

**Forest Park Elementary School
Fremont School Traffic Safety Assessment
Technical Memo**


October 2017

Prepared by Alta Planning + Design

Forest Park Elementary School

A Traffic Safety Assessment was conducted at Forest Park Elementary School during the morning arrival on Wednesday, October 25, 2017. The assessment was attended by representatives from the City of Fremont, Alta Planning + Design, and Forest Park Elementary staff and volunteers.

School Information

Address	34400 Maybird Circle Fremont, CA 94555	
Morning Bell(s)	8:25 AM/ 11:35 AM (K), 8:30 AM (1-6)	
Afternoon Bell(s)	11:45 AM/ 2:55 PM (K), 2:55 PM (1-6) Wednesday: 11:45 AM (K), 1:30 PM (1-6)	
Grade Levels	K-6	
Enrollment	1,011	
School Type (neighborhood or magnet)	Attendance area boundary	
Students' Proximity to School (Percentage of students)	Less than ¼ mile (5-minute walk): 20% Between ¼ and ½ mile (5- to 10-minute walk): 60% Between ½ and 1 mile (10- to 20-minute walk): 15% Greater than 1 mile (more than 20-minute walk): 5%	
Participating School in Alameda County Safe Routes to Schools?	Yes	
Student Travel Mode Info (Percentage of students)	School Estimate: Walking: 60% Biking: 5% School bus: 0% Transit: 0% Carpool: 10% Family Vehicle: 25% Other: 0%	Recent SR2S Hand Tally Data (if available): Fall 2014 Walking: 53% Biking: 2% School bus: 0% Transit: 0% Carpool: 8% Family Vehicle: 36% Other: 0%
Does the school have bike racks? What is the capacity? Is it secure bike parking? On a typical day, what percentage of racks are used?	Yes, Forest Park Elementary has secure bike parking. Capacity: 3 long multi-bike racks On a typical day, about 20 bikes & scooters are parked.	

How do school and transit buses interact with the school?	No school buses
Does the school have special pick-up/drop-off policies/procedures?	The school has valet drop-off and pick-up. Safety patrol assists with vehicle loading in the valet area.

Forest Park Elementary School is located in the Ardenwood neighborhood of Fremont in the northern part of the city. The school is located in the middle of loop road, with the only other use inside the loop being a public park; low density residential uses surround the school. On the eastern side of Maybird Circle is a higher-speed collector street, Deep Creek Road.

Between 2011 and 2015 there were 0 pedestrian-involved collisions and 0 bicycle-involved collisions within a ¼ mile of the school and 3 pedestrian-involved collisions and 3 bicycle-involved collisions between a ¼ and ½ a mile of Forest Park Elementary School. These collisions occurred along Deep Creek Road, Paseo Padre Parkway, and Dunsmuir Common.

Existing Conditions

The following existing conditions were observed or reported by participants during the walk audit.

1. Deep Creek Road/Maybird Circle (South Intersection)

- ◆ This intersection is currently one-way stop-controlled (Maybird leg) and has one marked yellow transverse crosswalk across Maybird.
- ◆ Walk audit participants reported that cars take turns onto Maybird at the intersection very fast, sometimes not yielding to pedestrians.
- ◆ The unmarked crossing across Maybird Circle is well used as it provides near direct access for students and families accessing Forest Park from the townhouse development across the street. This crossing can be difficult as vehicles do not always yield to pedestrians.
- ◆ City of Fremont staff reported that they are currently considering plans to install a stop sign at this intersection.



The southern Maybird Circle/Deep Creek Road intersection looking north.



The southern Maybird Circle/Deep Creek Road intersection looking east across Deep Creek Road.

2. Deep Creek Road/Maybird Circle (north intersection) & Deep Creek Road/Crandallwood Drive

- ◆ These two intersections are very close to each other. There is a marked crossing across Maybird Circle and one across Deep Creek Road at Crandallwood Drive. However, navigating the two intersections can be very challenging for both vehicles and pedestrians.
 - A crossing guard is stationed at Deep Creek Crossing.
 - This crossing is well utilized as it provides a connection to the housing developments on the east side of Deep Creek Road.
- ◆ Walk audit participants reported that cars regularly speed through the area.
- ◆ In the days immediately following the walk audit, there was a pedestrian-involved collision at this intersection (per the police report, the pedestrian was deemed to be at fault).



Students and families crossing the Deep Creek Road/Crandallwood Drive intersection with assistance from a crossing guard.

3. Maybird Circle/Platinum Terrace

- ◆ There is an existing yellow, high visibility crosswalk across Maybird Circle.
 - This crossing currently lacks advance pavement markings.
 - There are a relatively high number of pedestrians that cross this intersection as many students live nearby.
- ◆ Walk audit participants also reported that U-turns happen somewhat frequently in this segment of Maybird Circle.



Students crossing Maybird Circle at Platinum Terrace with assistance from the student safety patrol.

4. Maybird Circle/Diamond Common

- ◆ There are trees and other vegetation near this intersection that can obscure pedestrians from people driving.
 - Walk audit participants reported that this vegetation it makes it more difficult to see pedestrians approaching the crossing.

5. Maybird Circle/Shattuck Avenue

- ◆ This intersection is very heavily used by pedestrians.
 - Parents park/pullover along both Maybird Circle and Shattuck Avenue and unload their kids. The vast majority of kids walked along the sidewalk and used the intersection; it is monitored by the school's student safety patrol.
 - Both crossings across Maybird Circle were well utilized.
- ◆ Shattuck Avenue was heavily utilized by parents as a drop-off location; some did perform mid-block U-turns, however.
- ◆ Some pedestrian crossings were observed further north, towards Diamond Common, using unmarked crossings.
- ◆ Walk audit participants reported that the crossings at the Shattuck intersection could be better signed in advance.



The student safety patrol stopping traffic to allow students and families to cross at the Maybird Circle/Shattuck Avenue intersection.

6. Maybird Circle

- ◆ Maybird Circle has all of Forest Park’s frontage along the western side of the circle road.
- ◆ Along the school’s frontage, red curb paint for “No Stopping” zones were faded and in need of repainting by the school district.
- ◆ Select “No Stopping” and “School Zone/Assembly” signs are faded and in need of replacement.



Left: A faded “No Stopping Any Time” sign on Maybird Circle.



Right: A segment of curb with very faded red paint along Maybird Circle.

- ◆ Walk audit participants noted that further away from the school (near the Deep Creek intersections) cars were regularly observed making U-turns.
- ◆ Participants also noted that students and families regularly jaywalk.
 - This was most frequently observed near the Fairbanks Common driveway.

- There is a curb ramp across the street from this driveway, and city staff noted that there had been prior discussions about marking a crosswalk there.
- ◆ Sidewalks along Maybird Circle are more narrow where they front Fisher Park than when fronting the school. The narrower sidewalks can get overcrowded during drop-off and dismissal times.

7. Maybird Circle - Drop-off Loop

- ◆ The school has a drop-off loop with one entry driveway and one exit driveway; both are on Maybird Circle.
- ◆ The school uses cones and signs to attempt to prohibit left turns into and out of the drop-off loop.
 - Audit participants reported that cars have moved/runover/drove around the cones to make the prohibited movements.



The drop-off loop entrance with cones to discourage left turns in on Maybird Circle.

Recommendations

Recommendations to improve infrastructure or operations surrounding Forest Park Elementary can be seen on the conceptual improvement plan found on the following page. Engineering cost estimates for the infrastructure recommendations are also provided.

The following improvements are recommendations for policy and program implementation at Forest Park Elementary School to increase safety and active commutes to school.

Policy & Program Recommendations

- ◆ Distribute Recommended Walk/Bike Maps to students and their families in an effort to promote walking and biking to school on suggested routes. Safety tips are also included on these maps to promote good behavior among bicyclists, pedestrians, and drivers.
- ◆ Work with parents to connect them with others who live nearby to increase the number of students carpooling, which may reduce the number of vehicles coming to campus. Similarly, Walking School Buses and Bike Trains can be established with the same type of coordination.
- ◆ Participate in more SR2S events, including Bike Rodeos, Pedestrian Safety Rodeos, and the Rock the Block Assembly. These can teach pedestrian and bicycle safety lessons and best practices to kids (and in turn their parents) to improve behavior.
- ◆ Participate in SR2S evaluations (hand tallies) each fall and spring to monitor progress on mode shift goals.
- ◆ Send regular reminders to parents regarding the drop-off and pick-up location options and remind parents to follow instructions given by school staff and roadway signs.



Sign-In Sheet

PROJECT Fremont School Traffic Safety Assessments

SUBJECT Forest Park Elementary

DATE October 25, 2017

Name	Organization/Affiliation	Email Address
Dana Graham	Forest Park Elem	dgraham@fremont.k12.ca.us
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**Fremont School Traffic Safety Assessment
Forest Park Elementary School
Preliminary Cost Estimate**

Alta Planning + Design

6/4/2018

Traffic Safety Improvements - City of Fremont Recommendations

ITEM NO.	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT COST	COST
1	Mobilization	1	LS	\$30,700	\$30,700
2	Traffic Control	1	LS	\$30,700	\$30,700
3	High Visibility Crosswalk	9	EA	\$2,000	\$18,000
4	Sign and Post Assembly	18	EA	\$500	\$9,000
5	Curb Extension & Ramp	4	EA	\$45,000	\$180,000
6	Yield Line	4	EA	\$500	\$2,000
7	STOP Bar and Pavement Marking	7	EA	\$400	\$2,800
8	Trim Vegetation	1	LS	\$500	\$500
9	Rectangular Rapid Flashing Beacons (RRFB) [Optional]	1	EA	\$15,000	\$15,000
10	Expand Existing Sidewalks [Long-term Improvement]	4,000	SF	\$20	\$80,000

ALTERNATIVE 1	SubTotal Items (Optional and Long Term Items Not Included)				\$273,700
	CONSTRUCTION CONTINGENCY			20%	\$54,700
	Total				\$328,400
ALTERNATIVE 2	SubTotal Items (Optional & Long Term Items Included)				\$368,700
	CONSTRUCTION CONTINGENCY			20%	\$73,700
	Total				\$442,400

Traffic Safety Improvements - Fremont Unified School District Recommendations

ITEM NO.	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT COST	COST
1	Mobilization	1	LS	\$100	\$100
2	Traffic Control	1	LS	\$100	\$100
3	Painted Curb Marking	1	LS	\$1,000	\$1,000
	SubTotal Items				\$1,200
	CONSTRUCTION CONTINGENCY			20%	\$200
	Total				\$1,400

Traffic Safety Improvements - All Recommendations

<i>City of Fremont Recommendations (Without Optional Items)</i>	<i>Total</i>	<i>\$328,400</i>
<i>Fremont Unified School District Recommendations</i>	<i>Total</i>	<i>\$1,400</i>
All Recommendations	Total	\$329,800
<i>City of Fremont Recommendations (With Optional Items)</i>	<i>Total</i>	<i>\$442,400</i>
<i>Fremont Unified School District Recommendations</i>	<i>Total</i>	<i>\$1,400</i>
All Recommendations	Total	\$443,800

Forest Park Elementary School DRAFT Fremont

Safe Routes to Schools Improvement Plan

Site Assessment held October 2017



- 1 Deep Creek Road/Maybird Circle (south intersection)**
 - Install three curb extensions at all corners except the northeast corner
 - Upgrade the existing transverse crosswalk across Maybird Circle to high visibility and stripe high visibility crosswalk across north leg of intersection
 - Install rectangular rapid flashing beacon (RRFB) for the northern crossing of Deep Creek Road
 - Install appropriate advanced yield markings dependent on installation of aforementioned treatments
 - Install School Assembly D signs in advance of Deep Creek and Maybird crossings
- 2 Deep Creek Road/Maybird Circle (north intersection)/ Crandallwood Drive**
 - Remove the existing crosswalk across Deep Creek Road at Crandallwood Drive
 - Upgrade transverse crossing across Crandallwood to high visibility crosswalk
 - The City is currently in the process of converting the intersection to all-way stop controlled
- 3 Maybird Circle/Platinum Terrace**
 - Install School Assembly D sign in advance of Maybird crossing
 - Refresh advance stop pavement markings on Platinum Terrace
 - Install advance yield markings on Maybird Circle.
 - Install a curb extension at southwest corner
 - Refresh faded School Assembly B sign
- 4 Maybird Circle/Diamond Common**
 - Trim trees/vegetation in parkway to increase visibility of pedestrians and signs
- 5 Maybird Circle/Shattuck Avenue**
 - Install School Assembly D signs in advance of crossings
 - Refresh "No Stopping Signs" along school frontage
 - Convert transverse crosswalks to high visibility crosswalks
 - Install advance stop pavement markings on all approaches
- 6 Maybird Circle/Fairbanks Common Driveway**
 - Utilizing the existing curb ramps, install a high visibility crosswalk
 - Install advance yield markings
 - Install School Assembly B sign at the crosswalk
- 7 Maybird Circle**
 - Long Term: Consider widening sidewalks along park frontage of Maybird Circle to match the rest of street
- 8 Maybird Circle School Frontage**
 - Refresh red paint along curb in no stopping/parking areas

	Recommended High-Visibility Crosswalk		Recommended Advanced Stop Pavement Marking
	Recommended School Assembly D Sign		Recommended Advance Yield Markings
	Recommended School Assembly B Sign		Existing Speed Humps
	Recommended School Assembly B Sign		Recommended "Use Crosswalk" Sign
	Recommended Raised Crosswalk		Recommended Rectangular Rapid Flashing Beacon
	Existing Crossing Guard Location		Recommended Curb Extension
	Existing Bike Parking		Recommended "No U-Turn" Sign
	School Access Point		Fremont Unified School District Recommendation
	City of Fremont Recommendation		

The above items are recommendations only and based on Safe Routes to Schools site assessment best practices. Feasibility determination, final design, accessibility, funding, and implementation of any recommended improvements is the responsibility of the appropriate governing agency.