

ESTIMATED DEVELOPMENT COST - SITE 5, OPTION A

Kalspell Airport Master Plan Update

March, 2012

Item	Description of Pay Items	Unit	Unit Price	Qty	Total Cost
1	Environmental				
	Environmental Assessment	LS	\$ 120,000	1	\$ 120,000
	Subtotal				\$ 120,000
2	Land Acquisition				
	Undeveloped Land Acquisition	AC	\$ 16,000	252	\$ 4,032,000
	Remove Structures (Buildings)	LS	\$ 60,000	1	\$ 60,000
	Subtotal				\$ 4,092,000
3	Extend Utilities (Ineligible)				
	Water Main	LF	\$ 40	9,500	\$ 380,000
	Sewer Main/FM	LF	\$ 40	9,500	\$ 380,000
	Sewage Lift Station	EA	\$ 1	50,000	\$ 50,000
	Power/Phone	LF	\$ 20	4,200	\$ 84,000
	Easements	AC	\$ 10,000	4	\$ 43,618
	Replace Farm Fencing	LF	\$ 8	5,300	\$ 42,400
	Subtotal				\$ 980,018
4	Obstruction Clearing				
	Remove Trees	Tree	\$ 6,000	1	\$ 6,000
	Subtotal				\$ 6,000
5A	Construct 75' x 4,200' Runway (Initial Development)				
	Earthwork	CY	\$ 12	59,000	\$ 708,000
	Pavement Edge Drains	LF	\$ 20	8,260	\$ 165,200
	Crushed Base Course (10")	CY	\$ 35	10,750	\$ 376,250
	Bituminous Surface Course (3")	TN	\$ 40	6,370	\$ 254,800
	Bituminous Material	TN	\$ 900	414.1	\$ 372,690
	Bituminous Prime Coat	TN	\$ 900	52.4	\$ 47,160
	MIRL Lighting System	LS	\$ 250,000	1	\$ 250,000
	Safety Area Markers	EA	\$ 350	20	\$ 7,000
	New NAVAIDs (PAPIs, Beacon, Windcone)	LS	\$ 100,000	1	\$ 100,000
	Runway Striping and Marking	SF	\$ 5	14,762	\$ 73,810
	Signing	EA	\$ 2,500	3	\$ 7,500
	Drainage & Culverts	LS	\$ 65,000	1	\$ 65,000
	Erosion Control & Seeding	LS	\$ 35,000	1	\$ 35,000
	Subtotal				\$ 2,462,410
5B	Construct 35' x 4,200' Parallel Taxiway (Initial Development)				
	Earthwork	CY	\$ 12	38,000	\$ 456,000
	Pavement Edge Drains	LF	\$ 20	9,400	\$ 188,000
	Crushed Base Course (10")	CY	\$ 35	5,480	\$ 191,800
	Bituminous Surface Course (3")	TN	\$ 40	3,330	\$ 133,200
	Bituminous Material	TN	\$ 900	216.5	\$ 194,850
	Bituminous Prime Coat	TN	\$ 900	27.4	\$ 24,660
	Taxiway Striping and Marking	SF	\$ 5	4,300	\$ 21,500
	Taxiway Markers	EA	\$ 350	110	\$ 38,500
	Drainage & Culverts	LS	\$ 35,000	1	\$ 35,000
	Erosion Control & Seeding	LS	\$ 20,000	1	\$ 20,000
	Subtotal				\$ 1,303,510

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5C	Apron (Initial Development)				
	Earthwork	CY	\$ 12	12,000	\$ 144,000
	Pavement Edge Drains	LF	\$ 20	1,416	\$ 28,320
	Crushed Base Course (10")	CY	\$ 35	7,570	\$ 264,950
	Bituminous Surface Course (3")	TN	\$ 40	4,572	\$ 182,880
	Bituminous Material	TN	\$ 900	297.2	\$ 267,480
	Bituminous Prime Coat	TN	\$ 900	37.6	\$ 33,840
	Striping and Marking	SF	\$ 5	7,000	\$ 35,000
	Taxiway Markers	EA	\$ 350	12	\$ 4,200
	Tie-Down Anchors	EA	\$ 750	117	\$ 87,750
	Coal Tar Pitch Emulsion	GAL	\$ 50	240	\$ 12,000
	Erosion Control & Seeding	LS	\$ 10,000	1	\$ 10,000
	Subtotal				\$ 1,070,420
5D	Taxilanes & Hangar Development Areas (Initial Development)				
	Earthwork	CY	\$ 12	11,000	\$ 132,000
	Pavement Edge Drains	LF	\$ 20	2,742	\$ 54,840
	Crushed Base Course (10")	CY	\$ 35	1,780	\$ 62,300
	Bituminous Surface Course (3")	TN	\$ 40	1,023	\$ 40,920
	Bituminous Material	TN	\$ 900	66.5	\$ 59,850
	Bituminous Prime Coat	TN	\$ 900	8.4	\$ 7,560
	Taxiway Striping and Marking	SF	\$ 5	1,600	\$ 8,000
	Drainage & Culverts	LS	\$ 10,000	1	\$ 10,000
	Erosion Control & Seeding	LS	\$ 6,000	1	\$ 6,000
	Subtotal				\$ 381,470
5E	FBO Facilities, Access Road & Parking (Initial Development)				
	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
5F	Self-Service Fueling System (Initial Development)				
	AvGas Fuel System	LS	\$ 175,000	1	\$ 175,000
	Jet A Fuel System	LS	\$ 200,000	1	\$ 200,000
	Subtotal				\$ 375,000

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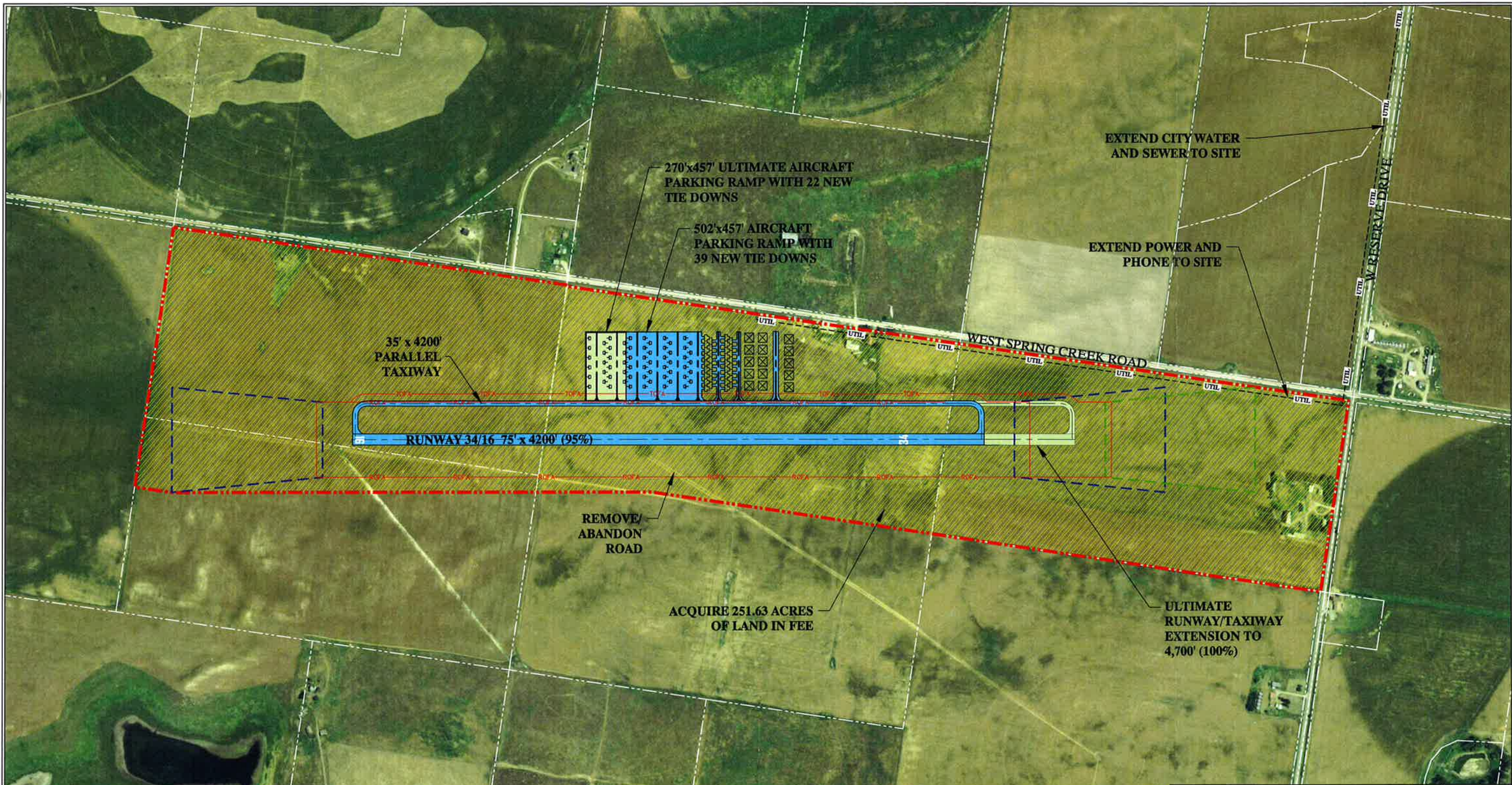
Item	Description of Pay Items	Unit	Unit Price	Qty	Total Cost
6A	500' Runway Extension To 4,700' (Ultimate)				
	Earthwork	CY	\$ 12	7,000	\$ 84,000
	Pavement Edge Drains	LF	\$ 20	965	\$ 19,300
	Crushed Base Course (10")	CY	\$ 35	1,250	\$ 43,750
	Bituminous Surface Course (3")	TN	\$ 40	740	\$ 29,600
	Bituminous 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
	Recloate 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
6C	Apron Expansion (Ultimate)				
	Earthwork	CY	\$ 12	7,000	\$ 84,000
	Pavement Edge Drains	LF	\$ 20	730	\$ 14,600
	Crushed Base Course (10")	CY	\$ 35	4,025	\$ 140,875
	Bituminous Surface Course (3")	TN	\$ 40	2,430	\$ 97,200
	Bituminous Material	TN	\$ 900	157.9	\$ 142,110
	Bituminous Prime Coat	TN	\$ 900	20.0	\$ 18,000
	Striping and Marking	SF	\$ 5	3,800	\$ 19,000
	Taxiway Markers	EA	\$ 350	7	\$ 2,450
	Tie-Down Anchors	EA	\$ 750	66	\$ 49,500
	Coal Tar Pitch Emulsion	GAL	\$ 50	142	\$ 7,100
	Erosion Control & Seeding	LS	\$ 10,000	1	\$ 10,000
	Subtotal				\$ 584,835
7	Fencing				
	Remove Existing Farm Fence	LF	\$ 4	13,500	\$ 54,000
	Install New Perimeter Wildlife Fence	LF	\$ 20	18,870	\$ 377,400
	Subtotal				\$ 431,400

ESTIMATED DEVELOPMENT COST - SITE 5, OPTION A

Kalispell Airport Master Plan Update

March, 2012

Item	Description of Pay Items	Unit	Unit Price	Qty	Total Cost
Summary of Site 5, Option A Development Costs					
	Environmental, Land Acquisition, Utility Extensions & Obstruction Clearing				\$ 5,198,018
	Initial Development				\$ 6,478,260
	Ultimate Runway Extension & Ramp Expansion				\$ 1,086,550
	Perimeter Wildlife Fencing				\$ 431,400
	Subtotal - All Development				\$ 13,194,228
	Engineering, Bidding, and Construction Administration (12.5%)				\$ 1,649,278
	Contingency (20%)				\$ 2,638,846
	Total Development Cost - Site 5, Option A				\$ 17,482,400
	Less Ineligible Development				
	Extension of City Utilities to Site				\$ 896,018
	Total Eligible Development Cost - Site 5, Option A				\$ 16,586,382
	Federal Share of Site 5, Option A (90%)				\$ 14,045,728
	Local Share of Site 5, Option A (10% plus Ineligible)				\$ 3,436,672



LEGEND

- - - PROPOSED AIRPORT BOUNDARY
- - - RUNWAY PROTECTION ZONE
- ▬ BASE DEVELOPMENT- RUNWAY, TAXIWAY, APRON, & HANGAR AREAS ARC: B-II; 75% LENGTH=4200'
- ▬ ULTIMATE RUNWAY EXTENSION 95% LENGTH = 4700'
- LAND TO BE ACQUIRED

SCALE: 1"=300 FEET (FULL SIZE)

REV'D	DATE	DESCRIPTION	DWN.	CHK'D	APPR.
SE Stelling Engineers, INC.					
KALISPELL CITY AIRPORT FLATHEAD COUNTY KALISPELL, MONTANA					SHEET NO. C
SITE 5, OPTION A					
FILE NO. DRAWN BY: RCB	CHK'D BY: JWJ	PROJECT NO.: 0043	DATE: 04/04/12		