# CC 07-09-2024

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Vision Zero Action Plan

Presentation

# CITY OF CUPERTINO

## Vision Zero Action Plan

Cupertino City Council July 9, 2024



## What is Vision Zero?

- Vision Zero combines a belief in zero fatal or severe injury crashes, with proactive strategies for safer roads.
  - Aims to eliminate fatal and severe injury crashes, promoting safe, equitable mobility for everyone through prioritizing safety and inclusivity in road planning and design.
- Data driven approach to identify, analyze, and prioritize roadway safety improvements
  - Considers stakeholder and community feedback to identify additional traffic safety related concerns
  - Allows the City to implement a systemic approach to address collisions
- Enhances City's eligibility for grants

# **Principles of Vision Zero**

- Deaths and serious injuries are unacceptable
- Humans make mistakes
- Humans are vulnerable
- Responsibility is shared
- Safety is proactive
- Redundancy is crucial

Between 2012 and 2021 there were nine fatalities and 74 severe injuries reported in Cupertino.



## **Development of Vision Zero**

- Identification of High-Injury Network
  - 10 years of collision data
  - Public outreach (community and stakeholder meetings; BPC, online dashboard and website)
- Toolbox of countermeasures
  - Roadway design
  - Bicycle and pedestrian safety
  - Speed management
  - Operations and signal timing
  - Signage and markings
  - Transit safety
  - Education, public awareness and enforcement

































# SPEED LIMIT REDUCTION - AB 43 EFFICACY: COST: C

COMPLEXITY:

# **Development of Vision Zero**

- Identification of nine primary collision profiles
  - Developed through analysis of collision data
  - Each identifies a collision type that is of primary concern
  - Each accompanied by appropriate toolbox countermeasures



PROFILE 1: Pedestrian & bicyclist are most vulnerable



PROFILE 2: Unsafe speeds



PROFILE 3: Improve intersection safety for all



PROFILE 4: Pedestrian code violation



PROFILE 5: Majority of bicycle collisions are broadside collisions



PROFILE 6: Teenagers biking near schools and parks



PROFILE 7: Driving under influence



PROFILE 8: Bicycle collisions and automobile right-of-way violation



PROFILE 9: Collisions near transit stops

# **Development of Vision Zero**

Identification of Primary Corridors to focus investments, each including specific countermeasures:

- Stevens Creek Boulevard
- Homestead Road
- McClellan Road
- De Anza Boulevard
- Stelling Road
- Wolfe Road/Miller
- Bollinger Road
- Blaney Avenue



Median Fencing
 Transit Islands

## Implementable Actions

List of steps to achieving Vision Zero. Each includes:

- Timeframe to achieve (short-, medium-, or long-term)
- Performance measures
- Necessary partners

### Critical Action: Task Force

- Stakeholder group
- Utilize collaboration, community outreach, and data collection to ensure Vision Zero goals are achieved
- Regular reporting and will inform future Plan updates

No	Safety Strategy	Description	Timeline	Progress Measure	Key Partners	City Resources		
Vision	Vision Zero Program Initiative							
A.1	Vision Zero Task Force	Establish an interdisciplinary Vision Zero Task Force responsible for supervising the execution of the plan and facilitating collaboration among various City departments for project and program coordination.	Short-Term	Task Force established and regular meetings held	Department of Public Works, Community Development Department, School Districts, County and Sheriff and Fire Department, Bicycle Pedestrian Commission	Low		

# **Bicycle Pedestrian Commission**

- Presented Initial Draft on March 28
  - BPC Provided Input and Requested Revisions
  - Staff Addressed the Input
- Presented Second Draft on June 13
- BPC Unanimously Recommended Council adopt the Vision Zero Report with minor modifications
  - Staff Incorporated Requests
- The Final Draft Plan incorporates BPC recommendations

## **Recommended Action**

Adopt Resolution 24-XXX, "A RESOLUTION OF THE CUPERTINO CITY COUNCIL DECLARING TO BECOME A VISION ZERO COMMUNITY AND ADOPTING A VISION ZERO ACTION PLAN WITH THE CLEAR GOAL OF ELIMINATING TRAFFIC FATALITIES AND SEVERE INJURIES ON CITY STREETS BY THE YEAR 2040"

## **Questions?**

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# Lawson Middle School Bikeway Project

Presentation

# Lawson Middle School Bikeway Project

A Recommended School Walk Audit Project



# Project Background

- 2016-2017: A citywide school walk audit project identified possible bike-ped safety improvement projects for all fourteen Cupertino schools
- 2018-2022: Conditions and options explored by City / School / District / PTA / Parents
- 2022: The City contracted Hexagon
   Transportation Consultants to perform a feasibility study and reexamine existing conditions

# **Project Description**

## Lawson Middle School Bikeway Project

Intent: Keep all roadway users safe by providing students with a safe route to access the campus bike cages while also minimizing impacts to the neighborhood.

# **Project Location**



# **Community Outreach**

Multiple community meetings were held to receive feedback on three alternatives.

- Nov '22: Community meeting #1
- March '23: Community meeting #2
- April '23: Community meeting #3
- May '23: Bicycle and Pedestrian Committee

# Discussion of Alternatives

# Design alternatives include:

- A bike boulevard\*
- 2. A multi-use trail
- An on-street twoway separated bikeway

\*Concept dropped after the second community meeting

## Three Alternatives

- 3 Alternatives Presented to Community:
- Alternative 1 not favored by the community
  - Removed as an option
- Alternative 2 Cost \$1.15M +/-
  - Keeps most On-Street Parking
  - Removes 25-30 Trees
- Alternative 3 Cost \$120,000 +/-
  - Removes 50 On-Street Parking Spaces
  - No Tree Removals

### **Alternative 2: Two-Way Mixed-Use Trail**

#### **Description:**

- Construct a two-way mixed-use trail on the west side of Vista Drive (Merritt Drive to Forest Ave) and the north side of Forest Ave.
- A typical width is 10 feet with 2-foot shoulders, but due to utility constraints, the trail would be 8 feet in width (with 2-foot shoulders) from north of the Vista bike cage to Merritt Drive.

#### **Estimated Cost:**

\$1.15 million

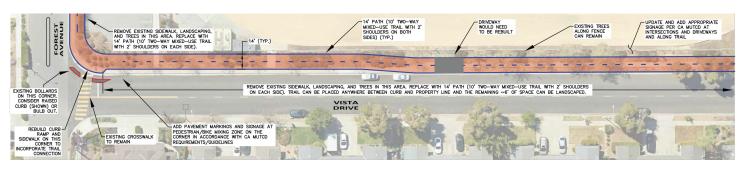
#### **Benefits:**

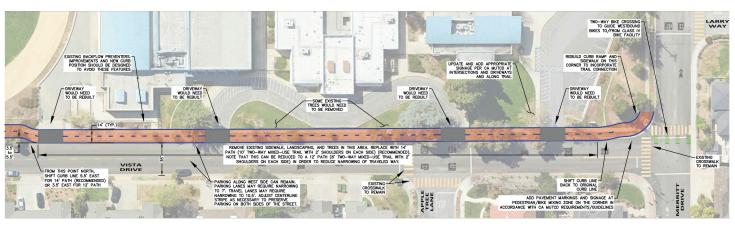
Preserves on-street parking.

#### Impacts:

- Relocation of minor utilities
- Removal of trees (19 small, 9 mature)
- Removal and replacement of curb and gutter

### **Alternative 2: Two-Way Mixed-Use Trail**





### Alternative 3: On-Street Two-Way Class IV Bike Facility

#### **Description:**

- Construct a two-way bike facility on the west side of Vista Drive and the north side of Forest Avenue.
- 8 feet wide (4 feet in each direction) with a 3-foot buffer.

#### **Estimated Cost:**

• \$115,000

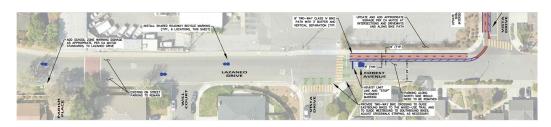
#### **Benefits:**

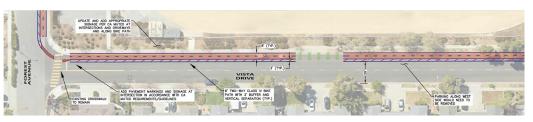
No removal of trees or utility relocations are needed.

#### Impacts:

- Removal of ~50 on-street parking spaces Vista Drive
- Potential overflow of parking into the CUSD lot and neighboring streets during events.

## Alternative 3: On-Street Two-Way Class IV Bike Facility







## Feasibility Study - Parking and Traffic Analysis

#### Approach:

 Measured intersection volumes and on-street parking utilization to identify potential safety issues and existing parking demand.

#### **Locations Studied:**

- 5 Intersections: Including Blaney Ave, Merritt Dr, Vista Dr, and several cross streets.
- 5 School Driveways

#### Methodology:

- Counted vehicular, bicycle, and pedestrian movements during peak hours.
- Conducted parking utilization counts on typical weekdays and weekends.
- Field observations to understand behaviors and identify conflicts.
  - Weekday: School operations (7 AM-10 AM, 2 PM-5 PM) and residential usage (8 PM-12 AM).
  - Weekend: Residential usage (7 AM-12 AM).

## **Locations of Impacted Parking Spaces**

### **Parking Removal:**

- Approximately 50 spaces on Vista Drive
- Parking currently prohibited on Forest Ave



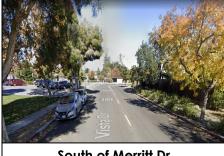
## Locations of Impacted Parking Spaces

#### Existing On-Street Conditions Along Vista Dr:

- Parking will be preserved on the east side of the street (right side of images)
- Each Property has its own driveway and garage for off street parking







South of Merritt Dr

# **Alternatives Comparison**

	Alternative 2	Alternative 3
Addresses Bike/Pedestrian/Vehicle Conflicts	Yes	Yes
Remove Trees	28	None
Remove On-Street Parking Spaces	None	50
Cost to Implement	~\$1,150,000	~\$115,00

#### Notes:

• Starting at the BPC Hearing, Alternative 2 is renamed to Alternative A, and Alternative 3 is renamed to Alternative B during public meetings.

# **Community Survey Results**

	In-Meeting Poll Results		Online Survey Results		
	Alternative 2	Alternative 3	Alternative 2	Alternative 3	
Preferred Alternative	37%	63%	7%	87%	
Oppose the Alternative	52%	34%	80%	7%	

#### Notes:

- Starting at the BPC Hearing, Alternative 2 is renamed to Alternative A, and Alternative 3 is renamed to Alternative B during public meetings.
- Online Survey Results also allowed participants to choose the "No Change" Alternative.

# Design Example – Palo Alto





## **Recommended Actions**

- 1. Authorize the implementation of an on-street two-way Class IV bikeway on the west side of Vista Drive between Forest Avenue and Merritt Drive and the north side of Forest Avenue between Vista Drive (west) and Vista Drive (east) and proceed with preparation of final design.
- Conduct the first reading of Ordinance 24-XXX; "An Ordinance of the City Council of the City of Cupertino amending Table 11.24.150 of the Cupertino Municipal Code Related to Prohibition of Parking Along Certain Streets."

## **Questions?**



# Feasibility Study - Parking Utilization

Time of Day	Vista Drive Parking Utilization	Merritt Drive & Apple Tree Lane Parking Utilization	
8 AM - 2:59 PM	20 to 30 vehicles parked	Similar pattern to Vista Drive	
3 PM	75 vehicles parked on both sides of street (Peak)	Similar pattern to Vista Drive but peak demand did not exceed 60%	
After 4 PM	10 vehicles or less	Similar pattern to Vista Drive	
Weekend	Low throughout the day	Similar pattern to Vista Drive	

## **Existing Parking Demand**

#### Parking Utilization and Trends:

- Alternative 3 would require the removal of approximately 50 on-street parking spaces.
- On-street parking in front of the school is heavily utilized during school hours.
- There are after-school sports activities that occur 3-4 times a week, ending between 5 PM and 6 PM.
- There are approximately 12 evening school-wide events within a school year.
- These evening school-wide events, as well as some after-school sports events, could also attract a considerable amount of on-street parking demand.

## **Existing Parking Demand**

#### Parking Supply Estimate:

- There are approximately 500 on-street parking spaces within a 5-minute walk of the school.
- It is anticipated that existing on-street parking demand related to the school will disperse into the CUSD parking lot as well as neighboring streets.
- While the CUSD parking lot is not a public parking lot, CUSD staff has indicated that they are willing to allow parents to park in the lot during after-school events.

