Appendix E IMPLEMENTATION PLAN

Appendix E IMPLEMENTATION PLAN

Project	Bay Trail - Northern Alameda County	Corridor 5 - Bay Trail
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Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cost
Countywide route signage	mile	\$2,000	35.1		\$91,208
Provide 10 foot bike path	mile	\$500,000	2.3		\$1,495,000
Improve existing path	mile	\$100,000	0.5		\$58,500
Bike lanes-retain existing striping	mile	\$18,440	1.2		\$28,766
Bike lanes-restripe lanes	mile	\$42,200	4.3		\$238,641
Bike route on residential or local street	mile	\$100,000	3.0		\$387,400
Improve difficult interchange	each	\$300,000		1	\$390,000
Improve railroad tracks	each	\$30,000		3	\$117,000
		Totals	35.1		\$2,806,515

Project 2 Bay Trail - Southern Alameda County Corridor 5 - Bay Trail

Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cost
Countywide route signage	mile	\$2,000	17.1		\$44,460
Provide 10 foot bike path	mile	\$500,000	5.8		\$3,770,000
Arterial improvements	mile	\$200,000	4.5		\$1,170,000
Bike route on residential or local street	mile	\$100,000	3.1		\$403,000
		Totals	20.4		\$5,387,460

Project 3 Fruitvale-Broadway Corridor 10 - Fruitvale/Redwood Road Oakland

Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cost
Countywide route signage	mile	\$2,000	7.9		\$20,549
Bike lanes-retain existing striping	mile	\$18,440	0.0		\$863
Bike lanes-restripe lanes	mile	\$42,200	5.0		\$276,648
Bike lanes-widen roadway	mile	\$197,960	0.1		\$27,782
Arterial improvements	mile	\$200,000	3.1		\$798,515
2 foot wide shoulder	mile	\$116,160	0.3		\$40,755
Bike route on residential or local street	mile	\$100,000	0.9		\$121,629
Improve existing bike/ped bridge/over/undercrossing	each	\$1,000,000		1	\$1,300,000
Add traffic signal	each	\$155,000		2	\$403,000
Improve railroad tracks	each	\$30,000		2	\$78,000

Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cost
		Totals	7.9		\$3,067,741
Project 4 Alameda-Doolittle-Lewelling		Cor	Corridor 15 - Alameda/Doolittle		
Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cost
Countywide route signage	mile	\$2,000	15.2		\$39,522
Provide 10 foot bike path	mile	\$500,000	0.5		\$325,000
Bike lanes-retain existing striping	mile	\$18,440	1.8		\$43,131
Bike lanes-restripe lanes	mile	\$42,200	3.3		\$180,425
Bike lanes-widen roadway	mile	\$197,960	1.6		\$416,728
Bike lanes-include bike lane with new road	mile	\$18,440	1.2		\$29,239
Wide curb lanes-restripe lanes	mile	\$47,520	0.5		\$33,345
Arterial improvements	mile	\$200,000	6.9		\$1,802,494
Bike route on residential or local street	mile	\$100,000	0.1		\$11,695
Add traffic signal	each	\$155,000		1	\$201,500
		Totals	15.2		\$3,083,080
Project 5 73rd Avenue-Hegenberge	r	Cor	ridor 20 - 73rc	d Ave/Hegenberger	
Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cost
Countywide route signage	mile	\$2,000	5.2		\$13,567
Provide 10 foot bike path	mile	\$500,000	0.8		\$520,000
Bike lanes-restripe lanes	mile	\$42,200	3.4		\$187,542
Bike lanes-widen roadway	mile	\$197,960	0.9		\$231,516
Arterial improvements	mile	\$200,000	4.3		\$1,122,727
Improve existing bike/ped bridge/over/undercrossing	each	\$1,000,000		1	\$1,300,000
Improve difficult interchange	each	\$300,000		1	\$390,000

Project 6 Berkeley-Emeryville I-880 corridor		Corridor 25 - Highway 880 Corridor			
Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cost
Countywide route signage	mile	\$2,000	8.1		\$21,182
Provide 10 foot bike path	mile	\$500,000	0.7		\$467,803
Bike lanes-restripe lanes	mile	\$42,200	1.7		\$91,589
Bike lanes-widen roadway	mile	\$197,960	0.5		\$128,674
Bike route on residential or local street	mile	\$100,000	4.1		\$537,973
Add traffic signal	each	\$155,000		5	\$1,007,500
Improve railroad tracks	each	\$30,000		2	\$78,000
		Totals	8.1		\$2,332,721
Project 7 Oakland I-880 Corn	ridor	Cor	ridor 25 - Hig	hway 880 Corridor	
Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cost
Countywide route signage	mile	\$2,000	12.1		\$31,508
Bike lanes-restripe lanes	mile	\$42,200	9.0		\$494,467
Bike lanes-widen roadway	mile	\$197,960	0.4		\$115,758
Bike lanes-remove lane	mile	\$75,000	6.5		\$629,780
Wide curb lanes-restripe lanes	mile	\$47,520	0.4		\$22,230
Arterial improvements	mile	\$200,000	2.6		\$682,992
Add traffic signal	each	\$155,000		1	\$201,500
		Totals	12.1		\$2,178,235
Project 8 BART Trail/San Le	andro St	Cor	ridor 25 - Hig	hway 880 Corridor	
Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cost
Countywide route signage	mile	\$2,000	12.9		\$33,540
Provide 10 foot bike path	mile	\$500,000	6.9		\$4,485,000
Bike lanes-restripe lanes	mile	\$42,200	6.0		\$329,160

Add traffic signal

\$155,000

Totals

4

12.9

\$806,000

\$5,653,700

each

Project 9 Southern Alameda County I-880 Corridor

Corridor 25 - Highway 880 Corridor

Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cost
Countywide route signage	mile	\$2,000	22.7		\$59,060
Bike lanes-restripe lanes	mile	\$42,200	8.8		\$482,768
Wide curb lanes-restripe lanes	mile	\$47,520	3.9		\$240,926
Arterial improvements	mile	\$200,000	17.9		\$4,657,989
Improve difficult interchange	each	\$300,000		3	\$1,170,000
		Totals	22.7		\$6,610,743

Project 10

Davis -Estudillo-Crow Canyon Road

Corridor 30 - Estudillo/Crow Canyon Rd

Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cost
Countywide route signage	mile	\$2,000	16.6		\$43,264
Provide 10 foot bike path	mile	\$500,000	0.5		\$325,000
Bike lanes-retain existing striping	mile	\$18,440	0.5		\$12,945
Bike lanes-restripe lanes	mile	\$42,200	3.1		\$170,615
Bike lanes-widen roadway	mile	\$197,960	0.6		\$159,556
Wide curb lanes-restripe lanes	mile	\$47,520	0.3		\$18,533
Arterial improvements	mile	\$200,000	9.2		\$2,402,400
4 foot wide shoulder	mile	\$179,520	8.0		\$1,869,342
Bike route on residential or local street	mile	\$100,000	1.6		\$209,300
Improve existing bike/ped bridge/over/undercrossing	each	\$1,000,000		1	\$1,300,000
Improve difficult interchange	each	\$300,000		2	\$780,000
Replace drainage grates	each	\$2,000		1	\$2,600
		Totals	16.6		\$7,293,554

Project 11

Northern Alameda County-I-580-Foothills-

Corridor 35 - Highway 580/Foothills

Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cost
Countywide route signage	mile	\$2,000	16.1		\$41,909
Improve existing path	mile	\$100,000	2.0		\$261,970
Bike lanes-restripe lanes	mile	\$42,200	3.3		\$183,498
Bike lanes-remove lane	mile	\$75,000	3.6		\$349,523
Wide curb lanes-restripe lanes	mile	\$47,520	1.0		\$60,540

Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cos
Arterial improvements	mile	\$200,000	3.7		\$958,996
Bike route on residential or local street	mile	\$100,000	7.6		\$982,215
Improve difficult interchange	each	\$300,000		2	\$780,000
Add traffic signal	each	\$155,000		5	\$1,007,500
		Totals	16.1		\$4,626,152
Project 12 MacArthur Blvd I-58	80-Foothills-	Со	rridor 35 - Hig	hway 580/Foothills	
Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cos
Countywide route signage	mile	\$2,000	4.1		\$10,759
Bike lanes-restripe lanes	mile	\$42,200	4.1		\$227,025
Bike lanes-remove lane	mile	\$75,000	3.1		\$301,733
Arterial improvements	mile	\$200,000	4.1		\$1,075,947
Improve difficult interchange	each	\$300,000		1	\$390,000
		Totals	4.1		\$2,005,464
Project 13 Southern Alameda C	County-I-580-Foo			hway 580/Foothills	\$2,005,464
Project 13 Southern Alameda C	County-I-580-Foo Unit			hway 580/Foothills Total Units	
	·	thills- Co	rridor 35 - Hig	•	
Improvement Type	Unit	thills- Co	rridor 35 - Hig	•	Total Cos
Improvement Type Countywide route signage	Unit mile	thills- Co Unit Cost \$2,000	rridor 35 - Hig Total Length 32.5	•	Total Cos \$84,545
Improvement Type Countywide route signage Bike lanes-retain existing striping	Unit mile mile	Unit Cost \$2,000 \$18,440	Total Length 32.5 4.6	•	Total Cos: \$84,545 \$110,271
Improvement Type Countywide route signage Bike lanes-retain existing striping Bike lanes-restripe lanes	Unit mile mile mile	Unit Cost \$2,000 \$18,440 \$42,200	Total Length 32.5 4.6 6.1	•	Total Cost \$84,545 \$110,271 \$334,251
Improvement Type Countywide route signage Bike lanes-retain existing striping Bike lanes-restripe lanes Bike lanes-widen roadway	Unit mile mile mile mile	Unit Cost \$2,000 \$18,440 \$42,200 \$197,960	Total Length 32.5 4.6 6.1 1.5	•	\$84,545 \$110,271 \$334,251 \$384,316
Improvement Type Countywide route signage Bike lanes-retain existing striping Bike lanes-restripe lanes Bike lanes-widen roadway Wide curb lanes-restripe lanes	Unit mile mile mile mile mile	thills- Co Unit Cost \$2,000 \$18,440 \$42,200 \$197,960 \$47,520	Total Length 32.5 4.6 6.1 1.5 3.0	•	\$84,545 \$110,271 \$334,251 \$384,316 \$185,328
Improvement Type Countywide route signage Bike lanes-retain existing striping Bike lanes-restripe lanes Bike lanes-widen roadway Wide curb lanes-restripe lanes Arterial improvements	Unit mile mile mile mile mile mile	thills- Co Unit Cost \$2,000 \$18,440 \$42,200 \$197,960 \$47,520 \$200,000	Total Length 32.5 4.6 6.1 1.5 3.0 19.9	Total Units	\$84,545 \$110,271 \$334,251 \$384,316 \$185,328 \$5,169,667
Improvement Type Countywide route signage Bike lanes-retain existing striping Bike lanes-restripe lanes Bike lanes-widen roadway Wide curb lanes-restripe lanes Arterial improvements	Unit mile mile mile mile mile mile mile	thills- Co Unit Cost \$2,000 \$18,440 \$42,200 \$197,960 \$47,520 \$200,000 \$300,000 Totals	Total Length 32.5 4.6 6.1 1.5 3.0 19.9	Total Units	\$84,545 \$110,271 \$334,251 \$384,316 \$185,328 \$5,169,667 \$780,000 \$7,048,378

Countywide route signage

\$2,000

mile

7.7

\$20,150

Project 14	Highway 92 Corridor
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Corridor 40 - Highway 92/Dublin Blvd

Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cost
Bike lanes-retain existing striping	mile	\$18,440	0.2		\$4,794
Bike lanes-restripe lanes	mile	\$42,200	3.4		\$186,524
Bike lanes-widen roadway	mile	\$197,960	0.1		\$25,735
Wide curb lanes-restripe lanes	mile	\$47,520	0.9		\$52,510
Wide curb lanes-restripe lanes	mile	\$95,040	0.4		\$49,421
Arterial improvements	mile	\$200,000	3.8		\$988,000
2 foot wide shoulder	mile	\$116,160	0.1		\$15,101
Bike route on residential or local street	mile	\$100,000	0.1		\$13,000
Improve difficult interchange	each	\$300,000		2	\$780,000
		Totals	7.7		\$2,135,234

Project 15

E. Castro Valley Blvd- Dublin Canyon

Corridor 40 - Highway 92/Dublin Blvd

Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cost
Countywide route signage	mile	\$2,000	11.7		\$30,290
Bike lanes-retain existing striping	mile	\$18,440	2.6		\$62,327
Bike lanes-restripe lanes	mile	\$42,200	2.6		\$145,379
Bike lanes-widen roadway	mile	\$197,960	2.1		\$540,431
Arterial improvements	mile	\$200,000	6.5		\$1,677,000
Improve difficult interchange	each	\$300,000		1	\$390,000
		Totals	11.7		\$2,845,427

Project 16

Dublin Blvd Extension

Corridor 40 - Highway 92/Dublin Blvd

Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cost
Countywide route signage	mile	\$2,000	2.2		\$5,720
Provide 10 foot bike path	mile	\$500,000	2.2		\$1,430,000
		Totals	2.2		\$1,435,720

Project 17 Collier Canyon-N	. Canyons Parkway	Cor	ridor 40 - Hig	hway 92/Dublin Blv	d
Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cost
Countywide route signage	mile	\$2,000	1.8		\$4,680
Bike lanes-retain existing striping	mile	\$18,440	0.1		\$2,397
Bike lanes-restripe lanes	mile	\$42,200	0.6		\$32,916
		Totals	1.8		\$39,993
Project 18 New Trail in Nor	th Livermore	Cor	ridor 40 - Hig	hway 92/Dublin Blv	d
Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cost
Countywide route signage	mile	\$2,000	3.1		\$8,060
Provide 10 foot bike path	mile	\$500,000	3.1		\$2,015,000
		Totals	3.1		\$2,023,060
Project 19 Northfront/Altam	ont Pass Road	Cor	ridor 40 - Hig	hway 92/Dublin Blv	d
Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cost
Countywide route signage	mile	\$2,000	13.9		\$36,140
Improve existing path	mile	\$100,000	0.5		\$65,000
Bike lanes-restripe lanes	mile	\$42,200	2.1		\$115,206
4 foot wide shoulder	mile	\$179,520	10.0		\$2,333,760
		Totals	13.9		\$2,550,106
Project 20 Las Positas Creek	Trail	Cor	ridor 40 - Hig	hway 92/Dublin Blv	d
Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cost
Countywide route signage	mile	\$2,000	5.9		\$15,340
Provide 10 foot bike path	mile	\$500,000	3.8		\$2,470,000
Improve existing path	mile	\$100,000	2.0		\$260,000
Bike lanes-restripe lanes	mile	\$42,200	0.1		\$5,486
Add traffic signal	each	\$155,000		1	\$201,500
		Totals	5.9		\$2,952,326

Project 21 Arroyo del valle Trail

Corridor 60 - Stanley Ave/East Ave

Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cost
Countywide route signage	mile	\$2,000	2.4		\$6,240
Provide 10 foot bike path	mile	\$500,000	2.4		\$1,560,000
		Totals	2.4		\$1,566,240

Project 22

Highway 13 Corridor

Corridor 45 - Highway 13 Corridor

Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cost
Countywide route signage	mile	\$2,000	16.5		\$42,851
Bike lanes-retain existing striping	mile	\$18,440	0.5		\$12,849
Bike lanes-restripe lanes	mile	\$42,200	5.3		\$292,036
Bike lanes-widen roadway	mile	\$197,960	1.0		\$245,407
Bike lanes-remove lane	mile	\$75,000	0.8		\$78,942
Wide curb lanes-restripe lanes	mile	\$47,520	1.1		\$66,690
4 foot wide shoulder	mile	\$179,520	2.6		\$606,778
2 foot wide shoulder	mile	\$116,160	1.1		\$163,020
Bike route on residential or local street	mile	\$100,000	2.1		\$273,000
Improve difficult interchange	each	\$300,000		4	\$1,560,000
Add traffic signal	each	\$155,000		1	\$201,500
		Totals	16.5		\$3,543,072

Project 23

Stoneridge Blvd

Corridor 50 - Stoneridge/Las Positas Blvd

Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cost
Countywide route signage	mile	\$2,000	4.5		\$11,700
Bike lanes-restripe lanes	mile	\$42,200	2.1		\$115,206
Wide curb lanes-restripe lanes	mile	\$47,520	0.6		\$37,066
Arterial improvements	mile	\$200,000	4.5		\$1,170,000
Improve difficult interchange	each	\$300,000		1	\$390,000
		Totals	4.5		\$1,723,972

Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cos
Countywide route signage	mile	\$2,000	6.8		\$17,680
Provide 10 foot bike path	mile	\$500,000	5.5		\$3,575,000
Bike lanes-widen roadway	mile	\$197,960	1.3		\$334,552
Arterial improvements	mile	\$200,000	0.2		\$52,000
		Totals	6.8		\$3,979,232
Project 25 Jack London Blvd-H	Portola	Со	rridor 50 - Stor	neridge/Las Positas	Blvd
Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cost
Countywide route signage	mile	\$2,000	3.3		\$8,450
Bike lanes-restripe lanes	mile	\$42,200	0.7		\$38,402
Arterial improvements	mile	\$200,000	1.4		\$364,000
			. 22		Ø410.053
		Totals	3.3		\$410,852
Project 26 Skyline-Palomares				rline Blvd/Palomare	
Project 26 Skyline-Palomares Improvement Type	Unit			rline Blvd/Palomare Total Units	s Ave
·	Unit mile	Со	rridor 55 - Sky		s Ave
Improvement Type		Co Unit Cost	rridor 55 - Sky Total Length		s Ave Total Cost
Improvement Type Countywide route signage	mile	Co Unit Cost \$2,000	rridor 55 - Sky Total Length 40.7		s Ave Total Cost \$105,925
Improvement Type Countywide route signage Bike lanes-restripe lanes	mile mile	Co Unit Cost \$2,000 \$42,200	rridor 55 - Sky Total Length 40.7 0.2		Total Cost \$105,925 \$12,069
Improvement Type Countywide route signage Bike lanes-restripe lanes Wide curb lanes-restripe lanes	mile mile mile	\$2,000 \$42,200 \$47,520	Total Length 40.7 0.2 3.1		Total Cost \$105,925 \$12,069 \$188,955
Improvement Type Countywide route signage Bike lanes-restripe lanes Wide curb lanes-restripe lanes Arterial improvements	mile mile mile mile	\$2,000 \$42,200 \$47,520 \$200,000	Total Length 40.7 0.2 3.1 3.3		Total Cost \$105,925 \$12,069 \$188,955 \$861,821
Improvement Type Countywide route signage Bike lanes-restripe lanes Wide curb lanes-restripe lanes Arterial improvements 4 foot wide shoulder	mile mile mile mile mile	\$2,000 \$42,200 \$47,520 \$200,000 \$179,520	Total Length 40.7 0.2 3.1 3.3 33.4		\$ Ave Total Cost \$105,925 \$12,069 \$188,955 \$861,821 \$7,789,720
Improvement Type Countywide route signage Bike lanes-restripe lanes Wide curb lanes-restripe lanes Arterial improvements 4 foot wide shoulder Bike route on residential or local street	mile mile mile mile mile mile	\$2,000 \$42,200 \$47,520 \$200,000 \$179,520 \$100,000	Total Length 40.7 0.2 3.1 3.3 33.4 2.5	Total Units	\$ Ave Total Cost \$105,925 \$12,069 \$188,955 \$861,821 \$7,789,720 \$325,000
Improvement Type Countywide route signage Bike lanes-restripe lanes Wide curb lanes-restripe lanes Arterial improvements 4 foot wide shoulder Bike route on residential or local street	mile mile mile mile mile mile each	\$2,000 \$42,200 \$47,520 \$200,000 \$179,520 \$100,000 \$300,000	Total Length 40.7 0.2 3.1 3.3 33.4 2.5	Total Units	\$ Ave Total Cost \$105,925 \$12,069 \$188,955 \$861,821 \$7,789,720 \$325,000 \$390,000
Improvement Type Countywide route signage Bike lanes-restripe lanes Wide curb lanes-restripe lanes Arterial improvements 4 foot wide shoulder Bike route on residential or local street Improve difficult interchange	mile mile mile mile mile mile each	\$2,000 \$42,200 \$47,520 \$200,000 \$179,520 \$100,000 \$300,000	Total Length 40.7 0.2 3.1 3.3 33.4 2.5	Total Units	\$ Ave Total Cost \$105,925 \$12,069 \$188,955 \$861,821 \$7,789,720 \$325,000 \$390,000
Improvement Type Countywide route signage Bike lanes-restripe lanes Wide curb lanes-restripe lanes Arterial improvements 4 foot wide shoulder Bike route on residential or local street Improve difficult interchange Project 27 Stanley- East Avenu	mile mile mile mile mile mile each	Co Unit Cost \$2,000 \$42,200 \$47,520 \$200,000 \$179,520 \$100,000 \$300,000 Totals	Total Length 40.7 0.2 3.1 3.3 33.4 2.5 40.7 rridor 60 - Star	1 anley Ave/East Ave	\$ Ave Total Cost \$105,925 \$12,069 \$188,955 \$861,821 \$7,789,720 \$325,000 \$390,000 \$9,673,490

Bike lanes-retain existing striping

\$18,440

mile

1.0

\$23,972

Project 27 Stanley- East Avenue	oject 27 Stanley- East Avenue Corridor 60 - Stanley Ave/East Avenue				
Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cost
Bike lanes-restripe lanes	mile	\$42,200	2.6		\$145,379
Bike lanes-widen roadway	mile	\$197,960	0.7		\$180,144
Arterial improvements	mile	\$200,000	1.0		\$260,000
Bike route on residential or local street	mile	\$100,000	0.2		\$26,000
Improve existing bike/ped bridge/over/undercrossing	each	\$1,000,000		1	\$1,300,000
Improve difficult interchange	each	\$300,000		2	\$780,000
Add traffic signal	each	\$155,000		2	\$403,000
Replace drainage grates	each	\$2,000		1	\$2,600
		Totals	14.5		\$3,795,925
Project 28 San Ramon-Foothill Rd-I Improvement Type	-680 Corri	dor Cor Unit Cost	ridor 65 - Hig	hway 680 Corridor Total Units	Total Cost
Countywide route signage	mile	\$2,000	19.5		\$50,700
Provide 10 foot bike path	mile	\$500,000	4.6		\$2,990,000
Bike lanes-restripe lanes	mile	\$42,200	3.9		\$213,954
Bike lanes-widen roadway	mile	\$197,960	1.6		\$411,757
Arterial improvements	mile	\$200,000	2.6		\$676,000
4 foot wide shoulder	mile	\$179,520	4.3		\$1,003,517
Improve difficult interchange	each	\$300,000		1	\$390,000
		Totals	19.5		\$5,735,928
Project 29 Iron Horse to Shadow Cli	ffs Trail	Cor	ridor 65 - Hig	hway 680 Corridor	
Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cost
Countywide route signage	mile	\$2,000	7.0		\$18,200
Provide 10 foot bike path	mile	\$500,000	7.0		\$4,550,000
		Totals	7.0		\$4,568,200

	Cliffs Trail	Co	orriuor os - mg	hway 680 Corridor	
Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cos
Countywide route signage	mile	\$2,000	5.0		\$13,000
Provide 10 foot bike path	mile	\$500,000	5.0		\$3,250,000
		Totals	s 5.0		\$3,263,000
Project 31 Vineyard-Concannon		Co	orridor 70 - Vin	eyard Rd	
Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cos
Countywide route signage	mile	\$2,000	17.9		\$46,670
Provide 10 foot bike path	mile	\$500,000	10.0		\$6,500,000
Bike lanes-retain existing striping	mile	\$18,440	0.6		\$14,383
Bike lanes-restripe lanes	mile	\$42,200	1.7		\$93,262
Bike lanes-widen roadway	mile	\$197,960	1.3		\$334,552
		Totals	s 17.9		\$6,988,868
Project 32 Vineyard Avenue Trail		Co	orridor 70 - Vin	eyard Rd	
<u> </u>	Unit	Co Unit Cost	orridor 70 - Vin Total Length	eyard Rd Total Units	Total Cos
Improvement Type	Unit				Total Cos \$18,200
Improvement Type Countywide route signage		Unit Cost	Total Length		
Improvement Type Countywide route signage	mile	Unit Cost \$2,000	7.0 7.0		
Improvement Type Countywide route signage	mile mile	\$2,000 \$500,000 Totals	7.0 7.0	Total Units	\$18,200 \$4,550,000
Improvement Type Countywide route signage Provide 10 foot bike path Project 33 Dougherty - Hopyard Roa	mile mile	\$2,000 \$500,000 Totals	7.0 7.0 7.0 8 7.0	Total Units	\$18,200 \$4,550,000
Improvement Type Countywide route signage Provide 10 foot bike path Project 33 Dougherty - Hopyard Roa Improvement Type	mile mile	\$2,000 \$500,000 Totals	7.0 7.0 8 7.0 erridor 75 - Dou	Total Units	\$18,200 \$4,550,000 \$4,568,200
Improvement Type Countywide route signage Provide 10 foot bike path Project 33 Dougherty - Hopyard Roa Improvement Type Countywide route signage	mile mile ds	Unit Cost \$2,000 \$500,000 Totals Co Unit Cost	7.0 7.0 8 7.0 Total Length Total Length	Total Units	\$18,200 \$4,550,000 \$4,568,200 Total Cos
Improvement Type Countywide route signage Provide 10 foot bike path Project 33 Dougherty - Hopyard Roa Improvement Type Countywide route signage Bike lanes-restripe lanes	mile mile ds Unit mile	Unit Cost \$2,000 \$500,000 Totals Co Unit Cost \$2,000	7.0 7.0 8 7.0 Total Length Total Length 6.0	Total Units	\$18,200 \$4,550,000 \$4,568,200 Total Co: \$15,730
Improvement Type Countywide route signage Provide 10 foot bike path Project 33 Dougherty - Hopyard Roa Improvement Type Countywide route signage Bike lanes-restripe lanes Bike lanes-widen roadway	mile mile ds Unit mile mile	Unit Cost \$2,000 \$500,000 Totals Co Unit Cost \$2,000 \$42,200	7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0	Total Units	\$18,200 \$4,550,000 \$4,568,200 Total Co: \$15,730 \$159,094
Countywide route signage Provide 10 foot bike path Project 33 Dougherty - Hopyard Roa Improvement Type Countywide route signage Bike lanes-restripe lanes Bike lanes-widen roadway Wide curb lanes-restripe lanes	mile mile ds Unit mile mile mile	Unit Cost \$2,000 \$500,000 Totals Co Unit Cost \$2,000 \$42,200 \$197,960	7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0	Total Units	\$18,200 \$4,550,000 \$4,568,200 Total Co \$15,730 \$159,094 \$257,348
Improvement Type Countywide route signage Provide 10 foot bike path Project 33 Dougherty - Hopyard Roa Improvement Type Countywide route signage Bike lanes-restripe lanes Bike lanes-widen roadway Wide curb lanes-restripe lanes Arterial improvements	mile mile ds Unit mile mile mile mile mile	Unit Cost \$2,000 \$500,000 Totals Co Unit Cost \$2,000 \$42,200 \$197,960 \$447,520	Total Length 7.0 7.0 7.0 7.0 Total Length 6.0 2.9 1.0 0.6	Total Units	\$18,200 \$4,550,000 \$4,568,200 Total Co \$15,730 \$159,094 \$257,348 \$37,066
Improvement Type Countywide route signage Provide 10 foot bike path	mile mile ds Unit mile mile mile mile mile mile	Unit Cost \$2,000 \$500,000 Totals Co Unit Cost \$2,000 \$42,200 \$197,960 \$47,520 \$200,000	Total Length 7.0 7.0 7.0 7.0 Total Length 6.0 2.9 1.0 0.6	Total Units ugherty Rd Total Units	\$18,200 \$4,550,000 \$4,568,200 Total Co \$15,730 \$159,094 \$257,348 \$37,066 \$845,000

Project 33 Dougherty - Hopyard	Roads	Co	orridor 75 - Dou	igherty Rd	
Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cost
		Totals	s 6.0		\$3,006,838
Project 34 Iron Horse Trail		Co	orridor 75 - Dou	ugherty Rd	
Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cost
Countywide route signage	mile	\$2,000	8.0		\$20,800
Provide 10 foot bike path	mile	\$500,000	8.0		\$5,200,000
		Totals	s 8.0		\$5,220,800
Project 35 Iron Horse Trail		Co	orridor 75 - Dou	agherty Rd	
Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cost
Countywide route signage	mile	\$2,000	15.0		\$39,000
	.1	\$500,000	15.0		\$9,750,000
Provide 10 foot bike path	mile	\$300,000			** , * * * , * * * * * * * * * * * * *
Provide 10 foot bike path	mile	Totals			\$9,789,000
Provide 10 foot bike path Project 36 Avarado-Niles-Niles C		Totals	s 15.0	te Route 84/Niles C	\$9,789,000
		Totals	s 15.0	te Route 84/Niles C	\$9,789,000 anyon
Project 36 Avarado-Niles-Niles O	Canyon	Totals	s 15.0 orridor 80 - Stat		\$9,789,000 anyon
Project 36 Avarado-Niles-Niles C	Canyon Unit	Totals Co Unit Cost	s 15.0 orridor 80 - Stat		\$9,789,000 anyon Total Cos
Project 36 Avarado-Niles-Niles Countywide route signage	Canyon Unit mile	Totals Co Unit Cost \$2,000	s 15.0 orridor 80 - Stat Total Length		\$9,789,000 anyon Total Cos \$63,310
Project 36 Avarado-Niles-Niles Comprovement Type Countywide route signage Bike lanes-retain existing striping	Canyon Unit mile mile	Totals Co Unit Cost \$2,000 \$18,440	15.0 orridor 80 - State Total Length 24.4 1.1		\$9,789,000 anyon Total Cos \$63,310 \$27,568
Project 36 Avarado-Niles-Niles O Improvement Type Countywide route signage Bike lanes-retain existing striping Bike lanes-restripe lanes	Canyon Unit mile mile mile	Totals Co Unit Cost \$2,000 \$18,440 \$42,200	Total Length 24.4 1.1 1.2		\$9,789,000 anyon Total Cos \$63,310 \$27,568 \$65,832
Project 36 Avarado-Niles-Niles Control Improvement Type Countywide route signage Bike lanes-retain existing striping Bike lanes-restripe lanes Bike lanes-widen roadway	Canyon Unit mile mile mile mile	Totals Co Unit Cost \$2,000 \$18,440 \$42,200 \$197,960	Total Length 24.4 1.1 1.2 0.3		\$9,789,000 anyon Total Cos \$63,310 \$27,568 \$65,832 \$77,204
Project 36 Avarado-Niles-Niles Control Improvement Type Countywide route signage Bike lanes-retain existing striping Bike lanes-restripe lanes Bike lanes-widen roadway Wide curb lanes-restripe lanes	Canyon Unit mile mile mile mile mile	Totals Co Unit Cost \$2,000 \$18,440 \$42,200 \$197,960 \$47,520	Total Length 24.4 1.1 1.2 0.3 0.2		\$9,789,000 anyon Total Cost \$63,310 \$27,568 \$65,832 \$77,204 \$12,355
Project 36 Avarado-Niles-Niles Control Improvement Type Countywide route signage Bike lanes-retain existing striping Bike lanes-restripe lanes Bike lanes-widen roadway Wide curb lanes-restripe lanes Arterial improvements	Canyon Unit mile mile mile mile mile mile mile	Totals Co Unit Cost \$2,000 \$18,440 \$42,200 \$197,960 \$47,520 \$200,000	Total Length 24.4 1.1 1.2 0.3 0.2 9.4		\$9,789,000 anyon Total Cost \$63,310 \$27,568 \$65,832 \$77,204 \$12,355 \$2,431,000
Project 36 Avarado-Niles-Niles Comprovement Type Countywide route signage Bike lanes-retain existing striping Bike lanes-restripe lanes Bike lanes-widen roadway Wide curb lanes-restripe lanes Arterial improvements 4 foot wide shoulder	Unit mile mile mile mile mile mile mile mile	Totals Co Unit Cost \$2,000 \$18,440 \$42,200 \$197,960 \$47,520 \$200,000 \$179,520	Total Length 24.4 1.1 1.2 0.3 0.2 9.4 8.0	Total Units	\$9,789,000 anyon Total Cost \$63,310 \$27,568 \$65,832 \$77,204 \$12,355 \$2,431,000 \$1,867,008
Project 36 Avarado-Niles-Niles Comprovement Type Countywide route signage Bike lanes-retain existing striping Bike lanes-restripe lanes Bike lanes-widen roadway Wide curb lanes-restripe lanes Arterial improvements 4 foot wide shoulder	Unit mile mile mile mile mile mile mile mile	Totals Co Unit Cost \$2,000 \$18,440 \$42,200 \$197,960 \$47,520 \$200,000 \$179,520 \$300,000 Totals	Total Length 24.4 1.1 1.2 0.3 0.2 9.4 8.0	Total Units	\$9,789,000 anyon Total Cost \$63,310 \$27,568 \$65,832 \$77,204 \$12,355 \$2,431,000 \$1,867,008 \$390,000 \$4,934,277
Project 36 Avarado-Niles-Niles Comprovement Type Countywide route signage Bike lanes-retain existing striping Bike lanes-restripe lanes Bike lanes-widen roadway Wide curb lanes-restripe lanes Arterial improvements 4 foot wide shoulder Improve difficult interchange	Unit mile mile mile mile mile mile mile mile	Totals Co Unit Cost \$2,000 \$18,440 \$42,200 \$197,960 \$47,520 \$200,000 \$179,520 \$300,000 Totals	Total Length 24.4 1.1 1.2 0.3 0.2 9.4 8.0	Total Units	\$9,789,000 anyon Total Cost \$63,310 \$27,568 \$65,832 \$77,204 \$12,355 \$2,431,000 \$1,867,008 \$390,000 \$4,934,277

Project 37 Vallecitos Rd		Cor	cridor 80 - Stat	te Route 84/Niles C	anyon
Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cost
Provide 10 foot bike path	mile	\$500,000	1.5		\$975,000
Bike lanes-retain existing striping	mile	\$18,440	1.0		\$23,972
4 foot wide shoulder	mile	\$179,520	9.4		\$2,203,069
Replace drainage grates	each	\$2,000		2	\$5,200
		Totals	15.1		\$3,246,605
Project 38 Tassajara Rd		Cor	ridor 85 - Tas	sajara Rd	
Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cost
Countywide route signage	mile	\$2,000	8.3		\$21,450
Bike lanes-retain existing striping	mile	\$18,440	1.3		\$31,164
Bike lanes-restripe lanes	mile	\$42,200	2.9		\$161,837
Bike lanes-widen roadway	mile	\$197,960	0.5		\$128,674
Arterial improvements	mile	\$200,000	3.0		\$767,000
4 foot wide shoulder	mile	\$179,520	1.8		\$420,077
Bike route on residential or local street	mile	\$100,000	0.7		\$91,000
Improve difficult interchange	each	\$300,000		2	\$780,000
Improve railroad tracks	each	\$30,000		1	\$39,000
		Totals	8.2		\$2,440,201
Project 39 Tassajara Creek Trail		Cor	rridor 85 - Tas	sajara Rd	
Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cost
Countywide route signage	mile	\$2,000	2.0		\$5,200
Provide 10 foot bike path	mile	\$500,000	2.0		\$1,300,000
		Totals	2.0		\$1,305,200
Project 40 Vasco Road		Cor	ridor 95 - Vas	seo Rd	
Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cost
Countywide route signage	mile	\$2,000	11.2		\$29,250
Bike lanes-retain existing striping	mile	\$18,440	8.3		\$198,968

Project 40 Vasco Road		Cor	ridor 95 - Vas	sco Rd	
Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cost
Bike lanes-restripe lanes	mile	\$42,200	0.1		\$5,486
Arterial improvements	mile	\$200,000	2.0		\$520,000
Improve difficult interchange	each	\$300,000		1	\$390,000
		Totals	11.2		\$1,143,704
Project 41 Damon Slough Bridge		Cor	ridor 5 - Bay	/ Trail	
Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cost
Countywide route signage	mile	\$2,000	0.1		\$156
New bike/ped bridge	each	\$1,000,000	1.0		\$1,300,000
		Totals	0.1		\$1,300,156
Project 42 San Leandro Slough Brid	ge	Cor	ridor 5 - Bay	/ Trail	
Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cost
Countywide route signage	mile	\$2,000	0.1		\$156
New bike/ped bridge	each	\$1,000,000	1.0		\$1,300,000
		Totals	0.1		\$1,300,156
Project 43 Cerrito Creek Bridge		Cor	ridor 25 - Hig	hway 880 Corridor	
Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cost
Countywide route signage	mile	\$2,000	0.1		\$156
New bike/ped bridge	each	\$1,000,000	1.0		\$1,300,000
		Totals	0.1		\$1,300,156
Project 44 42nd Avenue Bridge		Cor	ridor 25 - Hig	hway 880 Corridor	
Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cost
Countywide route signage	mile	\$2,000	0.1		\$156
Improve existing bike/ped bridge/over/undercrossing	each	\$1,000,000		1	\$1,300,000
		Totals	0.1		\$1,300,156

Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cost
Countywide route signage	mile	\$2,000	0.1		\$156
Improve existing bike/ped bridge/over/undercrossing	each	\$1,000,000		1	\$1,300,000
		Totals	0.1		\$1,300,156
Project 46 Emeryville Ped/bike Over	ecrossing	Cor	ridor 45 - Hig	hway 13 Corridor	
Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cost
Countywide route signage	mile	\$2,000	0.3		\$780
New overpass	each	\$5,000,000	1.0		\$6,500,000
		Totals	0.3		\$6,500,780
Project 47 Highway 24 Ped/bike Ove	ercrossing	Cor	ridor 45 - Hig	hway 13 Corridor	
Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cost
Countywide route signage	mile	\$2,000	0.3		\$780
New overpass	each	\$5,000,000	1.0		\$6,500,000
		Totals	0.3		\$6,500,780
Project 48 Bridge over Altamont Cre	ek	Cor	ridor 40 - Hig	hway 92/Dublin Blvc	l
Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cost
Countywide route signage	mile	\$2,000	0.1		\$260
New bike/ped bridge	each	\$1,000,000	1.0		\$1,300,000
		Totals	0.1		\$1,300,260
Project 49 I-580 Undercrossing		Cor	ridor 40 - Hig	hway 92/Dublin Blvc	1
Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cost
Countywide route signage	mile	\$2,000	0.1		\$260
New underpass	each	\$2,000,000	1.0		\$2,600,000
		Totals	0.1		\$2,600,260

Improvement Type	Unit	Unit Cost	Total Langth	Total Units	Total Cost
Improvement Type			Total Length	Total Units	
Countywide route signage	mile	\$2,000	0.2		\$520
New underpass	each	\$2,000,000	1.0		\$2,600,000
		Totals	0.2		\$2,600,520
Project 51 Oakland-Alame	eda Connection	Cor	ridor 15 - Ala	meda/Doolittle	
Improvement Type	Unit	Unit Cost	Total Length	Total Units	Total Cost
Countywide route signage	mile	\$2,000	0.3		\$650
New overpass	each	\$5,000,000	1.0		\$6,500,000
		Totals	0.3		\$6,500,650
Project 52 Arroyo Mocho Improvement Type		Cor	ridor 50 - Sto	neridge/Las Positas	Blvd
Improvement Type	Trail Unit	Cor Unit Cost		neridge/Las Positas Total Units	Blvd Total Cost
,	Unit	Cor	ridor 50 - Stor		Blvd
Improvement Type Countywide route signage	Unit mile	Cor Unit Cost \$2,000	ridor 50 - Stor Total Length		Blvd Total Cost \$18,200
Improvement Type Countywide route signage	Unit mile mile	Cor Unit Cost \$2,000 \$500,000 Totals	Total Length 7.0 7.0	Total Units	Blvd Total Cost \$18,200 \$4,550,000
Improvement Type Countywide route signage Provide 10 foot bike path	Unit mile mile	Cor Unit Cost \$2,000 \$500,000 Totals	Total Length 7.0 7.0	Total Units	Total Cost \$18,200 \$4,550,000 \$4,568,200
Improvement Type Countywide route signage Provide 10 foot bike path Project 53 Brushy Peak to	Unit mile mile Del Valle Trail	Cor Unit Cost \$2,000 \$500,000 Totals	Total Length 7.0 7.0 7.0 7.0 7.0	Total Units	Total Cost \$18,200 \$4,550,000 \$4,568,200
Improvement Type Countywide route signage Provide 10 foot bike path Project 53 Brushy Peak to Improvement Type	Unit mile mile Del Valle Trail Unit	Cor Unit Cost \$2,000 \$500,000 Totals Cor Unit Cost	Total Length 7.0 7.0 7.0 Total Length Total Length	Total Units	Total Cost \$18,200 \$4,550,000 \$4,568,200 Total Cost

APPENDIX E-2 SUMMARY OF COST ESTIMATES

Improvement Unit (both sides of road)

(both sides of road)		
Dila Iana (atriaia a arranda arradia a		
Bike lanes (striping, pavement markings		
and signs, no other improvements needed)	mile	\$17,680
Bike routes - route and directional signs		
only	mile	\$2,200
Bike routes -signs and pavement markings	mile	\$2,080
Bicycle Boulevard	mile	\$100,000
Class 2.5	mile	\$102,080
Remove and restripe one lane line- 4"		
thermoplastic (not both sides of road)	mile	\$23,760
Convert 4-lane road to three lanes (twiti)	mile	\$75,000
Standard pavement resurfacing	mile	\$215,920
Shoulder stripe- 4" therm.	mile	-
Shoulder Widening - 4 ft	mile	=
Shoulder Widening - 2 ft	mile	-
Intersection: improve signing/restriping	int.	\$5000-10,000

\$10,000 \$2,400

Low range

Assumptions:

Bike lane: 5000 feet of solid line detail- plus signs per mile and bike lane pavement markings four times per mile t Bike Boulevard: Assumes \$100,000 per mile for miscellaneous improvements such as signs/pavement markings Cost of traffic signals added separately to individual route as needed.

More involved physical changes could exceed this figure. Exact measures need to be determined in Bicycle Bou Bike Boulevard low range assumes signing, pavement markings, spot improvements and modifications to STOP s Class 2.5 average range assumes spot improvements as needed and routes signing and pavement markings. Class 2.5 low range assumes only route signing and pavement markings. This was assumed in Appendix F.

UNIT COST ASSUMPTIONS BEHIND PROJECT COST ESTIMATES

UNIT COST ASSUMPTIONS BEHIND PR	COSECT COST ES	TIMATES
Signing		
install sign	each	\$75.00
install pole	each	\$125.00
install sign and pole	each	\$200.00
remove sign only	each	\$100.00
Striping Thermoplastic		
4 " dashed	LF	\$1.50
4 " solid		\$1.50
Paint 4" solid white or yellow	LF	\$1.00
Paint 4" dashed white or yellow		\$1.00
6" white - solid	LF	\$1.50
6" white - dashed (at intersections)		\$1.50
two-way left turn lane - yellow	LF	\$6.00
raised reflective markers	each	\$5.00
Removal of Striping		
4 inch thermoplastic-solid	LF	\$3.00
4 inch thermoplastic-dashed		\$3.00
4 inch paint-solid	LF	\$1.50
4 inch paint-dashed		\$1.00
Raised reflector removal	each	\$2.00
Install Pavement Marking Symbol		
symbol	SF	\$2.50
Bike stencil for routes	each	\$20.00
Bike lane markings	each	\$30.00
Concrete Work		
curb and gutter- 18"	LF	\$15.00
curb and gutter- 24"	LF	\$20.00
curb and gutter- 30"	LF	\$25.00
curb cut-ramp	each	\$1,500.00
Asphalt Work		
Asphalt concrete	ton	\$60
Asphalt concrete 8 inch depth	sq.ft	\$3.00
Asphalt concrete 4 inch depth	sq.ft	\$1.50

APPENDIX E-2 SUMMARY OF COST ESTIMATES

Improvement	Unit	
Asphalt concrete 3 inch depth	sq.ft	\$1.13
AC- overlay 1.5-2 inches	sq.ft	\$0.75
Aggregate base	ton	\$30
Aggregate base -4 inch depth	sq.ft.	\$0.70
roadway excavation	су	\$25
Grind existing asphalt/fabric	SY	\$3.00
Saw cut before widening	LF	5
Signal Electrical Work		
Traffic Signal	intersection	\$155,000
Signal Modifications	pole	\$100,000
Install Type D (Bicycle Sensitive) Detector	each	\$1,000
Flashing Yellow Beacon	pole	\$15,000
Street Lighting	pole	\$3,000
Replace drainage grate	each	\$500
Repair catch basin frame		\$600
Repair failed pavement near catch basin	SF	\$3.00

Unit costs include labor, material and overhead. Should add 10 to 20 percent contingency to total estimate. Small projects could be double or even triple these unit costs **Source:**

Alameda County Public Works Agency
Wendy Wong, Ken Emeziem, City of Berkeley, 1998
Crisp Company for striping removal in Berkeley

Assumptions:

asphalt: lbs per cu.ft. 150 aggregate base: lbs per cu.ft. 140

Project #	Name	General Limits	Corridor	Total Cost	Gap Closure	Safety	Auto Dependency Reduction	Intermodal Connectivity	Bicyclist Demand	Priority
1	Bay Trail - Northern Alameda County	Contra Costa County line to San Leandro	5	\$2,806,515	Н	L	М	M	Н	High
2	Bay Trail - Southern Alameda County	San Lorenzo to Santa Clara County line	5	\$5,387,460	Н	L	L	M	Н	Medium
3	Fruitvale-Broadway	Skyline Blvd to Shoreline	10	\$3,067,741	L	M	Н	Н	M	High
4	Alameda-Doolittle-Lewelling	Alameda Point to San Leandro	15	\$3,083,080	M	Н	L	L	M	Medium
5	73rd Avenue-Hegenberger	MacArthur Blvd to Oakland Airport	20	\$3,765,353	L	Н	Н	Н	M	High
6	Berkeley-Emeryville I-880 corridor	Contra Costa County line to Oakland	25	\$2,332,721	L	Н	Н	Н	Н	High
7	Oakland I-880 Corridor	Emeryville to Fruitvale Avenue	25	\$2,178,235	L	Н	Н	Н	Н	High
8	BART Trail/San Leandro St	Fruitvale to Hesperian Avenue	25	\$5,653,700	L	Н	Н	Н	Н	High
9	Southern Alameda County I-880 Corridor	Hesperian to Warm Springs Blvd	25	\$6,610,743	M	Н	M	Н	Н	High
10	Davis -Estudillo-Crow Canyon Road	Doolittel to Contra Costa County line	30	\$7,293,554	L	Н	M	Н	M	High
11	Northern Alameda County-I-580-Foothills-	North Berkeley to MacArthur Blvd	35	\$4,626,152	M	Н	Н	M	Н	High
12	MacArthur Blvd I-580- Foothills-	Park Blvd to Camden	35	\$2,005,464	L	Н	M	M	M	Medium
13	Southern Alameda County-I-580-Foothills-	Camden to Santa Clara County line	35	\$7,048,378	Н	Н	L	M	M	High
14	Highway 92 Corridor	Bay to Dublin Grade	40	\$2,135,234	Н	Н	M	H	M	High
15	E. Castro Valley Blvd- Dublin Canyon	Dublin Grade to East Dublin	40	\$2,845,427	Н	M	M	Н	L	High
16	Dublin Blvd Extension	East Dublin to Livermore	40	\$1,435,720	Н	M	L	M	M	Medium
17	Collier Canyon-N. Canyons Parkway	West Livermore	40	\$39,993	Н	M	L	L	M	Medium

			Prioritization Criteria							
Project #	Name	General Limits	Corridor	r Total Cost	Gap Closure	Safety	Auto Dependency Reduction	Intermodal Connectivity	Bicyclist Demand	Priority
18	New Trail in North Livermore	West Livermore to Springtown	40	\$2,023,060	Н	M	L	L	L	Low
19	Northfront/Altamont Pass Road	Springtown to San Joaquin County Line	40	\$2,550,106	L	M	L	L	L	Low
20	Las Positas Creek Trail	North Livermore	40	\$2,952,326	Н	M	M	L	Н	High
21	Arroyo del valle Trail	Pleasanton	60	\$1,566,240	M	M	L	L	Н	Medium
22	Highway 13 Corridor	Bay Trail to MacArthur Blvd	45	\$3,543,072	M	Н	Н	Н	M	High
23	Stoneridge Blvd	Foothill Rd to East Pleasanton	50	\$1,723,972	Н	Н	L	M	M	High
24	Stoneridge Blvd-Jack London Connection	East Pleasanton to West Livermore	50	\$3,979,232	Н	M	M	Н	M	High
25	Jack London Blvd-Portola	West Livermore to East Livermore	50	\$410,852	Н	M	L	M	M	Medium
26	Skyline-Palomares	Berkeley to Niles Canyon	55	\$9,673,490	L	M	L	L	L	Low
27	Stanley- East Avenue	Foothill Road to Greenville Road	60	\$3,795,925	L	M	M	L	Н	Medium
28	San Ramon-Foothill Rd-I-680 Corridor	Contra Costa County line to Niles Canyon Road	65	\$5,735,928	Н	Н	L	M	M	High
29	Iron Horse to Shadow Cliffs Trail	Dublin to Pleasanton	65	\$4,568,200	M	M	M	Н	M	High
30	Niles Canyon to Shadow Cliffs Trail	Niles Canyon to Shadow Cliffs	65	\$3,263,000	L	M	L	L	M	Low
31	Vineyard-Concannon	Pleasanton to Isabel Parkway	70	\$6,988,868	Н	M	L	L	M	Medium
32	Vineyard Avenue Trail	Shadow Cliffs to Del Valle Trail	70	\$4,568,200	L	M	L	L	M	Low
33	Dougherty - Hopyard Roads	Contra Costa County Line to County fairgrounds	75	\$3,006,838	L	Н	L	Н	Н	High

Project #	Name	General Limits	Corridor	Corridor Total Cost	Gap Closure	Safety	Auto Dependency Reduction	Intermodal Connectivity	Bicyclist Demand	Priority
34	Iron Horse Trail	Contra Costa County line to Pleasanton south city limits	75	\$5,220,800	Н	M	M	Н	M	High
35	Iron Horse Trail	Isabel Parkway to San Joaquin County Line	75	\$9,789,000	L	M	L	L	M	Low
36	Avarado-Niles-Niles Canyon	Bay Trail to Niles Canyon	80	\$4,934,277	Н	Н	L	L	M	Medium
37	Vallecitos Rd	Niles Canyon to Livermore	80	\$3,246,605	Н	Н	L	L	L	Medium
38	Tassajara Rd	Contra Costa County Line to downtown Pleasanton	85	\$2,440,201	L	Н	L	L	L	Low
39	Tassajara Creek Trail	Contra Costa County line to Dublin Blvd	85	\$1,305,200	L	M	L	L	L	Low
40	Vasco Road	Contra Costa Countyline to Tesla	95	\$1,143,704	L	Н	L	L	L	Low
41	Damon Slough Bridge	Bay Trail at Damon Slough, Oakland	5	\$1,300,156	Н	M	M	L	Н	High
42	San Leandro Slough Bridge	Bay Trail at Slough, San Leandro	5	\$1,300,156	Н	M	M	L	Н	High
43	Cerrito Creek Bridge	Albany to El Cerrito	25	\$1,300,156	Н	M	M	L	M	Medium
44	42nd Avenue Bridge	BART Trail at 42nd Avenue Bridge	25	\$1,300,156	Н	M	Н	Н	Н	High
45	Hegenberger Undercrossing	BART Trail at Hegenberger Bridge	25	\$1,300,156	Н	M	Н	Н	Н	High
46	Emeryville Ped/bike Overcrossing	Bay Trail to Shellmound	45	\$6,500,780	Н	M	Н	Н	Н	High
47	Highway 24 Ped/bike Overcrossing	Tunnel Rd to Lake Temescal	45	\$6,500,780	Н	M	Н	M	Н	High
48	Bridge over Altamont Creek	Las Positas CreekTrail Bridge	40	\$1,300,260	L	M	M	M	M	Medium
49	I-580 Undercrossing	Los Positas Creek Trail	40	\$2,600,260						High

							Prioritization Ci	riteria		
Project #	Name	General Limits	Corridor	Total Cost	Gap Closure	Safety	Auto Dependency Reduction	Intermodal Connectivity	Bicyclist Demand	Priority
50	Livermore Avenue Undercrossing	Los Positas Creek Trail	40	\$2,600,520						High
51	Oakland-Alameda Connection	Alameda to Oakland Bay Trail	15	\$6,500,650	Н	Н	Н	Н	Н	High
52	Arroyo Mocho Trail	I-680 to Isabel Pkwy	50	\$4,568,200						High
53	Brushy Peak to Del Valle Trail	Livermore	95	\$4,568,200						High

NOTES:

- Cost estimates include \$2,000/mile for route signage.
 Total Cost includes 30% for design and administration and contingencies. Does not include right-of-way acquisition or factors for inflation.

Appendix E-4

HIGH PRIORITY PROJECTS

Project 1 - Bay Trail- Corridor Route 5:

from Contra Costa County line to San Leandro

Jurisdictions: Albany, Berkeley, Emeryville, Oakland and San Leandro

Description: This project is the northern half of the Bay Trail in Alameda County, and consists of both on and off-street segments. The two needed bridges along this section of Bay Trail are separate projects. The alignment depicted in this plan is the current planned alignment, but in some sections, the alignment may change when feasibility studies are conducted. In particular, a new alignment through downtown Oakland has been proposed to be closer to the shoreline, and is currently under study. This alignment would be included in the Countywide Plan in future updates if and when it becomes an official Bay Trail Route.

Spur Routes: To the Oakland Coliseum and the Shellmound to Maritime Bikeway

Total Cost: \$2.8 million

Project 3 - Fruitvale- Broadway- Corridor Route 10:

from Skyline Boulevard to Shoreline

Jurisdictions: Oakland and Alameda

Description: This corridor would include bike lanes where possible on Redwood Road and Fruitvale Avenue in Oakland and Broadway Street in Alameda. Also recommended are routes on parts of East 23rd and Coolidge and wider curb lanes on Tilden Way. The cost also includes 3.5 miles of arterial improvements and improved railroad track crossings on Fruitvale Avenue.

Signals: Foothill Boulevard at 34th Avenue and 34th Avenue at E. 12th Street

Total Cost: \$3.0 million

Project 5 – 73rd Avenue-Hegenberger Road- Corridor Route 20:

from MacArthur Boulevard to Oakland Airport

Jurisdictions: Oakland

Description: This project is primarily bike lanes on 73rd Avenue, Hegenberger and Airport

Drive. Arterial improvements would be recommended for the entire length of 4.3 miles.

Spur routes: To connect the Coliseum with the Bay Trail along Damon Slough with an

undefined connection to cross over I-880.

Total Cost: \$3.8 million

Project 6 - Berkeley-Emeryville-I-880-

Corridor Route 25:

from Contra Costa County line to Oakland city limit

Jurisdictions: Albany, Berkeley and Emeryville

Description: This project is composed of the residential streets Washington and Jackson in Albany, the Ninth Street Bicycle Boulevard through Berkeley, a trail along the Railroad ROW in Berkeley and Emeryville, and bike lanes and routes on Emeryville Streets. This project also requires a gap closure, identified as project 43, a bridge over Cerrito Creek, to connect with Carlson Boulevard and the El Cerrito del Norte BART station in Contra Costa County.

Signals: Ninth Street at Cedar, Doyle at Stanford and on the California Avenue Spur at Dwight, 61st Street and Ashby Avenue.

Spur routes: To Route 35 to connect downtown Oakland with Central and North Berkeley via California and Market Street

Total Cost: \$2.3 million

Project 7 - Oakland I-880 Corridor Route 25:

from Emeryville to Fruitvale Avenue

Jurisdictions: Oakland

Description: This 11 mile segment of Corridor 25 would have bike lanes on Market Street through downtown Oakland and continue on 14th Street/ International Boulevard via the Madison/Oak couplet. There would be almost three miles of arterial improvements.

Signals: San Pablo at Market, UPRR Trail at Seminary, 66th Avenue, 98th Avenue.

Spur routes: To 19th Street BART, the Ferry Terminal, the Bay Bridge, California Avenue and

Telegraph Avenue.

Total Cost: \$2.2 million

Project 8 - BART Trail Corridor 25:

from Fruitvale to Hesperian Avenue

Jurisdictions: Oakland and San Leandro

Description: This project consists of providing a trail along the Union Pacific ROW adjacent to the elevated BART tracks. It also includes bike lanes on San Leandro Street in Oakland and San Leandro Boulevard in San Leandro from Fruitvale Avenue to Hesperian Boulevard This project also includes a connection to the Bay Trail in the vicinity of the Coliseum over I-880.

Signals: Trail at High Street Trail at 98th Avenue; Trail at Seminary. Spur route to Bay Trail Coliseum.

Total Cost: \$5.7 million

Project 9 – Southern Alameda County I-880 – Corridor 25:

from Hesperian to Warm Springs Boulevard

Jurisdictions: Hayward, Union City, Fremont, Newark and San Lorenzo

Description: Provide wide curb lanes on parts of Hesperian Boulevard, Brittany, and Cherry Street. Provide bike lanes along Union City Boulevard to Ardenwood Boulevard It also includes 18 miles of arterial improvements.

Total Cost: \$6.6 million

Project 10 - Davis-Estudillo- Crow Canyon Road- Corridor Route 30:

from Doolitte Drive to Contra Costa County line

Jurisdictions: San Leandro, Unincorporated and Castro Valley

Description: This project would provide bike lanes on Davis and wide curb lanes or shoulders

on Lake Chabot Road, Redwood Road and Crow Canyon Road.

Total Cost: \$7.3 million

Project 11 - Northern Alameda County-I-580-Foothills - Corridor Route 35:

from North Berkeley to MacArthur Boulevard

Jurisdictions: Albany, Berkeley and Oakland

Description: This project runs from North Berkeley through Lakeshore Avenue in Oakland. The project is composed of the Ohlone Trail in Berkeley, portions of the Bicycle Boulevard system, and connects to Oakland via bike lanes on Telegraph Avenue and on 27th Avenue.

Signals: Ohlone Trail at Marin; Ohlone Trail at Cedar; Virginia at Martin Luther King; Bowditch at Dwight and Hillegass at Ashby.

Spur routes: To UC Berkeley: Hearst from Milvia to Arch and Bowditch from Channing Way to Bancroft Way; to Rockridge BART: 57th/Ayala/Forest from Telegraph Avenue; to downtown Piedmont: Grand Avenue from El Embarcadero to Wildwood/Highland to Piedmont City Hall; to Montclair: Trestle Glen and Park Boulevard

Total Cost: \$4.6 million

Project 13 - Southern Alameda County-I-580- Foothills Corridor 35:

from Camden Avenue to Santa Clara County line

Jurisdictions: Oakland, San Leandro, San Lorenzo, Castro Valley, Hayward, Union City and Fremont

Description: This project primarily includes bike lanes along Bancroft Avenue in Oakland and San Leandro, wide curb lanes along Mission Boulevard and other streets in Hayward, Decoto Road in Union City, Paseo Padre Parkway, Grimmer Boulevard and Warm Springs in Fremont.

Spur routes: To CSU Hayward: Carlos Bee Street; and to Ohlone College from Washington Boulevard to Driscoll; to downtown Fremont via Walnut. The spur route, Carlos Bee Street, is on a severe grade and improved bike access to transit should be provided.

Total Cost: \$7.0 million

Project 14 - Highway 92- Corridor Route 40:

from Bay Trail to Dublin Grade

Jurisdictions: Hayward and Castro Valley

Description: This project is composed of providing about four miles of bike lanes on Clawiter Road, Winton Avenue, Santa Clara Street, "A" Street and Castro Valley Boulevard Recommendations also include adding wide curb lanes on Breakwater Avenue, Clawiter Road, Middle Lane, Southland Drive and Castro Valley Boulevard

Total Cost: \$2.1 million

Project 15 - East Castro Valley Boulevard - Dublin Canyon - Corridor Route 40:

from Dublin Grade to East Dublin

Jurisdictions: Castro Valley, Unincorporated, Pleasanton and Dublin

Description: This project consists of bike lanes where possible on Foothill Road and Dublin Boulevard with wide shoulders along Dublin Canyon Road and wide curb lanes on Dublin

Boulevard Seven miles of this 12 mile project are arterial roadways.

Total Cost: \$2.9 million

Project 20 - Las Positas Creek Trail- Dublin Canyon- Corridor Route 40:

from Las Positas College to East Livermore

Jurisdictions: Livermore

Description: This project consists of finishing the trail along Las Positas Creek. Two crossings

of I-580 are separate projects as is the undercrossing of North Livermore Avenue

Total Cost: \$3.0 million

Project 22 – Highway 13 Corridor Route 45:

from Bay Trail to MacArthur Boulevard

Jurisdictions: Emeryville, Berkeley and Oakland

Description: The route runs from Emeryville through Berkeley to mid-Oakland. This project consists of adding bike lanes on Caldecott Lane, Upper Broadway, Moraga Way and Mountain Boulevard in Montclair. Bike routes are recommended on 66th Street/Woolsey Street, California Avenue, Duncan Way and Fernwood Drive. A needed gap closure along this route is Project 47, an overcrossing over Highway 24.

Signals: Russell at Claremont

Spur routes: Adeline from Russell to Ashby BART and Old Tunnel Road to Skyline

Total Cost: \$3.5 million

Project 23 – Stoneridge Boulevard – Corridor Route 50:

from Foothill Road to East Pleasanton

Jurisdictions: Pleasanton

Description: This project consists of adding both bike lanes and wide curb lanes on Stoneridge

Boulevard It also includes 4.5 miles of arterial improvements.

Total Cost: \$1.7 million

Project 24 - Stoneridge Boulevard- Jack London Boulevard Connection-Corridor Route 50:

from East Pleasanton to West Livermore

Jurisdictions: Pleasanton, unincorporated County and Livermore

Description: This project consists of constructing a bike path to connect Stoneridge Boulevard and Jack London Boulevard It also would provide bike lanes on Jack London Boulevard and a trail parallel to Jack London Boulevard to close the gap between Pleasanton and Isabel Parkway.

Total Cost: \$4.0 million

Project 28 - San Ramon- Foothill Rd-I-680 Corridor Route 65:

from Contra Costa County line to Niles Canyon Road

Jurisdictions: Dublin and Pleasanton

Description: This project's recommendations are to add bike lanes along San Ramon Road and Foothill Road and to add wide shoulders to Castlewood Drive and Pleasanton/Sunol Road. A total of three miles of arterial improvements was assumed along the 11-mile project.

Spur routes: to Ohlone College from Mission Street.

Total Cost: \$5.7 million

Project 29 - Iron Horse to Shadow Cliffs Trail- Corridor Route 65:

from Contra Costa County line to South Pleasanton

Jurisdictions: Dublin and Pleasanton

Description: This project is a series of trails that will provide a good off-road alternative that

roughly parallels I-680 and Foothill Road.

Total Cost: \$4.6 million

Project 33 – Dougherty-Hopyard- Corridor Route 75:

from Contra Costa County Line to County fairgrounds

Jurisdictions: Dublin and Pleasanton

Description: This project consists of bike lanes along Dougherty Road, Hopyard Road and Pleasanton Avenue and wide curb lanes on sections of Dougherty Road and Pleasanton Avenue.

Total Cost: \$3.0 million

Project 34 – Iron Horse Trail– Corridor Route 75:

from Contra Costa County line to South Pleasanton

Jurisdictions: Dublin and Pleasanton

Description: This project is the continuation of the existing Iron Horse Trail along the abandoned Southern Pacific right-of-way that begins in Concord and currently terminates at the border of Alameda and Contra Costa Counties.

Total Cost: \$5.2 million

Project 41 - Damon Slough Bridge Bay Trail-Oakland- Corridor Route 5:

Jurisdictions: Oakland

Description: This project consists of a pedestrian/bike bridge over Damon Slough. This bridge

is part of the Bay Trail section in Oakland.

Total Cost: \$1.3 million

Project 42 - San Leandro Slough Bridge Bay Trail Corridor Route 5:

Jurisdictions: San Leandro

Description: This project consists of a pedestrian/bike bridge over the slough. This bridge is part

of the Bay Trail in San Leandro.

Total Cost: \$1.3 million

Project 44 – BART Trail at 42nd Avenue Bridge– Corridor Route 25:

Jurisdictions: Oakland

Description: This project improves the existing bridge in Oakland at 42nd Avenue.

Total Cost: \$1.3 million

Project 45 - BART Trail at Hegenberger Bridge- Corridor Route 25:

Jurisdictions: Oakland

Description: This project improves the undercrossing at the BART trail at Hegenberger in

Oakland.

Total Cost: \$1.3 million

Project 46 - Emeryville Pedestrian/Bike Overcrossing - Corridor Route 45:

from Bay Trail to Shellmound Street

Jurisdictions: Emeryville

Description: This project, shown in the Emeryville bike plan, is a bridge over I-80 to connect the Bay Trail to Corridor 45. The exact location is undetermined, but would be located between Ashby and Powell. The landings on the east and west sides of I-80 have been tentatively identified. The project could integrate with plans for a Temescal Creek Greenway.

Total Cost: \$6.5 million

Project 47 - Highway 24 Pedestrian/Bike Overcrossing Corridor Route 45:

from Tunnel Rd to Lake Temescal

Jurisdictions: Oakland

Description: This project consists of a bridge over Highway 24 to improve the connection from

Tunnel Road in Berkeley to the Lake Temescal bike path in Oakland.

Total Cost: \$6.5 million

Project 51 - Oakland-Alameda Connection -Corridor Route 15: from Constitution Way, Alameda to Bay Trail - Jack London Square

Jurisdictions: Alameda and Oakland

Description: This project is currently undefined but would close the gap between the island of Alameda and Oakland in the vicinity of Jack London Square and the Webster and Posey tubes. A placeholder amount of \$4.2 million dollars has been estimated for the capital costs associated with this project. Operational and maintenance costs must also be identified for this project. In this particular corridor, the estuary is currently a formidable, virtually insurmountable barrier for pedestrians and bicyclists. However, the latent demand for such travel between the two cities due to the proximity of downtown Oakland, Jack London Square, BART, the College of Alameda and Laney College is considerable. The current link for bicyclists and pedestrians is a narrow and hazardous sidewalk within one of the existing tubes. Constructing a third tube or widening one of the existing tubes for bicyclists and pedestrians appears to be financially and physically infeasible due to activities at the Port of Oakland and other structures. The existing link, even if widening were feasible, would remain a health hazard not to mention unappealing to non-motorized users due to the conditions of the dark, exhaust-filled tunnel.

A bridge (either pivot or drawbridge) could provide an efficient link for bicyclists and pedestrians. However the costs, including operations and maintenance, associated with this concept appear to pose a serious constraint. Additionally, ship traffic at the Port of Oakland. which projected to increase, would pose considerable constraint for a bridge sited in



proximity to the existing tube.

The most attainable short term solution would incorporate a consistently scheduled water taxi/ferry with reasonable fares servicing recreational and commuter pedestrian and cyclists.

Next Steps: A task force should be established to identify long-term options that warrant further consideration and address operations and maintenance issues. The task force could review the bridge concept, as well as future technologies that could reduce the costs and increase the feasibility of constructing another tube (intended for bicycle, pedestrian and transit use), as possible options.

Capital Cost: \$6.2 million

Operational and Maintenance Cost: Project Dependant

Appendix E-4 HIGH PRIORITY PROJECTS

Project #	Name	Corridor #	General Limits	Length (mi)	Jurisdictions	Total Cost
1	Bay Trail - Northern Alameda County	5	Contra Costa County line to San Leandro	35.1	Albany, Berkeley, Emeryville, Oakland, San Leandro	\$2,806,515
3	Fruitvale-Broadway	10	Skyline Blvd to Shoreline	7.9	Alameda, Oakland	\$3,067,741
5	73rd Avenue-Hegenberger	20	MacArthur Blvd to Oakland Airport	5.2	Oakland	\$3,765,353
6	Berkeley-Emeryville I-880 corridor	25	Contra Costa County line to Oakland	8.1	Albany, Berkeley, Emeryville	\$2,332,721
7	Oakland I-880 Corridor	25	Emeryville to Fruitvale Avenue	12.1	Oakland	\$2,178,235
8	BART Trail/San Leandro St	25	Fruitvale to Hesperian Avenue	12.9	Oakland, San Leandro	\$5,653,700
9	Southern Alameda County I-880 Corridor	25	Hesperian to Warm Springs Blvd	22.7	Fremont, Hayward, Newark, San Leandro, San Lorenzo, Union City	\$6,610,743
10	Davis -Estudillo-Crow Canyon Road	30	Doolittel to Contra Costa County line	16.6	Castro Valley, San Leandor, Unincorporated	\$7,293,554
11	Northern Alameda County-I-580-Foothills-	35	North Berkeley to MacArthur Blvd	16.1	Albany, Berkeley, Oakland	\$4,626,152
13	Southern Alameda County-I-580-Foothills-	35	Camden to Santa Clara County line	32.5	Castro Valley, Cherryland, Fremont, Hayward, Oakland, Piedmont, San Leandro, San Lorenzo, Union City	\$7,048,378
14	Highway 92 Corridor	40	Bay to Dublin Grade	7.7	Castro Valley, Hayward	\$2,135,234
15	E. Castro Valley Blvd- Dublin Canyon	40	Dublin Grade to East Dublin	11.7	Castro Valley, Dublin, Pleasanton, Unincorporated	\$2,845,427
20	Las Positas Creek Trail	40	North Livermore	5.9	Livermore	\$2,952,326
22	Highway 13 Corridor	45	Bay Trail to MacArthur Blvd	16.5	Berkeley, Emeryville, Oakland	\$3,543,072

Appendix E-4 HIGH PRIORITY PROJECTS

Project #	Name	Corridor #	General Limits	Length (mi)	Jurisdictions	Total Cost
23	Stoneridge Blvd	50	Foothill Rd to East Pleasanton	4.5	Pleasanton	\$1,723,972
24	Stoneridge Blvd-Jack London Connection	50	East Pleasanton to West Livermore	6.8	Livermore, Pleasanton	\$3,979,232
28	San Ramon-Foothill Rd-I-680 Corridor	65	Contra Costa County line to Niles Canyon Road	19.5	Fremont, Pleasanton	\$5,735,928
29	Iron Horse to Shadow Cliffs Trail	65	Dublin to Pleasanton	7.0	Pleasanton	\$4,568,200
33	Dougherty - Hopyard Roads	75	Contra Costa County Line to County fairgrounds	6.0	Dublin, Livermore, Pleasanton	\$3,006,838
34	Iron Horse Trail	75	Contra Costa County line to Pleasanton south city limits	8.0	Pleasanton	\$5,220,800
41	Damon Slough Bridge	5	Bay Trail at Damon Slough, Oakland	0.1	Dublin, Oakland	\$1,300,156
42	San Leandro Slough Bridge	5	Bay Trail at Slough, San Leandro	0.1	San Leandro	\$1,300,156
44	42nd Avenue Bridge	25	BART Trail at 42nd Avenue Bridge	0.1	Oakland	\$1,300,156
45	Hegenberger Undercrossing	25	BART Trail at Hegenberger Bridge	0.1	Oakland	\$1,300,156
46	Emeryville Ped/bike Overcrossing	45	Bay Trail to Shellmound	0.3	Emeryville	\$6,500,780
47	Highway 24 Ped/bike Overcrossing	45	Tunnel Rd to Lake Temescal	0.3	Oakland	\$6,500,780
51	Oakland-Alameda Connection	15	Alameda to Oakland Bay Trail	0.3	Alameda, Oakland	\$6,500,650
					Total Cost	\$105.706.054

NOTES:

Total Cost

\$105,796,954

See Appendix E-2 for Unit Cost Assumptions.
 Total Cost includes 30% for design and administration and contingencies. Does not include right-of-way acquisition or factors for inflation.