Detailed Engineering Fee Breakout

AIRPORT: CA Redwood Coast - Humboldt Co Airport LOCATION: McKinleyville, California
AIP GRANT NO.: TBD

ACI PROJECT NUMBER: 22795 DATE: 6/6/24 REV. NO: 1

PROJECT DESCRIPTION: Reconstruct/Relocate Taxiway A (CatEx and Design)

Note: This spreadsheet is provided to show how the lump sum totals for each phase have been established. The monthly billing will be a simple percentage of each phases total lump sum amount.

	Proposed	Independent	Negotiated
	Fee	Fee Analysis	Fee
PROJECT DEVELOPMENT & ADMINISTRATION (ELEMENT 1)	\$77,590.00	\$159,803.84	\$77,590.00
II PRELIMINARY DESIGN (ELEMENT 1)	\$235,260.00	\$192,725.48	\$224,680.00
III FINAL DESIGN (ELEMENT 1)	\$155,370.00	\$66,863.56	\$155,370.00
V PROJECT CLOSEOUT (ELEMENT 1)	\$21,420.00	\$12,017.79	\$21,420.00
V SPECIAL SERVICES (ELEMENT 1)		\$463,793.67	
Categorical Exclusion Form	\$19,900.00		\$19,900.00
DBE Program Assistance	\$8,200.00		\$8,200.00
Title VI Plan Assistance	\$10,700.00		\$10,700.00
Topographical/Land Survey	\$60,900.00		\$60,900.00
Geotechnical Investigation	\$94,200.00		\$94,200.00
Electrical Design	\$247,580.00		\$217,580.00
Utility Investigation	\$13,000.00		\$13,000.00
TOTAL ENGINEERING SERVICES (ELEMENT 1)	\$944,120.00	\$895,204.34	\$903,540.00

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I. PROJECT DEVELOPMENT (ELEMENT 1)

Iten No.		Principal	Project Manager II	Project Manager I	Design Engineer	Design Tech	Project Coordinator	Total	Cost
	PROJECT DEVELOPMENT PHASE	\$335.69	\$316.50	\$271.75	\$211.00	\$159.65	\$156.65	Hours	Summary
1	Conduct PreDesign Conference	2	2					4	\$1,304.38
2	Develop Prelim Cost Estimates and Concept Layouts		2		4	4		10	\$2,115.60
3	Develop Detailed SOW		2					2	\$633.00
4	Develop Detailed Fee Estimate		2					2	\$633.00
5	Coordinate Subconsultant Fee Proposals		4					4	\$1,266.00
6	Prepare Documents and Assist with IFE		1					1	\$316.50
7	Conduct Fee Negotiations and Prepare RON	1	2				1	4	\$1,125.34
8	Prepare Final Agreement and Coordinate Final Approval and Signa	tures	1				1	2	\$473.15
9	Prepare Prelim FAA Grant Application		2				4	6	\$1,259.60
10	Prepare Monthly Invoicing and FAA Grant Drawdown Packets	2	4				8	14	\$3,190.58
11	Project Management and Administration								
	a. Internal Progress Meetings	8	32		32	8		80	\$20,842.72
	b. Conduct Coordination Meetings		8		8			16	\$4,220.00
	c. Project Correspondence	2	12		12		4	30	\$7,627.98
	d. Perfom Business Aspects of Project	2	8		8		8	26	\$6,144.58
	e. Perform Grant Admin	2	8		12		16	38	\$8,241.78
12	Prepare and Coordinate Subconsultant Agreements		8				2	10	\$2,845.30
13	Prepare Project Management and QC Plan	2	8		8		2	20	\$5,204.68
14	Participate in Airport Users Group Meetings		16					16	\$5,064.00
15	Assist with FAA ATO Coordination	3	3					6	\$1,956.57
	Estimated Total Man-hours	24	125	0	84	12	46	291	
	Summary Costs	\$8,056.56	\$39,562.50	\$0.00	\$17,724.00	\$1,915.80	\$7,205.90		\$74,464.76
	Reimbursables								
	Meals and Incidental Expenses Per Diem		2				2 Days	\$59.00	\$118.00
	Lodging Per Diem		2				2 Days	\$107.00	\$214.00
	Rental Car		2				2 Days	\$150.00	\$300.00
	Mileage						0 Miles	\$0.670	\$0.00
	Airfare		2				2 Trips	\$1,250.00	\$2,500.00
	Misc Expenses							Actual Cost	\$0.00
	<u> </u>					Total Proje	ct Developm	nent Phase:	\$77,596.76
	_	·		<u> </u>			·	use	\$77,590.00

II. PRELIMINARY DESIGN (ELEMENT 1)

Item No.	Principal	Project Manager II	Project Manager I	Design Engineer	Design Tech	Project Coordinator	Total	Cost
PRELIMINARY DESIGN PHASE	\$335.69	\$316.50	\$271.75	\$211.00	\$159.65	\$156.65	Hours	Summary
Prepare Requirements for Design Survey		4			8		12	\$2,543.20
Prepare Requirements for Geotech Investigation	1	2	6		2		11	\$2,918.49
3 Prepare Overall CSPP	1	6		24	32	1	64	\$12,564.14
4 Analyze and Process Topo Survey Data	1	12		24	40		77	\$15,583.69
5 Analyze and Process Goetech Data	2	8		24			34	\$8,267.38
6 Prepare Pavement Section Design	2	6		24	2		34	\$7,953.68
7 Review and Evaluate Project Layout	4	32		40	8		84	\$21,187.96
8 Evaluate Local Conditions	2	24		40	6		72	\$17,665.28
9 Prepare Prelim Construction Plans	24	90		160	160		434	\$95,845.56
10 Prepare Prelim Contract Docs	1	4		8		8	21	\$4,542.89
11 Prepare Prelim Tech Specs	2	32		40		16	90	\$21,745.78
12 Prepare Prelim Special Provisions	1	4		12		6	23	\$5,073.59
13 Prepare FAA MOS	2	2		2	2	2	10	\$2,358.98
14 Conduct Prelim Review of Documents	4	4		4			12	\$3,452.76
Estimated Total Man-hours	47	230	6	402	260	33	978	
Summary C	osts \$15,777.43	\$72,795.00	\$1,630.50	\$84,822.00	\$41,509.00	\$5,169.45		\$221,703.38
Reimbursables								
Meals and Incidental Expenses Per D	em	1		1		2 Days	\$59.00	\$118.00
Lodging Per D	iem	1		1		2 Days	\$107.00	\$214.00
Rental	Car	1				1 Days	\$150.00	\$150.00
Mileo	age					0 Miles	\$0.670	\$0.00
Air	are	1		1		2 Trips	\$1,250.00	\$2,500.00
Misc Exper	nses					\$ - /	Actual Cost	\$0.00
_	•	•		•	To	tal Prelim Des	ign Phase:	\$224,685.38

se \$224,680.00

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III. FINAL DESIGN (ELEMENT 1)

Item	THAL DESIGN (ELEMENT 1)	Principal	Project Manager II	Project Manager I	Design Engineer	Design Tech	Project Coordinator	Total	Cost
	FINAL DESIGN PHASE	\$335.69	\$316.50	\$271.75	\$211.00	\$159.65	\$156.65	Hours	Summary
1	Incorporate prelim design comments	•	4		4	4	4	16	\$3,375.20
2	Calculate Estimated Quantities		4		16	16		36	\$7,196.40
3	Prepare Estimate of Probable Const Cost	1	4		12			17	\$4,133.69
4	Prepare Engineer's Design Report	2	8		40	2	4	56	\$12,589.28
5	Develop Work Schedules	1	8		16	16	2	43	\$9,111.39
6	Submit Final CSPP	2	6		16	8	4	36	\$7,850.18
7	Prepare 95% Design/Bid Documents	12	60		120	120	40	352	\$73,762.28
8	Submit 95% Design/Bid Documents		2		2		2	6	\$1,368.30
9	Incorporate 95% Design Review Comments		4		4	4	4	16	\$3,375.20
10	Conduct Final Internal Review of Design Documents	6	6		6			18	\$5,179.14
11	Prepare and Submit Final Design/Bid Documents	8	16		40	40	12	116	\$24,455.32
	Estimated Total Man-hours	32	122	0	276	210	72	712	
	Summary Costs	\$10,742.08	\$38,613.00	\$0.00	\$58,236.00	\$33,526.50	\$11,278.80		\$152,396.38
	Reimbursables								
	Meals and Incidental Expenses Per Diem		1		1		2 Days	\$59.00	\$118.00
	Lodging Per Diem		1		1		2 Days	\$107.00	\$214.00
	Rental Car		1				1 Days	\$150.00	\$150.00
	Mileage			·			0 Miles	\$0.670	\$0.00
	Airfare		1		1		2 Trips	\$1,250.00	\$2,500.00
	Misc Expenses						\$ -	Actual Cost	\$0.00
	_					T	otal Final De	sign Phase:	\$155,378.38
								LISE	\$1.55.370.00

IV. PROJECT CLOSEOUT (ELEMENT 1)

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Item No.		Principal	Project Manager II	Project Manager I	Design Engineer	Design Tech	Project Coordinator	Total	Cost
	PROJECT CLOSEOUT	\$335.69	\$316.50	\$271.75	\$211.00	\$159.65	\$156.65	Hours	Summary
1	Assist Sponsor with Grant Closeout Docs	2	16		16		8	42	\$10,364.58
2	Prelim Coordination for AGIS Survey	4	16		16	8			\$11,059.96
	Estimated Total Man-hours	6	32	0	32	8	8	42	
	Summary Costs	\$2,014.14	\$10,128.00	\$0.00	\$6,752.00	\$1,277.20	\$1,253.20		\$21,424.54
	Reimbursables								
	Meals and Incidental Expenses Per Diem						0 Days	\$59.00	\$0.00
	Lodging Per Diem						0 Days	\$107.00	\$0.00
	Rental Car						0 Days	\$150.00	\$0.00
	Mileage						0 Miles	\$0.670	\$0.00
	Airfare						0 Trips	\$1,250.00	\$0.00
	Misc Expenses						\$ -	Actual Cost	\$0.00
							Total Proje	ct Closeout:	\$21,424.54

use \$21,420.00

V. SPECIAL SERVICES (ELEMENT 1)

Item No.		Principal	Project Manager II	Airport Planner	Env Scientist	Design Tech	Project Coordinator	Total	Cost
	SPECIAL SERVICES - In House	\$335.69	\$316.50	\$236.58	\$191.82	\$159.65	\$156.65	Hours	Summary
1	Categorical Exclusion Form	8	8		60	16	4	96	\$19,907.72
2	DBE Program Assistance	2	2			4	40	48	\$8,208.98
3	Title VI Plan Assistance	2	2				60	64	\$10,703.38
	Estimated Total Man-hours	12	12	0	60	20	104	208	
	Summary Costs	\$4,028.28	\$3,798.00	\$0.00	\$11,509.20	\$3,193.00	\$16,291.60		
	SPECIAL SERVICES - Subconsultant								
	Topographical/Land Survey								\$60,900.00
	Geotechnical Investigation								\$94,200.00
	Electrical Design								\$217,580.00
	Utility Investigation								\$13,000.00

use \$19,900.00 use \$8,200.00 use \$10,700.00