Appendix A: Cost Estimates Table

					Olass III	Devertors			Oma s a la sa	One to T
Bikeway				Class I	Class III Bike Route	Barrier Separation (per	High Visibility Ladder	Traffic Signal	Crossing Railing	One-to-Two Way
Type	Description		Project Cost	(per mile)	(per mile)	mile)	Crosswalk (ea)	(ea)	(per foot)	Conversion
31	· ·		,	\$1,200,000	\$15,000	\$105,600	\$1,000	\$300,000	\$50	\$150,000
Seament 1.1	Fruitvale BART Station to 37th Avenue			Ψ1,200,000	Ψ13,000	ψ105,000	Ψ1,000	ψουσίουσ	ψ30	Ψ130,000
Class III	E. 12th: 35th Ave to 37th Ave		\$2,000		0.13					
		Segment Total	\$2,000							
	37th Avenue to 47th Avenue					1				
Class III	E. 12th: 37th Ave to 47th Ave		\$162,000		0.79					
		Segment Total	\$162,000							
Seament 1 3	47th Avenue to Seminary Avenue									
Class III	E. 12th St: 47th Ave to 54th Ave		\$5,000		0.35					
Class III	54th Ave: E. 12th Street to San Leandro St.		\$2,000		0.15					
Class I	San Leandro St: 54th Ave to Seminary Ave		\$457,000	0.35		0.35				
		Segment Total	\$464,000							
	Seminary Avenue to 81st Avenue					ı				
Class I	San Leandro St: Seminary Ave to 66th Ave		\$1,123,000	0.86		0.86				
Class III	66th Ave: San Leandro St to Snell St		\$1,000		0.05					
Class III	Snell St: 66th Ave to 75th Ave		\$4,000		0.28		1			
Class III	75th Ave: Snell St to San Leandro St. San Leandro St: 75th Ave to 81st Ave		\$450 \$326,000	0.25	0.03	0.25				
Class I	Crosswalks		\$326,000	0.25		0.25	4			
	CIUSSWalkS	Segment Total	\$1,458,000				4			
		Segment rotal	ψ1,430,000							
Segment 1.5	81st Avenue to 105th Avenue									
Class I	San Leandro St: 81st Ave to 105th Ave		\$1,828,000	1.40		1.40				
	Crosswalks		\$5,000				5			
		Segment Total	\$1,833,000							
Soamont 2.1	105h Avenue to Peralta Avenue									
Class I	UPRR Oakland Subdivision ROW: 105th Ave to Peralta Ave		\$2,220,000	1.70		1.70				
01033 1	Traffic Signal at 105th Ave		\$300,000	1.70		1.70		1		
	Crosswalks		\$1,000				1			
		Segment Total	\$2,521,000							
	Peralta Avenue to Marina Boulevard								1	
Class I	UPRR Oakland Subdivision ROW: Peralta Ave to Marina Blvd		\$1,632,000	1.25		1.25		_		
	Traffic Signal at Davis Street		\$300,000					1		
	Crosswalks		\$7,000				1		150	
	San Leandro Creek Crossing	Cogment Total	\$8,000						150	
		Segment Total	\$1,947,000]				<u> </u>

APPENDIX A

Bikeway Type	Description	Project Cost	Class I (per mile) \$1,200,000	Class III Bike Route (per mile) \$15,000	Barrier Separation (per mile) \$105,600	High Visibility Ladder Crosswalk (ea) \$1,000	Traffic Signal (ea) \$300,000	Crossing Railing (per foot) \$50	One-to-Two Way Conversion \$150,000
	Marina Boulevard to Hesperian Boulevard								
Class I	UPRR Oakland Subdivision ROW: Marina Blvd to Hesperian Blvd	\$2,285,000	1.75		1.75				
	Washington Ave. overcrossing	\$15,000						300	
	143rd Ave Traffic Signal, Halcyon Drive Traffic Signal	\$600,000					2		
	Crosswalks	\$5,000				5			
	Segment Total	\$2,905,000							
	Hesperian Boulevard to Elgin Way	1							
Class I	UPRR Oakland Subdivision ROW: Hesperian Blvd to Elgin Way	\$1,044,000	0.80		0.80				
	Hesperian Ave Traffic Signal	\$300,000					1		
	Crosswalks	\$1,000				1			
	Estudio Canal Crossing, Bay Fair BART Access Crossing, Thornally Crossing	\$40,000						800	
	Segment Total	\$1,385,000							
Segment 3.2	Elgin Way to Hampton Road								
Class I	UPRR Oakland Subdivision ROW: Elgin Way to Hampton Rd	\$1,044,000	0.80		0.80				
	Ashland Ave Crossing, San Lorenzo Creek Crossing	\$25,000						500	
	E. Lewelling Blvd Traffic Signal	\$301,000				1	1		
	Segment Total	\$1,370,000							
Segment 3.3	Hampton Road to A Street								
Class I	UPRR Oakland Subdivision ROW: Hampton Rd to A Street	\$1,828,000	1.40		1.40				
	Crosswalks	\$6,000				6			
	Segment Total	\$1,834,000							
Segment 3.4	A Street to D Street								
Class I	UPRR Oakland Subdivision ROW: A St to D St	\$457,000	0.35		0.35				
	Crosswalks	\$2,000				2			
	A St, B St Traffic Signals	\$300,000				_	1		
	Segment Total	\$759,000							
Sogmont 2.5	D Street to Sycamore Avenue								
Class I	UPRR Oakland Subdivision ROW: D St to Sycamore Ave	\$679,000	0.52		0.52				
3,4331	D St, Jackson St Crossings	\$50,000	0.02		0.02			1,000	
	Segment Total	\$729,000						17000	
Comment 14	Consumers Asserted Common Dood								
	Sycamore Avenue to Sorensen Road LIDDD Ookland Subdivision DOW. Sycamore Ave to Sorensen Dd	¢1 020 000	1 40		1.40				
Class I	UPRR Oakland Subdivision ROW: Sycamore Ave to Sorensen Rd Orchard Ave, Harder Rd, Zeile Creek overcrossings	\$1,828,000 \$53,000	1.40		1.40			1,050	
	Orchard Ave, Harder Rd, Zeile Creek övercrossings Segment Total	\$1,881,000						1,050	
	Segment Total	\$1,001,000							
	Sorensen Road to Tennyson Road		,						
Class I	UPRR Oakland Subdivision ROW: Sorensen Rd to Tennyson Rd	\$1,044,000	0.8		0.8				
	Segment Total	\$1,044,000							

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Bikeway Type	Description	Project Cost	Class I (per mile)	Class III Bike Route (per mile)	Barrier Separation (per mile)	High Visibility Ladder Crosswalk (ea)	Traffic Signal (ea)	Crossing Railing (per foot)	One-to-Two Way Conversion
			\$1,200,000	\$15,000	\$105,600	\$1,000	\$300,000	\$50	\$150,000
Segment 4.3 Tennyson Road to Industrial Parkway					_				
Class I	UPRR Oakland Subdivision ROW: Tennyson Rd to Industrial Pkwy	\$1,044,000	0.80		0.80				
	Tennyson Rd Crossing	\$30,000						600	
	Segment Total	\$1,074,000							
1									1
Segment 4.4	Industrial Parkway to Whipple Road					1			
	Industrial Pkwy Crossing	\$102,000	0.06					600	
Class I	Industrial Pkwy: Oakland Subdivision to Mission Blvd	\$420,000	0.35						
Class I	Mission Blvd: Blanch St to Dry Creek Class I	\$840,000	0.70						
	Segment Total	\$1,362,000							
	Whipple Road to Decoto Road				T	T			
Class III	Whipple Rd: Cry Creek Class I to 6th Street	\$1,000		0.06					
Class III	6th Street: Whipple Rd to E St	\$5,000		0.35					
Class III	E Street: 6th St to 11th St	\$5,000		0.30					
Class III	11th Street: E St to Decoto Rd	\$8,000		0.55					
	Segment Total	\$19,000							
T						T	_		
Project Cons	truction Cost Estimate Total	\$22,749,000	18.99	3.04	15.83	32	7	6,050	
D : 0 1/5	000E (000)	\$4.550.000							
	PS&E (20% of Project Construction Cost Estimate Total)	\$4,550,000							
	I Environmental Clearance (15% of Project Construction Cost Estimate Total)	\$3,412,000							
Planning Leve	l Cost Contingency (30% of Project Construction Cost Estimate Total)	\$6,825,000							
	Total	\$37,536,000							
<u> </u>	Total	φο <i>1,</i> 000,000							
	Acquisition Cost Estimate	\$65,000,000							
	Acquisition Cost Estimate	ψυ <i></i> σ,υυυ,υυυ							
	Total Project Cost Estimate	\$102,536,000							
	Total Tojot Gost Estimato	\$102 ₁ 030 ₁ 000				1			

NOTE:
Costs are based on recent projects in the San Francisco Bay Area.

Maintenance and operations costs are estimated to be: \$40,000 per year for the City of Oakland, \$66,000 per year for the City of San Leandro, \$54,000 per year for Alameda County, \$58,000 for the City of Hayward and \$5,700 for Union City.

APPENDIX A A-3 This page intentionally left blank