

Cost Estimate

Cost Estimate for Opening Year 2025.

Category		California Ave - Alt. #1	California Ave - Alt. #2	California Ave - Alt. #3	Lamb Canyon - Alt. #1	Lamb Canyon - Alt. #2	Lamb Canyon - Alt. #3	SR-79 Mainline	SR-79 Mainline
Section	Item	Hook Ramps	Spread Diamond	Hybrid	Tight Diamond	Spread Diamond	Trumpet	North	South
1	Earthwork	\$ 8,478,000	\$ 15,962,000	\$ 3,642,000	\$ 4,095,000	\$ 8,292,000	\$ 8,638,000	\$ 131,009,000	\$ 280,118,000
2	Pavement Structural Section	\$ 3,284,000	\$ 3,025,000	\$ 2,924,000	\$ 1,261,000	\$ 1,493,000	\$ 1,604,000	\$ 24,390,000	\$ 34,255,000
3	Drainage	\$ 1,177,000	\$ 1,899,000	\$ 657,000	\$ 536,000	\$ 979,000	\$ 1,025,000	\$ 15,540,000	\$ 31,438,000
4	Specialty Items	\$ 236,000	\$ 380,000	\$ 132,000	\$ 108,000	\$ 196,000	\$ 205,000	\$ 3,108,000	\$ 6,288,000
5	Environmental	\$ 589,000	\$ 950,000	\$ 329,000	\$ 268,000	\$ 490,000	\$ 513,000	\$ 7,770,000	\$ 15,719,000
6	Traffic Items	\$ 589,000	\$ 950,000	\$ 329,000	\$ 268,000	\$ 490,000	\$ 513,000	\$ 7,770,000	\$ 15,719,000
7	Detours	\$ 589,000	\$ 950,000	\$ 329,000	\$ 268,000	\$ 490,000	\$ 513,000	\$ 7,770,000	\$ 15,719,000
8	Minor Items	\$ 1,345,000	\$ 2,171,000	\$ 751,000	\$ 613,000	\$ 1,119,000	\$ 1,171,000	\$ 17,763,000	\$ 35,933,000
9	Roadway Mobilization	\$ 1,629,000	\$ 2,629,000	\$ 909,000	\$ 742,000	\$ 1,355,000	\$ 1,418,000	\$ 21,512,000	\$ 43,519,000
10	Supplemental Work	\$ 652,000	\$ 1,052,000	\$ 364,000	\$ 297,000	\$ 542,000	\$ 568,000	\$ 8,605,000	\$ 17,408,000
11	State Furnished	\$ 326,000	\$ 526,000	\$ 182,000	\$ 149,000	\$ 271,000	\$ 284,000	\$ 4,303,000	\$ 8,704,000
12	Time-Related Overhead	\$ 977,000	\$ 1,577,000	\$ 546,000	\$ 445,000	\$ 813,000	\$ 851,000	\$ 12,908,000	\$ 26,112,000
13	Total Roadway Contingency	\$ 5,959,000	\$ 9,620,000	\$ 3,327,000	\$ 2,262,000	\$ 4,131,000	\$ 4,324,000	\$ 65,611,000	\$ 132,732,000
14	Structure Items	\$ 31,414,000	\$ 24,810,000	\$ 36,342,000	\$ 54,081,000	\$ 56,404,000	\$ 55,322,000	\$ 86,628,000	\$ 92,394,000
15	Right of Way	\$ 13,177,000	\$ 11,314,000	\$ 10,286,000	\$ 1,012,000	\$ 2,213,000	\$ 2,646,000	\$ 2,268,000	\$ 14,165,000
16	Support Cost	\$ 11,267,000	\$ 12,450,000	\$ 9,767,000	\$ 10,624,000	\$ 12,684,000	\$ 12,734,000	\$ 66,713,000	\$ 123,235,000
Total Project Cost		\$ 81,688,000	\$ 90,265,000	\$ 70,816,000	\$ 77,029,000	\$ 91,962,000	\$ 92,329,000	\$ 483,668,000	\$ 893,458,000

California Ave. - Alternative #1: Hook Ramps

Cost Estimate for Opening Year 2025.

COST ESTIMATE SUMMARY				
Section	Item	Current Cost (2021)	Escalated Cost (2025)	
1	Earthwork	\$ 7,184,563	\$ 8,477,785	
2	Pavement Structural Section	\$ 2,782,657	\$ 3,283,535	
3	Drainage	\$ 996,722	\$ 1,176,132	
4	Specialty Items	\$ 199,344	\$ 235,226	
5	Environmental	\$ 498,361	\$ 588,066	
6	Traffic Items	\$ 498,361	\$ 588,066	
7	Detours	\$ 498,361	\$ 588,066	
8	Minor Items	\$ 1,139,253	\$ 1,344,319	
9	Roadway Mobilization	\$ 1,379,762	\$ 1,628,119	
10	Supplemental Work	\$ 551,905	\$ 651,248	
11	State Furnished	\$ 275,952	\$ 325,624	
12	Time-Related Overhead	\$ 827,857	\$ 976,872	
13	Total Roadway Contingency	\$ 5,049,930	\$ 5,958,917	
14	Structure Items	\$ 26,622,000	\$ 31,413,960	
15	Right of Way	\$ 11,166,873	\$ 13,176,910	
16	Support Cost	\$ 9,547,504	\$ 11,266,055	
Total Project Cost		\$ 69,219,407	\$ 81,678,900	

CAPITAL OUTLAY COST					
PART I: ROADWAY ITEMS SUMMARY					
Section 1: Earthwork					
Code	Item	Unit	Quantity	Unit Price	Cost
190101	Roadway Excavation (Cut)	CY	213,968	\$32.47	\$ 6,947,541
198010	Imported Borrow (Fill)	CY	9,350	\$25.35	\$ 237,023
Subtotal Earthwork					\$ 7,184,563

Section 2: Pavement Structural Section					
Code	Item	Unit	Quantity	Unit Price	Cost
418002	Remove Concrete Pavement and Base	CY	3,241	\$43.50	\$ 140,972
260203	Class 2 Aggregate Base (AB)	CY	8,807	\$59.69	\$ 525,672
280000	Lean Concrete Base (LCB)	CY	8,807	\$141.38	\$ 1,245,092
390132	Hot Mix Asphalt (Type A)	TON	8,620	\$101.04	\$ 870,920
Subtotal Pavement					\$ 2,782,657

Sections 3-11: Additional Roadway Items				
Section	Item	Description	Percent	Cost
Section 3	Drainage	Culvert, Inlets, Pipes, Grates, Rip Rap	10.00%	\$ 996,722
Section 4	Specialty Items	Progress Schedule (Critical Path Method)	2.00%	\$ 199,344
Section 5	Environmental	Sound Wall (Masonry Block)	5.00%	\$ 498,361
Section 6	Traffic Items	Environmental Mitigation	5.00%	\$ 498,361
Section 7	Detours	Landscape And Irrigation	5.00%	\$ 498,361
Section 8	Minor Items	Traffic Electrical	5.00%	\$ 498,361
Section 9	Roadway Mobilization	Traffic Signing and Striping	5.00%	\$ 498,361
Section 10	Supplemental Work	Includes constructing, maintaining, and removal of Roadway Excavation	5.00%	\$ 498,361
Section 11	State Furnished Materials	Total of Section 1-7 x 9%	9.00%	\$ 1,139,253
Section 12	Time-Related Overhead	8A - Americans with Disabilities Act Items	10.00%	\$ 1,379,762
Section 13	Total Roadway Contingency	Total of Section 1-8 x 10%	4.00%	\$ 551,905
		Total of Section 1-8 x 2%	2.00%	\$ 275,952
		Resident Engineers Office	6.00%	\$ 827,857
		Total of Roadway and Structures Contract Items excluding Mobilization	30.00%	\$ 5,049,930
Recommended Total Contingency: (Pre-PSR (feasibility) 20%-50%, PSR (initiation) 25%, Draft				\$ 11,915,810

PART II: STRUCTURE ITEMS					
Code	Item	Unit	Quantity	Unit Price	Cost
510053	CIP/PS Box Girder	SF	12,000	\$380.00	\$ 4,560,000
510051	Retaining Wall (Mainline)	LF	1,000	\$5,400.00	\$ 5,400,000
510052	Retaining Wall (Alts, Ramps)	LF	4,200	\$2,000.00	\$ 8,400,000
				Time-Related Overhead	\$ 1,836,000
				Structures Mobilization	\$ 1,836,000
				Structures Contingency	\$ 4,590,000
Subtotal Structure Items					\$ 26,622,000

PART III: RIGHT OF WAY					
Code	Item	Unit	Quantity	Unit Price	Cost
ROW 1	Vacant Land (Undevelop Property)	SF	1,614,838	\$6.00	\$ 9,689,028
ROW 2	Residential Property (homes, garages, barns, and major buildings)	SF	98,523	\$15.00	\$ 1,477,845
ROW 3	Commercial Property (buildings and critical open space)	SF	0	\$19.00	\$ -
Subtotal Right of Way					\$ 11,166,873

TOTAL SUPPORT COST					
PART IV: SUPPORT COST ESTIMATE SUMMARY					
Sections 16: Support Cost Items					
Code	Description	Percent	Cost		
PA/ED	PA/ED Support	4.00%	\$ 2,386,876		
PS&E	PS&E Support	4.00%	\$ 2,386,876		
ROW	Right of Way Support	4.00%	\$ 2,386,876		
CS	Construction Support	4.00%	\$ 2,386,876		
Subtotal Support Cost					\$ 9,547,504

California Ave. - Alternative #2: Spread Diamond

Cost Estimate for Opening Year 2025.

COST ESTIMATE SUMMARY				
Section	Item	Current Cost (2021)	Escalated Cost (2025)	
1	Earthwork	\$ 13,526,833	\$ 15,961,663	
2	Pavement Structural Section	\$ 2,562,950	\$ 3,024,282	
3	Drainage	\$ 1,608,978	\$ 1,898,594	
4	Specialty Items	\$ 321,796	\$ 379,719	
5	Environmental	\$ 804,489	\$ 949,297	
6	Traffic Items	\$ 804,489	\$ 949,297	
7	Detours	\$ 804,489	\$ 949,297	
8	Minor Items	\$ 1,839,062	\$ 2,170,094	
9	Roadway Mobilization	\$ 2,227,309	\$ 2,628,224	
10	Supplemental Work	\$ 890,924	\$ 1,051,290	
11	State Furnished	\$ 445,462	\$ 525,645	
12	Time-Related Overhead	\$ 1,336,385	\$ 1,576,935	
13	Total Roadway Contingency	\$ 8,151,950	\$ 9,619,301	
14	Structure Items	\$ 21,025,000	\$ 24,809,500	
15	Right of Way	\$ 9,587,502	\$ 11,313,252	
16	Support Cost	\$ 10,550,019	\$ 12,449,023	
Total Project Cost		\$ 76,487,638	\$ 90,255,413	

CAPITAL OUTLAY COST					
PART I: ROADWAY ITEMS SUMMARY					
Section 1: Earthwork					
Code	Item	Unit	Quantity	Unit Price	Cost
190101	Roadway Excavation (Cut)	CY	416,587	\$32.47	\$ 13,526,580
198010	Imported Borrow (Fill)	CY	10	\$25.35	\$ 254
Subtotal Earthwork					\$ 13,526,833

Section 2: Pavement Structural Section					
Code	Item	Unit	Quantity	Unit Price	Cost
418002	Remove Concrete Pavement and Base	CY	3,241	\$43.50	\$ 140,972
260203	Class 2 Aggregate Base (AB)	CY	8,074	\$59.69	\$ 481,953
280000	Lean Concrete Base (LCB)	CY	8,074	\$141.38	\$ 1,141,539
390132	Hot Mix Asphalt (Type A)	TON	7,903	\$101.04	\$ 798,487
Subtotal Pavement					\$ 2,562,950

Sections 3-11: Additional Roadway Items				
Section	Item	Description	Percent	Cost
Section 3	Drainage	Culvert, Inlets, Pipes, Grates, Rip Rap	10.00%	\$ 1,608,978
Section 4	Specialty Items	Progress Schedule (Critical Path Method)	2.00%	\$ 321,796
Section 5	Environmental	Sound Wall (Masonry Block)	5.00%	\$ 804,489
Section 6	Traffic Items	Environmental Mitigation	5.00%	\$ 804,489
Section 7	Detours	Landscape And Irrigation	5.00%	\$ 804,489
Section 8	Minor Items	Traffic Electrical	5.00%	\$ 804,489
Section 9	Roadway Mobilization	Traffic Signing and Striping	5.00%	\$ 804,489
Section 10	Supplemental Work	Includes constructing, maintaining, and removal of Roadway Excavation	5.00%	\$ 804,489
Section 11	State Furnished Materials	Total of Section 1-7 x 9%	9.00%	\$ 1,839,062
Section 12	Time-Related Overhead	RA - Americans with Disabilities Act Items	10.00%	\$ 2,227,309
Section 13	Total Roadway Contingency	Total of Section 1-8 x 10%	4.00%	\$ 890,924
		Total of Section 1-8 x 2%	2.00%	\$ 445,462
		Resident Engineers Office	6.00%	\$ 1,336,385
		Total of Roadway and Structures Contract Items excluding Mobilization	30.00%	\$ 8,151,950
		Recommended Total Contingency: (Pre-PSR (feasibility) 30%-50%, PSR (initiation) 25%, Draft		
Subtotals Section 3-13				\$ 19,235,333

PART II: STRUCTURE ITEMS						
Code	Item	Unit	Quantity	Unit Price	Cost	
510053	CIP/PS Box Girder	SF	25,000	\$380.00	\$ 9,500,000	
510051	Retaining Wall (Mainline)	LF	0	\$5,400.00	\$ -	
510052	Retaining Wall (Alts, Ramps)	LF	2,500	\$2,000.00	\$ 5,000,000	
				Time-Related Overhead	10.00%	\$ 1,450,000
				Structures Mobilization	10.00%	\$ 1,450,000
				Structures Contingency	25.00%	\$ 3,625,000
Subtotal Structure Items					\$ 21,025,000	

PART III: RIGHT OF WAY					
Code	Item	Unit	Quantity	Unit Price	Cost
ROW 1	Vacant Land (Undevelop Property)	SF	1,235,102	\$6.00	\$ 7,410,612
ROW 2	Residential Property (homes, garages, barns, and major buildings)	SF	145126	\$15.00	\$ 2,176,890
ROW 3	Commercial Property (buildings and critical open space)	SF	0	\$19.00	\$ -
Subtotal Right of Way					\$ 9,587,502

TOTAL SUPPORT COST				
PART IV: SUPPORT COST ESTIMATE SUMMARY				
Sections 16: Support Cost Items				
Code	Description	Percent	Cost	
PA/ED	PA/ED Support	4.00%	\$ 2,637,505	
PS&E	PS&E Support	4.00%	\$ 2,637,505	
ROW	Right of Way Support	4.00%	\$ 2,637,505	
CS	Construction Support	4.00%	\$ 2,637,505	
Subtotal Support Cost				\$ 10,550,019

California Avenue - Alternative #3: Hybrid

Cost Estimate for Opening Year 2025.

COST ESTIMATE SUMMARY				
Section	Item	Current Cost (2021)	Escalated Cost (2025)	
1	Earthwork	\$ 3,085,806	\$	3,641,251
2	Pavement Structural Section	\$ 2,477,583	\$	2,923,548
3	Drainage	\$ 556,339	\$	656,480
4	Specialty Items	\$ 111,268	\$	131,296
5	Environmental	\$ 278,169	\$	328,240
6	Traffic Items	\$ 278,169	\$	328,240
7	Detours	\$ 278,169	\$	328,240
8	Minor Items	\$ 635,895	\$	750,357
9	Roadway Mobilization	\$ 770,140	\$	908,765
10	Supplemental Work	\$ 308,056	\$	363,506
11	State Furnished	\$ 154,028	\$	181,753
12	Time-Related Overhead	\$ 462,084	\$	545,259
13	Total Roadway Contingency	\$ 2,818,712	\$	3,326,081
14	Structure Items	\$ 30,798,000	\$	36,341,640
15	Right of Way	\$ 8,716,569	\$	10,285,551
16	Support Cost	\$ 8,276,638	\$	9,766,433
Total Project Cost		\$ 60,005,628	\$	70,806,641

CAPITAL OUTLAY COST

PART I: ROADWAY ITEMS SUMMARY

Section 1: Earthwork

Code	Item	Unit	Quantity	Unit Price	Cost
190101	Roadway Excavation (Cut)	CY	94,963	\$32.47	\$ 3,083,449
198010	Imported Borrow (Fill)	CY	93	\$25.35	\$ 2,358
Subtotal Earthwork					\$ 3,085,806

Section 2: Pavement Structural Section

Code	Item	Unit	Quantity	Unit Price	Cost
418002	Remove Concrete Pavement and Base	CY	3,241	\$43.50	\$ 140,972
260203	Class 2 Aggregate Base (AB)	CY	7,790	\$59.69	\$ 464,965
280000	Lean Concrete Base (LCB)	CY	7,790	\$141.38	\$ 1,101,303
390132	Hot Mix Asphalt (Type A)	TON	7,624	\$101.04	\$ 770,343
Subtotal Pavement					\$ 2,477,583

Sections 3-11: Additional Roadway Items

Section	Item	Description	Percent	Cost
Section 3	Drainage	Culvert, Inlets, Pipes, Grates, Rip Rap	10.00%	\$ 556,339
Section 4	Specialty Items	Progress Schedule (Critical Path Method)	2.00%	\$ 111,268
Section 5	Environmental	Sound Wall (Masonry Block)	5.00%	\$ 278,169
Section 6	Traffic Items	Environmental Mitigation	5.00%	\$ 278,169
Section 7	Detours	Landscape And Irrigation	5.00%	\$ 278,169
Section 8	Minor Items	Traffic Electrical	5.00%	\$ 278,169
Section 9	Roadway Mobilization	Traffic Signing and Striping	5.00%	\$ 278,169
Section 10	Supplemental Work	Includes constructing, maintaining, and removal of Roadway Excavation	5.00%	\$ 278,169
Section 11	State Furnished Materials	Total of Section 1-7 x 9%	9.00%	\$ 635,895
Section 12	Time-Related Overhead	8A - Americans with Disabilities Act Items	10.00%	\$ 770,140
Section 13	Total Roadway Contingency	Total of Section 1-8 x 10%	4.00%	\$ 308,056
		Total of Section 1-8 x 2%	2.00%	\$ 154,028
		Resident Engineers Office	6.00%	\$ 462,084
		Total of Roadway and Structures Contract Items excluding Mobilization	30.00%	\$ 2,818,712
Subtotals Section 3-13				\$ 6,651,031

PART II: STRUCTURE ITEMS

Code	Item	Unit	Quantity	Unit Price	Cost
510053	CIP/PS Box Girder	SF	12,000	\$380.00	\$ 4,560,000
510051	Retaining Wall (Mainline)	LF	1,000	\$5,400.00	\$ 5,400,000
510052	Retaining Wall (Alts, Ramps)	LF	5,640	\$2,000.00	\$ 11,280,000
Time-Related Overhead				10.00%	\$ 2,124,000
Structures Mobilization				10.00%	\$ 2,124,000
Structures Contingency				25.00%	\$ 5,310,000
Subtotal Structure Items					\$ 30,798,000

PART III: RIGHT OF WAY

Code	Item	Unit	Quantity	Unit Price	Cost
ROW 1	Vacant Land (Undevelop Property)	SF	1,223,054	\$6.00	\$ 7,338,324
ROW 2	Residential Property (homes, garages, barns, and major buildings)	SF	91,883	\$15.00	\$ 1,378,245
ROW 3	Commercial Property (buildings and critical open space)	SF	0	\$19.00	\$ -
Subtotal Right of Way					\$ 8,716,569

TOTAL SUPPORT COST

PART IV: SUPPORT COST ESTIMATE SUMMARY

Sections 16: Support Cost Items

Code	Description	Percent	Cost
PA/ED	PA/ED Support	4.00%	\$ 2,069,160
PS&E	PS&E Support	4.00%	\$ 2,069,160
ROW	Right of Way Support	4.00%	\$ 2,069,160
CS	Construction Support	4.00%	\$ 2,069,160
Subtotal Support Cost			\$ 8,276,638

Lamb Canyon - Alternative #1: Tight Diamond

Cost Estimate for Opening Year 2025.

COST ESTIMATE SUMMARY			
Section	Item	Current Cost (2021)	Escalated Cost (2025)
1	Earthwork	\$ 3,470,124	\$ 4,094,746
2	Pavement Structural Section	\$ 1,068,306	\$ 1,260,601
3	Drainage	\$ 453,843	\$ 535,535
4	Specialty Items	\$ 90,769	\$ 107,107
5	Environmental	\$ 226,922	\$ 267,767
6	Traffic Items	\$ 226,922	\$ 267,767
7	Detours	\$ 226,922	\$ 267,767
8	Minor Items	\$ 518,743	\$ 612,116
9	Roadway Mobilization	\$ 628,255	\$ 741,341
10	Supplemental Work	\$ 251,302	\$ 296,536
11	State Furnished	\$ 125,651	\$ 148,268
12	Time-Related Overhead	\$ 376,953	\$ 444,804
13	Total Roadway Contingency	\$ 1,916,177	\$ 2,261,089
14	Structure Items	\$ 45,830,788	\$ 54,080,330
15	Right of Way	\$ 857,070	\$ 1,011,343
16	Support Cost	\$ 9,002,999	\$ 10,623,539
Total Project Cost		\$ 65,271,744	\$ 77,020,658

CAPITAL OUTLAY COST

PART I: ROADWAY ITEMS SUMMARY

Section 1: Earthwork

Code	Item	Unit	Quantity	Unit Price	Cost
190101	Roadway Excavation (Cut)	CY	25,416	\$32.47	\$ 825,273
198010	Imported Borrow (Fill)	CY	104,333	\$25.35	\$ 2,644,851
<i>Subtotal Earthwork</i>					\$ 3,470,124

Section 2: Pavement Structural Section

Code	Item	Unit	Quantity	Unit Price	Cost
418002	Remove Concrete Pavement and Base	CY	3,825	\$43.50	\$ 166,371
260203	Class 2 Aggregate Base (AB)	CY	3,007	\$59.69	\$ 179,477
280000	Lean Concrete Base (LCB)	CY	3,007	\$141.38	\$ 425,104
390132	Hot Mix Asphalt (Type A)	TON	2,943	\$101.04	\$ 297,353
<i>Subtotal Pavement</i>					\$ 1,068,306

Sections 3-11: Additional Roadway Items

Section	Item	Description	Percent	Cost
Section 3	Drainage	Culvert, Inlets, Pipes, Grates, Rip Rap	10.00%	\$ 453,843
Section 4	Specialty Items	Progress Schedule (Critical Path Method) Sound Wall (Masonry Block)	2.00%	\$ 90,769
Section 5	Environmental	Environmental Mitigation Landscape And Irrigation	5.00%	\$ 226,922
Section 6	Traffic Items	Traffic Electrical	5.00%	\$ 226,922
Section 7	Detours	Traffic Signing and Stripping Includes constructing, maintaining, and removal of Roadway Excavation	5.00%	\$ 226,922
Section 8	Minor Items	Total of Section 1-7 x 9% 8A - Americans with Disabilities Act Items	9.00%	\$ 518,743
Section 9	Roadway Mobilization	Total of Section 1-8 x 10%	10.00%	\$ 628,255
Section 10	Supplemental Work	Total of Section 1-8 x 4%	4.00%	\$ 251,302
Section 11	State Furnished Materials	Total of Section 1-8 x 2% Resident Engineers Office	2.00%	\$ 125,651
Section 12	Time-Related Overhead	Total of Roadway and Structures Contract Items excluding Mobilization	6.00%	\$ 376,953
Section 13	Total Roadway Contingency	Recommended Total Contingency: (Pre-PSR (feasibility) 30%-50% PSR (initiation) 25% Draft	25.00%	\$ 1,916,177
<i>Subtotals Section 3-13</i>				\$ 5,042,457

PART II: STRUCTURE ITEMS

Code	Item	Unit	Quantity	Unit Price	Cost
510053	CIP/PS Box Girder	SF	67,388	\$380.00	\$ 25,607,440
510051	Retaining Wall (Mainline)	LF	0	\$5,400.00	\$ -
510052	Retaining Wall (Alts, Ramps)	LF	3,000	\$2,000.00	\$ 6,000,000
<i>Time-Related Overhead</i>				10.00%	\$ 3,160,744
<i>Structures Mobilization</i>				10.00%	\$ 3,160,744
<i>Structures Contingency</i>				25.00%	\$ 7,901,860
<i>Subtotal Structure Items</i>					\$ 45,830,788

PART III: RIGHT OF WAY

Code	Item	Unit	Quantity	Unit Price	Cost
ROW 1	Vacant Land (Undevelop Property)	SF	48,633	\$6.00	\$ 291,798
ROW 2	Residential Property (homes, garages, barns, and major buildings)	SF	0	\$15.00	\$ -
ROW 3	Commercial Property (buildings and critical open space)	SF	0	\$19.00	\$ -
<i>Conserved Land (MSHCP and others)</i>				5.00%	\$ 565,272
<i>Subtotal Right of Way</i>					\$ 857,070

TOTAL SUPPORT COST

PART IV: SUPPORT COST ESTIMATE SUMMARY

Sections 16: Support Cost Items

Code	Description	Percent	Cost
PA/ED	PA/ED Support	4.00%	\$ 2,250,750
PS&E	PS&E Support	4.00%	\$ 2,250,750
ROW	Right of Way Support	4.00%	\$ 2,250,750
CS	Construction Support	4.00%	\$ 2,250,750
<i>Subtotal Support Cost</i>			\$ 9,002,999

Lamb Canyon - Alternative #2: Spread Diamond

Cost Estimate for Opening Year 2025.

COST ESTIMATE SUMMARY			
Section	Item	Current Cost (2021)	Escalated Cost (2025)
1	Earthwork	\$ 7,026,474	\$ 8,291,239
2	Pavement Structural Section	\$ 1,264,838	\$ 1,492,509
3	Drainage	\$ 829,131	\$ 978,375
4	Specialty Items	\$ 165,826	\$ 195,675
5	Environmental	\$ 414,566	\$ 489,187
6	Traffic Items	\$ 414,566	\$ 489,187
7	Detours	\$ 414,566	\$ 489,187
8	Minor Items	\$ 947,697	\$ 1,118,282
9	Roadway Mobilization	\$ 1,147,766	\$ 1,354,364
10	Supplemental Work	\$ 459,107	\$ 541,746
11	State Furnished	\$ 229,553	\$ 270,873
12	Time-Related Overhead	\$ 688,660	\$ 812,619
13	Total Roadway Contingency	\$ 3,500,687	\$ 4,130,811
14	Structure Items	\$ 47,799,812	\$ 56,403,778
15	Right of Way	\$ 1,874,993	\$ 2,212,492
16	Support Cost	\$ 10,748,519	\$ 12,683,252
Total Project Cost		\$ 77,926,761	\$ 91,953,578

CAPITAL OUTLAY COST						
PART I: ROADWAY ITEMS SUMMARY						
Section 1: Earthwork						
Code	Item	Unit	Quantity	Unit Price	Cost	
190101	Roadway Excavation (Cut)	CY	135,575	\$32.47	\$ 4,402,111	
198010	Imported Borrow (Fill)	CY	103,525	\$25.35	\$ 2,624,363	
					<i>Subtotal Earthwork</i>	\$ 7,026,474

Section 2: Pavement Structural Section						
Code	Item	Unit	Quantity	Unit Price	Cost	
418002	Remove Concrete Pavement and Base	CY	3,825	\$43.50	\$ 166,371	
260203	Class 2 Aggregate Base (AB)	CY	3,662	\$59.69	\$ 218,585	
280000	Lean Concrete Base (LCB)	CY	3,662	\$141.38	\$ 517,735	
390132	Hot Mix Asphalt (Type A)	TON	3,584	\$101.04	\$ 362,147	
					<i>Subtotal Pavement</i>	\$ 1,264,838

Sections 3-11: Additional Roadway Items					
Section	Item	Description	Percent	Cost	
Section 3	Drainage	Culvert, Inlets, Pipes, Grates, Rip Rap	10.00%	\$ 829,131	
Section 4	Specialty Items	Progress Schedule (Critical Path Method) Sound Wall (Masonry Block)	2.00%	\$ 165,826	
Section 5	Environmental	Environmental Mitigation Landscape And Irrigation	5.00%	\$ 414,566	
Section 6	Traffic Items	Traffic Electrical	5.00%	\$ 414,566	
Section 7	Detours	Traffic Signing and Striping Includes constructing, maintaining, and removal of	5.00%	\$ 414,566	
Section 8	Minor Items	Roadway Excavation Total of Section 1-7 x 9%	9.00%	\$ 947,697	
Section 9	Roadway Mobilization	8A - Americans with Disabilities Act Items Total of Section 1-8 x 10%	10.00%	\$ 1,147,766	
Section 10	Supplemental Work	Total of Section 1-8 x 4%	4.00%	\$ 459,107	
Section 11	State Furnished Materials	Total of Section 1-8 x 2% Resident Engineers Office	2.00%	\$ 229,553	
Section 12	Time-Related Overhead	Total of Roadway and Structures Contract Items excluding Mobilization	6.00%	\$ 688,660	
Section 13	Total Roadway Contingency	Recommended Total Contingency: (Pre-PSR (feasibility) 30%-50% DSP (initiation) 25% Draft	25.00%	\$ 3,500,687	
				<i>Subtotals Section 3-13</i>	\$ 9,212,125

PART II: STRUCTURE ITEMS						
Code	Item	Unit	Quantity	Unit Price	Cost	
510053	CIP/PS Box Girder	SF	66,751	\$380.00	\$ 25,365,388	
510051	Retaining Wall (Mainline)	LF	0	\$5,400.00	\$ -	
510052	Retaining Wall (Alts, Ramps)	LF	3,800	\$2,000.00	\$ 7,600,000	
				<i>Time-Related Overhead</i>	\$ 3,296,539	
				<i>Structures Mobilization</i>	\$ 3,296,539	
				<i>Structures Contingency</i>	\$ 8,241,347	
					<i>Subtotal Structure Items</i>	\$ 47,799,812

PART III: RIGHT OF WAY						
Code	Item	Unit	Quantity	Unit Price	Cost	
ROW 1	Vacant Land (Undevelop Property)	SF	221,913	\$6.00	\$ 1,331,478	
ROW 2	Residential Property (homes, garages, barns, and major buildings)	SF	0	\$15.00	\$ -	
ROW 3	Commercial Property (buildings and critical open space)	SF	0	\$19.00	\$ -	
				<i>Conserved Land (MSHCP and others)</i>	\$ 543,515	
					<i>Subtotal Right of Way</i>	\$ 1,874,993

TOTAL SUPPORT COST				
PART IV: SUPPORT COST ESTIMATE SUMMARY				
Sections 16: Support Cost Items				
Code	Description	Percent	Cost	
PA/ED	PA/ED Support	4.00%	\$ 2,687,130	
PS&E	PS&E Support	4.00%	\$ 2,687,130	
ROW	Right of Way Support	4.00%	\$ 2,687,130	
CS	Construction Support	4.00%	\$ 2,687,130	
			<i>Subtotal Support Cost</i>	\$ 10,748,519

Lamb Canyon - Alternative #3: Trumpet

Cost Estimate for Opening Year 2025.

COST ESTIMATE SUMMARY			
Section	Item	Current Cost (2021)	Escalated Cost (2025)
1	Earthwork	\$ 7,319,753	\$ 8,637,308
2	Pavement Structural Section	\$ 1,358,907	\$ 1,603,510
3	Drainage	\$ 867,866	\$ 1,024,082
4	Specialty Items	\$ 173,573	\$ 204,816
5	Environmental	\$ 433,933	\$ 512,041
6	Traffic Items	\$ 433,933	\$ 512,041
7	Detours	\$ 433,933	\$ 512,041
8	Minor Items	\$ 991,971	\$ 1,170,525
9	Roadway Mobilization	\$ 1,201,387	\$ 1,417,636
10	Supplemental Work	\$ 480,555	\$ 567,055
11	State Furnished	\$ 240,277	\$ 283,527
12	Time-Related Overhead	\$ 720,832	\$ 850,582
13	Total Roadway Contingency	\$ 3,664,230	\$ 4,323,791
14	Structure Items	\$ 46,882,590	\$ 55,321,456
15	Right of Way	\$ 2,241,545	\$ 2,645,023
16	Support Cost	\$ 10,791,245	\$ 12,733,670
Total Project Cost		\$ 78,236,529	\$ 92,319,104

CAPITAL OUTLAY COST					
PART I: ROADWAY ITEMS SUMMARY					
Section 1: Earthwork					
Code	Item	Unit	Quantity	Unit Price	Cost
190101	Roadway Excavation (Cut)	CY	68,897	\$32.47	\$ 2,237,100
198010	Imported Borrow (Fill)	CY	200,499	\$25.35	\$ 5,082,653
<i>Subtotal Earthwork</i>					\$ 7,319,753

Section 2: Pavement Structural Section					
Code	Item	Unit	Quantity	Unit Price	Cost
418002	Remove Concrete Pavement and Base	CY	3,825	\$43.50	\$ 166,371
260203	Class 2 Aggregate Base (AB)	CY	3,976	\$59.69	\$ 237,304
280000	Lean Concrete Base (LCB)	CY	3,976	\$141.38	\$ 562,072
390132	Hot Mix Asphalt (Type A)	TON	3,891	\$101.04	\$ 393,160
<i>Subtotal Pavement</i>					\$ 1,358,907

Sections 3-11: Additional Roadway Items				
Section	Item	Description	Percent	Cost
Section 3	Drainage	Culvert, Inlets, Pipes, Grates, Rip Rap	10.00%	\$ 867,866
Section 4	Specialty Items	Progress Schedule (Critical Path Method) Sound Wall (Masonry Block)	2.00%	\$ 173,573
Section 5	Environmental	Environmental Mitigation Landscape And Irrigation	5.00%	\$ 433,933
Section 6	Traffic Items	Traffic Electrical	5.00%	\$ 433,933
Section 7	Detours	Traffic Signing and Striping Includes constructing, maintaining, and removal of Roadway Excavation	5.00%	\$ 433,933
Section 8	Minor Items	Total of Section 1-7 x 9% 8A - Americans with Disabilities Act Items	9.00%	\$ 991,971
Section 9	Roadway Mobilization	Total of Section 1-8 x 10%	10.00%	\$ 1,201,387
Section 10	Supplemental Work	Total of Section 1-8 x 4%	4.00%	\$ 480,555
Section 11	State Furnished Materials	Total of Section 1-8 x 2% Resident Engineers Office	2.00%	\$ 240,277
Section 12	Time-Related Overhead	Total of Roadway and Structures Contract Items excluding Mobilization	6.00%	\$ 720,832
Section 13	Total Roadway Contingency	Recommended Total Contingency: (Pre-PSR feasibility) 30%-50% DSP (initiation) 25% Draft	25.00%	\$ 3,664,230
<i>Subtotals Section 3-13</i>				\$ 9,642,489

PART II: STRUCTURE ITEMS					
Code	Item	Unit	Quantity	Unit Price	Cost
510053	CIP/PS Box Girder	SF	61,402	\$380.00	\$ 23,332,821
510051	Retaining Wall (Mainline)	LF	0	\$5,400.00	\$ -
510052	Retaining Wall (Alts, Ramps)	LF	4,500	\$2,000.00	\$ 9,000,000
				<i>Time-Related Overhead</i>	10.00% \$ 3,233,282
				<i>Structures Mobilization</i>	10.00% \$ 3,233,282
				<i>Structures Contingency</i>	25.00% \$ 8,083,205
<i>Subtotal Structure Items</i>					\$ 46,882,590

PART III: RIGHT OF WAY					
Code	Item	Unit	Quantity	Unit Price	Cost
ROW 1	Vacant Land (Undevelop Property)	SF	278,773	\$6.00	\$ 1,672,638
ROW 2	Residential Property (homes, garages, barns, and major buildings)	SF	0	\$15.00	\$ -
ROW 3	Commercial Property (buildings and critical open space)	SF	0	\$19.00	\$ -
				<i>Conserved Land (MSHCP and others)</i>	5.00% \$ 568,907
<i>Subtotal Right of Way</i>					\$ 2,241,545

TOTAL SUPPORT COST			
PART IV: SUPPORT COST ESTIMATE SUMMARY			
Sections 16: Support Cost Items			
Code	Description	Percent	Cost
PA/ED	PA/ED Support	4.00%	\$ 2,697,811
PS&E	PS&E Support	4.00%	\$ 2,697,811
ROW	Right of Way Support	4.00%	\$ 2,697,811
CS	Construction Support	4.00%	\$ 2,697,811
<i>Subtotal Support Cost</i>			\$ 10,791,245

SR-79 Mainline: North

Cost Estimate for Opening Year 2025.

COST ESTIMATE SUMMARY				
Section	Item	Current Cost (2021)	Escalated Cost (2025)	
1	Earthwork	\$ 111,024,304	\$	131,008,679
2	Pavement Structural Section	\$ 20,669,170	\$	24,389,620
3	Drainage	\$ 13,169,347	\$	15,539,830
4	Specialty Items	\$ 2,633,869	\$	3,107,966
5	Environmental	\$ 6,584,674	\$	7,769,915
6	Traffic Items	\$ 6,584,674	\$	7,769,915
7	Detours	\$ 6,584,674	\$	7,769,915
8	Minor Items	\$ 15,052,564	\$	17,762,026
9	Roadway Mobilization	\$ 18,230,328	\$	21,511,787
10	Supplemental Work	\$ 7,292,131	\$	8,604,715
11	State Furnished	\$ 3,646,066	\$	4,302,357
12	Time-Related Overhead	\$ 10,938,197	\$	12,907,072
13	Total Roadway Contingency	\$ 55,602,499	\$	65,610,949
14	Structure Items	\$ 73,413,500	\$	86,627,930
15	Right of Way	\$ 1,921,614	\$	2,267,505
16	Support Cost	\$ 56,535,618	\$	66,712,029
Total Project Cost		\$ 409,883,227	\$	483,662,208

CAPITAL OUTLAY COST					
PART I: ROADWAY ITEMS SUMMARY					
Section 1: Earthwork					
Code	Item	Unit	Quantity	Unit Price	Cost
190101	Roadway Excavation (Cut)	CY	3,230,245	\$32.47	\$ 104,886,055
198010	Imported Borrow (Fill)	CY	242,140	\$25.35	\$ 6,138,249
Subtotal Earthwork					\$ 111,024,304

Section 2: Pavement Structural Section					
Code	Item	Unit	Quantity	Unit Price	Cost
418002	Remove Concrete Pavement and Base	CY	84,984	\$43.50	\$ 3,696,791
260203	Class 2 Aggregate Base (AB)	CY	56,582	\$59.69	\$ 3,377,355
280000	Lean Concrete Base (LCB)	CY	56,582	\$141.38	\$ 7,999,506
390132	Hot Mix Asphalt (Type A)	TON	55,379	\$101.04	\$ 5,595,518
Subtotal Pavement					\$ 20,669,170

Sections 3-11: Additional Roadway Items				
Section	Item	Description	Percent	Cost
Section 3	Drainage	Culvert, Inlets, Pipes, Grates, Rip Rap	10.00%	\$ 13,169,347
Section 4	Specialty Items	Progress Schedule (Critical Path Method)	2.00%	\$ 2,633,869
Section 5	Environmental	Sound Wall (Masonry Block)	5.00%	\$ 6,584,674
Section 6	Traffic Items	Environmental Mitigation	5.00%	\$ 6,584,674
Section 7	Detours	Landscape And Irrigation	5.00%	\$ 6,584,674
Section 8	Minor Items	Traffic Electrical	5.00%	\$ 6,584,674
Section 9	Roadway Mobilization	Traffic Signing and Striping	5.00%	\$ 6,584,674
Section 10	Supplemental Work	Includes constructing, maintaining, and removal of Roadway Excavation	5.00%	\$ 6,584,674
Section 11	State Furnished Materials	Total of Section 1-7 x 9%	9.00%	\$ 15,052,564
Section 12	Time-Related Overhead	8A - Americans with Disabilities Act Items	10.00%	\$ 18,230,328
Section 13	Total Roadway Contingency	Total of Section 1-8 x 10%	10.00%	\$ 18,230,328
		Total of Section 1-8 x 4%	4.00%	\$ 7,292,131
		Total of Section 1-8 x 2%	2.00%	\$ 3,646,066
		Resident Engineers Office	6.00%	\$ 10,938,197
		Total of Roadway and Structures Contract Items excluding Mobilization	25.00%	\$ 55,602,499
Recommended Total Contingency: (Pre-PSR (feasibility) 20%-50%, PSR (initiation) 25%, Draft				\$ 146,319,022

PART II: STRUCTURE ITEMS					
Code	Item	Unit	Quantity	Unit Price	Cost
510053	CIP/PS Box Girder	SF	28,500	\$380.00	\$ 10,830,000
510051	Retaining Wall (Mainline)	LF	7,000	\$5,400.00	\$ 37,800,000
510052	Retaining Wall (Alts, Ramps)	LF	1,000	\$2,000.00	\$ 2,000,000
				Time-Related Overhead	10.00% \$ 5,063,000
				Structures Mobilization	10.00% \$ 5,063,000
				Structures Contingency	25.00% \$ 12,657,500
Subtotal Structure Items					\$ 73,413,500

PART III: RIGHT OF WAY					
Code	Item	Unit	Quantity	Unit Price	Cost
ROW 1	Vacant Land (Undevelop Property)	SF	320,269	\$6.00	\$ 1,921,614
ROW 2	Residential Property (homes, garages, barns, and major buildings)	SF	0	\$15.00	\$ -
ROW 3	Commercial Property (buildings and critical open space)	SF	0	\$19.00	\$ -
Subtotal Right of Way					\$ 1,921,614

TOTAL SUPPORT COST					
PART IV: SUPPORT COST ESTIMATE SUMMARY					
Sections 16: Support Cost Items					
Code	Description	Percent	Cost		
PA/ED	PA/ED Support	4.00%	\$	14,133,904	
PS&E	PS&E Support	4.00%	\$	14,133,904	
ROW	Right of Way Support	4.00%	\$	14,133,904	
CS	Construction Support	4.00%	\$	14,133,904	
Subtotal Support Cost					\$ 56,535,618

SR-79 Mainline: South

Cost Estimate for Opening Year 2025.

COST ESTIMATE SUMMARY				
Section	Item	Current Cost (2021)	Escalated Cost (2025)	
1	Earthwork	\$ 237,387,291	\$	280,117,004
2	Pavement Structural Section	\$ 29,029,387	\$	34,254,677
3	Drainage	\$ 26,641,668	\$	31,437,168
4	Specialty Items	\$ 5,328,334	\$	6,287,434
5	Environmental	\$ 13,320,834	\$	15,718,584
6	Traffic Items	\$ 13,320,834	\$	15,718,584
7	Detours	\$ 13,320,834	\$	15,718,584
8	Minor Items	\$ 30,451,426	\$	35,932,683
9	Roadway Mobilization	\$ 36,880,061	\$	43,518,472
10	Supplemental Work	\$ 14,752,024	\$	17,407,389
11	State Furnished	\$ 7,376,012	\$	8,703,694
12	Time-Related Overhead	\$ 22,128,036	\$	26,111,083
13	Total Roadway Contingency	\$ 112,484,186	\$	132,731,339
14	Structure Items	\$ 78,300,000	\$	92,394,000
15	Right of Way	\$ 12,003,442	\$	14,164,061
16	Support Cost	\$ 104,435,899	\$	123,234,361
Total Project Cost		\$ 757,160,268	\$	893,449,116

CAPITAL OUTLAY COST					
PART I: ROADWAY ITEMS SUMMARY					
Section 1: Earthwork					
Code	Item	Unit	Quantity	Unit Price	Cost
190101	Roadway Excavation (Cut)	CY	7,310,973	\$32.47	\$ 237,387,291
198010	Imported Borrow (Fill)	CY	0	\$25.35	\$ -
<i>Subtotal Earthwork</i>					\$ 237,387,291

Section 2: Pavement Structural Section					
Code	Item	Unit	Quantity	Unit Price	Cost
418002	Remove Concrete Pavement and Base	CY	123,913	\$43.50	\$ 5,390,229
260203	Class 2 Aggregate Base (AB)	CY	78,807	\$59.69	\$ 4,703,986
280000	Lean Concrete Base (LCB)	CY	78,807	\$141.38	\$ 11,141,725
390132	Hot Mix Asphalt (Type A)	TON	77,132	\$101.04	\$ 7,793,447
<i>Subtotal Pavement</i>					\$ 29,029,387

Sections 3-11: Additional Roadway Items				
Section	Item	Description	Percent	Cost
Section 3	Drainage	Culvert, Inlets, Pipes, Grates, Rip Rap	10.00%	\$ 26,641,668
Section 4	Specialty Items	Progress Schedule (Critical Path Method) Sound Wall (Masonry Block)	2.00%	\$ 5,328,334
Section 5	Environmental	Environmental Mitigation Landscape And Irrigation	5.00%	\$ 13,320,834
Section 6	Traffic Items	Traffic Electrical	5.00%	\$ 13,320,834
Section 7	Detours	Traffic Signing and Striping Includes constructing, maintaining, and removal of	5.00%	\$ 13,320,834
Section 8	Minor Items	Roadway Excavation Total of Section 1-7 x 9%	9.00%	\$ 30,451,426
Section 9	Roadway Mobilization	8A - Americans with Disabilities Act Items Total of Section 1-8 x 10%	10.00%	\$ 36,880,061
Section 10	Supplemental Work	Total of Section 1-8 x 4%	4.00%	\$ 14,752,024
Section 11	State Furnished Materials	Total of Section 1-8 x 2% Resident Engineers Office	2.00%	\$ 7,376,012
Section 12	Time-Related Overhead	Total of Roadway and Structures Contract Items excluding Mobilization	6.00%	\$ 22,128,036
Section 13	Total Roadway Contingency	Recommended Total Contingency: (Pre-PSR (feasibility) 30%-50% DSP (initiation) 25% Draft	25.00%	\$ 112,484,186
<i>Subtotals Section 3-13</i>				\$ 296,004,249

PART II: STRUCTURE ITEMS					
Code	Item	Unit	Quantity	Unit Price	Cost
510053	CIP/PS Box Girder	SF	0	\$380.00	\$ -
510051	Retaining Wall (Mainline)	LF	10,000	\$5,400.00	\$ 54,000,000
510052	Retaining Wall (Alts, Ramps)	LF	0	\$2,000.00	\$ -
				Time-Related Overhead	10.00% \$ 5,400,000
				Structures Mobilization	10.00% \$ 5,400,000
				Structures Contingency	25.00% \$ 13,500,000
<i>Subtotal Structure Items</i>					\$ 78,300,000

PART III: RIGHT OF WAY					
Code	Item	Unit	Quantity	Unit Price	Cost
ROW 1	Vacant Land (Undevelop Property)	SF	413,552	\$6.00	\$ 2,481,312
ROW 2	Residential Property (homes, garages, barns, and major buildings)	SF	0	\$15.00	\$ -
ROW 3	Commercial Property (buildings and critical open space)	SF	0	\$19.00	\$ -
ROW 4	Conserved Land (MSHCP and others)			5.00%	\$ 9,522,130
<i>Subtotal Right of Way</i>					\$ 12,003,442

TOTAL SUPPORT COST				
PART IV: SUPPORT COST ESTIMATE SUMMARY				
Sections 16: Support Cost Items				
Code	Description	Percent	Cost	
PA/ED	PA/ED Support	4.00%	\$	26,108,975
PS&E	PS&E Support	4.00%	\$	26,108,975
ROW	Right of Way Support	4.00%	\$	26,108,975
CS	Construction Support	4.00%	\$	26,108,975
<i>Subtotal Support Cost</i>				\$ 104,435,899