

FEE ESTIMATE WORKSHEET

Project Name

Duluth Aerial Lift Bridge Rehabilitation

LHB Labor Summary

Client
Preparer

**City of Duluth
JDL**



	Project Manager	Sr Project Engineer	Project Engineer	Lead Technician	Technician	Survey Technician	Tech Assist't	Admin.	Labor Costs (\$)
	\$190	\$160	\$135	\$115	\$95	\$105	\$90	\$70	
Task 1 - Design Project Management									
Meetings with City Staff (Est. 8)	12	12	12						\$5,820
Meetings with NPS (Est. 4)	8	8	8						\$3,880
City Meeting and Correspondence Documentation	4	16	12						\$4,940
Internal Team Meetings	8	8	8	8					\$4,800
Task 2 - Environmental Clearance									
Tribal Clearance		3							\$480
Public Informational/ Consultation Meeting	4	8	4	8					\$3,500
Archaeological Site Clearance Submittal		1	3						\$565
Threatened & Endang. Species Review Submittal		1	3						\$565
USACE Permitting		1	3	3					\$910
US Coast Guard Consultation	1	2							\$510
USACE Temp Easement Work	1	3		3					\$1,015
NPS Screening Worksheet and Attachments	1	4	12	16					\$4,290
Prepare Condition Improvement Report	8	24	60	24				10	\$16,920
Assemble Mid-point Submittal for NPS		4		4				2	\$1,240
Assemble Final Submittal for NPS		4		4				2	\$1,240
Address NPS Comments/ Addtl Requirements (est)	2	6	8	8				2	\$3,480
Task 3 - Investigation/ Workslope Refinement									
Field Survey for Approach Work		2			16	16			\$3,520
Survey Mapping		2		16					\$2,160
Abutment Roof Waterproofing Feasibility & Method	4	8	8						\$3,120
Concrete Repair Region Assessment/ Scope	2	4	24	24					\$7,020
Lift Span Truss Strengthening Assessment	4	6	6						\$2,530
Deck Grating Condition Assessment	2	8	20	16					\$6,200
Pathway Reconst Scope Review with Contractors		6	6						\$1,770
Meetings with Painting Contractors (Scope/Interest)		6							\$960
Paint Quantity Calculations/Checking		4	16	60	60				\$15,400
Counterweight Rope Service Assessment	2	4	8	8					\$3,020
Task 4 - Design, Plans and Specifications									
Title Sheet & Index Map	1	1	2	6					\$1,310
Statement of Estimated Quantities/ Notes	3	4	20	40					\$8,510
General Plan, Elevation and Scope of Work	2	4	4	16					\$3,400
North Approach									
North Approach Layout	1	2	4	16					\$2,890
South Approach Layout	1	2	4	16					\$2,890
North Approach Reconstruction Plan	1	4	8	24					\$4,670
South Approach Reconstruction Plan	1	4	8	24					\$4,670
Approach Reconstruction Section	1	2	6	16					\$3,160
Approach Staging Details	2	8	12	24					\$6,040
Approach Reconstruction Details (2 Shts)	1	6	16	48					\$8,830
Abutment/Approach Waterproofing Details (3 Shts)	2	9	36	60					\$13,580
Approach Pathway Layout/ Repair Regions (2 Shts)	1	6	12	32					\$6,450
Approach Pathway Repair Details (2 Shts)	1	6	24	48					\$9,910
Lift Span Steel									
Lift Span Steel Repair Regions (2 Shts)	4	16	24	48					\$12,080
Lift Span Steel Repair Details (4 Shts)	8	32	48	96					\$24,160
Painting									
Proposed Paint Regions	1	2	4	12					\$2,430
Painting Details (2 Shts)	1	4	6	16					\$3,480
Deck Grating									
Deck Grating Workslope	2	4	12	24					\$5,400
Deck Grating Replacement Transverse Section	1	4	8	20					\$4,210
Deck Grating Replacement Longitudinal Section	1	4	8	20					\$4,210
Deck Grating Replacement Details (2 Shts)	2	12	24	48					\$11,060
Concrete Repair									
Concrete Repair Workslope (2 Shts)	4	16	32	64					\$15,000
Concrete Repair Enlarged Region Elevations (3 shts)	2	12	24	60					\$12,440
Concrete Repair Details (3 Shts)	6	16	32	48					\$13,540

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	\$190	\$160	\$135	\$115	\$95	\$105	\$90	\$70	
East Pathway Layout Plan (2 Shts)	2	8	20	40					\$8,960
West Pathway Layout Plan (2 Shts)	2	8	20	40					\$8,960
Existing Pathway Details and Removals (2 Shts)	4	16	32	64					\$15,000
East Pathway Reconstruction Plan (2 Shts)	2	8	20	40					\$8,960
West Pathway Reconstruction Plan (2 Shts)	2	8	20	40					\$8,960
Pathway Support Steel Repair Details (2 Shts)	4	16	32	64					\$15,000
Pathway Support Steel Replacement Details (2 Shts)	4	16	32	64					\$15,000
Pathway Reconstruction Details (6 shts)	8	36	72	144					\$33,560
Pilot House Temporary Access Details	1	2	12	16					\$3,970
Traffic Control	1	4	6	16					\$3,480
Traffic Control Section	1	4	6	16					\$3,480
Traffic Control Details	1	4	6	16					\$3,480
As-Built Bridge Data				2					\$230
Special Provisions	8	24	24					16	\$9,720
Engineers Estimate	4	16	16	12					\$6,860
Prepare State Aid Submittal & Forms		2	4	2					\$1,090
Total Hours	157	507	921	1604	76	16	0	32	
Travel	Miles	# Trips	Rate	Cost	Direct Costs	Cost	Labor		\$430,885
Mileage per IRS Std Rate				\$50	Survey Equip	\$300	Travel Costs		\$50
					H&H Ctrwt Ropes	\$4,000	Direct Costs		\$4,300
Total Travel Costs				\$50	Total Direct	\$4,300			
Total Not To Exceed Cost									\$435,235