

# Town of Danville Bicycle Master Plan

TOWN OF DANVILLE | June 8, 2021



alta



# PROJECT INTRODUCTION



# Background and Purpose

- The first Town-specific Bicycle Master Plan
- Funding
  - Measure J, Contra Costa ½-cent Transportation Sales Tax
- Consultant
  - Alta Planning + Design
- Scope
  - Public Outreach
  - Develop Vision, Goals and Objectives
  - Policies – Existing and New
  - Projects, Prioritization and Funding Mechanisms
  - Wayfinding Signage Strategy



# Project Goals

- **ESTABLISH** a culture of biking
- **DEVELOP** comfortable, safe, and connected facilities for everyone
- **ENGAGE** and respond to the needs of the community
- **UNDERSTAND** and **ADDRESS** any issues for people biking in Danville
- **COORDINATE** with development and capital improvements



# Plan Organization

- Chapter 1: Introduction
- Chapter 2: Vision, Goals & Objectives
- Chapter 3: Existing Conditions
- Chapter 4: Infrastructure Recommendations
- Chapter 5: Programs and Policy Recommendations
- Chapter 6: Implementation Strategy
- Chapter 7: Wayfinding Strategy
- Appendices:
  - Plan Review
  - Existing Bicycle Counts
  - Public Comments



## TOWN OF DANVILLE BICYCLE MASTER PLAN

SPRING 2021



# PUBLIC ENGAGEMENT



# Outreach and Events

- Online (Web) Interactive Map Tool
  - Phase 1 – Existing Conditions
  - Phase 2 – Recommended Improvements
- Stakeholder/Listening Sessions (3)
  - Online via Zoom/Facebook Live
  - Mentimeter (interactive surveys)
- Public Workshops (2)
  - September 2020 & March 2021
  - Zoom & Mentimeter
- Danville PD “10-8” Program
  - Summer/Fall 2020
- Parks Recreation and Arts Commission
  - May & December 2020

## Danville Bike Master Plan



The Town invites you to collaborate with us as we develop a vision for the future of biking throughout Danville.

LEARN MORE & GET INVOLVED  
[www.danvillebikeplan.com](http://www.danvillebikeplan.com)

CONTACT US  
[info@danvillebikeplan.com](mailto:info@danvillebikeplan.com)



SCAN ME

# Project Website



## Town of Danville Bicycle Master Plan

### About

The Town of Danville is requesting your feedback to develop a vision for the future of bicycling in Danville. The Danville Bicycle Master Plan will provide guidance to develop and prioritize future enhancements to bicycle infrastructure and foster a more safe, efficient, and bicycle-friendly community.

The Danville Bicycle Master Plan is expected to be completed in Spring 2021. We are excited to work with you!



# Interactive Map

**Map Legend**

**User Comments**

- Destinations
- Biking Barrier
- Suggested Route

**Existing Facilities**

- Existing Class I Shared-Use Path
- Existing Class II Bicycle Lane
- Existing Class III Bicycle Route

**Map Controls**

- Street
- Satellite
- Existing Class I Shared-Use Path
- Existing Class II Bicycle Lane
- Existing Class III Bicycle Route

**Navigation Buttons:** HOME, GET STARTED, SHOW COMMENTS, VIEW LEGEND, CONTACT US

**Map Labels:** Alamo, Danville, San Ramon, Alamo Oaks, Diablo, Blackhawk, Tassajara, San Ramon, Bishop Ranch Regional Preserve, Hidden Valley Open Space, Brookshire, Sugarloaf Open Space, Civilian Conservation Corps Cultural Preserve, Las Trampas Regional Wilderness, Land Bank, Bollinger Canyon Rd, El Capitan Dr, Paradise Dr, Camino Tassajara, Blackhawk Dr, Camino Tassajara, Tassajara, Folley Rd, Alameda Blvd, Douglas Rd, Bishop Ranch Business Park, The Bridges Golf Course, Hidden Valley Open Space, Brown Ranch Mitigation Land.

# Interactive Map



# Interactive Map



# Which Bicyclist are You?



## STRONG & FEARLESS

You are comfortable biking anytime, anywhere!



## ENTHUSIASTIC & CONFIDENT

You are comfortable riding on most roads, but prefer bike lanes, trails, and other designated places to ride.



## INTERESTED BUT CONCERNED

You would like to bike, but are concerned about safety and sharing the road with cars. You prefer biking in separated spaces.

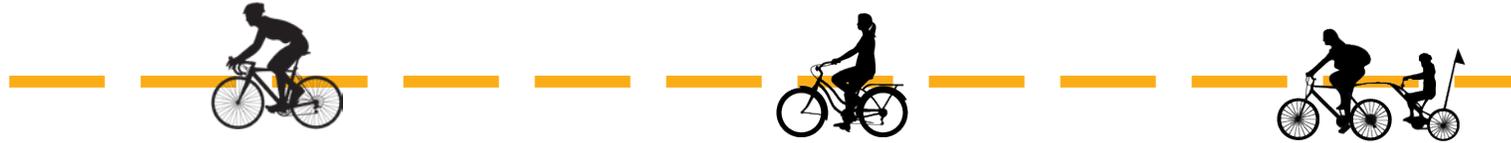


## NO WAY, NO HOW

You are not interested in riding a bicycle at all and unlikely to start bicycling

# Bicycle Facility Types

Least Separation



Most Separation



CLASS III: BIKE ROUTE



CLASS IIIB: BIKE BOULEVARD

# Bicycle Facility Types

Least  
Separation



Most  
Separation



# Bicycle Facility Types

Least  
Separation



Most  
Separation



**CLASS III: BIKE ROUTE**



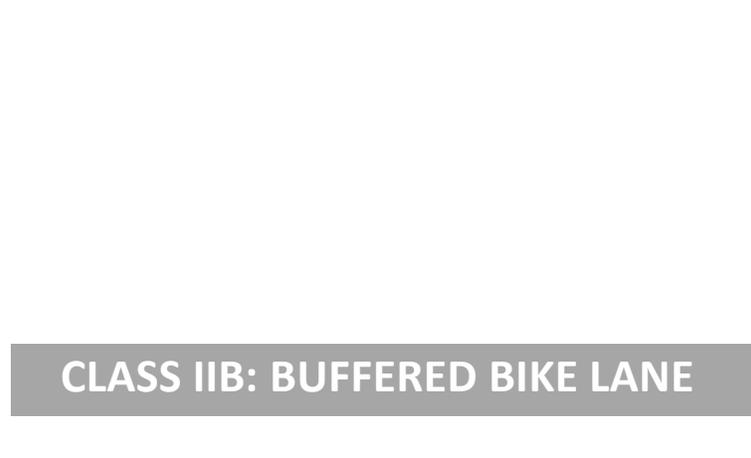
**CLASS II: BIKE LANE**



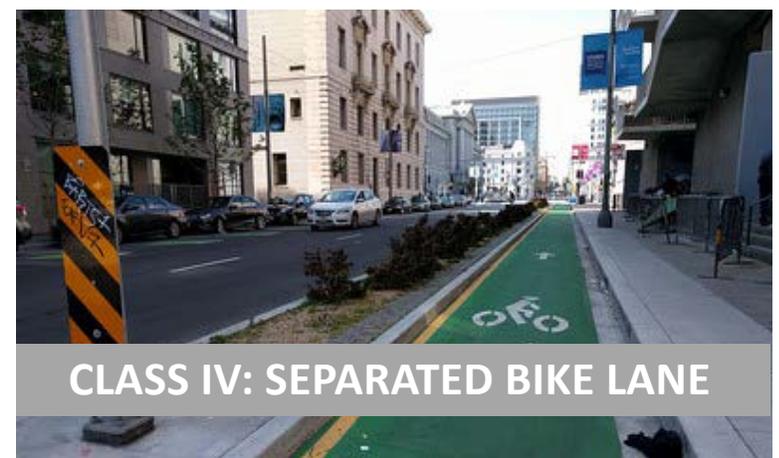
**CLASS I: SHARED-USE PATH**



**CLASS IIIB: BIKE BOULEVARD**



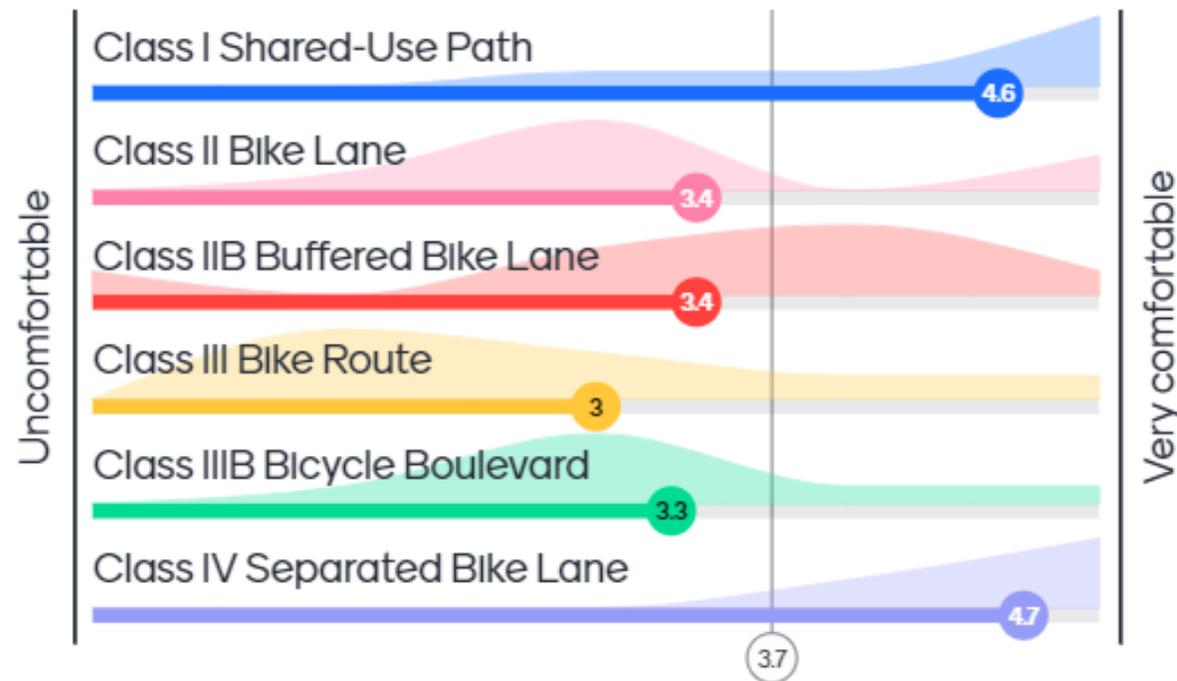
**CLASS IIB: BUFFERED BIKE LANE**



**CLASS IV: SEPARATED BIKE LANE**

# Mentimeter Poll - *Facilities*

How comfortable would you feel riding on the following bicycle facility types? (1 = uncomfortable, 5 = very comfortable)



Press S to show image

# Mentimeter Poll - *Intersections*

## What INTERSECTIONS do you think are most challenging for people bicycling in Danville?



Iron horse trail and SRV blvd. There are lots of people who run red lights and stop signs. That is my main concern. Most of the crossings with the IHT bikes fail to stop

Camino tassajara and crow canyon

Iron horse crossings

Diablo Rd and W El Pintado

Diablo Rd

Iron horse crossings

Camino Tassajara

Hartz, railroad are challenging when there are cars. Sycamore valley/ tassajara because of the speed of the cars SRV blvd and Danville blvd because of the speed of the cars.

Railroad Ave

Maybe make hartz/ railroad one way, hartz north bound and railroad southbound?

# Mentimeter Poll - *Roads*

## What ROADS are most challenging for people bicycling in Danville?



Railroad Ave

Camino Tassajara

Diablo

Danville Blvd, also El Cerro Blvd.

Diablo road

Camino tassajara

Iron Horse Trail

Iron horse crossings.

Crow Canyon Rd

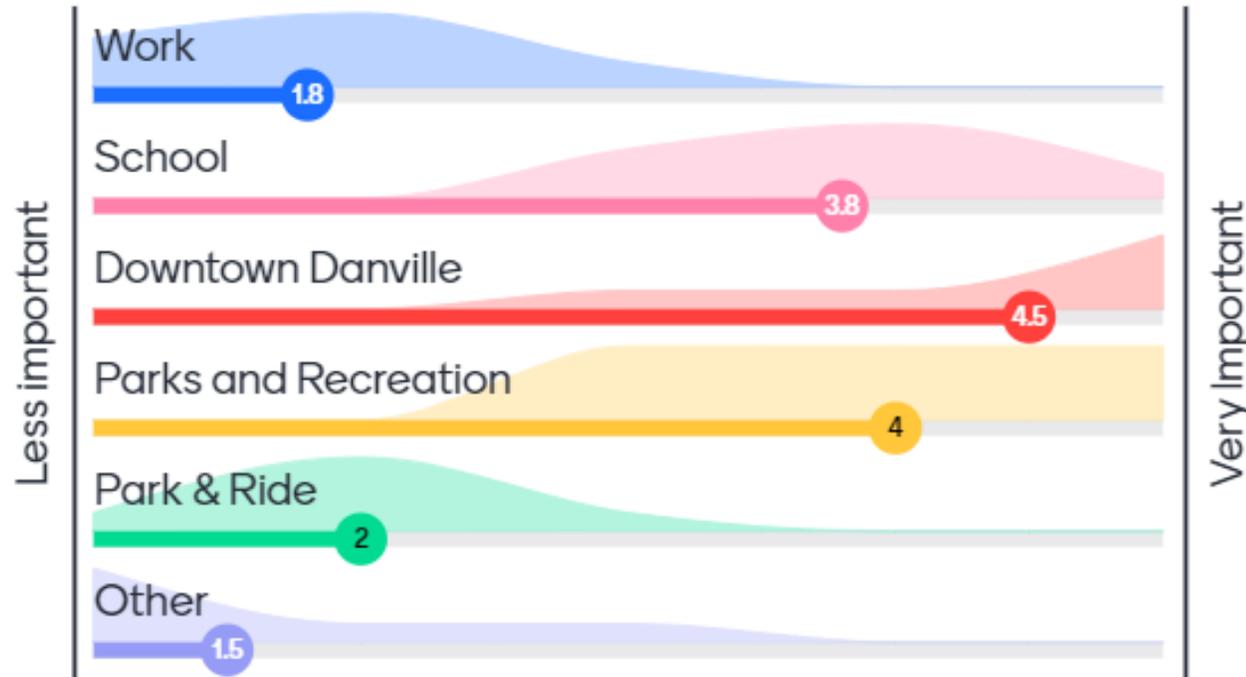
Hartz Ave

Sycamore near the freeway

Press ENTER to pause scroll

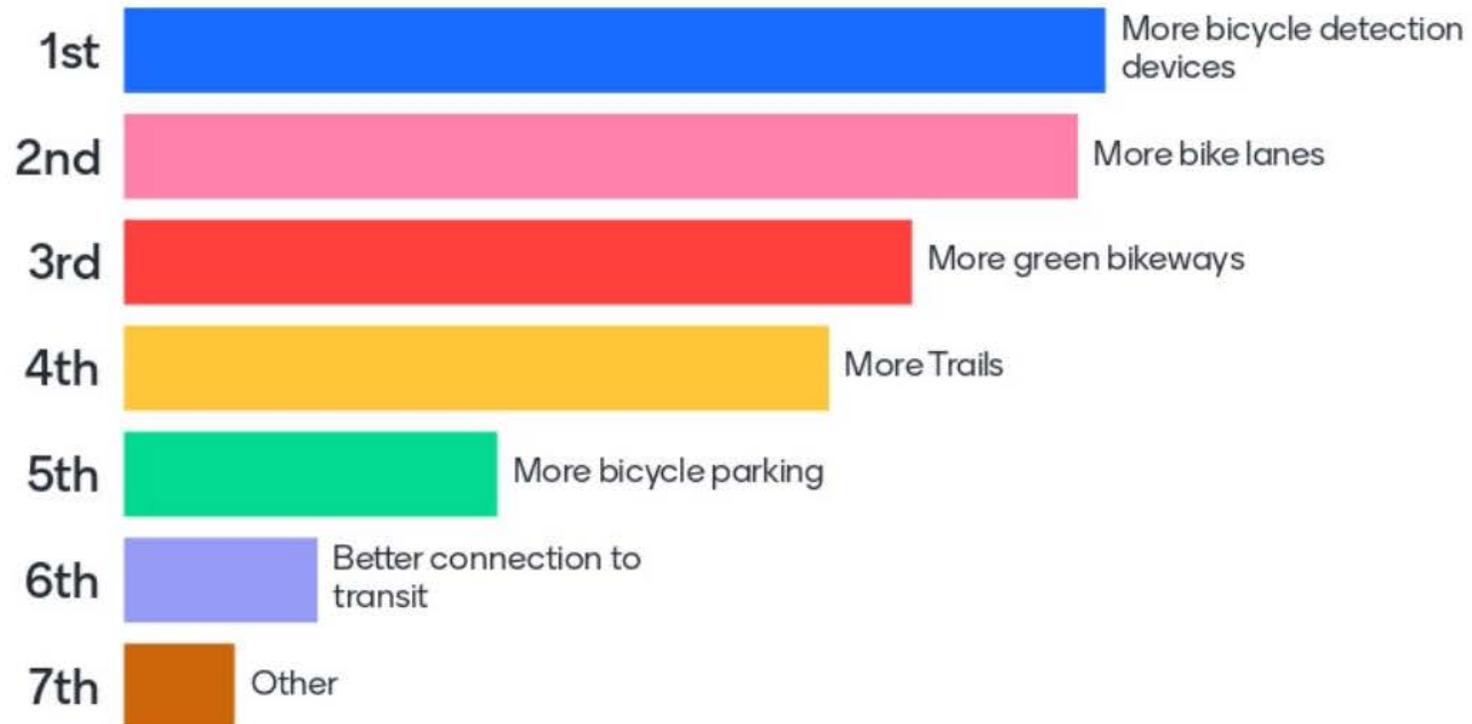
# Mentimeter Poll - *Destinations*

On a scale of 1 to 5, please rate the importance of being able to bike to the following destinations? (1 = less important, 5 = very important)



# Mentimeter Poll - *Projects*

## What types of projects are the most important to you?



# What we heard...

## Destinations (top 3)

- Downtown Danville
- Parks and Recreation
- School

## Facilities (top 3)

- Shared Use Paths
- Separated Bike Lanes
- Buffered Bike Lanes

## Challenging Roadways (top 3)

- Diablo Road
- Camino Tassajara
- Iron Horse Trail



## Challenging Intersections (top 3)

- Iron Horse Trail Crossings
- Sycamore Valley / Camino Ramon
- Hartz / Railroad



## What types of projects are important to you? (top 3)

- More Trails
- More green Bikeways
- More Bike Detection Devices



# PLAN CONTENT



# Chapter 2

## Vision

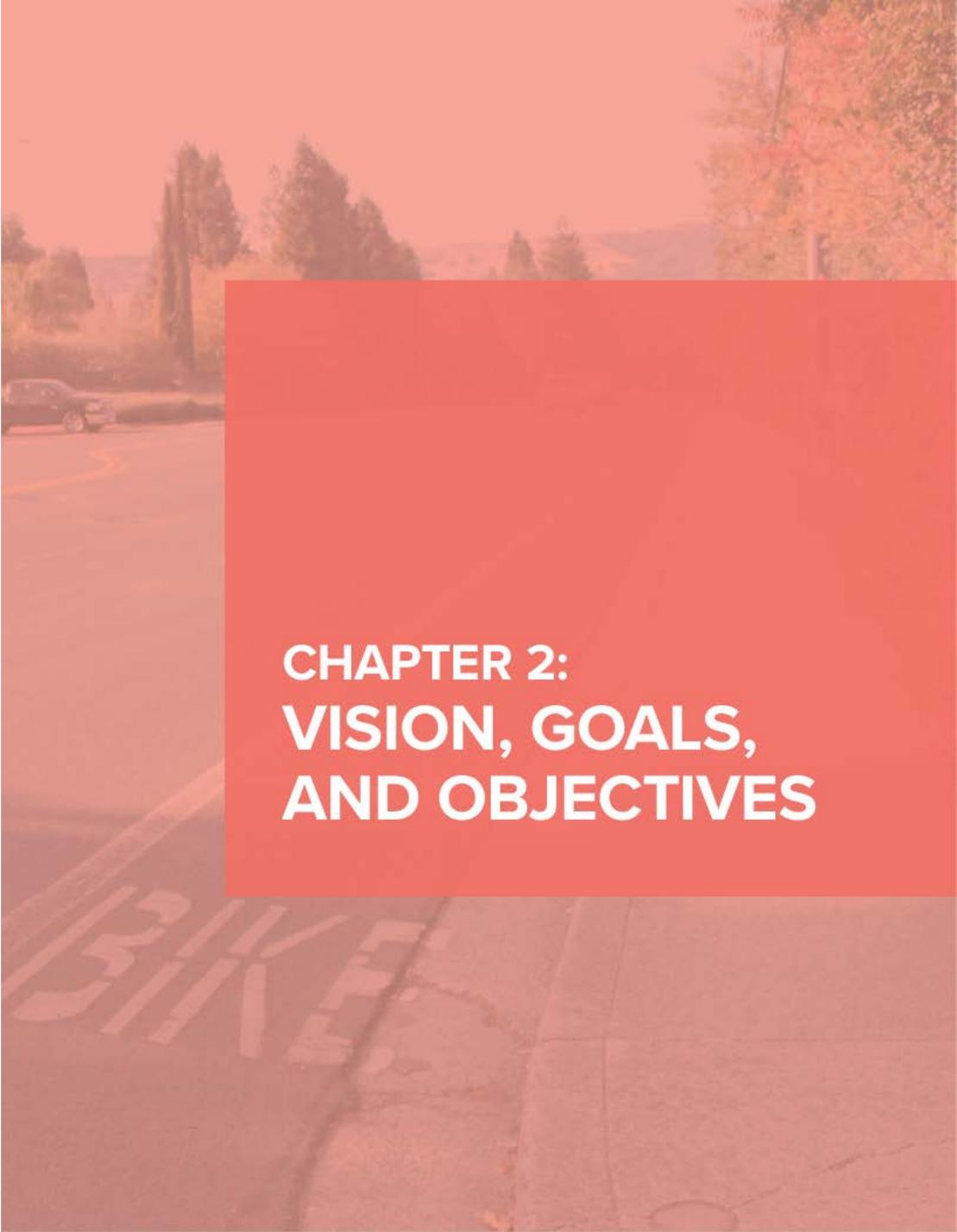
*Strive to enhance bicycling safety and mobility through well-connected facilities suitable for all users and achieved through a collaborative, community-driven process*

## Goals

- Improve Connectivity
- Enhance Safety
- Collaboration and Transparency
- Institutional – fostering a culture of bicycling in Danville

## Objectives

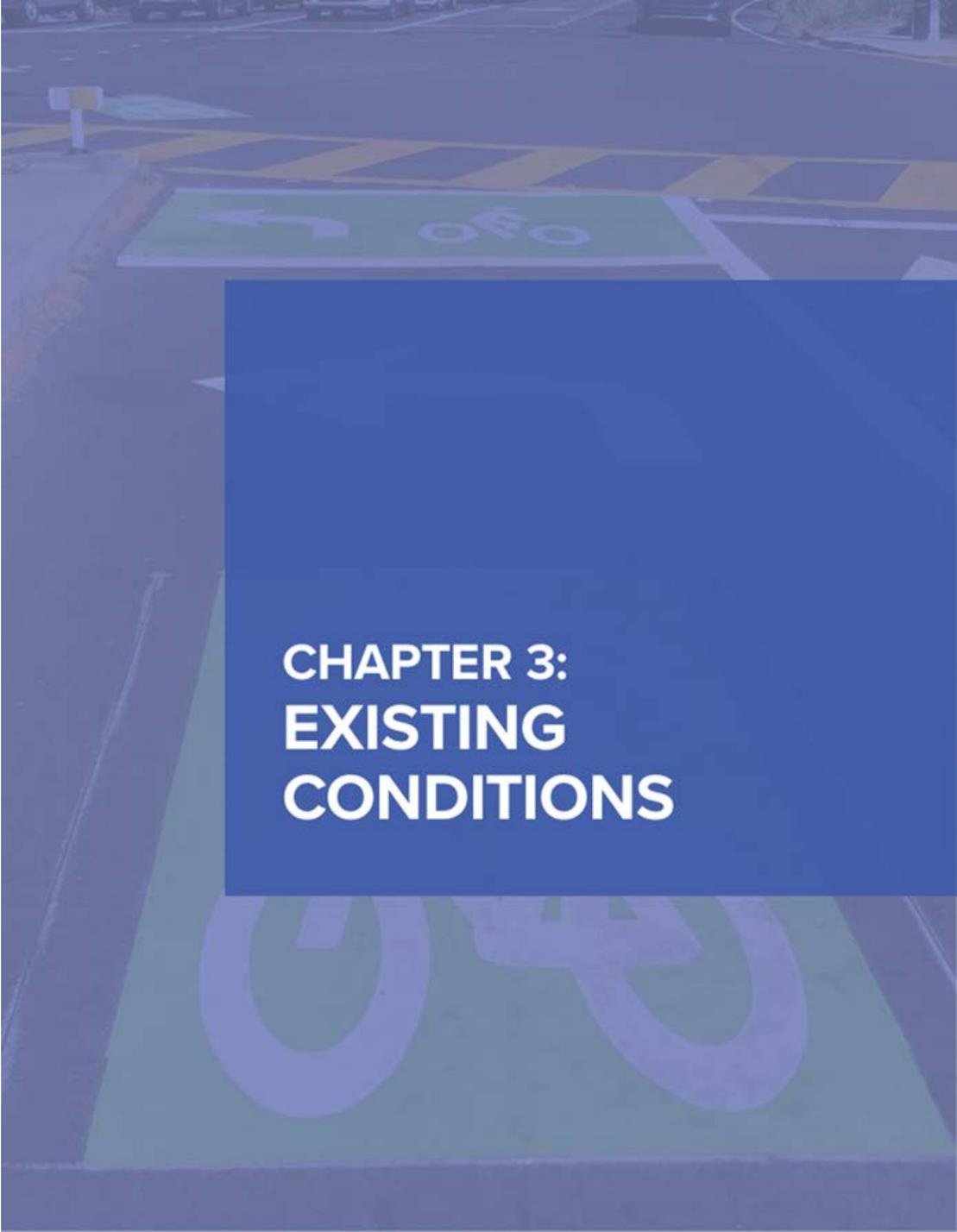
- Set and define performance measures (“PMs”)
- Identify stakeholders and responsible parties for monitoring/achieving PMs



## CHAPTER 2: VISION, GOALS, AND OBJECTIVES

# Chapter 3

- Review of Current Plans, Policies, Studies and Projects
- Identification of the Existing Bicycle and Roadway Network, Land Uses and Public Facilities
- Analysis of Danville's Demographics, Employment and Commute patterns
- Analysis of Townwide Collision History and Traffic Circulation (traffic volumes)
- Identification Strengths and Weaknesses of the Town's bicycle network

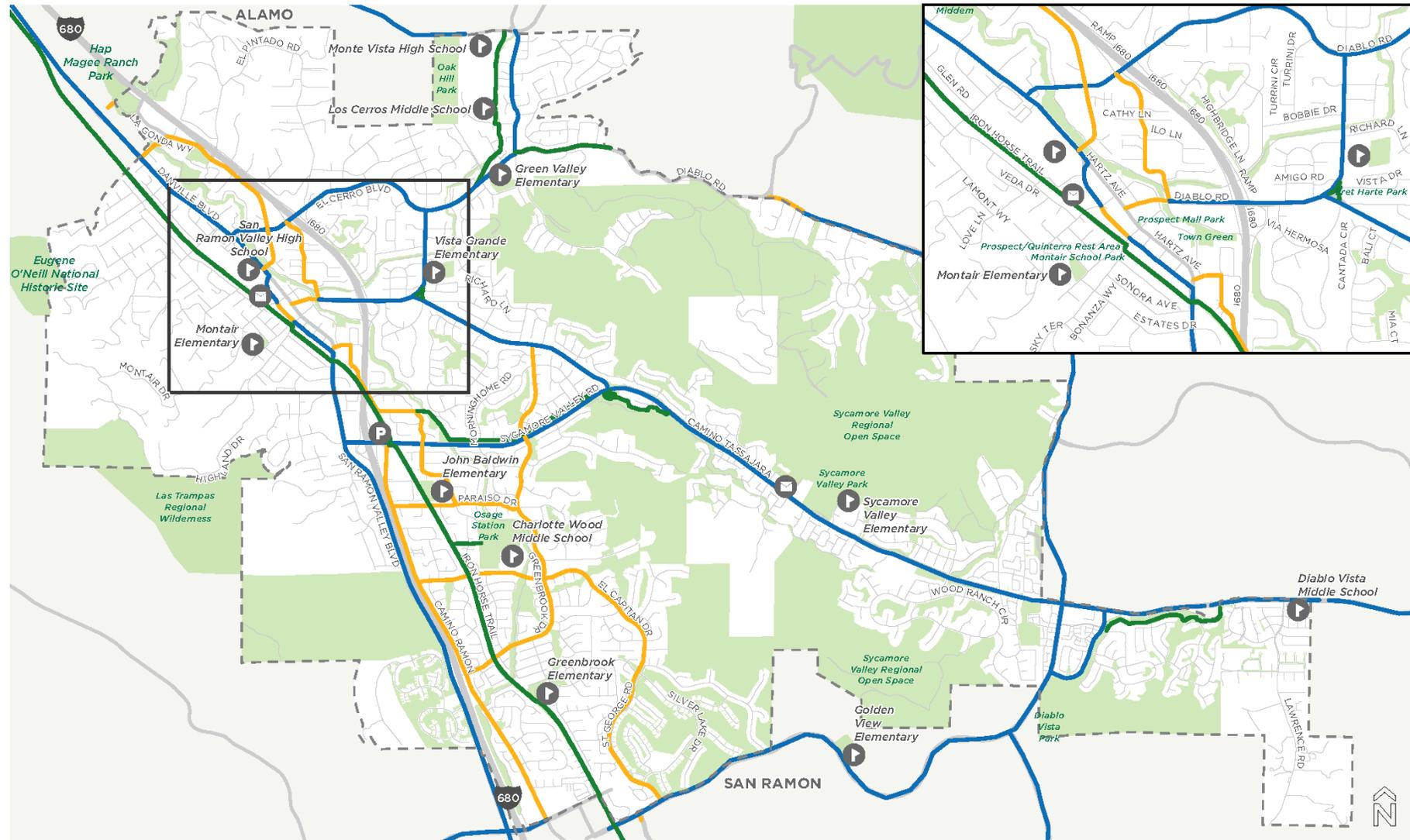


## CHAPTER 3: EXISTING CONDITIONS

# Existing Facilities

- Class I Paths  
(7.6 lane miles)
- Class II Bicycle Lanes  
(29.8 lane miles)
- Class III Bicycle Routes  
(21.5 lane miles)
- Class IV Bikeways (0)

**Total = 58.9 lane miles**



## EXISTING BIKEWAYS

DANVILLE BICYCLE MASTER PLAN

### Existing Bikeways

- Class I Shared-Use Path
- Class II Bicycle Lane
- Class III Bicycle Route

### Features

- ☐ Post Office
- ☐ School
- ☐ Park & Ride
- ☐ Parks and Open Space
- ☐ Town Boundary



Map Produced: May 2021.  
Data Sources: Town of Danville,  
Contra Costa County.

# Bicycle Facilities Toolkit

Least Separation



Most Separation



## CLASS III: SIGNED BIKE ROUTE

Provides for shared use with motor vehicle traffic. Treatments include signs and pavement markings.



## CLASS II: BIKE LANE

A striped lane for one-way bike travel on a street. Green treatments are typically reserved for conflict areas.



## CLASS I: SHARED-USE PATH

A completely separated right of way for the exclusive use of bicycles and pedestrians with minimized interactions with motor vehicles.



## CLASS IIIB: BIKE BOULEVARD

Streets with low traffic volumes and speeds, designated and designed to give bicycle travel priority.



## CLASS IIB: BUFFERED BIKE LANE

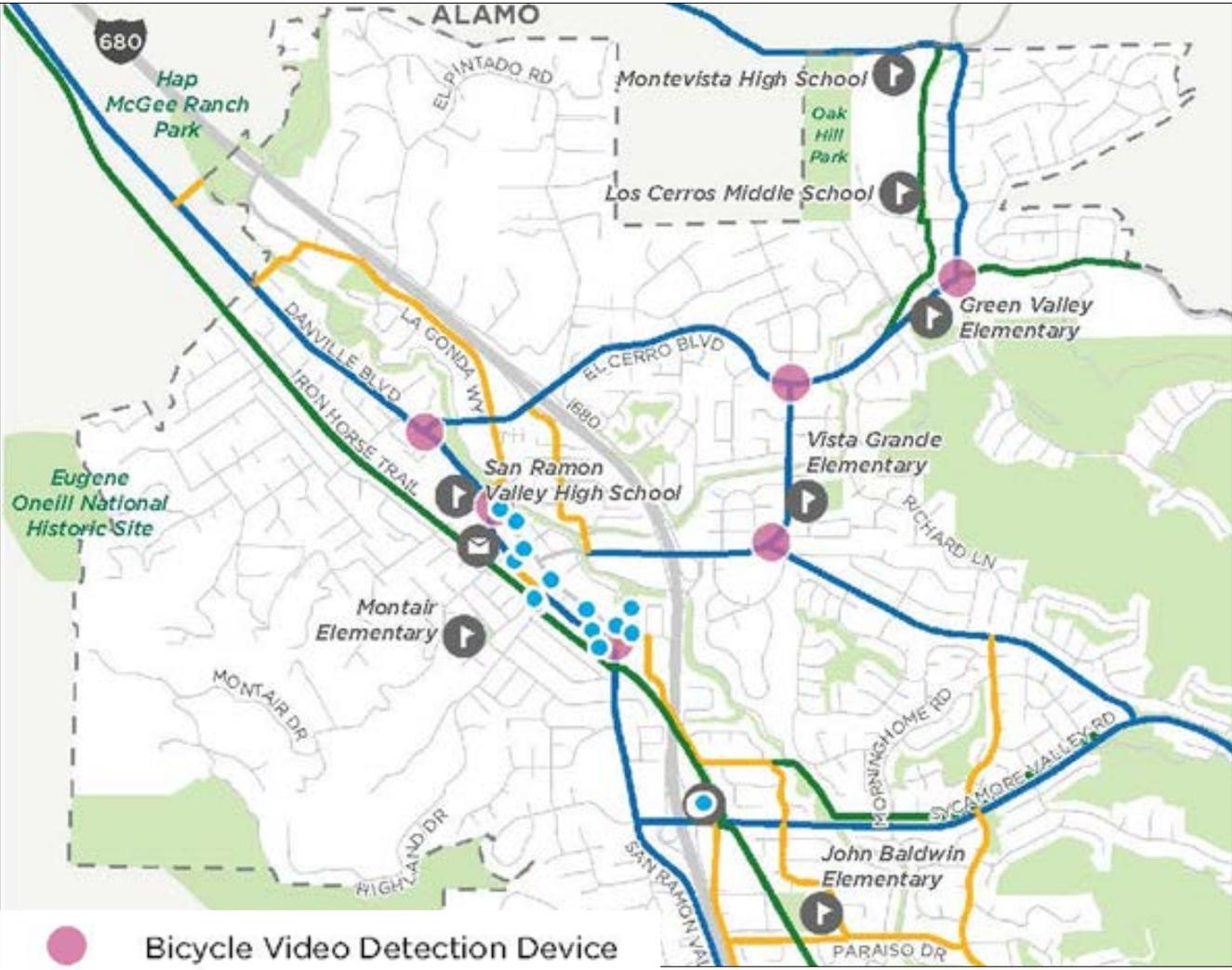
A conventional bike lane paired with a buffer space separates the bike lane from adjacent travel lane and/or parking lane.



## CLASS IV: SEPARATED BIKE LANE

An on-street bike lane that is separated from traffic by a vertical barrier, such as a curb, median, or bollards. Separated bike lanes, also known as cycle tracks, can be designed for one-way or two-way travel.

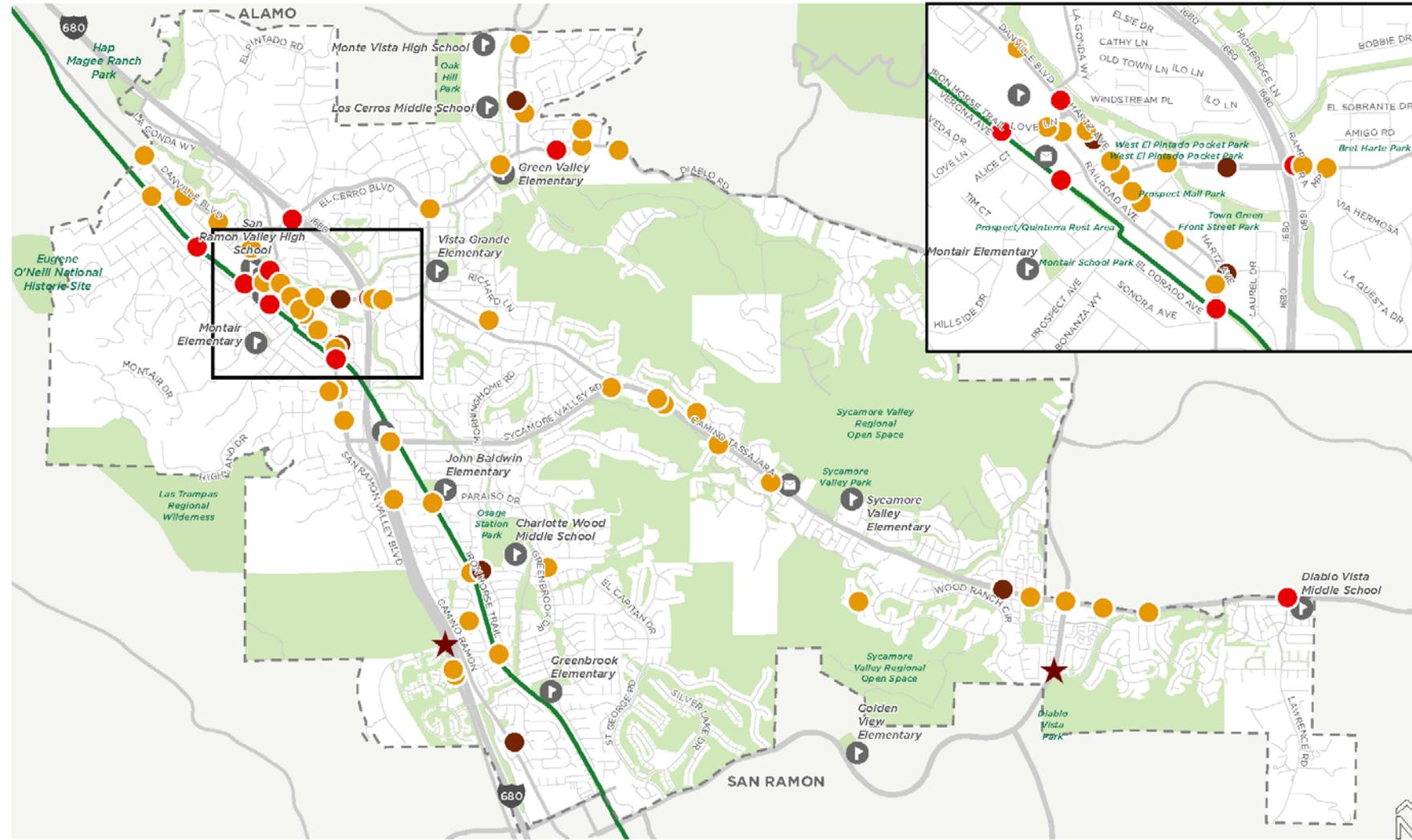
# Bicycle Detection Infrastructure



# Collision Analysis

Top 5 intersections with High Collision incidence

Rank	Intersection	Total Collisions <sup>16</sup>
1	San Ramon Valley Blvd/ Iron Horse Trail	4
	Sycamore Valley Rd/ Camino Ramon	4
2	Danville Blvd/ El Portal	3
	Greenbrook Dr/ Iron Horse Trail	3
	Hartz Ave/ Linda Mesa Ave	3



## BICYCLE COLLISIONS

### DANVILLE BICYCLE MASTER PLAN

#### Collisions by Severity (Jan 2015 - Mar 2021)

- Minor Injury/Complaint of Pain (63)
- Property Damage Only (11)
- Severe Injury (10)
- ★ Fatality (2)

#### Features

- Post Office
- School
- Park & Ride
- Iron Horse Trail
- Parks and Open Space
- Town Boundary

0 0.25 0.5 MILES

# Chapter 4

- Recommendations for “Spot” and “Corridor” Bicycle Facility Improvements
- Providing a Bicycle Network for all ages and abilities



## CHAPTER 4: INFRASTRUCTURE RECOMMENDATIONS

# “Spot” Improvement Examples

- Bicycle Intersection Crossings
- Bicycle Video Detection Systems
- Bike Boxes
- Protected Intersections

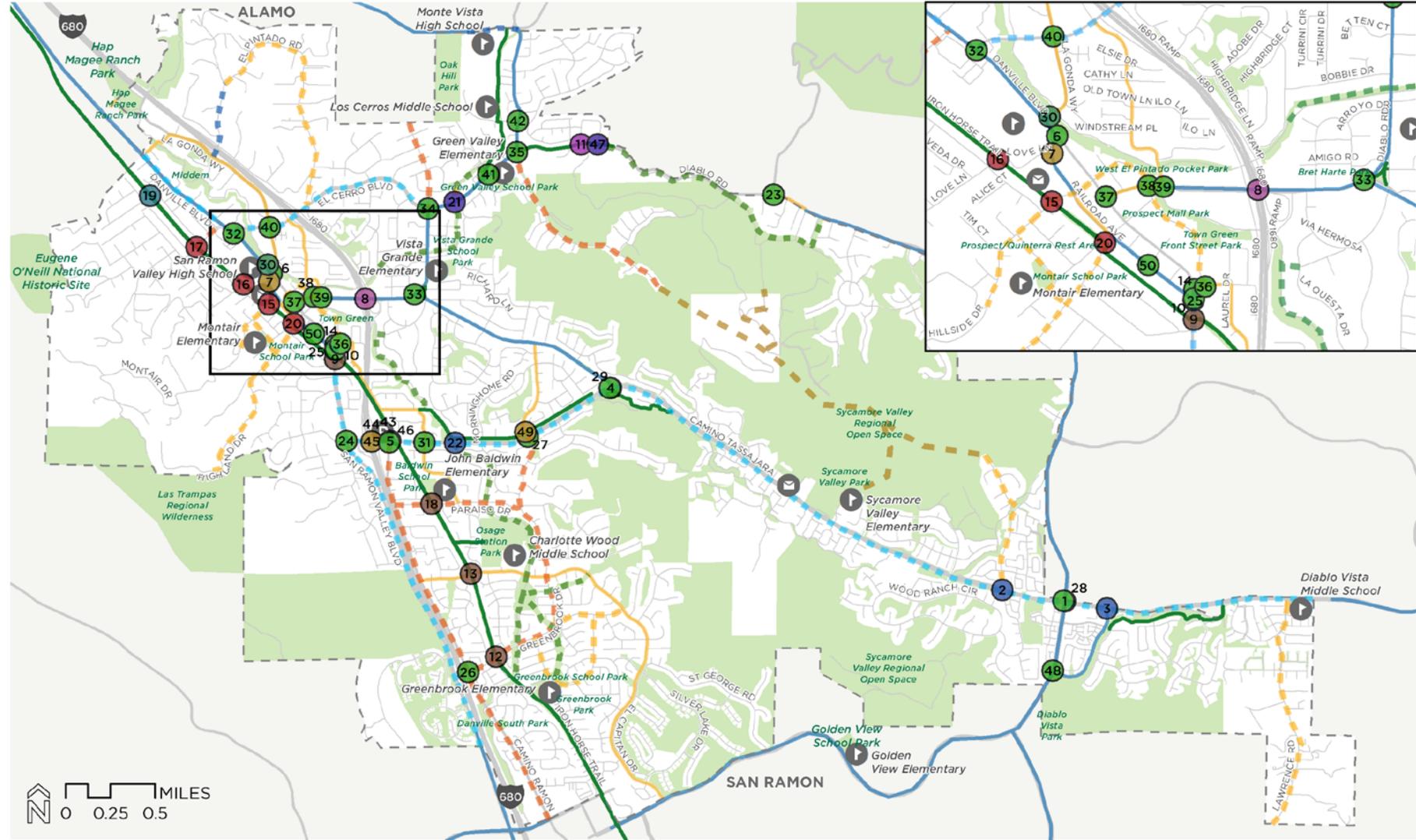


# “Spot” Improvements List

Project	Cross Street A	Cross Street B	Recommendation
1	Camino Tassajara	Crow Canyon Rd	Protected intersection
2	Camino Tassajara	Old Blackhawk Rd	Protected intersection
3	Camino Tassajara	Tassajara Ranch Rd	Protected intersection
4	Camino Tassajara	Sycamore Valley Rd	Bicycle intersection crossings
5	Sycamore Valley Rd	IHT Crossing	Bridge overcrossing
6	Hartz Ave	Railroad Ave	Bike box + Video detection device
7	Love Lane	Railroad Ave	Bicycle intersection crossings
8	Diablo Rd	I-680	Overpass under lighting
9	Iron Horse Trail	San Ramon Valley Blvd	Raised crosswalk
10	San Ramon Valley Blvd	Railroad Ave	Bike box + Video detection device
11	Diablo Rd	Clydesdale Dr	Add lighting
12	Iron Horse Trail	Greenbrook Dr	Raised crosswalk
13	Iron Horse Trail	El Capitan Dr	Raised crosswalk
14	Hartz Way	Hartz Ave	Bike box + Video detection device
15	Iron Horse Trail	Linda Mesa Ave	RRFB + High visibility crosswalk + Improve lighting
16	Iron Horse Trail	Love Ln	RRFB + High visibility crosswalk + Improve lighting
17	Iron Horse Trail	Del Amigo Rd	RRFB + High visibility crosswalk + Improve lighting
18	Iron Horse Trail	Paraiso Dr	Raised crosswalk
19	Iron Horse Trail	Hartford Rd	RRFB + High Visibility Raised Crosswalk + Improve Lighting
20	Iron Horse Trail	West Prospect Ave	RRFB + High visibility crosswalk + Improve lighting
21	Diablo Rd	New trail	PHB + High Visibility Crosswalk + Improve Lighting
22	Sycamore Valley Rd	Camino Ramon/ Iron Horse Trail	Protected intersection + bicycle intersection crossings + improve staging area
23	Blackhawk Rd	Mt. Diablo Scenic Blvd	Bike box + Video detection device
24	Sycamore Valley Road	San Ramon Valley Blvd	Bike box + Video detection device
25	San Ramon Valley Blvd	Hartz Ave	Bike box + Video detection device

Project	Cross Street A	Cross Street B	Recommendation
26	Camino Ramon	Greenbrook Dr	Bike box + Video detection device
27	Greenbrook Dr	Sycamore Valley Rd	Bike box + Video detection device
28	Camino Tassajara	Crow Canyon Rd	Bike box + Video detection device
29	Camino Tassajara	Sycamore Valley Rd	Bike box + Video detection device
30	La Gonda Way		Bridge overcrossing
31	Sycamore Valley Rd	Brookside Dr	Bike box + Video detection device
32	Danville Blvd	El Cerro Blvd	Bike box + Video detection device
33	Diablo Rd	Camino Tassajara	Bike box + Video detection device
34	Diablo Rd	El Cerro Blvd - Ackerman Dr	Bike box + Video detection device
35	Diablo Rd	Green Valley Rd	Bike box + Video detection device
36	Front St	Hartz Ave	Bike box + Video detection device
37	Diablo Rd	Hartz Ave	Bike box + Video detection device
38	Diablo Rd	Front St	Bike box + Video detection device
39	Diablo Rd	West El Pintado	Bike box + Video detection device
40	El Cerro Blvd	La Gonda Way	Bike box + Video detection device
41	Diablo Rd	Matadera Way	Bike box + Video detection device
42	Green Valley Rd	Blemer Rd /Cameo Drive	Bike box + Video detection device
43	Park & Ride	Sycamore Valley Rd	Bike Parking
44	Park & Ride	Iron Horse Trail	Iron Horse Trail connections
45	Sycamore Valley Rd	I-680 On/Off Ramps	Bicycle intersection crossings
46	Sycamore Valley Rd	Camino Ramon	Bike box + Video detection device
47	Diablo Road	Fairway Dr	PHB + High Visibility Crosswalk + Improve Lighting
48	Crow Canyon Rd	Tassajara Ranch Dr	Bike box + Video detection device
49	Old Orchard Dr	Freitas Trail	Bicycle intersection crossings
50	Railroad Ave	Church St	Bike box + Video detection device

# “Spot” Improvement Locations



## PROPOSED IMPROVEMENTS

### DANVILLE BICYCLE MASTER PLAN

Map Produced: May 2021.  
Data Sources:  
Town of Danville,  
Contra Costa County.



### Proposed Spot Improvements

- RRFB + High Visibility Raised Crosswalk + Improve Lighting
- RRFB + High visibility crosswalk + Improve lighting
- PHB + High Visibility Crosswalk + Improve Lighting
- Bike box + Video detection device
- Bicycle intersection crossings
- Overpass under lighting
- Protected intersection
- Bridge overcrossing
- Raised crosswalk
- Bike parking
- Add lighting

### Existing Bikeways

- Class I Shared-Use Path
- Class II Bicycle Lane
- Class III Bicycle Route

### Proposed Bikeways

- Class I - Shared-Use Path
- Class II - Bicycle Lanes
- Class IIB - Buffered Bicycle Lanes
- Class III - Bicycle Route (w/ Sharrows)
- Class IIIB - Bicycle Boulevard (w/ GB Sharrows)
- Unpaved Trail

### Features

- Ⓜ Post Office
- Ⓝ School
- Ⓟ Park & Ride

# “Corridor” Improvement Examples



**Class I: Shared-use Path**  
Ex: Iron Horse Trail



**Class III: Bicycle Routes (w Sharrows)**  
Ex: El Capitan Drive



**Class II: Bicycle Lane**  
Ex: Camino Tassajara



**Class IIB: Buffered Bike Lane**  
Ex: Danville Road



**Class IIIB: Bicycle Boulevard (w Green-back Sharrows)**  
Ex: Del Amigo Road

# “Corridor” Improvements List (1 of 2)

ID	Street	Start	End	Existing Facility	Proposed Facility	Description
1	Camino Tassajara	Sycamore Valley Rd	Hansen Ln	Class II	Class IIB	Buffered Bicycle Lanes
2	Sycamore Valley Rd	San Ramon Valley Blvd	Camino Tassajara	Class II	Class IIB	Buffered Bicycle Lanes
3	San Ramon Valley Blvd	Podva Rd	Jewel Terrace	Class II	Class IIB	Buffered Bicycle Lanes w/HV Green Pavement Markings
4	Diablo Rd Trail	Fairway Dr	Mt Diablo Scenic Blvd / Avenida Nueva	None	Class I	Paved Shared-Use Path
5	San Ramon Valley Blvd	Hartz Way	Sycamore Valley Rd	Class II	Class IIB	Buffered Bicycle Lanes w/HV Green Pavement Markings
6	Green Valley Trail	Highbridge Ln	Diablo Rd	None	Class I	Paved Shared-Use Path
7	Camino Ramon	Sycamore Valley Rd	Fostoria Way	Class III	Class IIIB	Sharrow Pavement Markings (HV Green)
8	El Cerro Blvd	Darville Blvd	Diablo Rd	Class II	Class IIB	Buffered Bicycle Lanes
9	Del Amigo Rd	Iron Horse Trail	Darville Blvd	None	Class IIIB	Sharrow Pavement Markings (HV Green)
10	Greenbrook Dr	Camino Ramon	Sycamore Valley Rd	Class III	Class IIIB	Sharrow Pavement Markings (HV Green)
11	Prospect Ave - Front St	Iron Horse Trail	Hartz Ave	None	Class III	Sharrow Pavement Markings
12	El Pintado Rd	La Gonda Way	El Alamo	None	Class II	Bicycle Lanes
13	El Pintado Rd	El Alamo	El Cerro Blvd	None	Class III	Sharrow Pavement Markings
14	Ackerman Dr	El Cerro Blvd	End	None	Class IIIB	Sharrow Pavement Markings (HV Green)
15	Short Ridge Trail (unpaved)	SV Regional Open Space		Unpaved trail	Unpaved Trail	Improve Unpaved Shared-use Trail
16	Shady Slope Trail (unpaved)	Sycamore Valley Park	SV Regional Open Space	Unpaved trail	Unpaved Trail	Improve Unpaved Shared-use Trail
17	Laurelwood Dr	Short Ridge Trail	Old Blackhawk Rd	None	Class III	Sharrow Pavement Markings
18	Old Blackhawk Rd	Laurelwood Dr	Camino Tassajara	None	Class III	Sharrow Pavement Markings
19	McCauley Rd	Diablo Rd	Short Ridge Trail	None	Class IIIB	Sharrow Pavement Markings (HV Green)
20	Lawrence Rd	Shelterwood Ln	Trail entrance	None	Class III	Sharrow Pavement Markings
21	Lawrence Rd	Camino Tassajara	Shelterwood Ln	None	Class III	Sharrow Pavement Markings

# “Corridor” Improvements List (2 of 2)

ID	Street	Start	End	Existing Facility	Proposed Facility	Description
22	Prospect Ave	Railroad Ave	Sky Ter	None	Class III	Sharrow Pavement Markings
23	Highland Rd	Prospect Ave	Trailhead	None	Class III	Sharrow Pavement Markings
24	Linda Mesa Ave	Iron Horse Trail	Macomber Rd	None	Class III	Sharrow Pavement Markings
25	Estates Dr	Linda Mesa Ave	Prospect Ave	None	Class III	Sharrow Pavement Markings
26	Harlan Dr	Greenbrook Dr	St. Christopher Dr	None	Class III	Sharrow Pavement Markings
27	St. Christopher Dr	El Capitan Dr	Greenbrook Dr	None	Class III	Sharrow Pavement Markings
28	Cow Creek	Greenbrook Dr	Harlan Dr	Class I	Class I	Paved Shared-Use Path (widened)
29	Cow Creek	El Capitan Dr	Greenbrook Dr	Class I	Class I	Paved Shared-Use Path (widened)
30	Greenbelt Path	El Capitan Dr	Greenbrook Dr	Class I	Class I	Paved Shared-Use Path (widened)
31	Greenbelt Path	Greenbrook Drive	Van Patten Dr	Class I	Class I	Paved Shared-Use Path (widened)
32	Greenbelt Path	Greenbrook HOA Greenbelt		Class I	Class I	Paved Shared-Use Path (widened)
33	Greenbelt Path	Greenbrook HOA Greenbelt	Iron Horse Trail	Class I	Class I	Paved Shared-Use Path (widened)
34	New Trail	Matadera Way	Dustin Ln	None	Class I	Paved Shared-Use Path
35	New Trail	Diablo Rd	Diablo Rd	None	Class I	Paved Shared-Use Path
36	Dustin Ln	Diablo Rd	New Trail	None	Class III	Sharrow Pavement Markings
37	New Trail	El Capitan Dr	Sycamore Valley Rd	None	Class I	Paved Shared-Use Path
38	New Trail	Diablo Rd (Alexan Riverwalk)	Freitas Trail	None	Class I	Paved Shared-Use Path
39	New Trail (unpaved)	Magee Preserve	SV Regional Open Space	Unpaved trail	Unpaved Trail	Unpaved Shared-Use Trail
40	New Trail	Diablo Rd	Blackhawk Rd	None	Class I	Paved Shared-Use Path
41	Darville Blvd	Del Amigo Rd	El Portal	Class II	Class IIB	Buffered Bicycle Lanes w/HV Green Pavement Markings
42	Stone Valley Rd	MVHS	Green Valley Rd	Class III	Class II	Bicycle Lanes
43	La Gonda Way	La Gonda Bridge	Darville Blvd	None	Class II	Bicycle Lanes
44	Paraiso Dr	Camino Ramon	Greenbrook Dr	Class III	Class IIIB	Sharrow Pavement Markings (HV Green)

# Corridor Improvement Locations

Facility	Existing (mi)	Proposed (mi)	Total (mi)
Class I Shared-Use Paths	7.6	12.8	20.4
Class II Bicycle Lanes	29.8	2.5	32.3
Class IIB Buffered Bicycle Lanes	-	17.7	17.7
Class III Bicycle Routes	21.5	18.1	39.6
Class IIIB Bicycle Boulevards	-	10.8	10.8
Unpaved Trails	-	3.3	3.3
<b>TOTAL</b>	<b>58.9</b>	<b>65.2</b>	<b>124.1</b>



## PROPOSED IMPROVEMENTS

### DANVILLE BICYCLE MASTER PLAN

#### Existing Bikeways

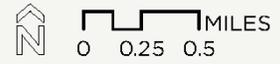
- Class I Shared-Use Path
- Class II Bicycle Lane
- Class III Bicycle Route

#### Proposed Bikeways

- Class I - Shared-Use Path
- Class II - Bicycle Lanes
- Class IIB - Buffered Bicycle Lanes
- Class III - Bicycle Route (w/Sharrows)
- Class IIIB - Bicycle Boulevard (w/GB Sharrows)
- Unpaved Trail

#### Features

- Post Office
- School
- Park & Ride
- Project Number
- Parks and Open Space
- Town Boundary



**alta** Map Produced: May 2021.  
Data Sources: Town of Danville, Contra Costa County.

# Chapter 5

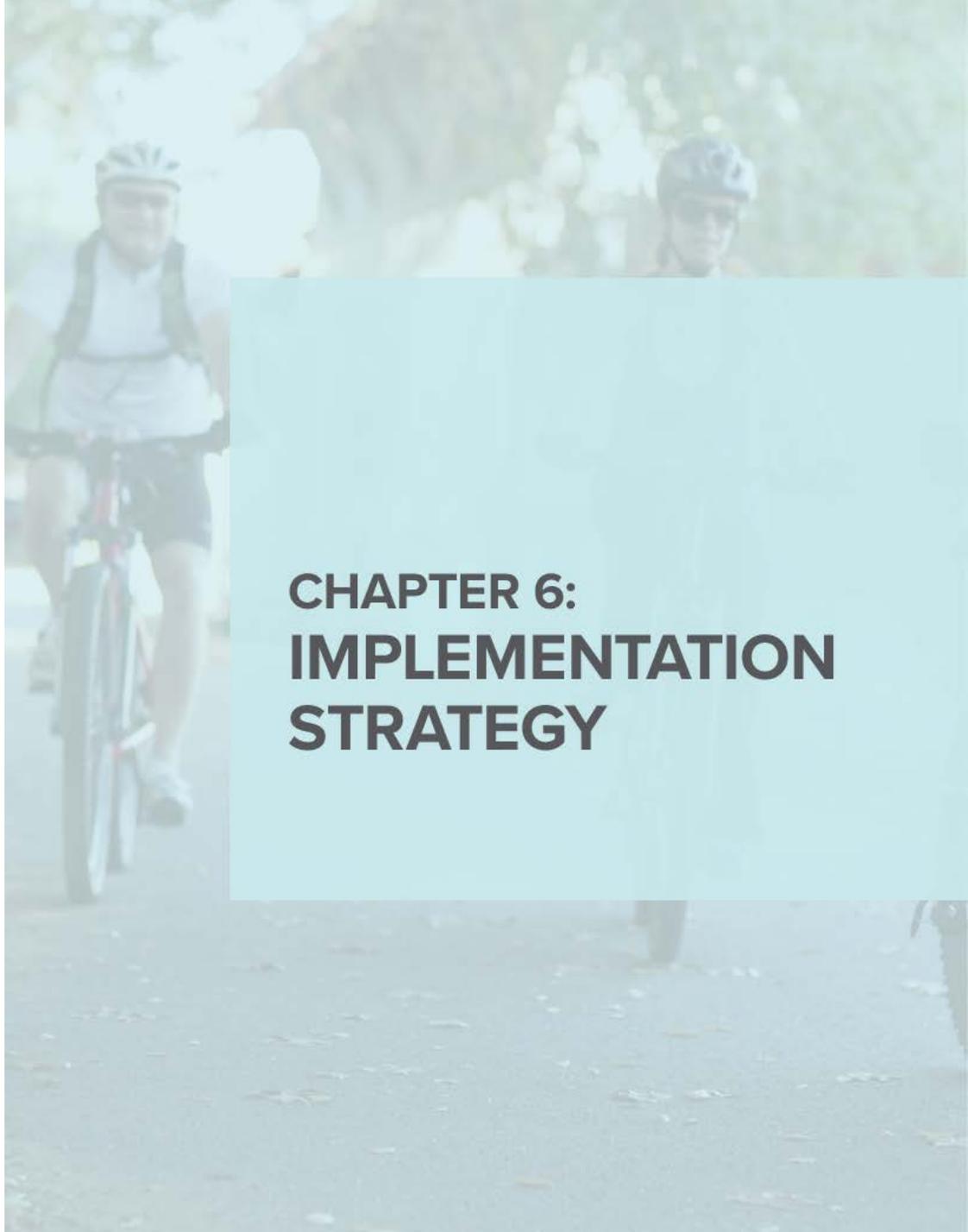
- Engineering and Infrastructure Programs
- Encouragement
- Education
- Enforcement
- Evaluation

## CHAPTER 5: PROGRAMS AND POLICY RECOMMENDATIONS

Program	Description	Plan Goals
<b>Engineering and Infrastructure</b>	Bike Share and micro-mobility, Bike Racks, End of Trip Facilities, “Quick Build” Projects, Slow/Safe Streets	Connectivity, Collaboration and Transparency, Safety, fostering bicycling culture
<b>Encouragement</b>	Bike to Work Day, Open Streets, Bicycle-friendly designation, bicycle trains to school, partnerships, wayfinding signage	Safety, Collaboration, Connectivity
<b>Education and Enforcement</b>	Map development, SRV Street Smarts, Bike Patrols, Traffic Ticket reduction programs (bicycle “traffic school”)	Collaboration, Transparency, Safety
<b>Evaluation</b>	<b><u>Establish a Town-appointed Bicycle Advisory Committee</u></b> , publish collision reports, deploy bike counters, school safety assessments.	Institutional, Safety, Collaboration & Transparency

# Chapter 6

- Project Prioritization
- Methodology
- Project Implementation
- Cost Estimates (ranges)
- Funding Opportunities

A photograph of two cyclists riding on a paved path. The cyclist in the foreground is wearing a white shirt, dark shorts, and a white helmet. The cyclist in the background is wearing a dark shirt and a dark helmet. The background is slightly blurred, showing trees and a clear sky.

## CHAPTER 6: IMPLEMENTATION STRATEGY

# Project Prioritization

## Prioritization Criteria

Criteria	Measure	Points
Safety	• Projects that are within 250 ft of at least one bicycle-related fatality within last 5 years	6.0
	• Projects that are within 250 ft of at least one bicycle-related severe injury collision within the last 5 years	4.0
	• Projects that are within 250 ft of at least one bicycle related collision	2.0
Connectivity to Destinations	• Projects that connect people to Downtown	2.0
	• Projects that connect people to a school (i.e., elementary, middle, high school)	2.0
	• Projects that provide direct connection to the Iron Horse Trail	2.0
Comfort (type of facility)	• Projects that are comfortable for users of all ages and abilities (ex., Class I or Class IIB)	3.0
	• Other projects (ex., Class II, Class III or Class IIIB)	1.0
Public Support	• Recommended projects that received high support (50 or more likes for corridor improvements; 30 or more likes for spot improvements; specific comments from user groups)	3.0
	• Recommended projects that received medium support (27-49 likes for corridors; 20-29 likes for spot improvements)	2.0
	• Recommended projects that received low support (1-26 likes for corridor improvements; 6-19 likes for spot improvements)	1.0
Feasibility	• Opportunity for quick implementation based on cost estimates	1.0
	• Opportunity for medium effort based on cost estimates	0.5

Table 18. Top Tier Corridor Improvements

Project ID	Location	Existing Facility	Proposed Improvement	Prioritization Score
3	San Ramon Valley Blvd	Class II	Class IIB	14.5
8	El Cerro Blvd	Class II	Class IIB	14.5
1	Camino Tassajara	Class II	Class IIB	13.0
2	Sycamore Valley Rd	Class II	Class IIB	13.0
5	San Ramon Valley Blvd	Class II	Class IIB	13.0

Table 19. Top Tier Spot Improvements

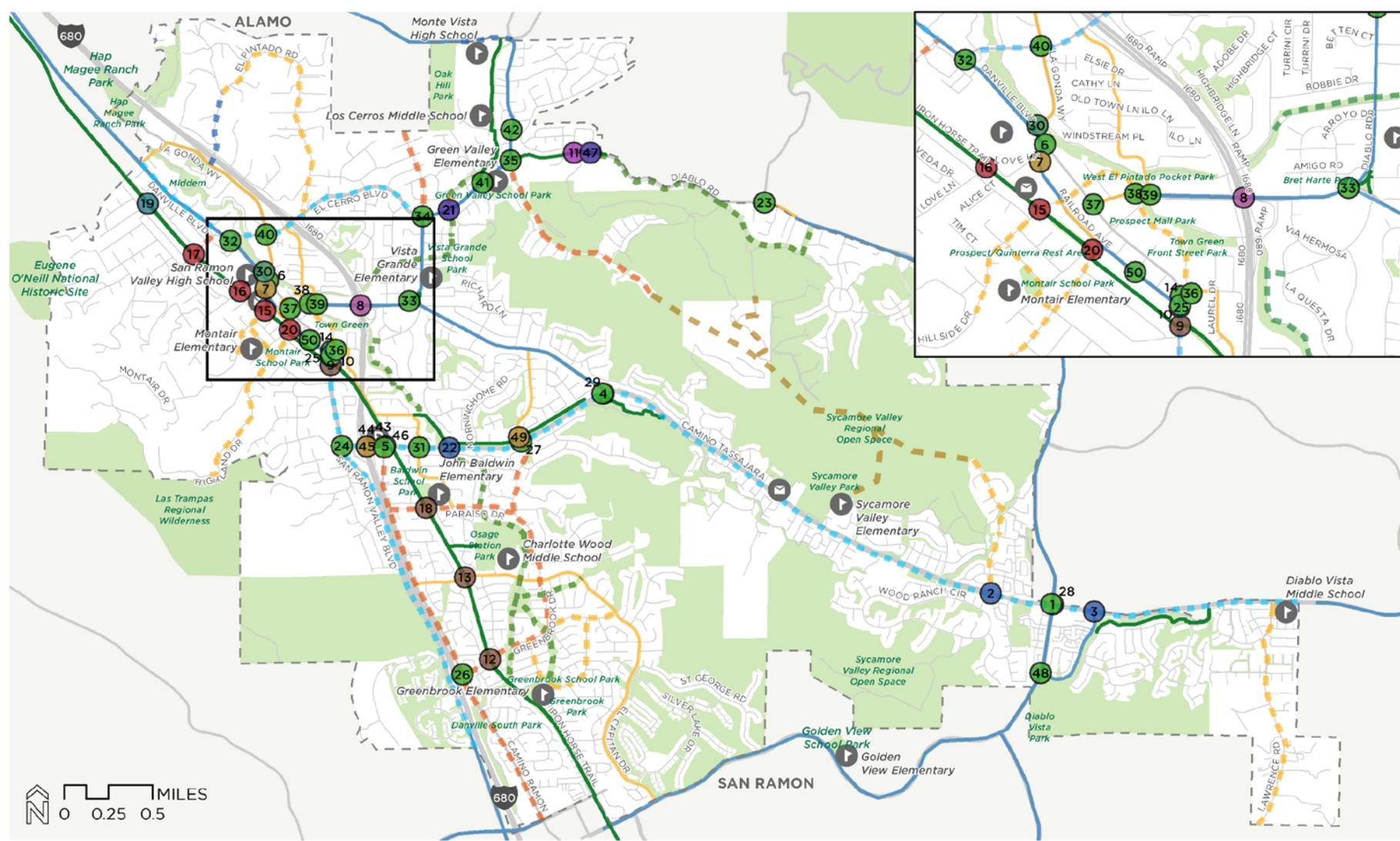
Project ID	Location	Cross Street	Proposed Improvement	Prioritization Score
16	Iron Horse Trail	Love Ln	RRFB + High visibility crosswalk + Improve lighting	13.5
29	Camino Tassajara	Crow Canyon Rd	Bike box + Video detection device	13.5
22	Sycamore Valley Rd	Camino Ramon/ IHT	Protected intersection + bicycle intersection crossings + improve staging area	12.5
5	Sycamore Valley Rd	IHT Crossing	Bridge overcrossing	12
9	Iron Horse Trail	San Ramon Valley Blvd	Raised crosswalk	12
17	Iron Horse Trail	Del Amigo Rd	RRFB + High visibility crosswalk + Improve lighting	12

# “Spot” Improvement Rankings (50)



Project	Cross Street A	Cross Street B	Recommendation	Safety	IHT Connectivity	Downtown Connectivity	Schools Connectivity	Comfort	Public Comment	Feasibility	TOTAL
16	IHT	Love Ln	RRFB + High visibility crosswalk + Improve lighting	4	2	2	2	1	2	0.5	13.5
28	Camino Tassajara	Crow Canyon Rd	Bike box + Video detection device	6	0	1	0	3	3	0.5	13.5
22	Sycamore Valley Rd	Camino Ramon/ Iron Horse Trail	Protected intersection + bicycle intersection crossings + improve staging area	4	2	2	0	1	3	0.5	12.5
5	Sycamore Valley Rd	Iron Horse Trail Crossing	Bridge overcrossing	2	2	2	0	3	3	0	12
9	Iron Horse Trail	San Ramon Valley Blvd	Raised crosswalk	2	2	2	0	3	3	0	12
17	Iron Horse Trail	Del Amigo Rd	RRFB + High visibility crosswalk + Improve lighting	4	2	2	0	1	2.5	0.5	12
19	Iron Horse Trail	Hartford Rd	RRFB + High Visibility Raised Crosswalk + Improve Lighting	4	2	2	0	1	2	0.5	11.5
32	Danville Blvd	El Cerro Blvd	Bike box + Video detection device	2	0	2	2	3	2	0.5	11.5
46	Sycamore Valley Rd	Camino Ramon	Bike box + Video detection device	4	2	2	0	1	2	0.5	11.5
1	Camino Tassajara	Crow Canyon Rd	Protected intersection	4	0	1	0	3	3	0	11
10	San Ramon Valley Blvd	Railroad Ave	Bike box + Video detection device	2	2	2	0	3	1.5	0.5	11
47	Diablo Road	Fairway Dr	PHB + High Visibility Crosswalk + Improve Lighting	4	2	0	0	2	3	0	11
6	Hartz Ave	Railroad Ave	Bike box + Video detection device	4	0	2	2	1	1	0.5	10.5
18	Iron Horse Trail	Paraiso Dr	Raised crosswalk	2	2	0	2	1	3	0.5	10.5
7	Love Lane	Railroad Ave	Bicycle intersection crossings	2	0	2	2	1	2	1	10

# “Spot” Improvement Locations



## PROPOSED IMPROVEMENTS

### DANVILLE BICYCLE MASTER PLAN

Map Produced: May 2021.  
Data Sources:  
Town of Danville,  
Contra Costa County.



### Proposed Spot Improvements

- RRFB + High Visibility Raised Crosswalk + Improve Lighting
- PHB + High Visibility Crosswalk + Improve Lighting
- Bike box + Video detection device
- Bicycle intersection crossings
- Overpass under lighting
- Protected intersection
- Bridge overcrossing
- Raised crosswalk
- Bike parking
- Add lighting

### Existing Bikeways

- Class I Shared-Use Path
- Class II Bicycle Lane
- Class III Bicycle Route

### Proposed Bikeways

- Class I - Shared-Use Path
- Class II - Bicycle Lanes
- Class IIB - Buffered Bicycle Lanes
- Class III - Bicycle Route (w/ Sharrows)
- Class IIIB - Bicycle Boulevard (w/ GB Sharrows)
- Unpaved Trail

### Features

- Ⓜ Post Office
- 🏫 School
- P Park & Ride

# Corridor Improvement Rankings (44)



Project	Street	Start	End	Existing Facility	Recommended Facility	Safety	IHT Connectivity	Downtown Connectivity	Schools Connectivity	Comfort	Public Comment	Feasibility	TOTAL
3	San Ramon Valley Blvd	Podva Rd	Jewel Ter	Class II	Class IIB - Buffered Bicycle Lanes	6	0	2	0	3	3	0.5	14.5
8	El Cerro Blvd	Danville Blvd	Diablo Rd	Class II	Class IIB - Buffered Bicycle Lanes	4	0	2	2	3	3	0.5	14.5
1	Camino Tassajara	Sycamore Valley Rd	Hansen Ln	Class II	Class IIB - Buffered Bicycle Lanes	2	0	2	2	3	3	1	13
2	Sycamore Valley Rd	San Ramon Valley Blvd	Camino Tassajara	Class II	Class IIB - Buffered Bicycle Lanes	2	2	2	0	3	3	1	13
5	San Ramon Valley Blvd	Hartz Way	Sycamore Valley Rd	Class II	Class IIB - Buffered Bicycle Lanes	2	2	2	0	3	3	1	13
23	Highland Rd	Prospect Ave	Trailhead	None	Class III - Bicycle Route (w/ Sharrows)	6	0	2	2	1	1	1	13
10	Greenbrook Dr	Camino Ramon	Sycamore Valley Dr	Class III	Class IIIB - Bicycle Boulevard (w/ GB Sharrows)	2	2	2	2	1	3	0.5	12.5
11	Prospect Avenue-Front Street	Iron Horse Trail	Hartz Ave	None	Class III - Bicycle Route (w/ Sharrows)	2	2	2	2	1	2	1	12
7	Camino Ramon	Sycamore Valley Rd	Fostoria Way	Class III	Class IIIB - Bicycle Boulevard (w/ GB Sharrows)	2	2	2	0	1	3	1	11
9	Del Amigo Rd	Iron Horse Trail	Danville Blvd	None	Class IIIB - Bicycle Boulevard (w/ GB Sharrows)	4	2	2	0	1	1	1	11
33	Greenbelt Path	Greenbrook HOW Greenbelt	Iron Horse Trail	Class I	Class I - Shared-Use Path	0	2	2	2	3	2	0	11

# Corridor Improvement Locations

Facility	Existing (mi)	Proposed (mi)	Total (mi)
Class I Shared-Use Paths	7.6	12.8	20.4
Class II Bicycle Lanes	29.8	2.5	32.3
Class IIB Buffered Bicycle Lanes	-	17.7	17.7
Class III Bicycle Routes	21.5	18.1	39.6
Class IIIB Bicycle Boulevards	-	10.8	10.8
Unpaved Trails	-	3.3	3.3
<b>TOTAL</b>	<b>58.9</b>	<b>65.2</b>	<b>124.1</b>



## PROPOSED IMPROVEMENTS

### DANVILLE BICYCLE MASTER PLAN

#### Existing Bikeways

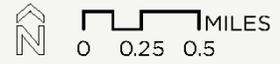
- Class I Shared-Use Path
- Class II Bicycle Lane
- Class III Bicycle Route

#### Proposed Bikeways

- Class I - Shared-Use Path
- Class II - Bicycle Lanes
- Class IIB - Buffered Bicycle Lanes
- Class III - Bicycle Route (w/Sharrows)
- Class IIIB - Bicycle Boulevard (w/GB Sharrows)
- Unpaved Trail

#### Features

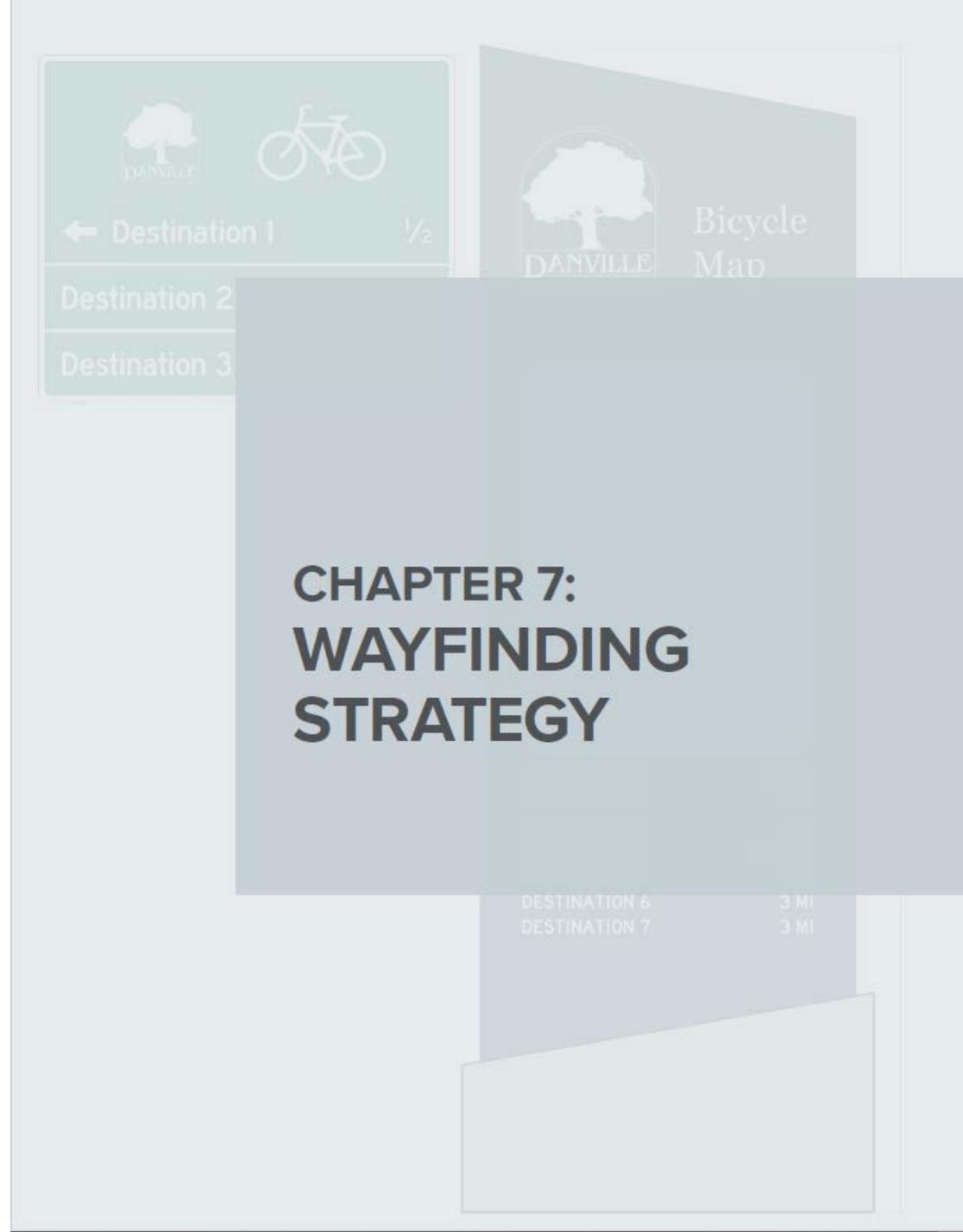
- Post Office
- School
- Park & Ride
- Project Number
- Parks and Open Space
- Town Boundary



**alta** Map Produced: May 2021.  
Data Sources: Town of Danville, Contra Costa County.

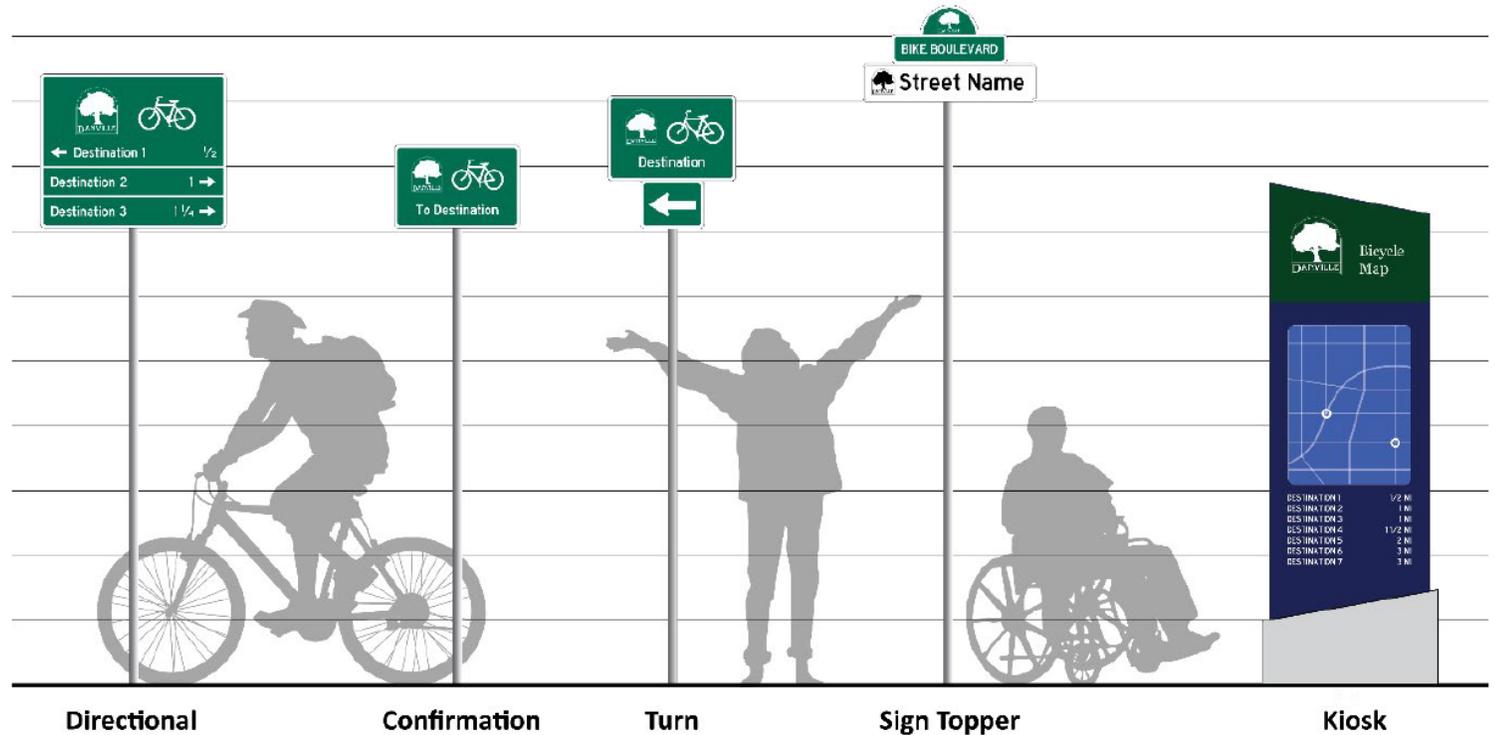
# Chapter 7

- Inform and direct cyclists to destinations
- Create need-specific signage unique to Danville
- Establish a high-quality design reflective of local character
- Strategic Placement



# Key Principles of Wayfinding

- Make Connections
- Keep Information Simple
- Keep Users Moving
- Be Predictable
- Promote Active Travel



# Proposed Tiered Destinations

TYPE	DESTINATION	ABBREVIATION
<b>TIER 1</b>		
Town of Danville	Downtown Danville	Downtown
Neighboring Jurisdictions	Alamo	Alamo
	Blackhawk	Blackhawk
	San Ramon	San Ramon
	Walnut Creek	Walnut Creek
State Parks	Mount Diablo State Park	Mt. Diablo State Park
<b>TIER 2</b>		
Trails	Iron Horse Trail	Iron Horse Trail
	Diablo Road Trail	Diablo Rd Trail
Park and Ride	Sycamore Valley Park & Ride	Sycamore Val. P&R
<b>TIER 3</b>		
Cultural/Civic Centers	Library & Community Center	Library & Community Center
	Village Theatre & Art Gallery	Village Theatre & Art Gallery
	Veterans Memorial Building & Senior Center	Veterans Memorial Building & Senior Center
	Museum of the San Ramon Valley	Museum of the SRV Valley
Local Parks	Sycamore Valley Park	Sycamore Valley Park
	Osage Park	Osage Park
	Oak Hill Park	Oak Hill Park
	Hap Magee Ranch Park	Hap Magee Ranch Park
	Diablo Vista Park	Diablo Vista Park

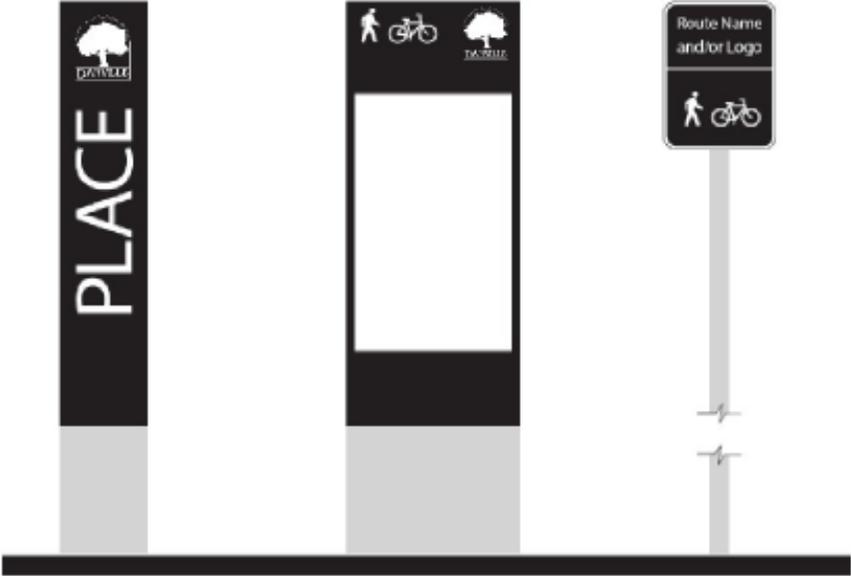


Figure 42. Generalized Access Elements

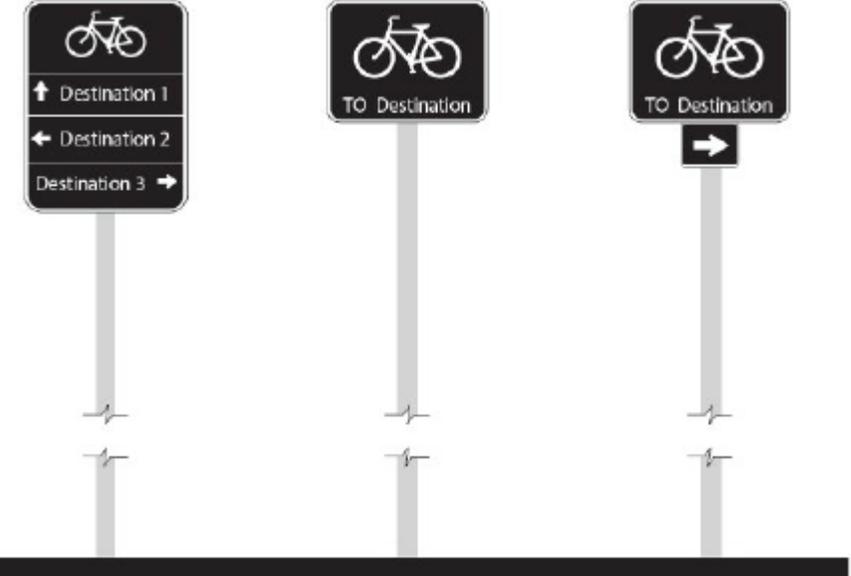


Figure 43. Generalized Fundamental Navigational Elements

# Proposed Tiered Destinations

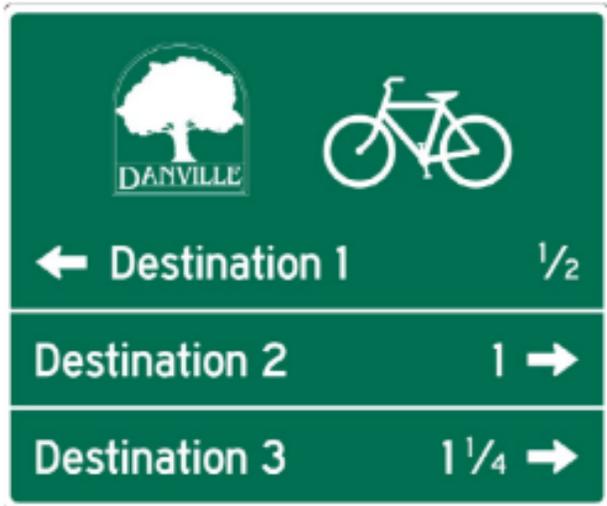
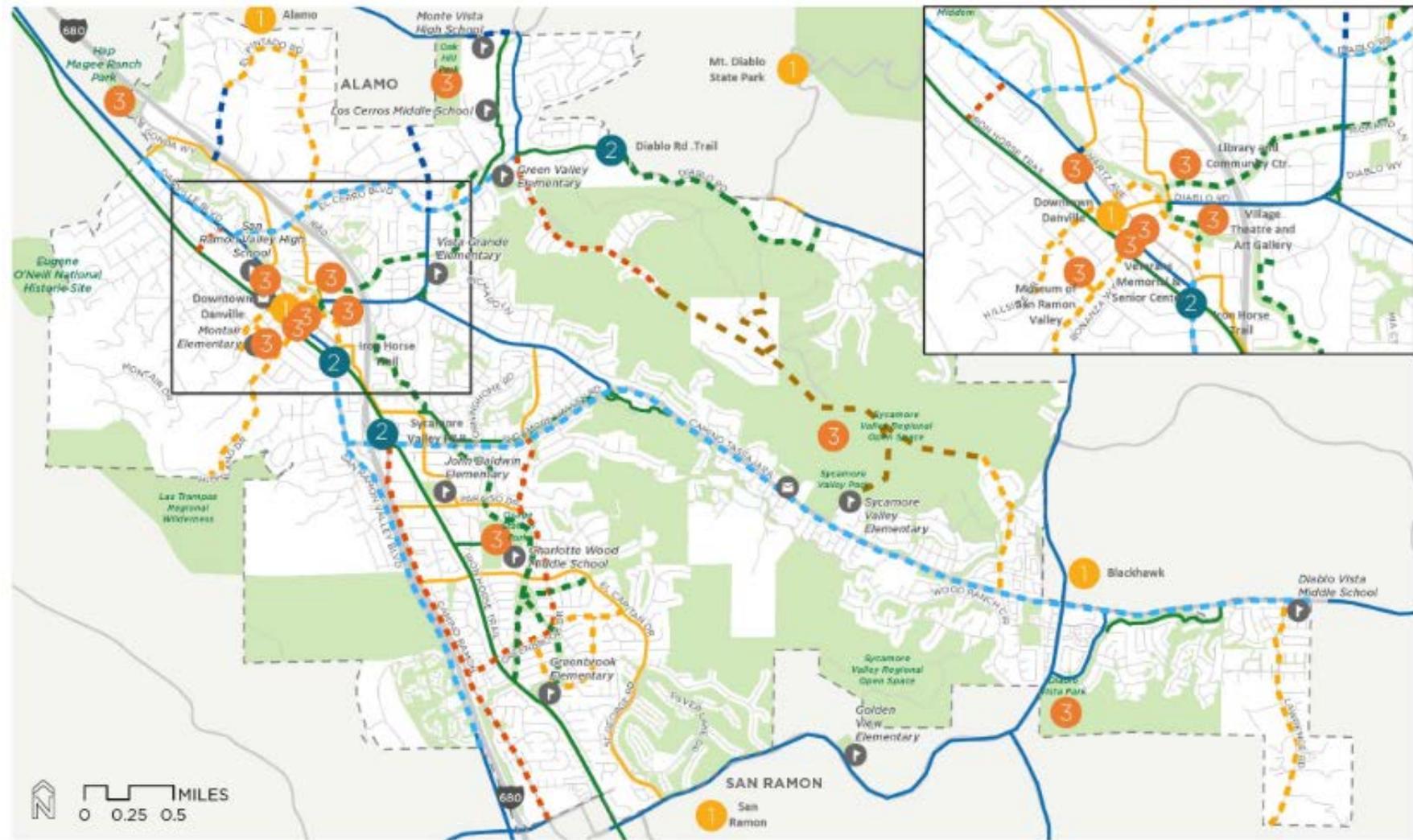


Figure O: Guidance on sign programming



## WAYFINDING DESTINATIONS

### DANVILLE BICYCLE MASTER PLAN

Map Produced: March, 2021.  
Data Sources: Town of Danville, Contra Costa County.

#### Existing Bikeways

- Class I Shared-Use Path
- Class II Bicycle Lane
- Class III Bicycle Route

#### Proposed Bikeways

- Class I - Shared-Use Path
- Class II - Bicycle Lanes
- Class IIB - Buffered Bicycle Lanes
- Class III - Bicycle Route
- Class III B - Bicycle Boulevard
- Unpaved Trail

#### Features

- Post Office
- School
- Park & Ride
- Parks and Open Space
- Town Boundary

#### Destinations

- Tier 1
- Tier 2
- Tier 3





**NEXT STEPS**

**Adoption and Implementation**

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# Near-Term Implementation Strategies

- **Complete Existing Bicycle-related Projects in CIP**
  - IHT Crossing Improvements (RRFBs, lighting, signing/striping)
  - Diablo Road Trail
  - Bicycle Detection (Signal Modernization in Downtown area)
  - Bicycle Lane buffers/HV markings/sharrows (SRVB and Camino Ramon pavement rehabilitation projects)
- **Prioritization of new projects for future CIP cycles**
  - Continue pursuit of grant funding (TDA, HSIP, etc.)
  - Develop plan and estimates for a Townwide Wayfinding project
- **Implement Policies & Programs**
  - Establish a Town-appointed Bicycle Advisory Committee
  - Launch bicycle counting stations (Downtown, IHT, etc.)
  - Publish quarterly bicycle collision and volume data
  - Develop bicycle route maps, educational (“how-to”) materials, and Danville logo swag to promote bicycle in Danville
  - Active bicycle enforcement and monitoring at high-collision locations (i.e. IHT crossings)
  - Potential launch of San Ramon Valley-wide Bike Share Pilot Program



# Schedule

June 8, 2021: Town Council Study Session – Presentation of *Draft BMP*

July 6, 2021: Town Council Adoption of *Final BMP*



*thank you!*