

Appendix A: Cost Estimates Table

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
Segment 1.1 Fruitvale BART Station to 37th Avenue									
Class III	E. 12th: 35th Ave to 37th Ave	\$2,000		0.13					
	Segment Total	\$2,000							
Segment 1.2 37th Avenue to 47th Avenue									
Class III	E. 12th: 37th Ave to 47th Ave	\$162,000		0.79					1
	Segment Total	\$162,000							
Segment 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							
Segment 1.4 Seminary Avenue to 81st Avenue									
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					
Class III	75th Ave: Snell St to San Leandro St.	\$450		0.03					
Class I	San Leandro St: 75th Ave to 81st Ave	\$326,000	0.25		0.25				
	Crosswalks	\$4,000				4			
	Segment Total	\$1,458,000							
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							
Segment 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				
	Traffic Signal at 105th Ave	\$300,000					1		
	Crosswalks	\$1,000				1			
	Segment Total	\$2,521,000							
Segment 2.2 Peralta Avenue to Marina Boulevard									
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				7			
	San Leandro Creek Crossing	\$8,000						150	
	Segment Total	\$1,947,000							

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Segment 2.3 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							

Segment 3.1 Hesperian Boulevard to Elgin Way									
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							

Segment 3.5 D Street to Sycamore Avenue									
Class I	UPRR Oakland Subdivision ROW: D St to Sycamore Ave	\$679,000	0.52		0.52				
	D St, Jackson St Crossings	\$50,000						1,000	
	Segment Total	\$729,000							

Segment 4.1 Sycamore Avenue to Sorensen Road									
Class I	UPRR Oakland Subdivision ROW: Sycamore Ave to Sorensen Rd	\$1,828,000	1.40		1.40				
	Orchard Ave, Harder Rd, Zeile Creek overcrossings	\$53,000						1,050	
	Segment Total	\$1,881,000							

Segment 4.2 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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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							

Segment 4.4 Industrial Parkway to Whipple Road									
	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							

Segment 5.1 Whipple Road to Decoto Road									
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							

Project Construction Cost Estimate Total	\$22,749,000	18.99	3.04	15.83	32	7	6,050	1
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Design Cost/PS&E (20% of Project Construction Cost Estimate Total)	\$4,550,000							
Permitting and Environmental Clearance (15% of Project Construction Cost Estimate Total)	\$3,412,000							
Planning Level Cost Contingency (30% of Project Construction Cost Estimate Total)	\$6,825,000							

Total	\$37,536,000							
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Acquisition Cost Estimate	\$65,000,000							
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Total Project Cost Estimate	\$102,536,000							
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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.

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