

ESTIMATED DEVELOPMENT COST - SITE 1, OPTION B

Kalispell Airport Master Plan Update

March, 2012

Item	Description of Pay Items	Unit	Unit Price	Qty	Total Cost
1	Environmental				
	Update Environmental Assessment	LS	\$ 45,000	1	\$ 45,000
	Subtotal				\$ 45,000
2	Land Acquisition				
	Land Acquisition	LS	\$ 4,629,447	1	\$ 4,629,447
	Relocation Assistance	LS	\$ 150,000	1	\$ 150,000
	Remove Structures (Hangars, Shops, Residences)	LS	\$ 200,000	1	\$ 200,000
	Subtotal				\$ 4,979,447
2	Relocate Utility				
	Lower Force Main	LS	\$ 75,000	1	\$ 75,000
	Relocate Gas Main	LS	\$ 15,000	1	\$ 15,000
	Lower Sanitary Sewer Main	LS	\$ 60,000	1	\$ 60,000
	Subtotal				\$ 150,000
3	Obstruction Clearing				
	Lower/Remove Trees	LS	\$ 20,000	1	\$ 20,000
	Remove KGEZ Towers	LS	\$ 400,000	1	\$ 400,000
	Subtotal				\$ 420,000
4A	Apron Expansion (Phase II)				
	Earthwork	CY	\$ 12	8,500	\$ 102,000
	Pavement Edge Drains	LF	\$ 20	1,275	\$ 25,500
	Crushed Base Course (10")	CY	\$ 35	6,320	\$ 221,200
	Bituminous Surface Course (3")	TN	\$ 40	3,809	\$ 152,360
	Bituminous Material	TN	\$ 900	247.6	\$ 222,840
	Bituminous Prime Coat	TN	\$ 900	31.3	\$ 28,170
	Striping and Marking	SF	\$ 5	1,000	\$ 5,000
	Taxiway Markers	EA	\$ 350	10	\$ 3,500
	Tie-Down Anchors	EA	\$ 1,000	36	\$ 36,000
	Coal Tar Pitch Emulsion	GAL	\$ 50	450	\$ 22,500
	Erosion Control & Seeding	LS	\$ 8,000	1	\$ 8,000
	Subtotal				\$ 827,070
4B	Construct 35' x 1,600' Parallel Taxiway (Phase II)				
	Earthwork	CY	\$ 12	13,000	\$ 156,000
	Pavement Edge Drains	LF	\$ 20	2,620	\$ 52,400
	Crushed Base Course (10")	CY	\$ 35	1,920	\$ 67,200
	Bituminous Surface Course (3")	TN	\$ 40	1,102	\$ 44,080
	Bituminous Material	TN	\$ 900	71.7	\$ 64,530
	Bituminous Prime Coat	TN	\$ 900	9.1	\$ 8,190
	Taxiway Striping and Marking	SF	\$ 5	800	\$ 4,000
	Taxiway Markers	EA	\$ 350	30	\$ 10,500
	Erosion Control & Seeding	LS	\$ 6,000	1	\$ 6,000
	Subtotal				\$ 412,900

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4C	FBO Facilities, Access Road & Parking (Phase II)				
	Earthwork	LS	\$ 50,000	1	\$ 50,000
	FBO Heated Hangar Building	SF	\$ 50	7,200	\$ 360,000
	FBO Finished Office Space	SF	\$ 100	2,500	\$ 250,000
	Crushed Base Course (12")	CY	\$ 25	2,520	\$ 63,000
	Bituminous Surface Course (4")	TN	\$ 30	1,696	\$ 50,880
	Bituminous Material	TN	\$ 600	110.2	\$ 66,120
	Bituminous Prime Coat	TN	\$ 900	10.5	\$ 9,450
	Storm Drain Piping & Culverts	LS	\$ 20,000	1	\$ 20,000
	Erosion Control & Seeding	LS	\$ 16,000	1	\$ 16,000
	Subtotal				\$ 885,450
4D	Self- Service Fueling System (Phase II)				
	AvGas Fuel System	LS	\$ 175,000	1	\$ 175,000
	Jet A Fuel System	LS	\$ 200,000	1	\$ 200,000
	Subtotal				\$ 375,000
5A	Construct 75' x 4,200' Runway 14/31 (Phase III)				
	Earthwork	CY	\$ 12	59,000	\$ 708,000
	Mill & Stockpile Existing Pavement	SY	\$ 4	42,100	\$ 168,400
	Pavement Edge Drains	LF	\$ 20	8,260	\$ 165,200
	Crushed Base Course (10")	CY	\$ 35	10,500	\$ 367,500
	Bituminous Surface Course (3")	TN	\$ 40	6,200	\$ 248,000
	Bituminous Material	TN	\$ 900	403.1	\$ 362,790
	Bituminous Prime Coat	TN	\$ 900	51.1	\$ 45,990
	MIRL Lighting System	LS	\$ 285,000	1	\$ 285,000
	Safety Area Markers	EA	\$ 350	20	\$ 7,000
	New NAVAIDs (PAPIs & Wind Cone)	LS	\$ 50,000	1	\$ 50,000
	Runway Striping and Marking	SF	\$ 5	21,168	\$ 105,840
	Signing	EA	\$ 2,500	3	\$ 7,500
	Storm Drain Piping & Culverts	LS	\$ 65,000	1	\$ 65,000
	Erosion Control & Seeding	LS	\$ 35,000	1	\$ 35,000
	Subtotal				\$ 2,621,220
5B	Construct 35' Parallel Taxiway to 4,200' (Phase III)				
	Earthwork	CY	\$ 12	14,000	\$ 168,000
	Pavement Edge Drains	LF	\$ 20	3,769	\$ 75,380
	Crushed Base Course (10")	CY	\$ 35	3,000	\$ 105,000
	Bituminous Surface Course (3")	TN	\$ 40	1,728	\$ 69,120
	Bituminous Material	TN	\$ 900	112.2	\$ 100,980
	Bituminous Prime Coat	TN	\$ 900	14.2	\$ 12,780
	Taxiway Striping and Marking	SF	\$ 5	3,379	\$ 16,895
	Taxiway Markers	EA	\$ 350	79	\$ 27,650
	Drainage & Culverts	LS	\$ 35,000	1	\$ 35,000
	Erosion Control & Seeding	LS	\$ 15,000	1	\$ 15,000
	Subtotal				\$ 625,805

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6A	500' Runway Extension To 4,700' (Ultimate)				
	Earthwork	CY	\$ 12	7,000	\$ 84,000
	Pavement Edge Drains	LF	\$ 20	965	\$ 19,300
	Crushed Base Course (10")	CY	\$ 35	1,250	\$ 43,750
	Bituminous Surface Course (3")	TN	\$ 40	740	\$ 29,600
	Bituminous Material	TN	\$ 900	48.0	\$ 43,200
	Bituminous Prime Coat	TN	\$ 900	6.1	\$ 5,490
	MIRL Lighting Extension	LS	\$ 30,000	1	\$ 30,000
	Safety Area Markers	EA	\$ 350	4	\$ 1,400
	Relocate PAPI	LS	\$ 6,000	1	\$ 6,000
	Runway Striping and Marking	SF	\$ 5	6,817	\$ 34,085
	Relocate Signing	EA	\$ 1,500	1	\$ 1,500
	Erosion Control & Seeding	LS	\$ 10,000	1	\$ 10,000
	Subtotal				\$ 308,325
6B	500' Taxiway Extension (Ultimate)				
	Earthwork	CY	\$ 12	4,000	\$ 48,000
	Pavement Edge Drains	LF	\$ 20	1,335	\$ 26,700
	Crushed Base Course (10")	CY	\$ 35	920	\$ 32,200
	Bituminous Surface Course (3")	TN	\$ 40	530	\$ 21,200
	Bituminous Material	TN	\$ 900	34.3	\$ 30,870
	Bituminous Prime Coat	TN	\$ 900	4.3	\$ 3,870
	Taxiway Striping and Marking	SF	\$ 5	500	\$ 2,500
	Taxiway Markers	EA	\$ 350	23	\$ 8,050
	Drainage & Culverts	LS	\$ 10,000	1	\$ 10,000
	Erosion Control & Seeding	LS	\$ 10,000	1	\$ 10,000
	Subtotal				\$ 193,390
7	Fencing				
	Remove Existing Fencing	LF	\$ 4	650	\$ 2,600
	Install New Perimeter Wildlife Fence	LF	\$ 20	15,490	\$ 309,800
	Subtotal				\$ 312,400

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Item	Description of Pay Items	Unit	Unit Price	Qty	Total Cost
Summary of Site 1, Option B Development Costs					
	Environmental, Land Acquisition, Utility Relocations & Obstruction Clearing				\$ 5,594,447
	Phase II Development				\$ 2,500,420
	Phase III Development				\$ 3,247,025
	Ultimate Runway Extension				\$ 501,715
	Perimeter Wildlife Fencing				\$ 312,400
	Subtotal - All Development				\$ 12,156,007
	Engineering, Bidding, and Construction Administration (12.5%)				\$ 1,519,501
	Contingency (20%)				\$ 2,431,201
	Total Development Cost - Site 1, Option B				\$ 16,106,700
	Less Ineligible Development				
	Radio Tower Acquisition				\$ (200,000)
	Phase II FBO Facilities				\$ (885,450)
	Total Eligible Development Cost - Site 1, Option B				\$ 15,021,250
	Federal Share of Site 1, Option B (90%)				\$ 13,519,125
	Local Share of Site 1, Option B (10%)				\$ 2,587,575



LEGEND

- EXISTING AIRPORT BOUNDARY
- PROPOSED AIRPORT BOUNDARY
- RUNWAY PROTECTION ZONE
- BASE DEVELOPMENT- RUNWAY, TAXIWAY, APRON, & HANGAR AREAS ARC: B-II; 95% LENGTH= 4200'
- ULTIMATE RUNWAY EXTENSION 100% LENGTH = 4700'
- AVIGATION EASEMENT
- LAND TO BE ACQUIRED

SCALE: 1"=300 FEET (FULL SIZE)

0 150 300 600

REV'D	DATE	DESCRIPTION	DWN.	CHK'D	APPR.
SE Stelling Engineers, INC.					SHEET NO.
KALISPELL CITY AIRPORT FLATHEAD COUNTY KALISPELL, MONTANA					A
SITE 1, OPTION B					
FILE NO.:	CHK'D BY:	PROJECT NO.:	DATE:		
DRAWN BY: RCB	JJW	0043	04/04/12		