

ALTERNATE 2
PLANNING LEVEL ESTIMATE

EXTEND RUNWAY 34 BY 1,000 FEET

Item No.	Description	Unit of Measure	Estimated Quantity	Unit Cost	Estimated Construction Value
Runway					
P-152	Embankment	CY	3,000,000	\$ 14.00	\$ 42,000,000.00
P-209	Base Course	CY	9,833	\$ 65.00	\$ 639,166.67
P-154	Subbase Course	CY	13,111	\$ 45.00	\$ 590,000.00
P-401	Bituminous Asphalt	Ton	6,738	\$ 100.00	\$ 673,750.00
L-110	2" Sch 40 Conduit	LF	2,000	\$ 15.00	\$ 30,000.00
L-108	Electrical Cable	LF	2,000	\$ 1.50	\$ 3,000.00
L-108	Counterpoise Wire	LF	2,000	\$ 10.00	\$ 20,000.00
L-125	Runway Edge Light	EA	20	\$ 1,000.00	\$ 20,000.00
L-125	Airfield Guidance Sign	EA	2	\$ 7,500.00	\$ 15,000.00
	Subtotal - Runway				\$ 43,990,916.67
Taxiway					
P-209	Base Course	CY	5,561	\$ 65.00	\$ 361,472.22
P-154	Subbase Course	CY	7,415	\$ 45.00	\$ 333,666.67
P-401	Bituminous Asphalt	Ton	3,754	\$ 100.00	\$ 375,375.00
L-110	2" Sch 40 Conduit	LF	2,600	\$ 15.00	\$ 39,000.00
L-108	Electrical Cable	LF	2,600	\$ 1.50	\$ 3,900.00
L-108	Counterpoise Wire	LF	2,600	\$ 10.00	\$ 26,000.00
L-125	Runway Edge Light	EA	30	\$ 1,000.00	\$ 30,000.00
L-125	Airfield Guidance Sign	EA	3	\$ 7,500.00	\$ 22,500.00
	Subtotal - Taxiway				\$ 1,191,913.89
NAVAID Equipment					
	Relocate MALSR	LS	1	\$ 1,000,000.00	\$ 1,000,000.00
	Relocate Localizer	LS	1	\$ 75,000.00	\$ 75,000.00
	Relocate Guideslope	LS	1	\$ 75,000.00	\$ 75,000.00
	FAA Reimbursable Agreement	LS	1	\$ 500,000.00	\$ 500,000.00
	Subtotal				\$ 1,650,000.00
Miscellaneous					
	Commercial Drive Tunnel	LF	1,000	\$ 7,000.00	\$ 7,000,000.00
F-162	Security Fence	LF	3,600	\$ 30.00	\$ 108,000.00
P-156	Stormwater Allowance	LS	1	\$ 250,000.00	\$ 250,000.00
	Replace EMAS	LS	1	\$ 5,000,000.00	\$ 5,000,000.00
M-120	Maintenance and Protection of Traffic	LS	1	\$ 1,000,000.00	\$ 1,000,000.00
	Relocate Perimeter Road	LF	3,600	\$ 150.00	\$ 540,000.00
	Property acquisition	Acre	2.5	\$ 10,000.00	\$ 25,000.00
	Subtotal				\$ 13,898,000.00
Total Construction Estimate					\$60,730,830.56
Construction Escalation Contingency (per Yr.) - 10%					\$6,073,083.06
Design Services - 8%					\$4,858,466.44
Construction Administration - 8%					\$4,858,466.44
TOTAL FOR ALTERNATE 2:					\$76,520,846.50

ALTERNATE 4B
PLANNING LEVEL ESTIMATE

EXTEND RUNWAY 10 BY 550 FEET (Runway 10-28 Alt 2B)

Item No.	Description	Unit of Measure	Estimated Quantity	Unit Cost	Estimated Construction Value
Runway					
P-152	Embankment	CY	800,000	\$ 14.00	\$ 11,200,000.00
P-209	Base Course	CY	4,644	\$ 65.00	\$ 301,888.89
P-154	Subbase Course	CY	6,193	\$ 45.00	\$ 278,666.67
P-401	Bituminous Asphalt	Ton	3,176	\$ 100.00	\$ 317,625.00
L-110	2" Sch 40 Conduit	LF	1,100	\$ 15.00	\$ 16,500.00
L-108	Electrical Cable	LF	1,100	\$ 1.50	\$ 1,650.00
L-108	Counterpoise Wire	LF	1,100	\$ 10.00	\$ 11,000.00
L-125	Runway Edge Light	EA	12	\$ 1,000.00	\$ 12,000.00
L-125	Airfield Guidance Sign	EA	2	\$ 7,500.00	\$ 15,000.00
	Subtotal - Runway				\$ 12,154,330.56
Taxiway					
P-209	Base Course	CY	2,383	\$ 65.00	\$ 154,916.67
P-154	Subbase Course	CY	3,178	\$ 45.00	\$ 143,000.00
P-401	Bituminous Asphalt	Ton	1,588	\$ 100.00	\$ 158,812.50
L-110	2" Sch 40 Conduit	LF	1,100	\$ 15.00	\$ 16,500.00
L-108	Electrical Cable	LF	1,100	\$ 1.50	\$ 1,650.00
L-108	Counterpoise Wire	LF	1,100	\$ 10.00	\$ 11,000.00
L-125	Runway Edge Light	EA	26	\$ 1,000.00	\$ 26,000.00
L-125	Airfield Guidance Sign	EA	3	\$ 7,500.00	\$ 22,500.00
	Subtotal - Taxiway				\$ 534,379.17
NAVAID Equipment					
	Relocate PAPI	LS	1	\$ 100,000.00	\$ 100,000.00
	REILs	LS	1	\$ 25,000.00	\$ 25,000.00
	Subtotal				\$ 125,000.00
Miscellaneous					
F-162	Security Fence	LF	3,000	\$ 30.00	\$ 90,000.00
P-156	Stormwater Allowance	LS	1	\$ 250,000.00	\$ 250,000.00
M-120	Maintenance and Protection of Traffic	LS	1	\$ 500,000.00	\$ 500,000.00
	Relocate Perimeter Road	LF	3,000	\$ 150.00	\$ 450,000.00
	Property Acquisition	Acres	12	\$ 10,000.00	\$ 115,000.00
	Subtotal				\$ 1,405,000.00
Total Construction Estimate					\$14,218,709.72
Construction Escalation/Contingency (per Yr.) - 10%					\$1,421,870.97
Design Services - 8%					\$1,137,496.78
Construction Administration - 8%					\$1,137,496.78
TOTAL FOR ALTERNATE 2:					\$17,915,574.25

ALTERNATE 5A
PLANNING LEVEL ESTIMATE

EXTEND RUNWAY 28 BY 170 FEET (Runway 10-28 Alt 3B)

Item No.	Description	Unit of Measure	Estimated Quantity	Unit Cost	Estimated Construction Value
Runway					
P-152	Embankment	CY	300,000	\$ 14.00	\$ 4,200,000.00
P-209	Base Course	CY	1,773	\$ 65.00	\$ 115,266.67
P-154	Subbase Course	CY	2,364	\$ 45.00	\$ 106,400.00
P-401	Bituminous Asphalt	Ton	1,213	\$ 100.00	\$ 121,275.00
L-110	2" Sch 40 Conduit	LF	420	\$ 15.00	\$ 6,300.00
L-108	Electrical Cable	LF	420	\$ 1.50	\$ 630.00
L-108	Counterpoise Wire	LF	420	\$ 10.00	\$ 4,200.00
L-125	Runway Edge Light	EA	10	\$ 1,000.00	\$ 10,000.00
L-125	Airfield Guidance Sign	EA	2	\$ 7,500.00	\$ 15,000.00
	Subtotal - Runway				\$ 4,579,071.67
Taxiway					
P-209	Base Course	CY	1,401	\$ 65.00	\$ 91,072.22
P-154	Subbase Course	CY	1,868	\$ 45.00	\$ 84,066.67
P-401	Bituminous Asphalt	Ton	934	\$ 100.00	\$ 93,362.50
L-110	2" Sch 40 Conduit	LF	970	\$ 15.00	\$ 14,550.00
L-108	Electrical Cable	LF	970	\$ 1.50	\$ 1,455.00
L-108	Counterpoise Wire	LF	970	\$ 10.00	\$ 9,700.00
L-125	Runway Edge Light	EA	14	\$ 1,000.00	\$ 14,000.00
L-125	Airfield Guidance Sign	EA	3	\$ 7,500.00	\$ 22,500.00
	Subtotal - Taxiway				\$ 330,706.39
NAVAID Equipment					
	Relocate PAPI	LS	1	\$ 100,000.00	\$ 100,000.00
	REILs	LS	1	\$ 25,000.00	\$ 25,000.00
	Subtotal				\$ 125,000.00
Miscellaneous					
F-162	Security Fence	LF	1,500	\$ 30.00	\$ 45,000.00
P-156	Stormwater Allowance	LS	1	\$ 500,000.00	\$ 500,000.00
M-120	Maintenance and Protection of Traffic	LS	1	\$ 500,000.00	\$ 500,000.00
	Relocate Perimeter Road	LF	900	\$ 150.00	\$ 135,000.00
	Subtotal				\$ 1,180,000.00
Total Construction Estimate					\$6,214,778.06
Construction Escalation Contingency (per Yr.) - 10%					\$621,477.81
Design Services - 10%					\$621,477.81
Construction Administration - 10%					\$621,477.81
TOTAL FOR ALTERNATE 2:					\$8,079,211.47

RWY 34 EMAS EXT
PLANNING LEVEL ESTIMATE

EXTEND RUNWAY 34 RSA BY 200 FEET

Item No.	Description	Unit of Measure	Estimated Quantity	Unit Cost	Estimated Construction Value
EMAS BED					
P-152	Embankment	CY	175,000	\$ 14.00	\$ 2,450,000.00
P-209	Base Course	CY	2,132	\$ 65.00	\$ 138,594.44
P-154	Subbase Course	CY	2,843	\$ 45.00	\$ 127,933.33
P-401	Bituminous Asphalt	Ton	1,463	\$ 100.00	\$ 146,300.00
L-110	2" Sch 40 Conduit	LF	0	\$ 15.00	\$ -
L-108	Electrical Cable	LF	0	\$ 1.50	\$ -
L-108	Counterpoise Wire	LF	0	\$ 10.00	\$ -
L-125	Runway Edge Light	EA	0	\$ 1,000.00	\$ -
L-125	Airfield Guidance Sign	EA	0	\$ 7,500.00	\$ -
	Subtotal - Runway				\$ 2,862,827.78
Taxiway					
	Subtotal - Taxiway				\$ -
NAVAID Equipment					
	Relocate Localizer	LS	1	\$ 75,000.00	\$ 75,000.00
	Subtotal				\$ 75,000.00
Miscellaneous					
	Commercial Drive Relocation	LF	1,700	\$ 350.00	\$ 595,000.00
F-162	Security Fence	LF	850	\$ 30.00	\$ 25,500.00
P-156	Stormwater Allowance	LS	1	\$ 250,000.00	\$ 250,000.00
M-120	Maintenance and Protection of Traffic	LS	1	\$ 500,000.00	\$ 500,000.00
	Relocate Perimeter Road	LF	800	\$ 150.00	\$ 120,000.00
	Subtotal				\$ 1,490,500.00
Total Construction Estimate					\$4,428,327.78
Construction Escalation Contingency (per Yr.) - 10%					\$442,832.78
Design Services - 8%					\$354,266.22
Construction Administration - 8%					\$354,266.22
TOTAL FOR ALTERNATE EMAS EXTENSION:					\$5,579,693.00

RWY 10-28 TAXIWAY
PLANNING LEVEL ESTIMATE

Item No.	Description	Unit of Measure	Estimated Quantity	Unit Cost	Estimated Construction Value
Runway					
P-152	Embankment	CY	0	\$ 14.00	\$ -
P-209	Base Course	CY	0	\$ 65.00	\$ -
P-154	Subbase Course	CY	0	\$ 45.00	\$ -
P-401	Bituminous Asphalt	Ton	0	\$ 100.00	\$ -
L-110	2" Sch 40 Conduit	LF	0	\$ 15.00	\$ -
L-108	Electrical Cable	LF	0	\$ 1.50	\$ -
L-108	Counterpoise Wire	LF	0	\$ 10.00	\$ -
L-125	Runway Edge Light	EA	0	\$ 1,000.00	\$ -
L-125	Airfield Guidance Sign	EA	0	\$ 7,500.00	\$ -
	Subtotal - Runway				\$ -
Taxiway					
P-209	Base Course	CY	4,622	\$ 65.00	\$ 300,444.44
P-154	Subbase Course	CY	6,163	\$ 45.00	\$ 277,333.33
P-401	Bituminous Asphalt	Ton	3,080	\$ 100.00	\$ 308,000.00
L-110	2" Sch 40 Conduit	LF	3,200	\$ 15.00	\$ 48,000.00
L-108	Electrical Cable	LF	3,200	\$ 1.50	\$ 4,800.00
L-108	Counterpoise Wire	LF	3,200	\$ 10.00	\$ 32,000.00
L-125	Runway Edge Light	EA	50	\$ 1,000.00	\$ 50,000.00
L-125	Airfield Guidance Sign	EA	9	\$ 7,500.00	\$ 67,500.00
	Subtotal - Taxiway				\$ 1,088,077.78
NAVAID Equipment					
	None				
Miscellaneous					
P-156	Stormwater Allowance	LS	1	\$ 350,000.00	\$ 350,000.00
M-120	Maintenance and Protection of Traffic	LS	1	\$ 500,000.00	\$ 500,000.00
	Subtotal				\$ 850,000.00
Total Construction Estimate					\$1,938,077.78
Construction Escalation Contingency (per.Yr.) - 15%					\$290,711.67
Design Services - 10%					\$193,807.78
Construction Administration - 15%					\$290,711.67
TOTAL FOR ALTERNATE 2:					\$2,713,308.89