

# APPENDICES



**A. COST ESTIMATES**

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# APPENDIX A

## COST ESTIMATES

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CITY OF CUPERTINO  
 REGNART CREEK TRAIL FEASIBILITY STUDY  
**TRAIL ROUTE ALTERNATIVE 1 DESIGN & CONSTRUCTION COSTS**

Alternative 1 Description:  
 Alternative 1 is a creekside trail from Pacifica Drive to E Estates Drive. Roadway crossings exist at S Blaney Avenue and E Estates Drive. Two bridges exist adjacent to Wilson Park to provide connectivity between the creek trail and Wilson Park.

ITEM	QTY.	UNITS	UNIT PRICE	COST
<b>Trail</b>				
Trail Surface (Permeable)	50,400	SF	\$ 8.25	\$415,800
Railings (Wood Split Rail)	4,200	LF	\$ 10.00	\$42,000
Railings (Steel Split Rail)	200	LF	\$ 50.00	\$10,000
Fence Replacements (Wood)	1,480	LF	\$ 50.00	\$74,000
Planting Screens	250	LF	\$ 50.00	\$12,500
Drainage (10% of Trail Surfacing)	1	LS	\$ 40,000.00	\$40,000
			<b>SUBTOTAL</b>	<b>\$590,000</b>
<b>Trailheads</b>				
Primary Trailheads	3	EA	\$ 40,000.00	\$120,000
Secondary Access Locations	5	EA	\$ 20,000.00	\$100,000
			<b>SUBTOTAL</b>	<b>\$220,000</b>
<b>Roadways</b>				
Crossing Improvements (Hardscape)	1	LS	\$ 80,000.00	\$80,000
Sidewalk Improvements	-	LF	\$ 30.00	\$0
Rectangular Rapid Flashing Beacons	5	EA	\$ 20,000.00	\$100,000
Traffic Signals	-	EA	\$ 300,000.00	\$0
Traffic Circles & Speed Bumps	-	LS	\$ 50,000.00	\$0
			<b>SUBTOTAL</b>	<b>\$180,000</b>
<b>Structures</b>				
Truss Structure (40' Span)	2	EA	\$ 150,000.00	\$300,000
			<b>SUBTOTAL</b>	<b>\$300,000</b>
<b>TRAIL FEATURES SUBTOTAL</b>				<b>\$1,290,000</b>
MISCELLANEOUS ITEMS				20% \$258,000
CONTINGENCIES				25% \$322,500
<b>MISC ITEM SUBTOTAL</b>				<b>\$580,000</b>
<b>CONSTRUCTION SUBTOTAL</b>				<b>\$1,900,000</b>
ENVIRONMENTAL				10% \$190,000
ENGINEERING				10% \$190,000
INSPECTION				6% \$114,000
<b>ENVIR &amp; ENG SUBTOTAL</b>				<b>\$490,000</b>
<b>GRAND TOTAL</b>				<b>\$2,400,000</b>

Abbreviations:

- SF - Square Foot
- LS - Lump Sum
- LF - Linear Foot
- EA - Each



CITY OF CUPERTINO  
 REGNART CREEK TRAIL FEASIBILITY STUDY  
**TRAIL ROUTE ALTERNATIVE 2 DESIGN & CONSTRUCTION COSTS**

Alternative 2 Description:  
 Alternative 2 is a creekside trail from Pacifica Drive to S Blaney Avenue. The alignment provides bicycle facilities along Hall Ct, through Wilson Park, and along Vicksburg Drive. Roadway crossings exist at S Blaney Avenue and E Estates Drive.

ITEM	QTY.	UNITS	UNIT PRICE	COST
<b>Trail</b>				
Trail Surface (Permeable)	26,400	SF	\$ 8.25	\$217,800
Railings (Wood Split Rail)	2,200	LF	\$ 10.00	\$22,000
Railings (Steel Split Rail)	200	LF	\$ 50.00	\$10,000
Fence Replacements (Wood)	1,100	LF	\$ 50.00	\$55,000
Planting Screens	250	LF	\$ 50.00	\$12,500
Drainage (10% of Trail Surfacing)	1	LS	\$ 40,000.00	\$40,000
			<b>SUBTOTAL</b>	<b>\$360,000</b>
<b>Trailheads</b>				
Primary Trailheads	2	EA	\$ 40,000.00	\$80,000
Secondary Access Locations	3	EA	\$ 20,000.00	\$60,000
			<b>SUBTOTAL</b>	<b>\$140,000</b>
<b>Roadways</b>				
Crossing Improvements (Hardscape)	1	LS	\$ 80,000.00	\$80,000
Sidewalk Improvements	1,100	LF	\$ 30.00	\$33,000
Rectangular Rapid Flashing Beacons	2	EA	\$ 20,000.00	\$40,000
Traffic Signals	-	EA	\$ 300,000.00	\$0
Traffic Circles & Speed Bumps	1	LS	\$ 50,000.00	\$50,000
			<b>SUBTOTAL</b>	<b>\$203,000</b>
<b>Structures</b>				
Truss Structure (40' Span)	-	EA	\$ 150,000.00	\$0
			<b>SUBTOTAL</b>	<b>\$0</b>
<b>TRAIL FEATURES SUBTOTAL</b>				<b>\$700,000</b>
MISCELLANEOUS ITEMS				20% \$140,000
CONTINGENCIES				25% \$175,000
<b>MISC ITEM SUBTOTAL</b>				<b>\$320,000</b>
<b>CONSTRUCTION SUBTOTAL</b>				<b>\$1,000,000</b>
ENVIRONMENTAL				10% \$100,000
ENGINEERING				10% \$100,000
INSPECTION				6% \$60,000
<b>ENVIR &amp; ENG SUBTOTAL</b>				<b>\$260,000</b>
<b>GRAND TOTAL</b>				<b>\$1,300,000</b>

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CITY OF CUPERTINO  
 REGNART CREEK TRAIL FEASIBILITY STUDY  
**TRAIL ROUTE ALTERNATIVE 3 DESIGN & CONSTRUCTION COSTS**

Alternative 3 Description:  
 Alternative 3 is a creekside trail from Pacifica Drive to approximately 800' east of S Blaney Avenue. The alignment provides a connection to Wilson Park via a bridge. The alignment provides bicycle facilities through Wilson Park and along Vicksburg Drive. Roadway crossings exist at S Blaney Avenue and E Estates Drive.

ITEM	QTY.	UNITS	UNIT PRICE	COST
<b>Trail</b>				
Trail Surface (Permeable)	37,440	SF	\$ 8.25	\$308,880
Railings (Wood Split Rail)	3,120	LF	\$ 10.00	\$31,200
Railings (Steel Split Rail)	200	LF	\$ 50.00	\$10,000
Fence Replacements (Wood)	1,340	LF	\$ 50.00	\$67,000
Planting Screens	250	LF	\$ 50.00	\$12,500
Drainage (10% of Trail Surfacing)	1	LS	\$ 40,000.00	\$40,000
			<b>SUBTOTAL</b>	<b>\$470,000</b>
<b>Trailheads</b>				
Primary Trailheads	3	EA	\$ 40,000.00	\$120,000
Secondary Access Locations	4	EA	\$ 20,000.00	\$80,000
			<b>SUBTOTAL</b>	<b>\$200,000</b>
<b>Roadways</b>				
Crossing Improvements (Hardscape)	1	LS	\$ 80,000.00	\$80,000
Sidewalk Improvements	400	LF	\$ 30.00	\$12,000
Rectangular Rapid Flashing Beacons	2	EA	\$ 20,000.00	\$40,000
Traffic Signals	-	EA	\$ 300,000.00	\$0
Traffic Circles & Speed Bumps	1	LS	\$ 50,000.00	\$50,000
			<b>SUBTOTAL</b>	<b>\$182,000</b>
<b>Structures</b>				
Truss Structure (40' Span)	1	EA	\$ 150,000.00	\$150,000
			<b>SUBTOTAL</b>	<b>\$150,000</b>
<b>TRAIL FEATURES SUBTOTAL</b>				<b>\$1,000,000</b>
MISCELLANEOUS ITEMS				20% \$200,000
CONTINGENCIES				25% \$250,000
<b>MISC ITEM SUBTOTAL</b>				<b>\$450,000</b>
<b>CONSTRUCTION SUBTOTAL</b>				<b>\$1,500,000</b>
ENVIRONMENTAL				10% \$150,000
ENGINEERING				10% \$150,000
INSPECTION				6% \$90,000
<b>ENVIR &amp; ENG SUBTOTAL</b>				<b>\$390,000</b>
<b>GRAND TOTAL</b>				<b>\$1,900,000</b>

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CITY OF CUPERTINO  
 REGNART CREEK TRAIL FEASIBILITY STUDY  
**TRAIL ROUTE ALTERNATIVE 4 DESIGN & CONSTRUCTION COSTS**

Alternative 4 Description:  
 Alternative 4 is a completely on-street alignment from Pacifica Drive to E Estates Drive. The alignment provides bicycle facilities along Pacifica Drive, S Blaney Avenue, La Mar Drive, and E Estates Drive.

ITEM	QTY.	UNITS	UNIT PRICE	COST
<b>Trail</b>				
Trail Surface (Permeable)	-	SF	\$ 8.25	\$0
Railings (Wood Split Rail)	-	LF	\$ 10.00	\$0
Railings (Steel Split Rail)	-	LF	\$ 50.00	\$0
Fence Replacements (Wood)	-	LF	\$ 50.00	\$0
Planting Screens	-	LF	\$ 50.00	\$0
Drainage (10% of Trail Surfacing)	-	LS	\$ 40,000.00	\$0
			<b>SUBTOTAL</b>	<b>\$0</b>
<b>Trailheads</b>				
Primary Trailheads	-	EA	\$ 40,000.00	\$0
Secondary Access Locations	-	EA	\$ 20,000.00	\$0
			<b>SUBTOTAL</b>	<b>\$0</b>
<b>Roadways</b>				
Crossing Improvements (Hardscape)	-	LS	\$ 80,000.00	\$0
Sidewalk Improvements	-	LF	\$ 30.00	\$0
Rectangular Rapid Flashing Beacons	-	EA	\$ 20,000.00	\$0
Traffic Signals	-	EA	\$ 300,000.00	\$0
Traffic Circles & Speed Bumps	1	LS	\$ 50,000.00	\$50,000
			<b>SUBTOTAL</b>	<b>\$50,000</b>
<b>Structures</b>				
Truss Structure (40' Span)	-	EA	\$ 150,000.00	\$0
			<b>SUBTOTAL</b>	<b>\$0</b>
<b>TRAIL FEATURES SUBTOTAL</b>				<b>\$50,000</b>
MISCELLANEOUS ITEMS				20% \$10,000
CONTINGENCIES				25% \$12,500
<b>MISC ITEM SUBTOTAL</b>				<b>\$20,000</b>
<b>CONSTRUCTION SUBTOTAL</b>				<b>\$100,000</b>
ENVIRONMENTAL				10% \$10,000
ENGINEERING				10% \$10,000
INSPECTION				6% \$6,000
<b>ENVIR &amp; ENG SUBTOTAL</b>				<b>\$30,000</b>
<b>GRAND TOTAL</b>				<b>\$100,000</b>

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CITY OF CUPERTINO  
 REGNART CREEK TRAIL FEASIBILITY STUDY  
**TRAIL ROUTE ALTERNATIVE 5 DESIGN & CONSTRUCTION COSTS**

Alternative 5 Description:  
 Alternative 5 is mostly an on-street alignment from Pacifica Drive to E Estates Drive. The alignment provides bicycle facilities along Rodrigues Avenue, Parkside Lane, Vicksburg Drive, and E Estates Drive. A portion of the alignment goes through Wilson Park.

ITEM	QTY.	UNITS	UNIT PRICE	COST
<b>Trail</b>				
Trail Surface (Permeable)	-	SF	\$ 8.25	\$0
Railings (Wood Split Rail)	-	LF	\$ 10.00	\$0
Railings (Steel Split Rail)	-	LF	\$ 50.00	\$0
Fence Replacements (Wood)	-	LF	\$ 50.00	\$0
Planting Screens	-	LF	\$ 50.00	\$0
Drainage (10% of Trail Surfacing)	-	LS	\$ 40,000.00	\$0
			<b>SUBTOTAL</b>	<b>\$0</b>
<b>Trailheads</b>				
Primary Trailheads	-	EA	\$ 40,000.00	\$0
Secondary Access Locations	-	EA	\$ 20,000.00	\$0
			<b>SUBTOTAL</b>	<b>\$0</b>
<b>Roadways</b>				
Crossing Improvements (Hardscape)	1	LS	\$ 80,000.00	\$80,000
Sidewalk Improvements	1,050	LF	\$ 30.00	\$31,500
Rectangular Rapid Flashing Beacons	-	EA	\$ 20,000.00	\$0
Traffic Signals	-	EA	\$ 300,000.00	\$0
Traffic Circles & Speed Bumps	1	LS	\$ 50,000.00	\$50,000
			<b>SUBTOTAL</b>	<b>\$161,500</b>
<b>Structures</b>				
Truss Structure (40' Span)	-	EA	\$ 150,000.00	\$0
			<b>SUBTOTAL</b>	<b>\$0</b>
<b>TRAIL FEATURES SUBTOTAL</b>				<b>\$160,000</b>
MISCELLANEOUS ITEMS				20% \$32,000
CONTINGENCIES				25% \$40,000
<b>MISC ITEM SUBTOTAL</b>				<b>\$70,000</b>
<b>CONSTRUCTION SUBTOTAL</b>				<b>\$200,000</b>
ENVIRONMENTAL				10% \$20,000
ENGINEERING				10% \$20,000
INSPECTION				6% \$12,000
<b>ENVIR &amp; ENG SUBTOTAL</b>				<b>\$50,000</b>
<b>GRAND TOTAL</b>				<b>\$300,000</b>

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