electrical Manhole	2	Each	10,000.00	20,000.00
SP-Gen	20	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	21	Arise Traffic Control	1	L.S.	100,000.00	100,000.00
SP-Gen	22	Mobilization	1	L.S.	74,000.00	74,000.00
Total Estimated Cost						\$ 691,125.00
Other Costs:						
Administration					\$ 2,000	
Design & Bidding						49,000
Construction Administration & Observation						83,000
Construction Testing						35,000
FAA Closeout Report						6,000
Total Other Costs:						\$ 195,000
Total Estimated Project Cost						\$ 887,000
Total Estimated Project Cost (with 10% contingency)						\$ 976,000

PRELIMINARY

Summary		Total
Land Acquisition		\$ 498,000
Airport Wildlife Fence		616,000
Overlay 6400' x 100' Runway Pavements		14,310,000
Construct 1300' x 150' Runway Extension and 6400' x 25' Runway Widening Pavements		22,905,000
Construct High Intensity Runway Lighting		976,000
TOTAL		\$ 39,305,000

DICKINSON THEODORE ROOSEVELT REGIONAL AIRPORT
DICKINSON, NORTH DAKOTA
ANALYSIS OF PROBABLE COSTS
7,200 ft x 100 ft Crosswind Runway - Phased (Construction Option 3)

Land Acquisition				
Item	Qty.	Unit	Unit Price	Total
Fee Simple Acquisition	150	Acres	\$ 1,000.00	\$ 150,000.00
Administration				5,000.00
Engineering (Assistance with Land Acquisition)				75,000.00
Engineering Assistance to Vacate Portions of Section Line Roads				25,000.00
Appraisal				25,000.00
Review Appraisal				25,000.00
Attorney				75,000.00
Title Work				10,000.00
FAA Closeout Report				10,000.00
Total Estimated Project Cost				\$ 400,000
Total Estimated Project Cost (with 10% contingency)				\$ 440,000

PRELIMINARY

Airport Wildlife Fence						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
SP-F-168	1	8' Wildlife Fence with High Tensile Wire Top	14,400	L.F.	\$ 10.00	\$ 144,000.00
SP-F-168	2	24' x 8' Slide Open Wildlife Fence Gate with High Tensile Wire Top	4	Each	5,000.00	20,000.00
SP-F-169	3	Remove & Dispose of Wildlife Fence	3,600	L.F.	4.00	14,400.00
SP-Gen	4	Install Road Closed Barriers	2	Each	2,500.00	5,000.00
SP-Gen	5	Mobilization	1	L.S.	22,000.00	22,000.00
Total Estimated Cost						\$ 205,400.00
Other Costs:						
Administration					\$ 1,500	
Design & Bidding					21,000	
Construction Administration & Observation					25,000	
Construction Testing					7,500	
FAA Closeout Report					5,000	
Total Other Costs:					\$ 60,000	
Total Estimated Project Cost						\$ 266,000
Total Estimated Project Cost (with 10% contingency)						\$ 293,000

Construct 7200 x 100 Runway Earthwork						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	450,000	C.Y.	\$ 4.00	\$ 1,800,000.00
P-152	2	Water	5,900	M Gal.	30.00	177,000.00
SP-P-181	3	Soil Stabilization Material	81,600	S.Y.	5.00	408,000.00
D-701	4	36-inch RCES, Class III	1,550	L.F.	300.00	465,000.00
D-701	5	36-inch RCES, Class III	4	Ea.	1,500.00	6,000.00
T-901	6	Seeding	100	Acres	750.00	75,000.00
T-905	7	Topsoiling (On Site)	55,000	C.Y.	8.00	440,000.00
T-908	8	Mulching	484,000	S.Y.	1.00	484,000.00
SP-T-910	9	Erosion Control Fiber Mat	780	S.Y.	10.00	7,800.00
SP-T-912	10	Straw Biorets	9,600	L.F.	10.00	96,000.00
SP-Gen	11	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	12	Airside Traffic Control	1	L.S.	50,000.00	50,000.00
SP-Gen	13	Mobilization	1	L.S.	482,000.00	482,000.00
Total Estimated Cost						\$ 4,500,800.00
Other Costs:						
Administration					\$ 2,000	
Design & Bidding					225,000	
Construction Administration & Observation					270,000	
Construction Testing					50,000	
FAA Closeout Report					6,000	
Total Other Costs:					\$ 553,000	
Total Estimated Project Cost						\$ 5,054,000
Total Estimated Project Cost (with 10% contingency)						\$ 5,560,000

PRELIMINARY

Construct 7200 x 100 Runway Aggregate Base & Pavements						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
P-152	1	Unclassified Excavation	40,000	C.Y.	\$ 14.00	\$ 560,000.00
P-152	2	Water	1,600	M Gal.	30.00	48,000.00
P-154	3	16-inch Subbase	31,700	C.Y.	50.00	1,585,000.00
P-209	4	12-inch Crushed Aggregate Base Course	27,200	C.Y.	85.00	2,312,000.00
SP-P-230	5	Geotextile Fabric	89,800	S.Y.	3.00	269,400.00
P-401	6	4-inch Bituminous Base Course	17,800	Ton	40.00	712,000.00
P-401	7	Asphalt Cement - Type PG 58-28	1,160	Ton	750.00	870,000.00
P-401	8	4-inch Plant Mix Bituminous Pavement	17,800	Ton	50.00	890,000.00
P-401	9	Asphalt Cement - Type PG 58-28	1,160	Ton	750.00	870,000.00
P-603	10	Bituminous Tack Coat	12,000	Gal.	3.50	42,000.00
P-620	11	Runway and Taxiway Painting	110,000	S.F.	1.00	110,000.00
P-621	12	Sawcut Grooving	71,900	S.Y.	2.00	143,800.00
D-705	13	4-inch Perforated PVC Edge/Drain Pipe with Filter Sock	14,404	L.F.	15.00	216,060.00
D-705	14	4-inch PVC Outlet Line & Headwall	58	Ea.	850.00	49,300.00
T-901	15	Seeding	10	Acres	1,500.00	15,000.00
T-905	16	Topsoiling (On Site)	10,000	C.Y.	15.00	150,000.00
T-908	17	Mulching	48,400	S.Y.	1.00	48,400.00
SP-T-910	18	Erosion Control Fiber Mat	580	S.Y.	10.00	5,800.00
SP-T-912	19	Straw Biorets	9,600	L.F.	10.00	96,000.00
SP-Gen	20	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	21	Airside Traffic Control	1	L.S.	50,000.00	50,000.00
SP-Gen	22	Mobilization	1	L.S.	1,086,000.00	1,086,000.00
Total Estimated Cost						\$ 10,138,760.00
Other Costs:						
Administration					\$ 2,000	
Design & Bidding					406,000	
Construction Administration & Observation					507,000	
Construction Testing					85,000	
FAA Closeout Report					7,000	
Total Other Costs:					\$ 1,007,000	
Total Estimated Project Cost						\$ 11,146,000
Total Estimated Project Cost (with 10% contingency)						\$ 12,261,000

PRELIMINARY

Construct High Intensity Runway Lighting						
Spec.	No.	Item	Qty.	Unit	Unit Price	Total
L-107	1	L-807 Lighted Windcone	1	Each	\$ 8,000.00	\$ 8,000.00
L-107	2	L-808 Lighted Windcone	2	Each	6,500.00	13,000.00
L-108	3	#8 SKV L-824 Cable	19,000	L.F.	1.50	28,500.00
L-108	4	#6 Counterpoise	17,000	L.F.	1.00	17,000.00
L-108	5	Cable Rerowing (Counterpoise Only)	15,000	L.F.	1.75	26,250.00
L-108	6	#2 AWG Cu Type THWN	3,600	L.F.	2.50	9,000.00
L-108	7	#6 Cu Ground	1,300	L.F.	1.25	1,625.00
L-110	8	2" PVC Conduit	17,000	L.F.	6.00	102,000.00
L-110	9	3x3x2" Duct Bank (Sand Encased)	500	L.F.	60.00	30,000.00
L-110	10	1x4x2" Duct Bank (Sand Encased)	200	L.F.	35.00	7,000.00
SP-L-999	11	HI Runway Light (Base Mount)	12	Each	800.00	9,600.00
SP-L-999	12	HI Threshold Light (Base Mount)	16	Each	900.00	14,400.00
SP-L-999	13	L-858 Lighted Sign	10	Each	4,800.00	48,000.00
SP-L-999	14	L-858 Lighted Sign (DKS)	6	Each	4,200.00	25,200.00
SP-L-999	15	L-880 PAPI Unit	2	Each	17,000.00	34,000.00
SP-L-999	16	L-849 REIL	2	Each	20,000.00	40,000.00
SP-L-999	17	Constant Current Regulator	1	Each	25,000.00	25,000.00
SP-L-999	18	L-867B Base Can with Solid Cover	10	Each	650.00	6,500.00
SP-L-999	19	Electrical Manhole	2	Each	10,000.00	20,000.00
SP-Gen	20	Field Office / Laboratory	1	L.S.	10,000.00	10,000.00
SP-Gen	21	Airside Traffic Control	1	L.S.	50,000.00	50,000.00
SP-Gen	22	Mobilization	1	L.S.	70,000.00	70,000.00
Total Estimated Cost						\$ 650,275.00
Other Costs:						
Administration					\$ 2,000	
Design & Bidding					65,000	
Construction Administration & Observation					78,000	
Construction Testing					15,000	
FAA Closeout Report					6,000	
Total Other Costs:					\$ 186,000	
Total Estimated Project Cost						\$ 837,000
Total Estimated Project Cost (with 10% contingency)						\$ 921,000

PRELIMINARY

Summary		Total
Land Acquisition		\$ 440,000
Airport Wildlife Fence		293,000
Construct 7200 x 100 Runway Earthwork		5,560,000
Construct 7200 x 100 Runway Aggregate Base & Pavements		12,261,000
Construct High Intensity Runway Lighting		921,000
TOTAL		\$ 19,475,000