



APPENDIX B
**COST ESTIMATES
BY TYPE OF
BICYCLE FACILITY**

Bike Plan
Hawaii

J. UNO & ASSOCIATES, INC.

COST ANALYSIS

PROJECT: **BIKE PLAN HAWAII**
LOCATION: VARIOUS LOCATIONS
ARCHITECT: KIMURA INTERNATIONAL, INC.
PREPARED BY: J. UNO

DATE: July 2, 2002

DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL COST
BIKE ROUTE- Signed, Shared Roadways				
Class 'A' - Minor Work				
Add Signage, per mile assumes 1 sign per 1,000 ft.	5	ea	\$250.00	\$1,250
Class 'B' - Significant Work Required				
Clear, Weed Shoulders, 4' wide	21,120	sf	\$0.12	\$2,534
Paint Stripes	10,560	lf	\$1.25	\$13,200
Add Signage, per mile assumes 1 sign per 1,000 ft.	5	ea	\$250.00	\$1,250
Subtotal, per mile				\$16,984
Class 'C' - New Facility Required				
Clear & Grub Shoulders, 6' wide	31,680	sf	\$0.16	\$5,069
Excavation & Embankment	1,175	cy	\$22.50	\$26,438
Fine Grade, Compact Shoulders	31,680	sf	\$0.40	\$12,672
A.C. Pavement, 4' wide	21,120	sf	\$2.50	\$52,800
Paint Stripes	10,560	lf	\$1.25	\$13,200
Add Signage, per mile assumes 1 sign per 1,000 ft.	5	ea	\$250.00	\$1,250
Subtotal, per mile				\$111,428

Assumes one side of the proposed route only.
Assumes Private Contractor selected by competitive bid.
Assumes Oahu Costs, Add 15% for Hawaii, Maui & Kauai.
Assumes no stream crossings, retaining or fill conditions.
Assumes average site accessibility.
No Engineering, Right of Way, Legal or other "soft" costs
have been included.

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DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL COST
BIKE LANES - Exclusive, Striped Lane with Painted Icon				
Class 'A' - Minor Work Required				
Sweep, Clear Existing Bike Lane	21,120	sf	\$0.02	\$422
Touch Up Stripes, 15%	1,584	lf	\$1.25	\$1,980
Touch Up Icons	10	ea	\$35.00	\$350
Add Signage, per mile assumes 1 sign per 1,000 ft.	5	ea	\$250.00	\$1,250
Subtotal, per mile				\$4,002
Class 'B' - Significant Work Required				
Sweep, Clear Existing Bike Lane	21,120	sf	\$0.02	\$422
Paint Stripes	10,560	lf	\$1.25	\$13,200
Paint Icons	10	ea	\$35.00	\$350
Add Signage, per mile assumes 1 sign per 1,000 ft.	5	ea	\$250.00	\$1,250
Subtotal, per mile				\$15,222
Class 'C' - New Facility Required				
Demolish Existing Curb, Gutter & Sidewalk	26,400	sf	\$1.20	\$31,680
Clear & Grub Shoulders	63,360	sf	\$0.16	\$10,138
Excavation & Embankment	2,350	cy	\$22.50	\$52,875
Fine Grade, Compact Shoulders	63,360	sf	\$0.40	\$25,344
Relocate Utilities	1	ls	\$55,000.00	\$55,000
Concrete Sidewalk	21,120	sf	\$4.50	\$95,040
Concrete Curb & Gutter	5,280	lf	\$16.00	\$84,480
A.C. Pavement	36,960	sf	\$2.50	\$92,400
Paint Stripes	10,560	lf	\$1.25	\$13,200
Paint Icons	10	ea	\$35.00	\$350
Add Signage, per mile assumes 1 sign per 1,000 ft.	5	ea	\$250.00	\$1,250
Subtotal, per mile				\$430,077

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DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL COST
BIKE PATHS, Shared Use Paths				
Class 'A' - Minor Work Required				
Clear, Weed Existing Path, 5' wide	26,400	sf	\$0.12	\$3,168
Add Signage, per mile assumes 1 sign per 1,000 ft.	5	ea	\$250.00	\$1,250
Subtotal, per mile				\$4,418
Class 'B' - Significant Work Required				
Fine Grade, Compact Path	73,920	sf	\$0.40	\$29,568
A.C. Pavement	52,800	sf	\$2.50	\$132,000
Paint Stripes	10,560	lf	\$1.25	\$13,200
Paint Icons	10	ea	\$35.00	\$350
Add Signage, per mile assumes 1 sign per 1,000 ft.	5	ea	\$250.00	\$1,250
Subtotal, per mile				\$176,368
Class 'C' - New Facility Required				
Clear & Grub Path	73,920	sf	\$0.16	\$11,827
Excavation & Embankment	3,900	cy	\$22.50	\$87,750
Fine Grade, Compact Path	73,920	sf	\$0.40	\$29,568
A.C. Pavement	52,800	sf	\$2.50	\$132,000
Paint Stripes	10,560	lf	\$1.25	\$13,200
Paint Icons	10	ea	\$35.00	\$350
Add Signage, per mile assumes 1 sign per 1,000 ft.	5	ea	\$250.00	\$1,250
Subtotal, per mile				\$264,118
