

TRAFFIC SAFETY IMPROVEMENTS AROUND SCHOOL SITES PHASE 1

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AUGUST 29, 2023



Presentation Outline

- **Project Goals**
- **Existing Safety Improvements**
- **Planned Safety Improvements**
- **Recommendation Development**
- **Recommendation Summary**



Project Goals

- Evaluation of Safety around schools
- Identify locations for Flashing Stop Signs (FSS)
- Associate FSS with schools, and improve accessibility and safety for peds/bikes near schools
- Review need for other improvements near schools (e.g. signs, crosswalks, RRFB, traffic calming measures etc.)

Existing Safety Improvements

- Rectangular Rapid Flashing Beacons (RRFBs) at 13 locations near schools
- Ped scramble crossing at Concord Blvd & West St (between three schools)
- Flashing stop signs (Pilot)
 - Locations:
 - Pine Hollow Rd & Pennsylvania Blvd
 - Salvio St & Date St
 - Blinks on vehicle approach
 - Speed sensitive blinking
 - Increases visibility of stop control



Pennsylvania Blvd & Alabama Dr



Planned Safety Improvements

- Rectangular Rapid Flashing Beacons (RRFBs) at 5 new locations near schools
- Project under HSIP to add protected left-turn phasing at Concord Blvd & Mendocino Dr (Feb '24)
- Completed Pine Hollow Feasibility Study and developed recommendations for future project.

Recommendation Development

- **Focus on flashing stop signs, with goal of one installation per school**
- **Flashing stop signs must meet two criteria:**
 - All-way stop controlled intersection
 - Within 600 feet of school main entrance
- **Additional criteria were reviewed, including volume, speed, collision history, and observed safety challenges during field visit**

Recommendation Summary

- **13 flashing stop sign installations at 11 schools**
- **7 schools with no all-way stop controlled intersections within 600 feet of main entrance. Other recommendations include:**
 - Stop signs, legends, bars
 - Curb extensions, curb ramps, sidewalks
 - High-visibility crosswalks
 - Communicate with staff, parents, and students

Questions?

Appendix A

LIST OF EXISTING AND PROPOSED RECTANGULAR RAPID FLASHING
BEACON LOCATIONS

Appendix A: List of Existing and Proposed Rectangular Rapid Flashing Beacon Locations

Existing Locations

1. West St & Forestview Ave
2. Thornwood Dr & Stillwater Ct
3. Floyd Ln & Cardinal Dr
4. Winton Dr Midblock
5. Pennsylvania Blvd & Alabama Dr
6. Myrtle Dr & Oakridge Ct

Existing Locations

7. Olivera Rd & Thunderbird Dr
8. E Olivera Rd Midblock
9. Ronald Wy Midblock
10. Ronald Wy & Moretti Dr
11. Lacey Ln & Cambridge Elementary Driveway
12. Wren Ave Midblock (two locations)

Appendix A: List of Existing and Proposed Rectangular Rapid Flashing Beacon Locations

Proposed Locations

- 1. 1. Claycord Ave & Innwood Ct (Dec '23)**
- 2. 2. Mendocino Dr & Orangewood Ct (Dec '23)**
- 3. 3. Esperanza Dr & Moretti Dr (Dec '23)**
- 4. 4. Alberta Wy & Academy Rd (June '24)**
- 5. 5. Olivera Rd & Sanford St (Dec '23)**

Appendix B

PROPOSED FLASHING STOP SIGN LOCATIONS

Appendix B: Proposed Flashing Stop Sign Locations

- **Ayers Elementary:** Myrtle Dr & Ayers Rd
- **El Monte Elementary:** Pancho Via Wy-Kimball Wy & Barbis Wy
- **Holbrook Language Academy:** E Olivera Rd & Esperanza Dr
- **Meadow Homes Elementary:** Detroit Ave & Lynn Ave-Sunshine Dr
- **Meadow Homes Elementary:** Toyon Dr & Oakmead Dr (secondary)
- **Monte Gardens Elementary:** Ashdale Dr-Larkspur Dr & Carlotta Dr
- **Monte Gardens Elementary:** Landana Dr & Larkspur Dr (secondary)

Appendix B: Proposed Flashing Stop Sign Locations

- **Mountain View Elementary:** Thornwood Dr & Greenbush Dr
- **Silverwood Elementary:** Claycord Ave & Olive Dr
- **Sun Terrace Elementary:** Floyd Ln & Sanford St
- **Woodside Elementary:** San Simeon Dr & McKean Dr
- **Ygnacio Valley Elementary:** Chalomar Rd & Notre Dame Ave
- **Mount Diablo High:** Grant St & Almond Ave

Appendix C

OTHER RECOMMENDATIONS FOR SCHOOLS WITH NO FLASHING STOP
SIGN CANDIDATE LOCATIONS

Appendix C: Other Recommendations for Schools with No Flashing Stop Sign Candidate Locations

Cambridge Elementary School

- Short-Term
 - Stop sign, stop legend, and advance stop bar on Lacey Ct approach to Lacey Ln including red curb between the stop bar and crosswalk
 - Stop legend and advance stop bar on the Frisbie Ct approach to Lacey Ln including red curb between the stop bar and crosswalk
 - Advise that parent volunteers activate RRFBs on Lacey Ln
- Long-Term
 - Advance stop bars and high-visibility crosswalk markings on all legs of Tilson Dr & Nicholas Dr (repave before restriping)

Westwood Elementary School

- Short-Term
 - Advance stop bar and high-visibility crosswalk on east (Roland Dr) leg of West St & Roland Dr
 - Trim vegetation on western sidewalk of West St north of the RRFBs in front of Westwood Elementary School
- Long-Term
 - Curb extensions at West St & Roland Dr crosswalk (long-term CIP project)

Appendix C: Other Recommendations for Schools with No Flashing Stop Sign Candidate Locations

Wren Elementary School

- Short-Term
 - Paint the curbs red between the yield lines and crosswalks on the south side of Wren Avenue at the two crosswalks in front of Wren Avenue Elementary School
- Long-Term
 - Convert two existing crosswalks in front of Wren Avenue Elementary School to raised crosswalks

El Dorado Middle School

- Short-Term
 - Suggest to El Dorado Middle School that trained staff/volunteer parents assist at West St & Forestview Ave, and students be informed of the uses and benefits of the RRFBs on West St
 - Signage on east side of West St at Forestview Ave reminding students to use RRFB push button
 - Advance stop bar and high-visibility crosswalk on west (Forestview Ave) leg of West St & Forestview Ave
 - Trim vegetation on western sidewalk of West St north of Forestview Ave
- Long-Term
 - Modify signal at Concord Blvd & West St to extend walk and all-red clearance time during school peaks, add countdown pedestrian signal heads, add diagonal-facing pedestrian signals, and replace PPBs with APSs (HSIP project)

Appendix C: Other Recommendations for Schools with No Flashing Stop Sign Candidate Locations

Oak Grove Middle School

- Long-Term
 - Crosswalk with RRFBs across Weaver Ln midway between Minert Rd and Breton Pl incl. vertical delineators to narrow roadway (work with Walnut Creek)
 - High-visibility crosswalk on south leg of Minert Rd & Weaver Ln (work with Walnut Creek)
 - Curb extensions and curb ramps on south leg of Minert Rd & Weaver Ln (work with Walnut Creek)
 - Curb ramps at Minert Rd & Brittany Ln
 - Install sidewalk on east side of Weaver Ln between Oak Grove Middle School and Smith Ln

Concord High School

- Short-Term
 - Communicate with Concord High School about formalizing path between school and West S & Concord Blvd
 - High-visibility crosswalks on all legs at Concord Blvd & Mendocino Dr-School Dwy
- Long-Term
 - Modify signal at Concord Blvd & Mendocino Dr-School Dwy to extend walk and all-red clearance time during school peaks, add countdown pedestrian signal heads, and replace PPBs with APSs (part of Capital Improvement Project PJ2575)

Ygnacio Valley High School

- Short-Term
 - Communicate with YVHS about formalizing the path between school and Oak Grove Rd along the north side of the pick-up/drop-off loop