

Coleman and Ringwood Avenues Transportation Study
County of San Mateo and City of Menlo Park
Planning Level Estimate
Long-term Design Alternative 1 - Preferred

DATE: 2/9/24

		Ringwood Avenue (City Segment)	Ringwood Avenue (County Segment)	Coleman Avenue (County Segment)	Coleman Avenue (City Segment)			
CONSTRUCTION ITEM	Units	Quantity	Quantity	Quantity	Quantity	Totals	Unit Cost	Total Cost
PAVEMENT MARKINGS								
White Stripe	LF	1,882	12,454	3,636	1,337	19,309	\$ 5.00	\$ 96,545.00
Yellow Stripe	LF	1,824	12,830	5,692	3,641	23,987	\$ 5.00	\$ 119,935.00
Pavement Legend	SF	335	1,269	338	276	2,218	\$ 10.00	\$ 22,178.00
Green Markings	SF	500	1,200	620	420	2,740	\$ 20.00	\$ 54,800.00
Raised Separation Device	LF	435	4,915	1,696		7,046	\$ 20.00	\$ 140,920.00
Remove Existing Striping/Markings	LS	1	4	2	1	8	\$ 5,000.00	\$ 40,000.00
SIGNS								
New Signage	LS	1	2	1	1	5	\$ 8,000.00	\$ 40,000.00
Flexposts	EA		9			9	\$ 50.00	\$ 450.00
CIVIL								
Roadway Excavation	LS	1	2	1	1	5	\$ 47,500.00	\$ 237,500.00
Roadway Widening	SF	505	2,208	6,870		9,583	\$ 100.00	\$ 958,300.00
Asphalt Pathway	SF	5,741	40,605	9,586		55,932	\$ 35.00	\$ 1,957,620.00
Concrete Pathway	SF	500			20,711	21,211	\$ 50.00	\$ 1,060,550.00
Curb and Gutter	LF	222			1,942	2,164	\$ 100.00	\$ 216,400.00
Curb Ramp with DWS	EA	6	28	8	18	60	\$ 7,500.00	\$ 450,000.00
Speed Table/Raised Crossing	EA	1	2	2	2	7	\$ 25,000.00	\$ 175,000.00
Utility Pole Relocation	EA	2	6	3		11	\$ 10,000.00	\$ 110,000.00
Clearing and Grubbing	LS	1	2	1		4	\$ 28,500.00	\$ 114,000.00
Drainage Improvements	LS	1	2	1		4	\$ 20,000.00	\$ 80,000.00
ELECTRICAL								
Solar RRFB (per Pole)	EA	2	4	2	2	10	\$ 25,000.00	\$ 250,000.00
Streetlights	EA		4	2	3	9	\$ 15,000.00	\$ 135,000.00
Speed Feedback Sign	EA		3			3	\$ 15,000.00	\$ 45,000.00
LANDSCAPING								
Tree Removal	EA	2	23	19		44	\$ 2,500.00	\$ 110,000.00
Landscaping	SF	782	116	2,060	2,609	5,567	\$ 20.00	\$ 111,340.00
TRAFFIC CONTROL & MOBILIZATION								
Traffic Control System	LS	1	1	1	1	1	\$ 652,600.00	\$ 652,600.00
Mobilization	LS	1	1	1	1	1	\$ 652,600.00	\$ 652,600.00
<i>Cost per Location</i>		\$ 730,653.00	\$ 3,259,955.00	\$ 1,849,850.00	\$ 1,990,180.00			

Sub-Total: \$ 7,830,738

Contingency (30%): \$ 2,349,221

2024 Total Construction Cost: \$ 10,180,000

Environmental (2%) \$ 203,600

Plans, Specifications, and Estimate (20%) \$ 2,036,000

Temporary Construction Easements (1%) \$ 101,800

Construction Management (12%) \$ 1,221,600

Agency Administration (20%) \$ 2,036,000

2024 TOTAL PROJECT COST: \$ 15,779,000



Coleman and Ringwood Avenues Transportation Study
County of San Mateo and City of Menlo Park
Planning Level Estimate
Long-term Design Alternative 2

DATE: 2/7/24

		Ringwood Avenue (City Segment)	Ringwood Avenue (County Segment)	Coleman Avenue (County Segment)	Coleman Avenue (City Segment)			
CONSTRUCTION ITEM	Units	Quantity	Quantity	Quantity	Quantity	Totals	Unit Cost	Total Cost
PAVEMENT MARKINGS								
White Stripe	LF	1,147	10,650	3,737	2,365	17899	\$ 5.00	\$ 89,495.00
Yellow Stripe	LF	1,950	12,813	4,689	3,383	22,835	\$ 5.00	\$ 114,175.00
Pavement Legend	SF	525	1,326	392	306	2,549	\$ 10.00	\$ 25,490.00
Green Markings	SF	540	1,180	600	600	2,920	\$ 20.00	\$ 58,400.00
Raised Separation Device	LF	240	3,563	1,700		5,503	\$ 20.00	\$ 110,060.00
Remove Existing Striping/Markings	LS	1	4	2	1	8	\$ 5,000.00	\$ 40,000.00
SIGNS								
New Signage	LS	1	2	1	1	5	\$ 8,000.00	\$ 40,000.00
Flexposts	EA		7			7	\$ 50.00	\$ 350.00
CIVIL								
Roadway Excavation	LS	1	2	1	1	5	\$ 37,325.00	\$ 186,625.00
Roadway Widening	SF		2,208	3,547		5,755	\$ 100.00	\$ 575,500.00
Asphalt Pathway	SF	5,704	40,605	15,456		61,765	\$ 35.00	\$ 2,161,775.00
Curb and Gutter	LF	229			655	884	\$ 100.00	\$ 88,400.00
Curb Ramp with DWS	EA	6	29	8	15	58	\$ 7,500.00	\$ 435,000.00
Speed Table/Raised Crossing	EA	1	2	2	2	7	\$ 25,000.00	\$ 175,000.00
Utility Pole Relocation	EA	2	6	3		11	\$ 10,000.00	\$ 110,000.00
Clearing and Grubbing	LS	1	2	1		4	\$ 22,395.00	\$ 89,580.00
Drainage Improvements	LS	1	2	1		4	\$ 10,000.00	\$ 40,000.00
ELECTRICAL								
Solar RRFB (per Pole)	EA	2	4	2	2	10	\$ 25,000.00	\$ 250,000.00
Speed Feedback Sign	EA		3	2		5	\$ 15,000.00	\$ 75,000.00
Streetlights	EA		4	2	3	9	\$ 15,000.00	\$ 135,000.00
LANDSCAPING								
Tree Removal	EA	2	23	27		52	\$ 2,500.00	\$ 130,000.00
Landscaping	SF	1,180	121	476	50	1,827	\$ 20.00	\$ 36,540.00
TRAFFIC CONTROL & MOBILIZATION								
Traffic Control System	LS	1	1	1	1	1	\$ 496,600.00	\$ 496,600.00
Mobilization	LS	1	1	1	1	1	\$ 496,600.00	\$ 496,600.00
Cost per Location		\$ 612,195.00	\$ 3,162,720.00	\$ 1,682,950.00	\$ 501,725.00			

Sub-Total: \$ 5,959,590

Contingency (30%): \$ 1,787,877

2024 Total Construction Cost: \$ 7,748,000

Environmental (2%) \$ 154,960

Plans, Specifications, and Estimate (20%) \$ 1,549,600

Temporary Construction Easements (1%) \$ 77,480

Construction Management (12%) \$ 929,760

Agency Administration (20%) \$ 1,549,600

2024 TOTAL PROJECT COST: \$ 12,009,400

Coleman and Ringwood Avenues Transportation Study
County of San Mateo and City of Menlo Park
Preliminary Engineer's Estimate
Pilot Option 1 - Turn Restrictions

DATE: 2/6/2024

		Coleman Avenue (County Segment)	Coleman Avenue (City Segment)			
CONSTRUCTION ITEM	Units	Quantity	Quantity	Totals	Unit Cost	Total Cost
SIGNS						
Sign Post	EA	2	2	4	\$ 300.00	\$ 1,200.00
Sign Panel	EA	4	4	8	\$ 500.00	\$ 4,000.00

Construction: \$ 5,200
Design: \$ 7,500
Data Collection: \$ 5,000
Evaluation: \$ 20,000
Community Engagement: \$ 25,000
Contingency (30%): \$ 18,810
2024 Total Project Cost: \$ 82,000

Coleman and Ringwood Avenues Transportation Study
County of San Mateo and City of Menlo Park
Preliminary Engineer's Estimate
Pilot Option 2 - No Through Traffic (Preferred)

DATE: 2/6/2024

		Coleman Avenue (County Segment)	Coleman Avenue (City Segment)			
CONSTRUCTION ITEM	Units	Quantity	Quantity	Totals	Unit Cost	Total Cost
PAVEMENT MARKINGS						
White Stripe	LF	545		545	\$ 10.00	\$ 5,450.00
Remove Existing Striping/Markings	LS	1		1	\$ 2,500.00	\$ 2,500.00
SIGNS						
Sign Post	EA	2	2	4	\$ 300.00	\$ 1,200.00
Sign Panel	EA	8	4	12	\$ 500.00	\$ 6,000.00
BARRICADES						
Type III Barricade	EA	4		4	\$ 500.00	\$ 2,000.00

Construction:	\$	17,150
Design:	\$	10,000
Data Collection:	\$	5,000
Evaluation:	\$	20,000
Community Engagement:	\$	25,000
Contingency (30%):	\$	23,145
Contingency (30%):	\$	101,000

Coleman and Ringwood Avenues Transportation Study
County of San Mateo and City of Menlo Park
Preliminary Engineer's Estimate
Pilot Option 3 - One-Way

DATE: 2/6/2024

		Coleman Avenue (County Segment)	Coleman Avenue (City Segment)			
CONSTRUCTION ITEM	Units	Quantity	Quantity	Totals	Unit Cost	Total Cost
PAVEMENT MARKINGS						
White Stripe	LF	545		545	\$ 10.00	\$ 5,450.00
Yellow Stripe	LF	310		310	\$ 10.00	\$ 3,100.00
Pavement Legend	SF	207		207	\$ 12.00	\$ 2,484.00
Green Markings	SF	900		900	\$ 20.00	\$ 18,000.00
SIGNS						
Sign Post	EA	6		6	\$ 300.00	\$ 1,800.00
Sign Panel	EA	26		26	\$ 500.00	\$ 13,000.00
BARRICADES						
Type III Barricade	EA	14		14	\$ 500.00	\$ 7,000.00
Flexposts	EA	10		10	\$ 100.00	\$ 1,000.00

Construction: \$ 51,834
Design: \$ 20,000
Data Collection: \$ 5,000
Evaluation: \$ 20,000
Community Engagement: \$ 25,000
Contingency (30%): \$ 36,550
Contingency (30%): \$ 159,000

Coleman and Ringwood Avenues Transportation Study
County of San Mateo and City of Menlo Park
Preliminary Engineer's Estimate
Pilot Option 4 - Traffic Calming

DATE: 2/6/2024

		Coleman Avenue (County Segment)	Coleman Avenue (City Segment)			
CONSTRUCTION ITEM	Units	Quantity	Quantity	Totals	Unit Cost	Total Cost
TRAFFIC CALMING ELEMENTS						
Rubber Speed Hump	EA	3	3	6	\$ 6,000.00	\$ 36,000.00

Construction:	\$	36,000
Design:	\$	10,000
Data Collection:	\$	5,000
Evaluation:	\$	20,000
Community Engagement:	\$	25,000
Contingency (30%):	\$	28,800
Contingency (30%):	\$	125,000