

ORDINANCE NO. NS-1015.68

**AN ORDINANCE OF THE BOARD OF SUPERVISORS
OF THE COUNTY OF SANTA CLARA
AMENDING SECTION B12-34 OF ARTICLE 2 OF CHAPTER II
OF DIVISION B12 OF THE COUNTY OF SANTA CLARA
ORDINANCE CODE RELATING TO
TWENTY-FIVE MILES-PER-HOUR SPEED ZONES**

Summary

This Ordinance extends the limits of the existing 25 miles-per-hour speed limit on Alma Bridge Road from between Highway 17 Right-of-Way to 1.0 miles east thereof to between Highway 17 Right-of-Way to Aldercroft Heights Road.

**THE BOARD OF SUPERVISORS OF THE COUNTY OF SANTA CLARA
ORDAINS AS FOLLOWS:**

SECTION 1. Section B12-34 of Article 2 of Chapter II of Division B12 of the Ordinance Code of the County of Santa Clara relating to Twenty-five mph zones is hereby amended to read as follows:

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Name of Street	Description
Alma Bridge Road	Between Highway 17 Right-of-Way to Aldercroft Heights Road

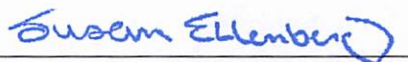
PASSED AND ADOPTED by the Board of Supervisors of the County of Santa Clara,
State of California, on OCT 08 2024 by the following vote:

AYES: ARENAS, CHAVEZ, ELLENBERG
LEE, SIMITIAN

NOES: NONE


ABSENT: NONE

ABSTAIN: NONE


SUSAN ELLENBERG, President
Board of Supervisors

Signed and certified that a copy of this document
has been delivered by electronic or other means to
the President, Board of Supervisors.

Attest:


CURTIS BOONE
Acting Clerk of the Board of Supervisors

Approved as to form and legality:

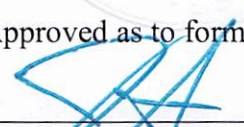

JOHN A. CASTRO
Deputy County Counsel

Exhibit A - Location Map

Exhibit B – Engineering Traffic Study for Alma Bridge Road

Exhibit A: Location Map

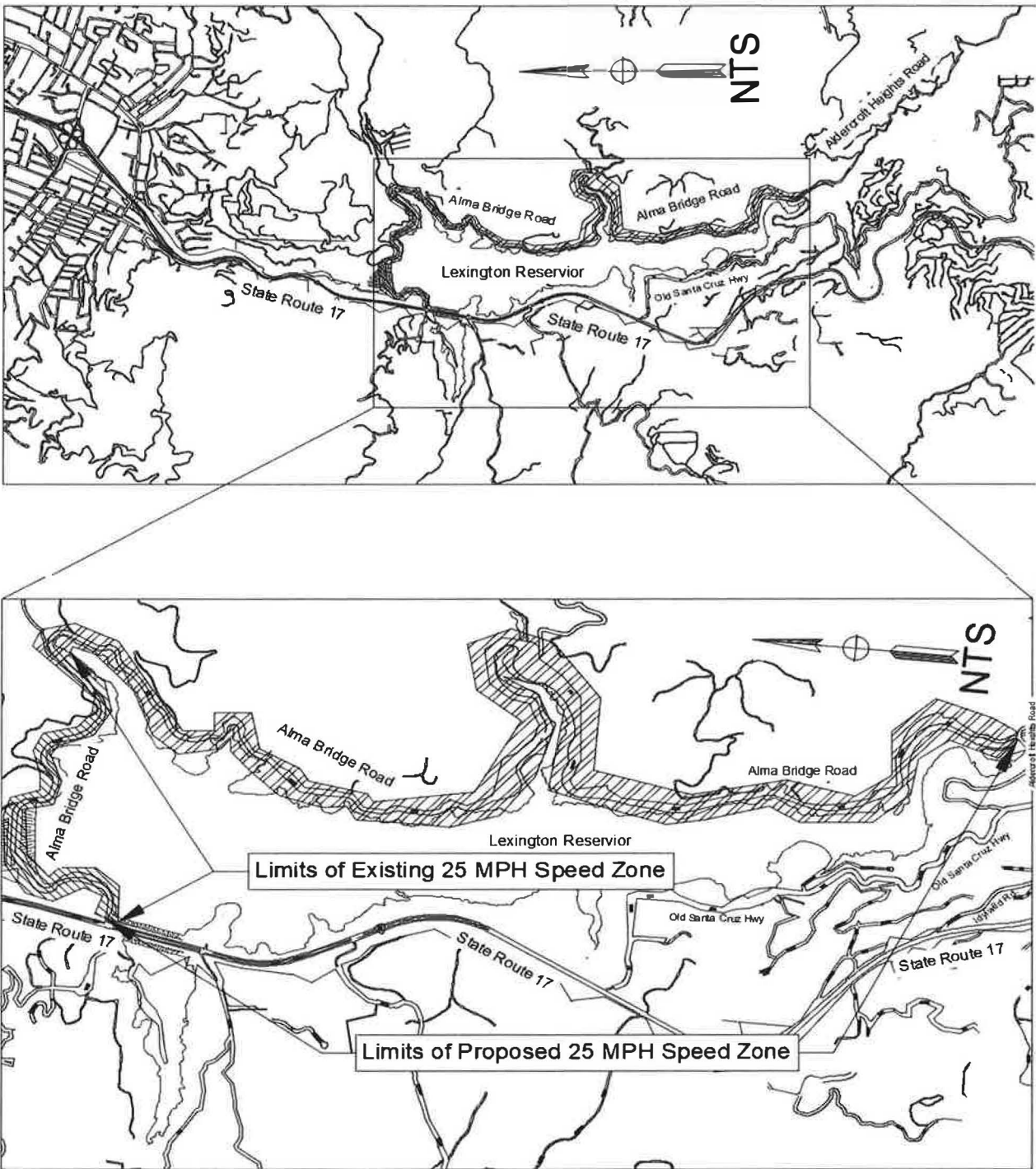


Exhibit B:

County of Santa Clara

Roads and Airports Department

101 Skyport Drive
San Jose, California 95110-1302
1-408-573-2400



COUNTY OF SANTA CLARA ENGINEERING AND TRAFFIC STUDY (SPEED ZONING SURVEY)

ROAD NAME AND LIMITS : Alma Bridge Road from Highway 17 Right-of-Way to Aldercroft Heights Road
SUBMITTED BY : Peter Perez-Hernandez, EIT
APPROVED BY : Clarence Salim, PE
DATE : 7/30/2024

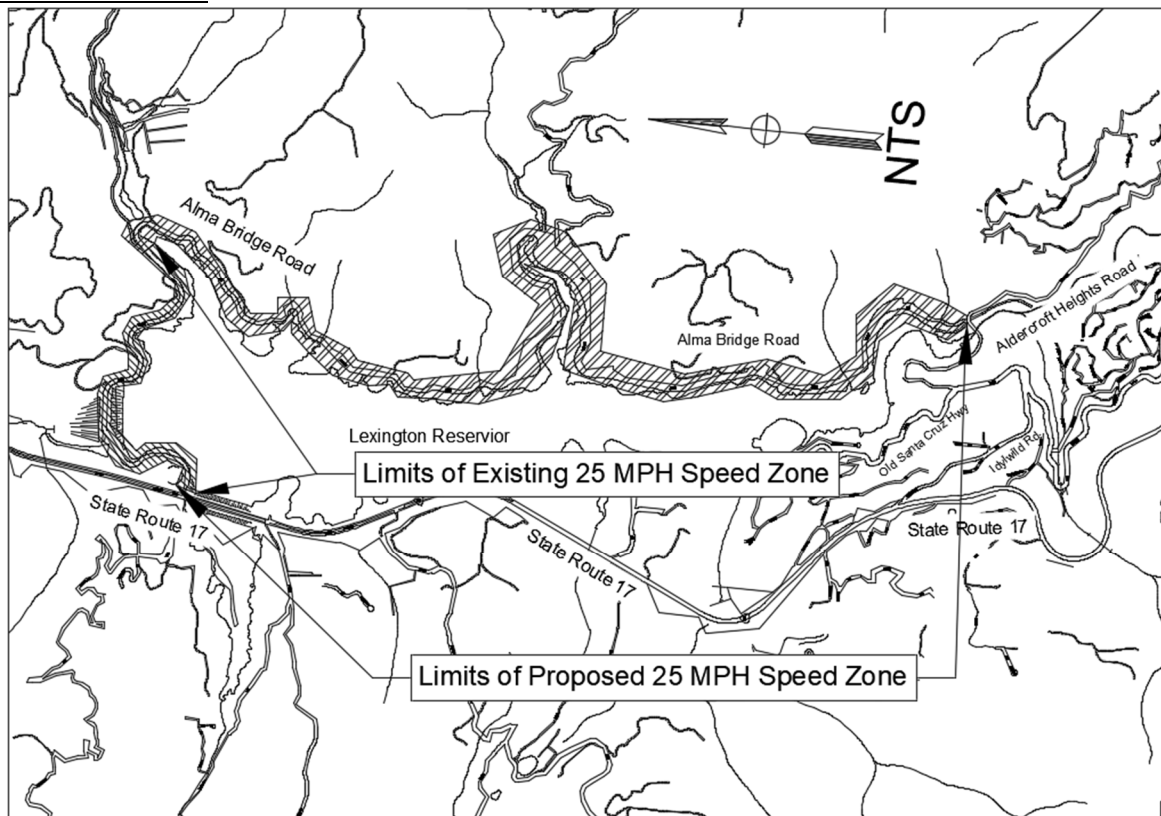
I. EXISTING SPEED ZONE:

25 MPH From Highway 17 to 1.0 miles east thereof
(Ordinance No. NS-1000.68; Date: 9-19-2000)

II. PROPOSED SPEED ZONE

25 MPH From Highway 17 Right-of-Way to Aldercroft Heights Road
(Ordinance No. NS-1015.68; Submitted for preliminary adoption on 9-24-2024)

III. LOCATION MAP:



III. CONDITIONS NOT READILY APPARENT TO THE DRIVER:

A. JURISDICTION:

- | | |
|-----------------------|-----------------------------------|
| 1. COUNTY MAINTAINED | : YES |
| 2. MULTI-JURISDICTION | : NO |
| 3. ENFORCEMENT | : California Highway Patrol (CHP) |

B. ROADWAY CONDITIONS:

- | | |
|----------------------------|---|
| 1. SHARP TURNS | : YES, at various locations due to mountainous road characteristics |
| 2. LIMITED SIGHT DISTANCE | : YES, at sharp turns and due to horizontal/vertical curves along the roadway |
| 3. TYPE OF ROADWAY SURFACE | : Asphalt Concrete |
| 4. NUMBER OF TRAFFIC LANES | : Two lanes, including one narrow, one-lane segment. |

C. TRAFFIC CONTROL CONDITIONS:

- | | |
|--------------------|--|
| 1. TRAFFIC SIGNALS | : NONE |
| 2. OTHER | : YES, Stop controls at both ends of one-lane segment approximately 2.3 miles north of Aldercroft Heights Road |

D. TRAFFIC FLOW CONDITIONS:

- | | |
|--------------------------------|--------------------|
| 1. AVERAGE DAILY TRAFFIC (ADT) | : 679 Vehicles/day |
| 2. % TRUCK TRAFFIC | : 1% |
| 3. HOV (COMMUTER LANES) | : NONE |

E. PUBLIC TRANSIT:

- | | |
|--------------------|------|
| 1. BUSES: | |
| a. LOCAL STOP | : NO |
| b. EXPRESS SERVICE | : NO |

F. RAIL ROAD CROSSING : NONE

G. BICYCLE TRAFFIC:

- | | |
|----------------------------------|--------------|
| 1. BIKEWAY TYPE: | |
| BIKE PATH, BIKE LANE, BIKE ROUTE | : NO, NO, NO |
| 2. SHARED LANE/SHOULDER | : YES* |

	LOW	MEDIUM	HIGH
SCHOOL	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RECREATIONAL	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COMMUTE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*Alma Bridge Road provides access to Los Gatos Creek Trail and multiple County Parks around Lexington Reservoir

H. PEDESTRIAN TRAFFIC:

1. STUDENTS, PLAYGROUNDS, DISABLED, ELDERLY : NO, NO, NO, NO
2. RESIDENTIAL, BUSINESS, COMMERCIAL,
INDUSTRIAL, RECREATIONAL : YES, NO, NO, NO, YES*
3. PEDESTRIAN WALKWAYS (SIDEWALKS,
WALKWAYS, PATHS, ROAD SHOULDERS) : NO, NO, NO, YES
4. CONSISTENCY IN SPEED ZONING : YES
5. OTHERS : NO

*Alma Bridge Road provides access to Los Gatos Creek Trail and multiple County Parks around Lexington Reservoir

IV. GENERAL INFORMATION:

LENGTH OF STUDY SECTION	: 4.64 miles
PAVEMENT WIDTH	: 24 feet
ROAD RIGHT-OF-WAY	: 40-20 feet
TYPE OF CENTER DIVIDER	: Double Yellow Centerline Striping
DESIGNATED THROUGH STREET	: YES

ROAD CLASS

	<u>FLAT</u>	ROLLING <u>HILL</u>	<u>MOUNTAIN</u>
“AEP”=Principal Arterial Expwy			
“APR”=Principal Arterial Rural			
“APU”=Principal Arterial Urban			
“ARM”=Minor Arterial Rural			
“AUM”=Minor Arterial Urban			
<u>“CMA”=Major Collector Rural</u>			<u>X</u>
“CMI”=Minor Collector Rural			
“CU”=Collector Urban			
“LR”=Local Rural			
“LU”=Local Urban			

V. SPOT SPEED STUDY:

Near Douglas B. Miller Memorial Point County Park

Average Daily Traffic (ADT): 679 VPD

DIRECTIONS

	SB	EB	AVERAGE
50th PERCENTILE – MPH	24	25	25
85th PERCENTILE – MPH	26	27	27
PACE	19-28	19-28	19-28
PERCENT IN PACE - %	93%	88%	91%

85th PERCENTILE BASED SPEED LIMIT - 25 MPH

RECOMMENDED SPEED LIMIT – 25 MPH

VI. ACCIDENT DATA:

TIME PERIOD:

20212022

2023

A. DATA:

TRAFFIC COLLISION REPORTS	NUMBER OF YEARS	TYPE		TOTAL
		INTERSECTION	NON-INTERSECTION	
SPEED RELATED	3	0	1	1
OTHER	3	0	2	2
TOTAL	3	0	3	3

B. ACCIDENT RATE CALCULATION:

$$\text{ACCIDENT RATE} = \frac{\text{No. of accident(s)} \times 1 \times 10^6}{\text{vehicle miles of travel}} = \frac{\text{No. of accident(s)} \times 1 \times 10^6}{\text{dist.} \times 365 \times \text{No. years} \times \text{ADT}}$$

$$\text{ACCIDENT RATE} = \frac{3 \text{ accidents}^* \times 1 \times 10^6}{4.64 \text{ miles} \times 365 \text{ days/yr.} \times 3 \text{ years} \times 679 \text{ VPD}}$$

ACCIDENT RATE = 0.87 accidents per million of vehicle miles traveled (ACC/MVM)

The State's comparable accident rate of 1.04 ACC/MVM for similar rural two-lane roadways (data provided in most current Collision Data on California State Highways publication, available through CalTrans website.)

LEGEND:

1 x 10 ⁶	=	Multiplier for 1,000,000
dist.	=	Distance in miles
365	=	Days in a year
No. years	=	Period of study
ADT	=	Average daily traffic (24 hr. count)

* The above accident count is based on SWITRS (California State Wide Integrated Traffic Report System) report for Santa Clara County (2021 through 2023).

VII. EVALUATION OF DATA:

Alma Bridge Road from Highway 17 to Aldercroft Heights Road is a two-way, rural major collector roadway located in the Santa Cruz Mountains around the perimeter of Lexington Reservoir located near the Town of Los Gatos. The study segment is 4.64 miles in length, running in a north-south direction. Alma Bridge Road has an existing posted 25 mph speed limit zone from Highway 17 to 1.0 mile easterly thereof. There exist a pair of stop sign controls on either side of the one-lane segment of Alma Bridge Road. Recently obtained traffic volume counts show an average daily traffic (ADT) of 679 vehicles per day (VPD) on Alma Bridge Road for this study. Additionally, the section of Alma Bridge Road from Highway 17 to 1.0 mile easterly thereof features regular traffic from the Lexington Quarry via Limekiln Canyon Road. Further, Alma Bridge Road features greater pedestrian and bicycle traffic than is typical of mountainous roads due to the presence of multiple County Parks on the perimeter of Lexington Reservoir in addition to access points to the Los Gatos Creek Trail.

In general, pavement width on Alma Bridge Road is 24 feet with no curbs or sidewalks on either side of the roadway within study limits. There is a segment where pavement width narrows to 16 feet, demarcated as single lane road condition with appropriate standard signs. Alma Bridge Road has solid double yellow centerline striping where pavement width permits, and white shoulder striping throughout the study segment. Parking is not permitted due to existing no stopping restriction zones. County maintained road right-of-way width varies widely over the study segment due to the presence of Lexington Reservoir and the nature of the surrounding mountainous geography.

The available accident history data obtained from SWITRS (2021-2023) indicate 3 reported collisions during the 3-year study period. Consequently, the calculated accident rate is 0.87 ACC/MVM. The State's comparable accident rate is 1.04 ACC/MVM for similar rural, two-lane roadways (see page 4 for more details).

A recently performed radar speed check on Alma Bridge Road 85th percentile based speed (critical speed) of 27 mph for this study.

This Engineering and Traffic Survey contains sufficient information to document that the conditions of the California Vehicle Code (CVC) Section 627 "Engineering and Traffic Survey", Section 22358 "Decrease of Local Speed Limits", Section 22358.3 "Decrease on Narrow Street", and Section 40803.b "Speed Trap Evidence" have been complied with and that the other conditions "**not readily apparent**" to the driver are properly identified. The "**not readily apparent**" conditions to the driver include but not limited to: the most recent 3-years accident records, roadway design speed, and stopping sight distance.

RECOMMENDED 25 MPH SPEED ZONE (Highway 17 Right-of-Way to Aldercroft Heights Road):

The results of this traffic study and engineering evaluation of field conditions indicate that due to: a lack of curb, gutter, or sidewalk on either side of the roadway; presence of pullouts and driveways; areas of limited line-of-sight distances due to horizontal and vertical curvature in the roadway; the presence of pedestrians, bicyclists and equestrians; access to County park; and number of collisions resulting in accident rate near to State comparable accident rate for similar type of roadway. Based on conditions not readily apparent to the driver and an average critical based speed of 27 mph, a **25 MPH speed zone should be established along Alma Bridge Road from Highway 17 Right-of-Way to Aldercroft Heights Road**, and that the recommended 25 mph speed limit zone be targeted for radar enforcement by the California Highway Patrol.

This recommendation is in compliance with Section 22352 "Prima Facie Speed Limits" of the California Vehicle Code (CVC) and in accordance with Section 2B13 "Speed Limit Sign" of the current Manual on Uniform Traffic Control Devices (MUTCD) and California MUTCD. Pursuant to the MUTCD and CA-MUTCD, when a speed limit is posted, it should be at the nearest five miles per hour (5 mph) increment to the 85th percentile speed. The measured 85th percentile speed on Alma Bridge Road is 27 mph, which using the procedure above is rounded to 25 mph.