

**Ranking Criteria Applied to
Technically Feasible Routes for Connecting the Stevens Creek Trail
Grading and Color Code Key**

Ranking Criteria	Criteria Grading				
	A	B	C	D	E
General Elements					
Type of Facility	Class I Trail or Median Path	Class II Bike Lanes	Greenway	Class III Bike Route	Delineate but not Designate
# Major Intersections	None	1	2	--	--
# Minor Intersections – only residential collector/residential collector or residential collector/arterial street intersections – does not include neighborhood streets	None	1	2	3	≥4
Improves Route to School – based upon route within 1 mile of elementary school boundaries and/or 2 miles of middle school or high school	Access to 3 or more schools	Access to 2 schools	Access to 1 schools	Access to no schools	---
Pedestrian/Bike Accident Data Still in development – includes all pedestrian and bicycle injury accidents along the routes over the past five years. See attached list of accidents.					
Enhances Streetscape or Opportunity for Habitat Enhancement	Includes new street trees and new bulb-outs w/ landscaping or opportunity for enhancing habitat	Includes new street trees and planter strip landscaping	Includes new street trees or planter strip	Replaces missing streets trees only	Uses existing streets with no new landscaping
Aesthetic Appeal and Walking/Biking Comfort	Within the creek corridor	Along a lightly-traveled, tree lined city street with sidewalks	Along a lightly-traveled street with sidewalks	Along a tree lined, busy collector street	Along a busy collector street

**Ranking Criteria Applied to
Technically Feasible Routes for Connecting the Stevens Creek Trail
Grading and Color Code Key**

Ranking Criteria	Criteria Grading				
	A	B	C	D	E
General Elements					
Posted Speed Limit (MPH)/ 85th Percentile Speed (actual speed)	≤25 mph	≤30 mph	≤35 mph	≤40 mph	>45 mph
Traffic Volume – ADT Average Daily Traffic	<2,500	<5,000	<10,000	<15,000	>20,000
Unique Traffic Conditions	None	Restricted Turning Movements	School Zone	Truck Route	Interchange Crossing
VTA/City Street Ratings Information is provided, but is left unranked due to variation among cities and VTA ratings	City Designated Beginner	City Designated Intermediate	VTA Undesignated Street Moderate	VTA Undesignated Street Alert	VTA Undesignated Street Extreme Caution

Summary of Technically Feasible Routes for Connecting the Stevens Creek Trail

TECHNICALLY FEASIBLE ALIGNMENTS & ROUTE TYPES	Segment Length (Approx. and start point))	Facility Type	Major Intersection Crossing Type	# Minor Intersections	Route to School(s)	Pedestrian/Bike Accident Data	Enhances Streetscape or Opportunity for Habitat Enhancement	Aesthetic Appeal	Posted Speed Limit (85 th Percentile)	Traffic Volume (ADT)	Unique Traffic Conditions	Current VTA/City Street Ratings
DALE/HEATHERSTONE PEDESTRIAN OVERCROSSING to FREMONT AVENUE												
Knickerbocker to Mary Avenue Bicycle Lanes	9,400 LF Dale/Heatherstone	Bike Lanes	Fremont Signalized	2 Knickerbocker /Bernardo and Knickerbocker /Mary C	1 Cherry Chase Elem. C	4 bicyclist, 3 ped injury collisions, 2 bicyclist no injury collision, 1 bike/object and 1 bike/ped injury collisions E	Replace missing street trees D	Along a tree lined, busy collector D	25 and 35 (30-40) C	1,661 and 14,662 D	None A	Bike Lanes to Bike Route to VTA -Alert and Extreme Caution Streets Sunnyvale - Intermediate Route
Knickerbocker to Mary Avenue Median-running Multi-use Trail <i>Requires loss of a travel lane and bike lanes in exchange for median running path</i>	9,400 LF Dale/Heatherstone	Median Path in Center of Road	Fremont Signalized	2 Knickerbocker /Bernardo and Knickerbocker /Mary C	1 Cherry Chase Elem. C	Could apply data from above	Possibly buffer landscaping along median path C	Along a tree lined, busy collector C	25 and 35 C	1,661 and 14,662 many intersections on intersecting median path B	May restrict turning movements at some intersections B	Bike Lanes to VTA Alert and Extreme Caution Streets Sunnyvale – Intermediate Route
Heatherstone to Bernardo Avenue Greenway to Existing Bike Lanes to Remington to new Bike Lanes to Fremont <i>Requires loss of parking on one side of street south of Remington</i>	8,000 LF Dale/Heatherstone	Bike Lanes	Fremont Signalized	2 Knickerbocker /Bernardo Remington/ Bernardo C	2 Cherry Chase Elem. and Stratford School B	2 bicyclist injury collisions B	Replace missing street trees D	Along a tree lined, busy collector D	25 and 30 B	Low volume residential and 10,084 C	None A	Alert Street to Bike Lanes to Undesignated Street Sunnyvale – Intermediate Route
Option 1A: Creek Corridor Multi-use Trail through 22 acres of open space	7,170 LF Dale/Heatherstone	Trail	Fremont Signalized	None A	2 Cherry Chase Elementary and Stratford School B	2 bicyclist injury collisions at SR 85 and Fremont B	Potential to include creek restoration A	Through open space lands A	Separated from auto traffic A	Separated from auto traffic A	None A	As Proposed Future Off-Street Bike Path
Option 1B: Creek Corridor Multi-use Trail through 22 acres with grade-separated crossing at Fremont	7,170 LF Dale/Heatherstone	Trail	Grade Separation	None A	2 Cherry Chase Elementary and Stratford School B	Would include Grade Separation	Potential to include creek restoration A	Through open space lands A	Separated from auto traffic A	Separated from auto traffic A	None A	As Proposed Future Off-Street Bike Path
Franklin to Truman Greenway to Bike Lanes	8,950 LF Sleeper	Bike Lanes and Route	Fremont Signalized	2 Bryant/Truman and Oak/Truman C	3 Mtn. View HS, Alta Vista HS and Oak Elem. A	Missing Data	Replace missing street trees D	Along a moderately busy collector C	25 and 30 B	4,500 B	Street busy during school drop-off and pick-up C	Undesignated Street and Bike Lanes

Summary of Technically Feasible Routes for Connecting the Stevens Creek Trail

TECHNICALLY FEASIBLE ALIGNMENTS & ROUTE TYPES	Length (Approx.)	Facility Type	# Major Intersections	# Minor Intersections	Route to School(s)	Pedestrian/Bike Accident Data	Enhances Streetscape or Opportunity for Habitat Enhancement	Aesthetic Appeal	Posted Speed Limit (MPH) (85 th Percentile)	Traffic Volume (ADT)	Unique Traffic Conditions	VTA/City Street Ratings
FREMONT AVENUE to HOMESTEAD ROAD												
Mary Avenue Bicycle Lanes	8,450 LF Mary at Fremont	Bike Lanes	Homestead Signalized	2 Cascade/Mary and The Dalles/Mary C	3 West Valley Elementary, Cupertino Middle and Homestead HS A	4 bicycle injury collisions, 1 bicyclist and 1 pedestrian collisions no injuries C	Replace missing street trees D	Along a tree lined, busy collector D	35 C	8,564 C	Street busy during school drop-off and pick-up C	Bike Routes and Bike Lanes Sunnyvale – Intermediate Route
Mary Avenue Median-running Multi-use Trail <i>Requires loss of a travel lane and bike lanes in exchange for median running path</i> <i>May restrict turning movements for vehicles</i>	8,450 LF Mary at Fremont	Median Path In Center of Road	Homestead Signalized	2 Cascade/Mary and The Dalles/Mary C	2 West Valley Elem. and Cupertino Middle B	Could apply data from above	Possibly buffer landscaping along median path C	Along a tree lined, busy collector C	35 C	8,564 many intersections on intersecting median path B	Street busy during school drop-off and pick-up C	Bike Lanes
Option 1A: Bernardo Avenue Multi-use Trail along Soundwall with Grade-separated crossings <i>Requires 1-Way Street or Loss of Parking</i>	6,325 LF Bernardo at Fremont	Trail	None Grade-Separated at Homestead	None A	3 West Valley Elementary, Cupertino Middle and South Peninsula Hebrew Day School A	Would include Grade Separation	Requires new street trees and landscaping along the trail A-	Along a landscaped path adjacent to the soundwall A-	Separated from auto traffic A	Separated from auto traffic A	None A	As Proposed Future Off-Street Bike Path with <u>Grade-separated Crossings</u> at Fremont and Homestead
Option 1B: Bernardo Avenue Multi-use Trail along Soundwall <i>Requires 1-Way Street or Loss of Parking</i>	6,325 LF Bernardo at Fremont	Trail	Homestead Signalized	None A	3 West Valley Elem., Cupertino Middle & South Peninsula Hebrew Day School A	2 bicycle injury collisions and 1 pedestrian collisions no injuries on Homestead B	Requires new street trees and landscaping along the trail A-	Along a landscaped path adjacent to the soundwall A-	Separated from auto traffic A	Separated from auto traffic A	None A	As Proposed Future Off-Street Bike Path with <u>At-grade Street Crossings</u> at Fremont and Homestead
Option 2: Bernardo Avenue Greenway	6,325 LF Bernardo at Fremont	Greenway	Homestead Signalized	Cascade and The Dalles end at Bernardo – No signals B	3 West Valley Elem., Cupertino Middle and South Peninsula Hebrew Day School A	3 bicyclists injury collisions and 2 bicycle injury collisions and 1 pedestrian collisions with no injuries on Homestead to reach Mary C	Replace missing street trees D	Along a tree lined, lightly traveled collector street B	30 B	2,532 A	Street busy during school drop-off and pick-up C	VTA - Undesignated Street Sunnyvale – Intermediate Route

Summary of Technically Feasible Routes for Connecting the Stevens Creek Trail

TECHNICALLY FEASIBLE ALIGNMENTS & ROUTE TYPES	Length (Approx.)	Facility Type	# Major Intersections	# Minor Intersections	Route to School(s)	Pedestrian/Bike Accident Data	Enhances Streetscape or Opportunity for Habitat Enhancement	Aesthetic Appeal	Posted Speed Limit (MPH) <small>(85th Percentile)</small>	Traffic Volume (ADT)	Unique Traffic Conditions	VTA/City Street Ratings
FREMONT AVENUE to HOMESTEAD ROAD (continued)												
Belleville Bike Lanes <i>Requires Reduced Parking</i>	5,430 LF Belleville at Fremont	Bike Lanes	Homestead Signalized	Most are internal streets B	2 West Valley Elem. and Cupertino Middle B	2 bicyclists injury and 1 pedestrian injury collisions C	Replace missing street trees D	Along a tree-lined, lightly traveled collector street B	25 A	1,343 A	Street busy during school drop-off and pick-up C	VTA - Undesignated Street Sunnyvale – Beginner Route
Belleville/Bedford/Fallen Leaf/Bridge Combination of Bike Lanes and a Greenway <i>Requires Reduced Parking</i>	6,740 LF Belleville at Fremont	Bike Lanes and Greenway	Homestead Signalized	Most are internal streets B	2 West Valley Elem. and Cupertino Middle B	1 bicyclist injury and 1 pedestrian injury collisions B	Replace missing street trees D	Along a tree-lined, lightly traveled collector street B	25 A	1,343 A	Street busy during school drop-off and pick-up C	VTA - Undesignated Streets Sunnyvale – Beginner Route
Option 1: Fallen Leaf Lane Multi-use Trail - <i>Requires 60-Foot ROW</i>	7,100 LF Fallen Leaf at Fremont	Median Path In Center of Road	Homestead Flashing Crosswalk	Most are cul de sacs B	2 West Valley Elem. and Cupertino Middle B	None A	Requires new street trees and landscaping along the trail A	Along a lightly traveled, residential street B	Separated from auto traffic A	Separated from auto traffic A	None A	Undesignated Street
Option 2: Fallen Leaf Lane Greenway or Bike Route	7,100 LF Fallen Leaf at Fremont	Greenway	Homestead Flashing Crosswalk	Most are cul de sacs B	2 West Valley Elem. and Cupertino Middle B	None A	Could include walking space, street trees and narrowing of intersections B	Along a lightly traveled, residential street B	25 A	1,350 A	None A	Proposed Bike Route in 2002 General Plan and 2012 Bicycle Transportation Plan
Fremont Avenue to Grant Road to Foothill Expressway Existing Bike Lanes (Proposed Multi-use Path) to Delineated but not Designated Bike Lanes <i>No Pedestrian Facilities on Foothill Expressway</i>	11, 140 LF Hwy 85 Off-ramp to Grant at Foothill	Bike Lanes Delineate but not Designate	2 Grant and Foothill Expway Signalized	3 Newcastle/Fremont, Austin/Fremont and Truman/Fremont D	2 Montclair Elementary School and St. Simon Elementary School B	11 bicyclists injury collisions in Los Altos E	Could include street trees and narrowing of intersections at selected locations with new bike path A	Along a tree-lined, busy collector street D A new separate path A	30 (38), 25 (37) and 45 E	Fremont - 16,300 Grant - 10,700 Foothill Expway - 20,402 E	Grant Road and Foothill Expway serve as Truck Routes, Fremont and Grant traffic heavy at commute hours, Grant busy at school hours, Traffic backs up at Belleville forcing residents living to the north of Fremont to turn west and U-turn to cross the street D	Existing Bike Lanes (Proposed Multi-use Path on Fremont in 2012 Bicycle Transportation Plan) to Bike Lanes to Alert Street to “Delineate but not Designate” Expressway

Summary of Technically Feasible Routes for Connecting the Stevens Creek Trail

TECHNICALLY FEASIBLE ALIGNMENTS & ROUTE TYPES	Length (Approx.)	Facility Type	# Major Intersections	# Minor Intersections	Route to School(s)	Pedestrian/Bike Accident Data	Enhances Streetscape or Opportunity for Habitat Enhancement	Aesthetic Appeal	Posted Speed Limit (MPH) (85 th Percentile)	Traffic Volume (ADT)	Unique Traffic Conditions	VTA/City Street Ratings
HOMESTEAD ROAD to STEVENS CREEK BOULEVARD												
Mary Avenue Bicycle Lanes to Stevens Creek Blvd. Bike Lanes	6,130 LF Mary at Homestead plus 4,100 LF to SC Blvd. for 10,230 LF	Bike Lanes	Stevens Creek Blvd. Signalized	2 Lubec/Mary and Parkwood/Mary B	3 Garden Gate Elem, Homestead HS and De Anza College B	None A	Replace missing street trees D	Along a moderately busy collector street C	Mary 35 (34) SC Blvd. 35 (40) D	Separated from auto traffic Mary-3,850 SC Blvd-34,980 E	Must cross Hwy 85 interchange at SC Blvd., which also serves as Truck Route E	Off-Street Bike Path to Don Burnett Pedestrian and Bicycle Bridge to Bicycle Lanes on Mary and SC Blvd.
Barranca/Peninsular/Caroline/Maxine Bike Lanes <i>(requires loss of some parking)</i> or Greenway to Stokes/Dempster/ Peninsula Greenway with Hwy 280 Overcrossing to Stevens Creek Blvd. <i>Some missing sidewalks</i>	7,325 LF Barranca at Homestead plus 2,350 LF to SC Blvd. for 9,675 LF	Greenway	Stevens Creek Blvd. Signalized	None A	2 West Valley Elementary School and Monta Vista HS B	1 bicyclist injury collision in Cupertino B	Use existing street with no landscaping and Replace missing street trees E	Along residential streets with few sidewalks and Along a tree lined residential street with sidewalks C	Residential 25 SC Blvd. 35 (40) B	Very low volume residential to SC Blvd-20,640 A-	SC Blvd. serves as Truck Route D	Undesignated Streets
Barranca/Peninsular/Caroline/Maxine Bike Lanes <i>(requires loss of some parking)</i> or Greenway to Phar Lap/Madera/Mann Greenway with Hwy 280 Overcrossing <i>Some missing sidewalks</i>	6,580 LF Barranca at Homestead	Greenway	None Trail Crossing (under construction)	None A	3 West Valley Elementary, Stevens Creek Elem. and Monta Vista HS A	4 bicyclist injury collisions in Cupertino C	Use existing street with no landscaping and Replace missing street trees E	Along residential streets without sidewalks C	Residential 25 A	Very low volume residential A	None A	Undesignated Streets
Foothill Expressway to Foothill Blvd. Delineated but not Designated Bike Lanes and Undesignated Crossing at Hwy 280 and Interchange Improvements to Stevens Creek Blvd. <i>No Pedestrian Facilities on Foothill Expressway</i>	6,000 LF Foothill at Grant plus 2,460 LF to SC Blvd. for 8,460 LF	Delineate but not Designate Bike Lanes	2 Foothill Expway & Stevens Creek Blvd. Signalized	4 Cristo Rey/Starling/Vista Knoll/Foothill, Alpine/Foothill and Salem/Foothill D	2 Stevens Creek Elem. and Monarch Christian School B	2 bicyclists injury collisions in Los Altos and 5 bicyclists and 1 ped injury collisions and 2 pedestrian fatalities (2 collisions with trucks) E	Replace missing street trees D	Along a busy collector street E	Foothill Expway-45 Foothill Blvd-40 (44 south and 45 north) SC Blvd-35 (38) E	Foothill Expway-20,402 Foothill-16,001 SC Blvd-10,850 E	Must cross Hwy 280 Interchange at Foothill Blvd. SC Blvd. and Foothill Blvd. serve as Truck Routes Steep downgrade to creek corridor E	"Delineate but not Designate" Expressway to Undesignated Crossing at Hwy 280 to Bike Lanes

5-Year Pedestrian/Bicyclist Collision Data from 2008 - August 2013 on Studied Stevens Creek Trail Routes

City of Los Altos – Collision Summaries

Foothill Expressway – Grant Road to City Limit

7 car/bike injury collisions

Fremont Avenue – City limit near Highway 85 to Grant Road

6 car/bike injury collisions

Grant Road – Fremont to Foothill Expressway

5 car/bike injury collisions

City of Cupertino – Collision Summaries

Foothill Blvd – Stevens Creek Blvd to Homestead Road

5 car/bike injury collisions with a total of 6 injured,
2 car/pedestrian fatalities, and
1 car/pedestrian injury collisions

Homestead Road – Foothill Boulevard to Mary

5 car/bike injury collisions,
2 car/bike collisions – no injury, and
No pedestrian collisions

Mary Avenue – Homestead and Steven Creek Blvd.

1 car/bike collision – no injury and
1 car/pedestrian injury collision

Stevens Creek Boulevard – Western city limits and Mary Avenue

1 car/bike fatality,
5 car/bike injury collisions,
4 car/bike collisions – no injury,
3 car/pedestrian injury collisions and
1 car/pedestrian collision – no injury

City of Sunnyvale – Collision Summaries

Knickerbocker Drive – Heatherstone and Mary

2 car/bike injury collisions
1 car/pedestrian injury collision
1 bike/object injury collision
1 pedestrian/bike injury collision

Mary Avenue – Knickerbocker and Homestead

6 car/bike injury collisions
2 car/pedestrian injury collision
2 car/pedestrian injury – no injuries
2/car/bike collision – no injuries

Belleville Way – Fremont and Homestead

1 car/bike injury collision
1 car/pedestrian injury collision

Bernardo Road – Fremont and Homestead

2 car/bike injury collisions

Homestead Road – Mary and Belleville

4 car/bike injury collision
1 car/pedestrian collision – no injuries

Fremont Avenue – Mary and Belleville

2 car/bike injury collision

City of Los Altos – Collision Locations

Foothill Expressway Collisions

Foothill/ Arboretum – 1 other bike collision
Foothill/Homestead – 3 broadside bike collisions
Foothill/Fremont – 1 broadside bike collision
Foothill Highway 280 On-Ramp – 1 sideswipe bike collision
Foothill/Cristo Rey – 1 sideswipe bike collision

Fremont Avenue Collisions

Fremont/Truman – 4 total = 1 broadside bike collision and 3 other bike collisions
Fremont/Bright Oaks – 1 broadside bike collision
Fremont/Grant – 1 broadside bike collision

Grant Road Collisions

Grant/El Sereno – 1 broadside bike collision
Grant/Foothill – 1 sideswipe bike collision
Grant/ Homestead – 2 total = 1 sideswipe bike collision and 1 other bike collision

City of Cupertino – Collision Locations

Foothill Blvd from Stevens Creek Blvd to Homestead Road

Foothill Blvd/Starling – 1 car/bike injury collision
Foothill Blvd/Stevens Creek – 2 car/bike injury collision with 3 injuries
Foothill Blvd/Stevens Creek – 1 truck/bike injury collision
Foothill Blvd/Santa Paula – 1 car/bike injury collision
Foothill Blvd/Salem – 1 car/pedestrian injury collision
Foothill Blvd/Cupertino Road – 1 car/pedestrian fatality
Foothill Blvd/Cupertino Road – 1 truck/pedestrian fatality

Homestead Road Collision Summary between Foothill and Mary

Homestead/Homestead Court – 1 car/bike injury collision
Homestead/Barranca – 1 car/bike collision – no injuries
Homestead/Mary – 3 car/bike injury collision
Homestead/Mary – 1 car/bike collision – no injuries
Homestead – 1 car/bike collision – no injuries

Mary Avenue Collisions

Mary/Stevens Creek Blvd – 1 car/pedestrian injury collision
Mary/Lubec – 1 car/bike collision – no injury

Stevens Creek Boulevard Collisions

Stevens Canyon/Stevens Creek Blvd – 1 car/bike collision – no injury
Stevens Creek Blvd/Phar Lap – 1 car/bike injury collision
Stevens Creek Blvd/Mann – 1 car/bike injury collision
Stevens Creek Blvd/Mann – 1 car/bike collision – no injuries
Stevens Creek Blvd/Orange – 1 truck/pedestrian injury collision
Stevens Creek Blvd/Peninsula – 1 car/pedestrian collision – no injury
Stevens Creek Blvd/SR-85 West Ramps – 1 car/bike injury collision
Stevens Creek Blvd/Imperial – 1 car/bike injury collision
Stevens Creek Blvd/Mary – 1 car/bike injury collision
Stevens Creek Blvd/Mary – 1 car/bike collision – no injury
Stevens Creek Blvd/Pasadena – 1 car/bike injury collision
Stevens Creek Blvd/Pasadena – 1 car/pedestrian injury collision
Stevens Creek Blvd – 1 car/bike fatality

City of Sunnyvale – Collision Locations

Knickerbocker Drive Collision Summary between Heatherstone and Mary

Knickerbocker/Heatherstone – 1 bike/object injury collision
Knickerbocker/Bernardo – 1 car/bike injury collision (rear end)
Knickerbocker/Mango – 1 car/pedestrian injury collision
Mary/Knickerbocker – 1 car/bike injury collision (broadside) and
1 pedestrian/bike injury collision (broadside)

Mary Avenue Collision Summary between Knickerbocker and Homestead

Mary/Ticonderoga – 1 car/bike injury collision (broadside) and
2 car/pedestrian injury collision
Mary/Remington – 1 car/pedestrian injury – no injuries
Mary/Fremont – 1 car/bike injury collision (broadside) and
1 car/bike collision – no injuries
Mary/Cascade – 1 car/bike injury collision (broadside)
Mary/Helena – 1 car/pedestrian injury – no injuries
Mary/The Dalles – 1 car/bike injury collision (broadside) and
1 car/bike collision – no injuries
Mary/Rockefeller – 1 car/bike injury collision (other)
Mary/Homestead – 1 car/bike injury collision (broadside)

Belleville Way Collision Summary between Fremont and Homestead

Belleville/Homestead – 1 car/bike injury collision (broadside) and
1 car/pedestrian injury collision

Bernardo Road Collision Summary between Fremont and Homestead

Bernardo/Homestead – 2 car/bike injury collisions (broadside and rear end)

Homestead Road Collision Summary between Mary and Belleville

Homestead/Bernardo – 1 car/bike injury collision
Homestead/Belleville – 1 car/bike injury collision (sideswipe)
Homestead/Mackenzie – 1 car/pedestrian collision – no injuries
Homestead/Wright – 2 car/bike injury collision (broadside and rear end)

Fremont Avenue Collision Summary between Mary and Belleville

Fremont/SR 85 – 2 car/bike injury collision (broadside and other)
(not include in Trail Route Summary)