



14TH AND VILLANOVA Corridor Improvement Project





Project Introduction



14th & Villanova Project Scope



Design improvements to address:

- Safety measures
- Enhanced bicycle facilities
- Beautification
- Roadway repaving, repair, and drainage improvements

BASELINE PROJECT:

- Striping and signage
- Buffered bike lanes
- Traffic calming features
- Isolated roadway rehabilitation
- Full repaving

ENHANCED DESIGN CONCEPT:

- Median separated bicycle lanes
- Crosswalk improvements
- Bulbouts
- Pedestrian refuge islands
- Traffic calming features
- Lighting
- Landscaping enhancements



Project Timeline





Existing Conditions



Fourteenth Street / Villlanova Drive from F Street to Sycamore Lane

1.2 Mile Corridor

East/West Davis Bike Loop Connector

Mix of Housing and Institutional Uses



View of Villanova Drive from intersection with Sycamore Lane



Villanova Drive looking west towards Reed Street



Tamarack Pathway Connector



Villanova Drive looking east at the curving roadway section



Off-street pathway adjacent to the high school looking west



Crossing the Library/Veterans Memorial Center Driveway







Sycamore Lane approaching Villanova Drive where the Davis Bike Loop pathway exits from Sycamore Park



Villanova Drive looking west in the residential zone west of Anderson Road



14th Street approaching Oak Avenue, Stop Controlled



14th Street looking east adjacent 14th Street looking west to the High School Parking Lot



adjacent to the Veterans Memorial Center



Elementary School Crossing

Stakeholder Feedback



SPEEDING - Cars speeding through the corridor

CONGESTION - Heavy traffic during school start and end times

CARS IN BIKE LANES - Pick-up/drop-off occurring in the bike lanes

INTERSECTION SAFETY - Additional controls and direction to improve safety

DRIVEWAY CONFLICTS - Multiple driveways are difficult to navigate safely

BUS STOP VISIBILITY - Buses block visibility of peds/bikes crossing

TREES AND SHADE - Desire for more shade to improve comfort

PARKING NEEDS - Desire for more school and institution parking

RE-PURPOSE CENTER LANE - This space could be used for other purposes



Corridor Segments



VILLANOVA Sycamore Ln to Anderson Rd

VILLANOVA/FOURTEENTH Anderson Rd to Oak Ave

FOURTEENTH Oak Ave to F St







- Residential
- One travel lane each way
 Bike lanes each way
- Parking both sides
- Multiple driveways provide access to homes

- Residential
- Similar to western segment
- S curve portion narrows with median and eliminates parking on north side
- Multiple driveways per block provide access to homes

- Institutional
- Residential housing on south side accessed from side streets
- Center turn lane





Sycamore Lane to Anderson Road



Typical Sections Looking East



BASELINE

- Buffered Bike Lanes
- Asphalt Raised Pedestrian Crossings near Willow and Orange
- Green Conflict Markings

ENHANCED

- Parking Protected Bike Lanes
- Concrete Raised Pedestrian Crossings/Speed Table near Willow and Orange
- Bulbouts across from Pine and Lemon





Public Feedback



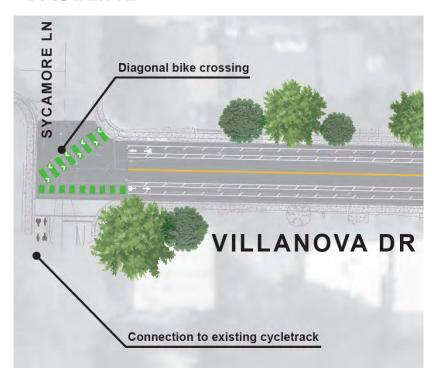




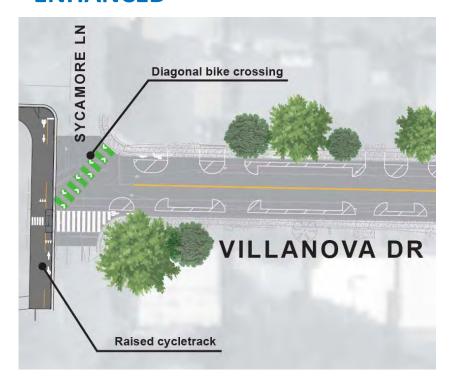
Sycamore and Villanova



BASELINE



ENHANCED



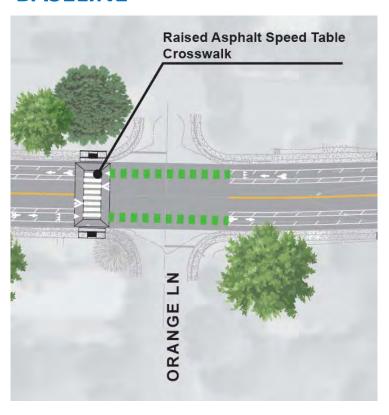
- Offset intersection with Brown to north
- Approach NB on Sycamore towards Sycamore Park and Villanova
- Use of green paint



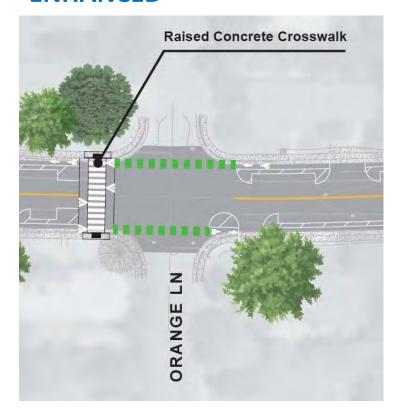
Raised Crosswalks



BASELINE



ENHANCED



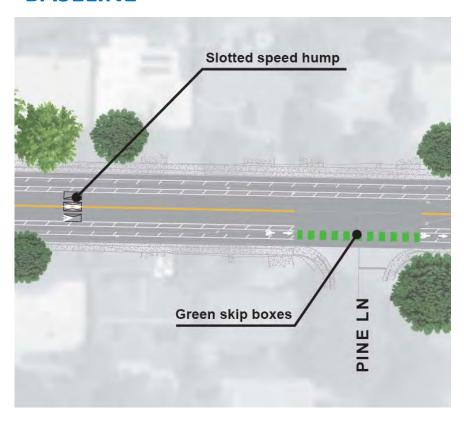
- Crossing at Pine requested
- Mixed feedback on speed tables



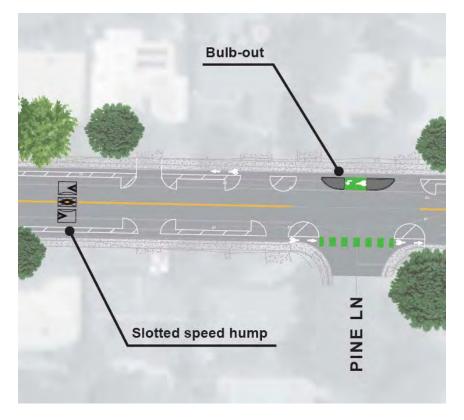
Speed Humps and Bulbouts



BASELINE



ENHANCED



- Biking next to lane
- Access to driveways





Anderson Road to Oak Avenue



Typical Sections Looking East



BASELINE

- Widened WB Bike Lane
- Buffered EB Bike Lane
- Connection to
 Tamarack Lane Path
- Flexible Delineators to Close Gap in Median
- Carob and Toyon Post and Paint Median

ENHANCED

- Raised WB Bike Lane
- Concrete Median to Close Gap
- Curb Extensions at Reed and Redwood





Public Feedback







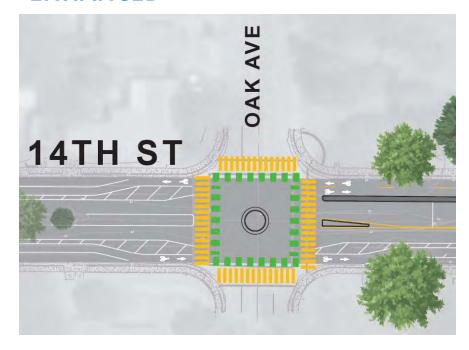
14th and Oak



BASELINE



ENHANCED



- Right Turn Lanes on 14th
- Clarity of Vehicle and Bicycle Movements
- Safe connection from bike lanes to two way cycletrack on north 14th



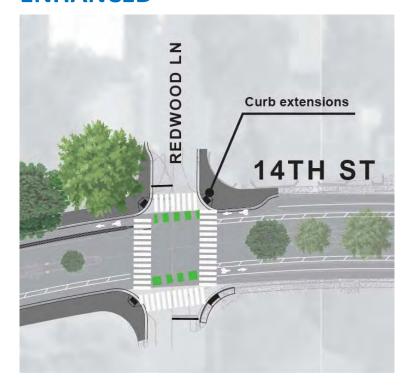
14th and Redwood



BASELINE



ENHANCED



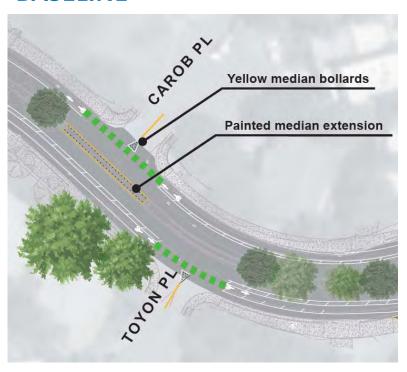
- Key crossing location for kids heading to schools
- Uncontrolled intersection



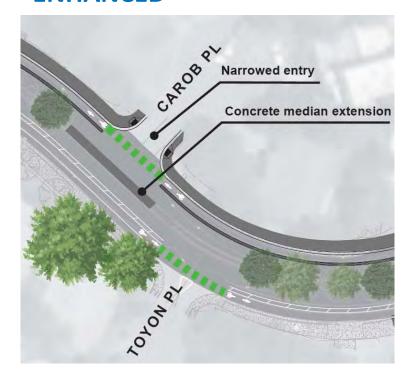
Carob and Toyon



BASELINE



ENHANCED



- Tools for addressing speeding
- Deterring cut throughs and U-turns





Oak Avenue to F Street



Typical Sections Looking East



BASELINE

- Two-Way Cycletrack with Painted Buffer
- Buffered Bike Lane
- Relocate F StreetBus Stop

ENHANCED

- Two-Way Cycletrack with Median
- Relocated High School Parking Lot Entrance
- Raised Crossing at HS Entry





Public Feedback







14th and B



BASELINE



ENHANCED



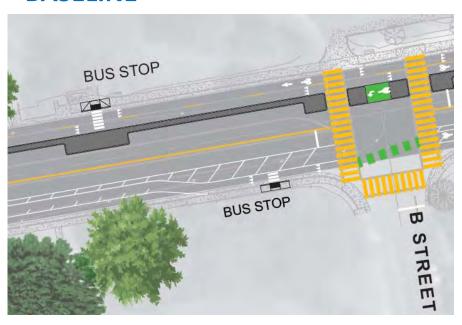
- High Visibility Striping
- Bike movement from two way cycletrack



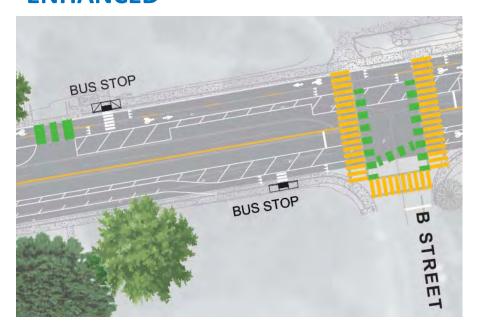
Floating Bus Stops



BASELINE



ENHANCED



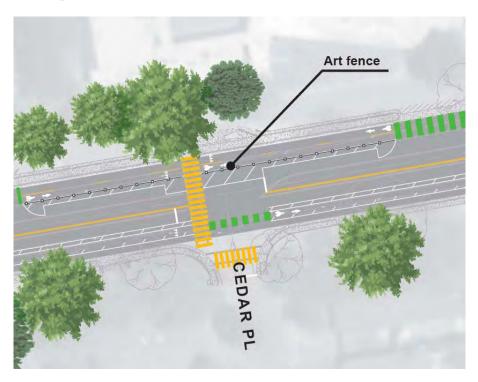
- Bus Stop remains on curb
- Loading in Street
- Bus stops in the travel lane



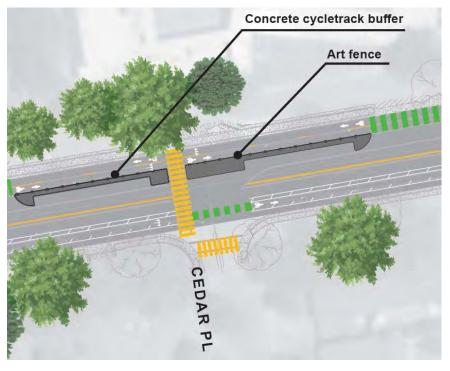
North Davis ES Drop Off



BASELINE



ENHANCED



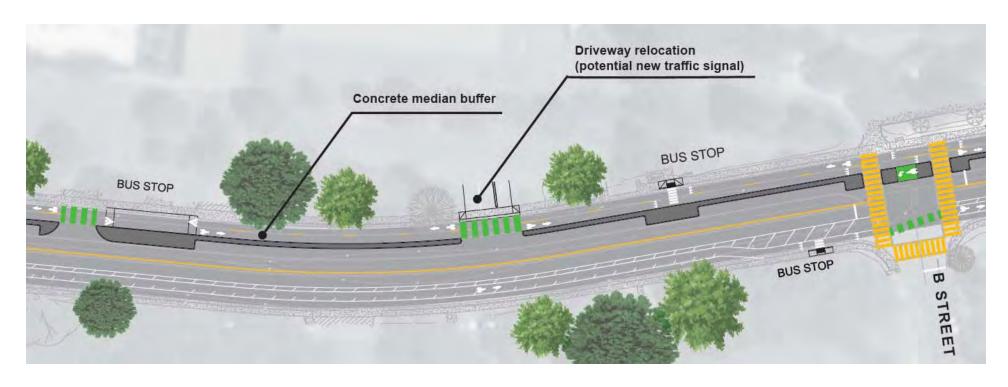
- Drop off area
- Single crossing at existing crosswalk
- Fence to ensure crossing at designated location



HS Parking Lot Driveway



ENHANCED



- Reducing the number of conflicts in and out of driveways
- Consider signal to improve safety for all users
- Better visibility at middle of curve





Planning Level Costs



Planning Level Construction Costs



BASELINE Sycamore to Anderson \$0.32m

Anderson to Oak \$0.40m

Oak to F \$0.57m

TOTAL \$1.29 m

ENHANCED Sycamore to Anderson \$0.62m

Anderson to Oak \$1.10m

Oak to F \$1.40m

TOTAL \$3.12 m







POTENTIAL PHASING STRATEGIES

Build the Baseline with Current Funding

Phase 1: Baseline(\$1.2 m)

Phase 2: Build Additional Enhancements when Funding Available

Build Enhanced with Additional Funds

Phase 1: Oak to F Enhanced (\$1.4 m)

Phase 2: Sycamore to Anderson

Phase 3: Anderson to Oak





Next Steps



Project Schedule



2018 JULY 30% Designs

AUGUST Select One Concept for Final Design

AUGUST Environmental Studies

NOVEMBER Start Final Design

2019 APRIL Complete Final Design
JUNE Construction







14TH AND VILLANOVA Corridor Improvement Project



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Partially Raised Cycletrack



Bend, OR



San Francisco, CA



Hillsboro, OR



Vancouver, BC





Parking Protected Bicycle Facilities



Rosemead Boulevard **Temple City, CA**





Telegrapah Avenue **Oakland, CA**







Bus Stops and Floating Islands



First Street (demo) - Los Angeles, CA



Hearst Avenue – Berkeley, CA



Howard Street - San Francisco, CA



Los Angeles Street – Los Angeles, CA





College Avenue – Modesto Modesto Junior College









