

PHONE (605) 225-1212 TOLL FREE 1-888-378-4394

ATTACHMENT "B"

SUMMARY OF ENGINEERING COSTS

TERMINAL APRON RECONSTRUCTION CALIFORNIA REDWOOD COAST - HUMBOLDT COUNTY AIRPORT MCKINLEYVILLE, CALIFORNIA

			PROJECT TOTAL
SECTION 1			
	PROJECT DEVELOPMENT & ADMINISTRATION (ELEMENT 1)	\$159,668.61	
	PRELIMINARY DESIGN (ELEMENT 1)	\$148,335.50	
	FINAL DESIGN (ELEMENT 1)	\$71,271.64	
	PROJECT CLOSEOUT (ELEMENT 1)	\$8,286.40	
	SPECIAL SERVICES (ELEMENT 1)	\$90,300.00	
	LUMP SUM TOTAL	\$477,862.15	\$477,862.15
SECTION 2			
	BIDDING SERVICES	\$0.00	
	LUMP SUM TOTAL	\$0.00	\$0.00
SECTION 3			
	CONSTRUCTION ADMINISTRATION		
	COSTS	\$0.00	
	**FIXED FEE	\$0.00	
	TOTAL	\$0.00	\$0.00
SECTION 4			
	CONSTRUCTION OBSERVATION		
	COSTS	\$0.00	
	**FIXED FEE	\$0.00	
	TOTAL	\$0.00	\$0.00

ATTACHMENT "B" SECTION I, PHASE I

TERMINAL APRON RECONSTRUCTION CALIFORNIA REDWOOD COAST - HUMBOLDT COUNTY AIRPORT PROJECT DEVELOPMENT & ADMINISTRATION (ELEMENT 1)

Proj. Proj. Proj. Land Tech. Tech. Project Clerical Engr. IV Surveyor II Work Description Man. Man. / Assoc Engr. I Ш Administrato II (hrs) (hrs) (hrs) (hrs) (hrs) (hrs) (hrs) (hrs) (hrs) 1 Conduct PreDesign Conference 2 Develop Prelim Cost Estimates and Concept Layouts 3 Develop Detailed SOW 4 Develop Detailed Fee Estimate 5 Coordinate Subconsultant Fee Proposals 6 Prepare Documents and Assist with IFE 7 Conduct Fee Negotiations and Prepare RON Prepare Final Agreement and Coordinate Final Approval and Signatures 9 Prepare Prelim FAA Grant Application Prepare Monthly Invoicing and FAA Grant Drawdown Packets 11 Project Management and Administration a. Internal Progress Meetings b. Conduct Coordination Meetings c. Project Correspondence d. Perfom Business Aspects of Project e. Perform Grant Admin

12 Prepare and Coordinate Subconsultant Agreements		6	0		0	0	0
13 Prepare Project Management and QC Plan	1	4	8		0	0	0
14 Participate in Airport Users Group Meetings	1	0	32		32	0	0
TOTAL HOURS		41	154		152	0	0
		Hours			Rate \$/hr		
Project Manager		41	@	\$	115.00	=	\$ 4,715.00
Project Manager / Associate		154	@	\$	95.00	=	\$ 14,630.00
Project Engineer I		152	@	\$	49.00	=	\$ 7,448.00
Project Engineer IV		0	@	\$	40.00	=	\$ -
Land Surveyor II		0	@	\$	45.80	=	\$ -
Technician III		0	@	\$	36.00	=	\$ -
Technician I		56	@	\$	38.00	=	\$ 2,128.00
Project Administrator		24	@	\$	47.00	=	\$ 1,128.00
Clerical II		30	@	\$	22.30	=	\$ 669.00
				SU	BTOTAL (1))	\$ 30,718.00
TOTAL DIRECT LABOR COST			Subtotal (1)			=	\$ 30,718.00
DIRECT LABOR OVERHEAD	\$	30,718.00	wages x		0.68594	=	\$ 21,070.70
GENERAL & ADMIN. OVERHEAD	\$	30,718.00	wages x		1.19557	=	\$ 36,725.52
				SU	BTOTAL (2))	\$ 88,514.22
PROFIT (P) AT 15% OF SUBTOTAL (2)		0.15	(P) x	\$	88,514.22	=	\$ 13,277.13
COST OF MONEY @ 2.303% OF SUBTOTAL (1) 0.02303	3 x			\$	30,718.00	=	\$ 707.44
MILEAGE		0	Mi. @	\$	0.3346	=	\$ -
ADDITIONAL COSTS:				Me	als	=	\$ 1,062.00
				Loc	lging	=	\$ 1,284.00
				Air	fare	=	\$ 7,500.00
				Rei	ntal Car	=	\$ 1,350.00

TOTAL \$ 113,694.79 *REVISED TOTAL \$ 159,668.61

OUTSIDE CONSULTANT @ COST

A-9573 B-1

^{*}Revised Total is the difference in Annual Median Wages for South Dakota and California for Civil Engineers as reported by the Bureau of Labor Statistics

ATTACHMENT "B" SECTION I, PHASE II

TERMINAL APPON RECONSTRUCTION CALIFORNIA REDWOOD COAST - HUMBOLDT COUNTY AIRPORT PRELIMINARY DESIGN (ELEMENT 1)

	Proj.	Proj.	Proj.	Proj.	Land	Tech.	Tech.	Project	Clerical
Work Description	Man.	Man. / Assoc	Engr. I	Engr. IV	Surveyor II	III	I	Administrator	II
	(hrs)	(hrs)	(hrs)	(hrs)	(hrs)	(hrs)	(hrs)	(hrs)	(hrs)
1 Prepare Requirements for Design Survey	0	2	4	0	0	0	4	0	0
2 Prepare Requirements for Geotech Investigation	0	2	4	0	0	0	4	0	0
3 Prepare Overall CSPP	0	4	16	0	0	0	32	0	0
4 Analyze and Process Topo Survey Data	0	0	4	0	0	0	32	0	0
5 Analyze and Process Goetech Data	0	2	16	0	0	0	8	0	0
6 Prepare Pavement Section Design	0	4	16	0	0	0	0	0	0
7 Review and Evaluate Project Layout	0	4	16	0	0	0	8	0	0
8 Evaluate Local Conditions	0	24	40	0	0	0	0	0	0
9 Prepare Prelim Construction Plans	0	4	24	0	0	0	216	0	0
10 Prepare Prelim Contract Docs	0	4	24	0	0	0	0	0	0
11 Prepare Prelim Tech Specs	0	4	32	0	0	0	0	0	0
12 Prepare Prelim Special Provisions	0	2	16	0	0	0	0	0	0
13 Prepare FAA MOS	0	6	12	0	0	0	4	0	0
14 Conduct Prelim Review of Documents	0	4	8	0	0	0	8	0	8

232

0

0

316

	Hours		R			
Project Manager	0	@	\$	115.00	=	\$ -
Project Manager / Associate	66	@	\$	95.00	=	\$ 6,270.00
Project Engineer I	232	@	\$	49.00	=	\$ 11,368.00
Project Engineer IV	0	@	\$	40.00	=	\$ -
Land Surveyor II	0	@	\$	45.80	=	\$ -
Technician III	0	@	\$	36.00	=	\$ -
Technician I	316	@	\$	38.00	=	\$ 12,008.00
Project Administrator	0	@	\$	47.00	=	\$ -
Clerical II	8	@	\$	22.30	=	\$ 178.40

			SUBTOTAL (1)		\$	29,824.40
TOTAL DIRECT LABOR COST		Subtotal (1)		=	\$	29,824.40
DIRECT LABOR OVERHEAD	\$ 29,824.40	wages x	0.68594	=	\$	20,457.75
GENERAL & ADMIN. OVERHEAD	\$ 29,824.40	wages x	1.19557	=	\$	35,657.16
			SUPTOTAL (2)		¢	95 020 21

		SUBTOTAL (2)		\$ 85,939.31
PROFIT (P) AT 15% OF SUBTOTAL (2)	0.15 (P) x	\$ 85,939.31	=	\$ 12,890.90
COST OF MONEY @ 2.303% OF SUBTOTAL (1) 0.02303 x		\$ 29,824.40	=	\$ 686.86
MILEAGE	0 Mi. @	\$ 0.3346	=	\$ -
ADDITIONAL COSTS:		Meals	=	\$ 354.00
		Lodging	=	\$ 428.00
		Airfare	=	\$ 2,500.00
		Rental Car	=	\$ 900.00
OUTSIDE CONSULTANT @ COST			=	\$ -

TOTAL \$ 103,699.07 *REVISED TOTAL \$ 148,335.50

TOTAL HOURS

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^{*}Revised Total is the difference in Annual Median Wages for South Dakota and California for Civil Engineers as reported by the Bureau of Labor Statistics

ATTACHMENT "B" SECTION 1, PHASE III TERMINAL APRON RECONSTRUCTION CALIFORNIA REDWOOD COAST - HUMBOLDT COUNTY AIRPORT FINAL DESIGN (ELEMENT 1)

	Proj.	Proj.	Proj.	Proj.	Land	Tech.	Tech.	Project	Clerical
Work Description	Man.	Man. / Assoc	Engr. I	Engr. IV	Surveyor II	III	I	Administrator	II
	(hrs)	(hrs)	(hrs)	(hrs)	(hrs)	(hrs)	(hrs)	(hrs)	(hrs)
1 Incorporate prelim design comments	0	0	16	0	0	0	24	0	0
2 Calculate Estimated Quantities	0	0	8	0	0	0	0	0	0
3 Prepare Estimate of Probable Const Cost	0	4	8	0	0	0	0	0	0
4 Prepare Engineer's Design Report	0	4	32	0	0	0	0	0	0
5 Develop Work Schedules	2	4	8	0	0	0	0	0	0
6 Submit Final CSPP	0	0	8	0	0	0	24	0	0
7 Prepare 95% Design/Bid Documents	0	2	8	0	0	0	0	0	0
8 Submit 95% Design/Bid Documents	0	2	8	0	0	0	0	0	0
9 Incorporate 95% Design Review Comments	0	0	16	0	0	0	24	0	0
10 Conduct Final Internal Review of Design Documents	0	20	20	0	0	0	4	0	0
11 Prepare and Submit Final Design/Bid Documents	0	0	8	0	0	0	8	0	8

10 Conduct Final Internal Review of Design Documents	0	20		20	0		0
11 Prepare and Submit Final Design/Bid Documents	0	0		8	0		0
TOTAL HOURS	2	36		140	0		0
	Hours			Rate \$/hr			
Project Manager	2	@	\$	115.00	=	\$	230.00
Project Manager / Associate	36	@	\$	95.00	=	\$	3,420.00
Project Engineer I	140	@	\$	49.00	=	\$	6,860.00
Project Engineer IV	0	@	\$	40.00	=	\$	-
Land Surveyor II	0	@	\$	45.80	=	\$	-
Technician III	0	@	\$	36.00	=	\$	-
Technician I	84	@	\$	38.00	=	\$	3,192.00
Project Administrator	0	@	\$	47.00	=	\$	-
Clerical II	8	@	\$	22.30	=	\$	178.40
			SU	BTOTAL (1)		\$	13,880.40
TOTAL DIRECT LABOR COST		Subtotal (1)			=	\$	13,880.40
DIRECT LABOR OVERHEAD	\$ 13,880.40	wages x		0.68594	=	\$	9,521.12
GENERAL & ADMIN. OVERHEAD	\$ 13,880.40	wages x		1.19557	=	\$	16,594.99
			SU	BTOTAL (2)		\$	39,996.51
PROFIT (P) AT 15% OF SUBTOTAL (2)	0.15	(P) x	\$	39,996.51	=	\$	5,999.48
COST OF MONEY @ 2.303% OF SUBTOTAL (1) 0.02303 x			\$	13,880.40	=	\$	319.67
MILEAGE	0	Mi. @	\$	0.3346	=	\$	-
ADDITIONAL COSTS:			Me	als	=	\$	354.00
			Loc	lging	=	\$	428.00
			Air	fare	=	\$	2,500.00
			-	. 1.0		d	000.00

TOTAL 50,497.66 *REVISED TOTAL 71,271.64

900.00

Rental Car

84

0

OUTSIDE CONSULTANT @ COST

A-9573 B-3

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ATTACHMENT "B" SECTION I, PHASE IV TERMINAL APRON RECONSTRUCTION CALIFORNIA REDWOOD COAST - HUMBOLDT COUNTY AIRPORT PROJECT CLOSEOUT (ELEMENT 1)

Work Description	Proj. Man. (hrs)	Proj. Man. / Assoc (hrs)	Е	Proj. Engr. I (hrs)	Proj. Engr. IV (hrs)	S	Land urveyor II (hrs)	Tech. III (hrs)	Tech. I (hrs)	Project Administrator (hrs)	Clerical II (hrs)
1 Assist Sponsor with Grant Closeout Docs	0	0		16	0		0	0	0	16	8
TOTAL HOURS	0	0		16	0		0	0	0	16	8
	Hours		Ra	ate \$/hr							
Project Manager	0	@	\$	115.00	=	\$	-				
Project Manager / Associate	0	@	\$	95.00	=	\$	-				
Project Engineer I	16	@	\$	49.00	=	\$	784.00				
Project Engineer IV	0	@	\$	40.00	=	\$	-				
Land Surveyor II	0	@	\$	45.80	=	\$	-				
Technician III	0	@	\$	36.00	=	\$	-				
Technician I	0	@	\$	38.00	=	\$	-				
Project Administrator	16	@	\$	47.00	=	\$	752.00				
Clerical II	8	@	\$	22.30	=	\$	178.40				
			SUBT	TOTAL (1)		\$	1,714.40				
TOTAL DIRECT LABOR COST		Subtotal (1)			=	\$	1,714.40				
DIRECT LABOR OVERHEAD	,			0.68594	=	\$	1,175.98				
GENERAL & ADMIN. OVERHEAD	1,714.40	wages x		1.19557		\$	2,049.69				
			SUBT	TOTAL (2)		\$	4,940.07			Administrator (hrs)	
PROFIT (P) AT 15% OF SUBTOTAL (2)	0.15	(P) x	\$	4,940.07	=	\$	741.01				
COST OF MONEY @ 2.303% OF SUBTOTAL (1) 0.02303 x			\$	1,714.40	=	\$	39.48				
MILEAGE	0	Mi. @	\$	0.3346	=	\$	-				
ADDITIONAL COSTS:			Meals		=	\$	-				
			Lodgi	ng	=	\$	-				
			Airfar	re	=	\$	-				
			Rental	1 Car	=	\$	-				
OUTSIDE CONSULTANT @ COST					=	\$	-				
		*RE	TOTA VISEI	AL D TOTAL		\$ \$	5,720.56 8,286.40				

^{*}Revised Total is the difference in Annual Median Wages for South Dakota and California for Civil Engineers as reported by the Bureau of Labor Statistics

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ATTACHMENT "B" SECTION I, PHASE V TERMINAL APRON RECONSTRUCTION CALIFORNIA REDWOOD COAST - HUMBOLDT COUNTY AIRPORT SPECIAL SERVICES (ELEMENT 1)

	Proj.	Proj.		Proj.	Proj.		Land	Tech.	Tech.	Project	Clerical
Vork Description	Man.	Man. / Asso	c	U	-	S			_		II
	(hrs)	(hrs)									(hrs)
1 None	0	0		0	0		0	0	0	0	0
TOTAL HOURS	0	0		0	0		0	0	0	0	0
	Hours		R	tate \$/hr							
Project Manager	0	@	\$	115.00	=	\$	-				
Project Manager / Associate	0	@	\$	95.00	=	\$	-				
Project Engineer I	0	@	\$	49.00	=	\$	-				
Project Engineer IV	0	@	\$	40.00	=	\$	-				
Land Surveyor II	0	@	\$	45.80	=	\$	-				
Technician III	0	@	\$	36.00	=	\$	-				
Technician I	0	@	\$	38.00	=	\$	-				
Project Administrator	0	@	\$	47.00	=	\$	-				
Clerical II	0	@	\$	22.30	=	\$	-				
TOTAL DIRECT LABOR COST		Subtotal (1)	БСБ	TOTAL (I)	=	\$	_				
DIRECT LABOR OVERHEAD	\$	- wages x		0.68594			_				
GENERAL & ADMIN. OVERHEAD	\$	- wages x		1.19557	=	\$	-				
			SUB	Engr. I (hrs)							
PROFIT (P) AT 15% OF SUBTOTAL (2)		0.15 (P) x	\$	_	=	\$					
COST OF MONEY @ 2.303% OF SUBTOTAL (1) 0.02303		(-)	\$	_	=		_				
MILEAGE		0 Mi. @	\$	0.3346	=		_				
ADDITIONAL COSTS:					=		_				
							_				
							_				
							_				
TOPOGRAPHICAL/LAND SURVEY @ COST							15.700.00				
GEOTECHNICAL INVESTIGATION @ COST							,				
							.,,				
		*R	EVISE	D TOTAL		\$	90,300.00				

^{*}Revised Total is the difference in Annual Median Wages for South Dakota and California for Civil Engineers as reported by the Bureau of Labor Statistics

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