





# HOPE ELEMENTARY SCHOOL

Source: Carlsbad Unified School District May 6, 2024

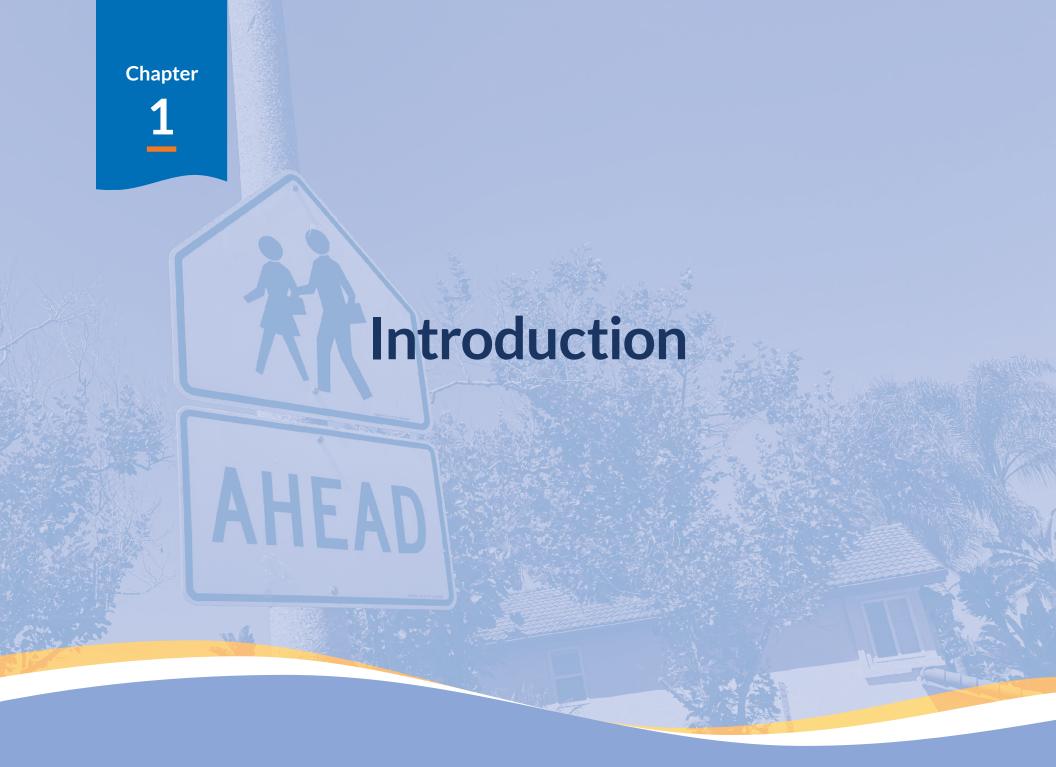
# **Table of Contents**

# **Chapter 1**

~
ntroduction
Chapter 2
<b>~</b>
mproving Safe Routes to School at Hope Elementary School
Chapter 3
~
ncouraging Safe Routes to School at Hope Elementary School 15
<b>Appendices</b>
ppendix 1: Cost Estimates
ppendix 2: Hope Elementary School Suggested Route

May 6, 2024 Item #4 Page 9 of 64

to School Map Draft .....



May 6, 2024 Item #4 Page 10 of 64

### Introduction

The City of Carlsbad (City) has a long history of supporting Safe Routes to School (SRTS) initiatives. Most recently, the City's 2021 *Sustainable Mobility Plan* identified SRTS as a key strategy to help the City improve transportation-related safety, reduce greenhouse emissions, and increase travel choices.

The Sustainable Mobility Plan development process included walk audits and mode shift analyses at all 20 Carlsbad public schools. This process identified Hope Elementary School as the first school to receive a more extensive assessment to determine implementable projects that will make walking and biking safer and more desirable travel mode choices for the school commute.

This document, the Hope Elementary School Safe Routes to School Plan, includes recommendations that are the result of reviewing walking and biking conditions; listening to concerns and opportunities from school, school district, and community stakeholders; and using professional judgment. The recommendations are broken into two categories—infrastructure and non-infrastructure. Infrastructure, also called *engineering*, refers to improvements to the physical built environment that make active modes of travel safe, convenient, and comfortable. Infrastructure is an important part of SRTS because it

pedestrian and bicycle travel conditions around schools in order to increase opportunities for students and their families to use active modes of transportation to get to and from school.

supports communities in designing and building sidewalks, paths, crosswalks, and streets that are safer for all users and more conducive for using active modes of transportation.

Non-infrastructure, also called *encouragement and education*, complements infrastructure by promoting activities that make active modes of travel to school more attractive, fun, and interesting while also teaching skills to use active modes safely.



# Improving Safe Routes to School at Hope Elementary School

May 6, 2024 Item #4 Page 12 of 64

# Improving Safe Routes to School at Hope Elementary School

The infrastructure recommendations developed for Hope Elementary School are physical design solutions that have been tailored to existing infrastructure conditions. These considerations include right-of way, road widths, intersection geometry, and crosswalk orientation. Each recommendation was drafted to include accurate measurements to confirm the feasibility and cost. Cost estimates can be found in Appendix 1.

The infrastructure recommendations outlined in this chapter address the following key concerns expressed by parents/ caregivers and school staff collected during two school walk audits and two school community workshops:

- Excessive speeding along Tamarack Avenue in front of Hope Elementary School.
- Not enough dedicated travel space for bicyclists.
- Too many vehicle and pedestrian conflict points on Tamarack Avenue caused by not enough queuing space during drop-off and pick-up.

In addition, real and perceived safety concerns exist among the school community that likely stem from the 2018 bicycle crash involving a 16-year-old at the intersection of Carlsbad Village Drive and Tamarack Avenue<sup>1</sup>



### HOPE ELEMENTARY SCHOOL

3010 Tamarack Ave., Carlsbad, CA 92010 **Student Enrollment: 597** 

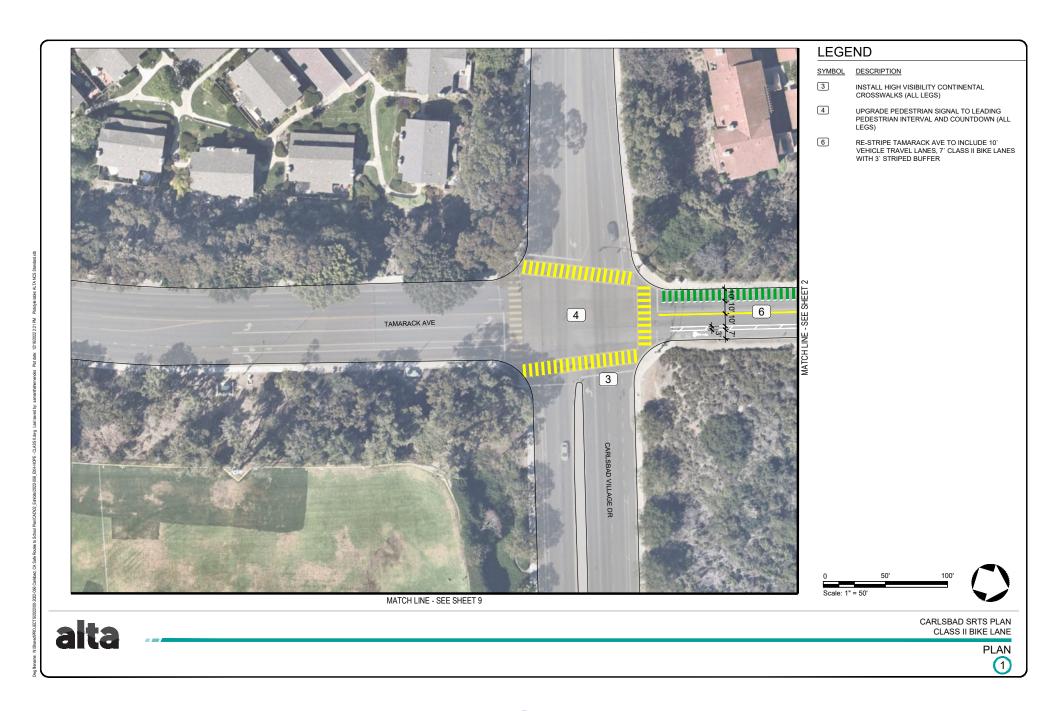
Grade Span: Kindergarten-Fifth Grade

School District: Carlsbad Unified

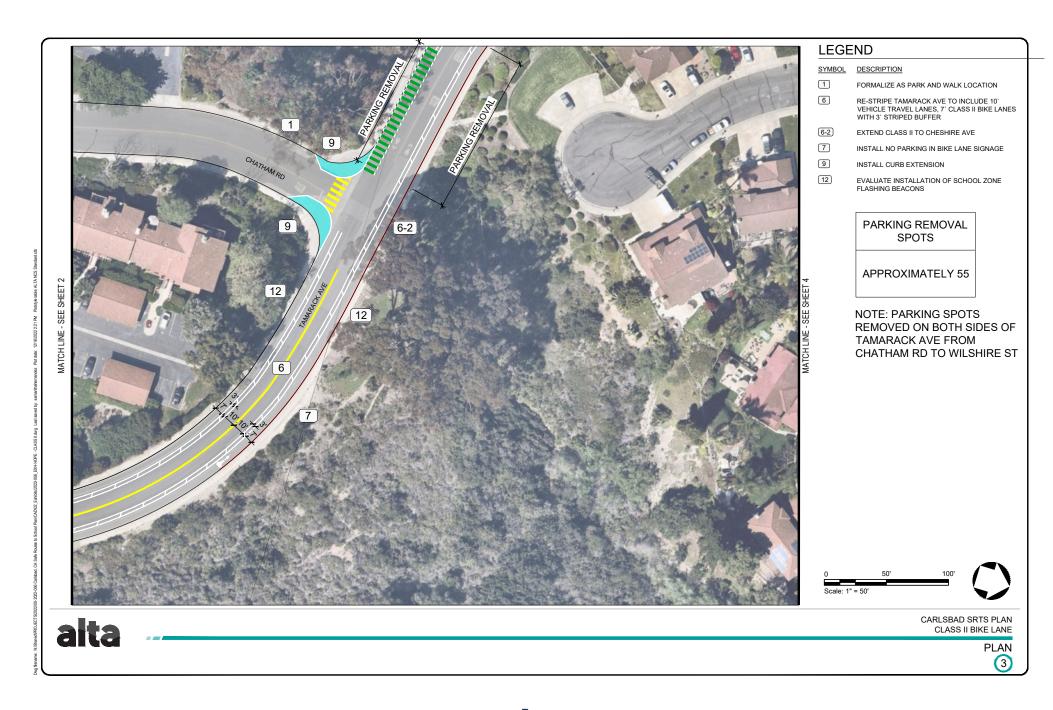
To address these key concerns, here is a highlight of some of the infrastructure recommendations that can be found on the following pages of this chapter:

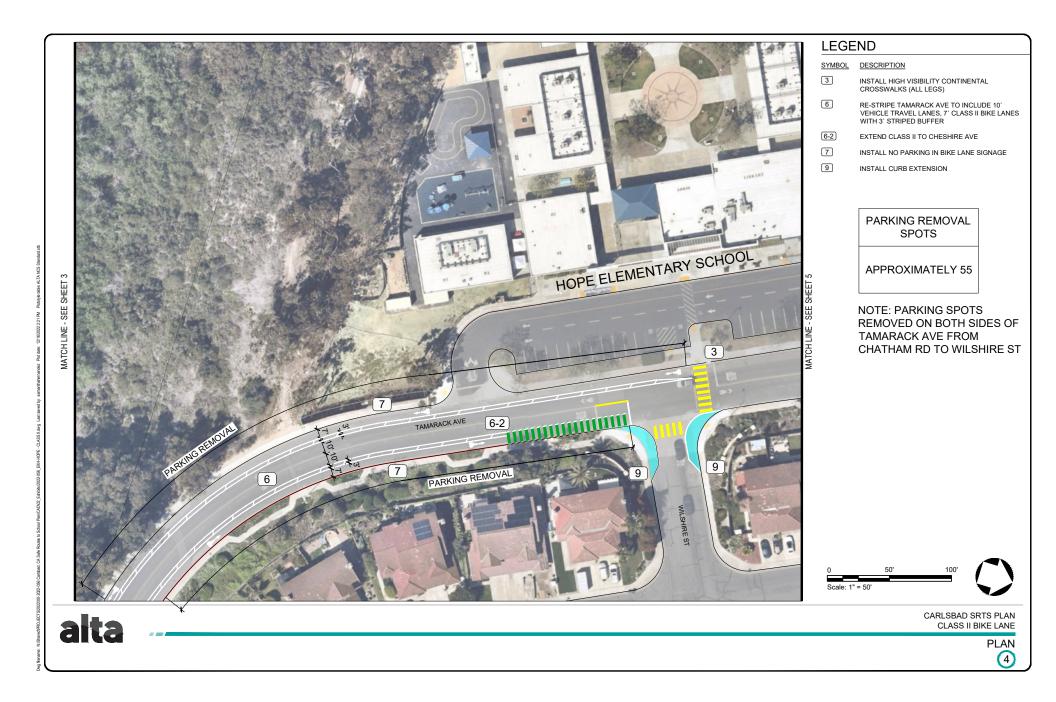
- Install school zone flashing beacons and speed feedback signage.
- Install Class II buffered bike lanes along Tamarack Avenue.
- Upgrade school crossings at the intersection of Carlsbad Village
   Drive and Tamarack Avenue to high-visibility continental
   crosswalks.

<sup>1</sup> Transportation Injury Mapping System [TIMS], Safe Transportation Research and Education Center, University of California, Berkeley. 2022. May 6, 2024









8 May 6, 2024 Item #4 Page 17 of 64



May 6, 2024 Page 18 of 64





May 6, 2024 Item #4 Page 23 of 64



# Encouraging Safe Routes to School at Hope Elementary School

May 6, 2024 Item #4 Page 24 of 64

# **Encouraging Safe Routes to School at Hope Elementary School**

Non-infrastructure strategies are an important part of a comprehensive SRTS program. While infrastructure improvements provide safer and more comfortable routes, non-infrastructure SRTS activities like traffic safety education and walking and biking promotional activities encourage students and their families to choose active modes to get to and from school. In addition, SRTS programs with non-infrastructure components build enthusiasm and support for active transportation and can

be an important first step toward implementing more costly infrastructure improvements.

This chapter outlines SRTS educational and encouragement recommendations for Hope Elementary School. These recommendations are based on school and community needs and priorities, available resources, and SRTS best practices.



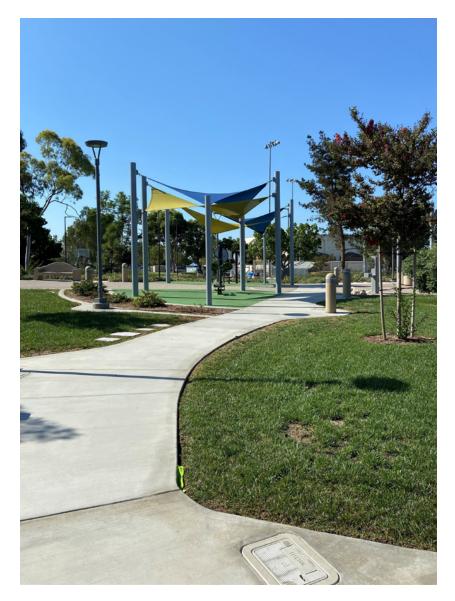
Source: Carlsbad Police Twitter

# SRTS EDUCATIONAL AND ENCOURAGEMENT RECOMMENDATIONS #1

### **PARK AND WALK**

School-promoted park and walk locations have the potential to reduce traffic congestion around a school and encourage physical activity for parents and students. The school community identifies a predetermined parking lot meeting area for families who drive and then park and walk the remaining distance to school.

Calavera Hills Community Park has the potential to serve as a park and walk location for Hope Elementary School. The park is about a 10- to 15-minute walk to and from the school. Getting more cars away from drop-off and pick-up will alleviate a tremendous amount of traffic congestion, and as more students and families use this park and walk location, the active school commute will become safer and more fun!



Calavera Hills Community Park

# SRTS EDUCATIONAL AND ENCOURAGEMENT RECOMMENDATIONS #2

### SUGGESTED ROUTE MAP

A draft suggested route map (available in Appendix 2) was created for Hope Elementary School as a part of the *Sustainable Mobility Plan*. However, there are new opportunities that warrant an update to this map:

- 1. As mentioned previously, Calavera Hills Community Park has the potential to serve as a park and walk location for Hope Elementary School. If the school community decides to adopt this location for park and walk, then it should be added to the suggested route map.
- 2. A trail on Simsbury Court to the north of Hope Elementary School connects to the Acacia at the Preserve by Cornerstone Communities. The homes in this development are within the Hope Elementary School boundary. The trail location should be added to the suggested route map so that students and families in this community learn how to access the school via active modes.

## SRTS EDUCATIONAL AND ENCOURAGEMENT RECOMMENDATIONS #3

### **CROSSING GUARDS**

Carlsbad Unified School District staffs 23 crossing guards, of which Hope Elementary School has three—located at Carlsbad Village Drive and Tamarack Avenue, Tamarack Avenue and Chatham Road, and Tamarack Avenue and Wilshire Avenue right in front of the school. To ensure these crossing guards are performing their duties properly and safely, it is important that they receive training on at least a biennial basis. Free crossing guard training resources are available through the <u>California</u> Active Transportation Resource Center.

## SRTS EDUCATIONAL AND ENCOURAGEMENT RECOMMENDATIONS #4

### **STUDENT VALET**

A student valet program could alleviate safety concerns on the Hope Elementary School campus by providing a more fluid motion of vehicular traffic in the drop-off area. Student valets are typically fifth-grade students who are stationed along the drop-off area. They wear bright safety vests holding "PULL FORWARD" signs. Drivers pull into the drop-off area and drive as far forward as directed by student valets to use the entire length of the available curb. When vehicles come to a complete stop, student valets open the passenger door to allow students to exit the vehicle and then close the vehicle door. The valets direct drivers to pull forward and exit the drop-off area.

# SRTS EDUCATIONAL AND ENCOURAGEMENT RECOMMENDATIONS #5

### PARENT AND CAREGIVER EDUCATION

Parents and caregivers are the most critical partners in making a school community safe. Regular and friendly messaging through school communication channels such as newsletters, social media, websites, and in-person events can be used to promote safe walking, bicycling, and driving behavior and encourage families to walk and bike to school.

# SRTS EDUCATIONAL AND ENCOURAGEMENT RECOMMENDATIONS #6

### **BIKE SAFETY**

The City offers free bicycle and ebike safety courses for students and their families. This incredible community resource should be promoted as appropriate with Hope Elementary School and other Carlsbad schools. In addition, Hope Elementary School students may benefit from watching this <a href="ebike safety video">ebike safety video</a> developed by the City of Oceanside, Carlsbad's neighboring city to the north.

# SRTS EDUCATIONAL AND ENCOURAGEMENT RECOMMENDATIONS #7

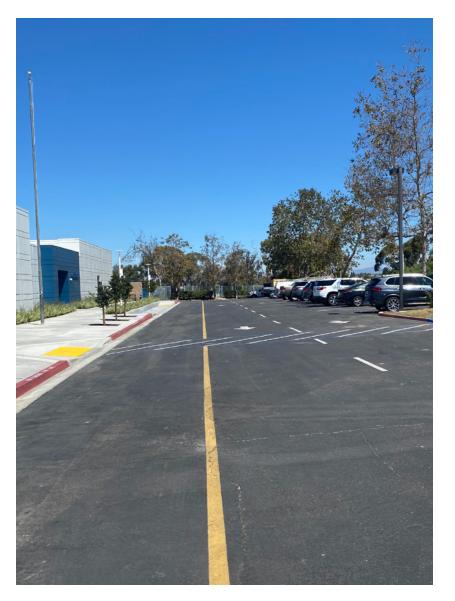


Bike racks at Calavera Hills Community Park.

### **CITY AND DISTRICT PARTNERSHIP**

Carlsbad Unified School District provided valuable input to the development of this document and should remain a trusted partner. Their support for this effort and SRTS in general is formalized in their adopted School Board Administrative Regulation (AR) 5142.2 Safe Routes To School Program. AR 5142.2 provides direction on strategies the district may employ to improve student safety along routes to school and to promote walking, bicycling, and other forms of active transport to school by students.

In addition, on-campus opportunities to improve circulation remain, such as re-striping the school driveway. Regular meetings between the City and school district will help advance ongoing and new SRTS efforts.



Hope Elementary School driveway.



May 6, 2024 Item #4 Page 30 of 64



May 6, 2024 Item #4 Page 31 of 64



May 6, 2024 Item #4 Page 32 of 64

### **Planning-Level Cost Estimate**

Date: 11/16/2022 Prepared by: CRW Reviewed by: VH



= backup Breakdown of the bid item

Bid #	Item	Quantity	Unit	Unit Price	Subtotal	
Miscellaneous						
1	Mobilization/ Demobilization (not to exceed 5% of subtotal)	1	LS	\$ 10,000.00	\$ 10,000.00	
2	Traffic Control (Including CMS Signs) (not to exceed 3% of subtotal)	1	LS	\$ 15,000.00	\$ 15,000.00	
3	Stormwater Control, SWPPP, & BMP Implementation	1	LS	\$ 15,000.00	\$ 15,000.00	
4	Construction Survey & Staking	1	LS	\$ 20,000.00	\$ 20,000.00	
5	Unclassified Excavation	1	LS	\$ 35,000.00	\$ 35,000.00	
	PCC Removal	319	SY			
	Curb and Gutter Removal	276	LF			
	AC Removal	513	SF			
		SUBTOTAL (Miscellaneous):	\$ 95,000.00			
Civil Impro						
6	Asphalt Slurry Seal	11,480	SY	\$ 3.00	\$ 34,440.33	
7	Construct Curb Ramp	5	EA	\$ 5,500.00	\$ 27,500.00	
8	Construct 4" PCC Sidewalk	3,387	SF	\$ 15.00	\$ 50,805.00	
9	Construct Type A1-6 Curb	374	LF	\$ 65.00	\$ 24,310.00	
10	Construct Cross Gutter	1,348	SF	\$ 18.00	\$ 24,264.00	
11	Construct Parkway Drain per SPPWC STD plan 150-3	25	LF	\$ 300.00	\$ 7,500.00	
				SUBTOTAL (Civil Improvements):	\$ 168,819.33	
Signing &	Striping Improvements					
12	Bicycle Lane Pavement Marking	12	EA	\$ 250.00	\$ 3,000.00	
13	Bike Lane Intersection Striping (Detail 39A)	313	LF	\$ 3.00	\$ 939.00	
14	Bike Lane Conflict Zone Marking (GREEN)	280	SF	\$ 5.00	\$ 1,400.00	
15	6" White Right Edge Line (Detail 27B)	8,340	LF	\$ 3.00	\$ 25,020.00	
16	12" Stop Bar Limit Line	65	SF	\$ 5.00	\$ 325.00	
17	"STOP" Pavement Marking	2	EA	\$ 250.00	\$ 500.00	
18	"STOP AHEAD" Pavement Marking	2	EA	\$ 500.00	\$ 1,000.00	
19	"SIGNAL AHEAD" Pavement Marking	1	EA	\$ 250.00	\$ 250.00	
20	Yellow Continental Crosswalk	1,700	SF	\$ 5.00	\$ 8,500.00	
21	6" Double Yellow Striping (Detail 22)	4,654	LF	\$ 3.00	\$ 13,962.00	
22	Traffic and Wayfinding Signage	20	EA	\$ 425.00	\$ 8,500.00	
23	6" White Diagonal Striping 20' O.C. (Buffered Area)	616	LF	\$ 3.00	\$ 1,848.75	
			TAL (Sie	gning and Striping Improvements):	\$ 65,245.00	
					\$ 329,064.33	
Alta's opinions of estimated construction costs are made on the basis of Alta's experience and qualifications. However,				30% Contingency:		
Contractor's m	names in Control over the Cost of Book, indeet also, equipment, or services furnished by Others, or over tome enchods of determining prices, or over competitive bidding or market conditions, Alta cannot and does not entee that proposals, bids, or actual construction cost will not vary from the estimates as prepared by Alta.			CONSTRUCTION TOTAL:	\$ 427,900	

May 6, 2024 24 Item #4 Page 33 of 64



2

# Hope Elementary School Suggested Route to School Map Draft

May 6, 2024 Item #4 Page 34 of 64

# **Hope Elementary School - DRAFT**

SUGGESTED WALKING AND BIKING ROUTES TO SCHOOL

