

20 ACTIVE TRANSPORTATION SYMPOSIUM 21 CONNECT. VISUALIZE. TRANSFORM.



Crossroad Lab

Mountain View, CA



San Jose, CA



San Jose, CA



QUICK-BUILD SOLUTIONS
Constructing Vision Zero Projects Rapidly
Social Distancing to Social Cohesion







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Vignesh Swaminathan, PE

CEO and President, Crossroad Lab

Tik-Tok @MrBarricade – Followers 1.1M | 950 M Views

Experience:

- Downtown Operations (City of San Jose)
(Parking, Events, CIP, and Traffic Control)
- Civil Engineer Roadway (MTCO)
(Highways, Structures, Drainage, Civil, Complete Intersections)

Crossroad Lab
(Protected Intersections, ADA, Cycle Tracks, Feasibility, PSE)

- Sustainability Commissioner Chair
(Energy Management, Waste Diversion, LID, Climate Action Plan)
- VTA Citizen Advisory Committee and Measure A Citizen Watchdog Committee Chair
(Transit, Active Transportation, Congestions Management, Funding)



mrbaricade
MrBarricade

9933 Following 880K Followers 29.8M Likes







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We are water based; our system is water based!

Indus Valley Civilization ~2600 BCE



Roman Empire ~150 AD



Lost City of Pompeii ~79 AD

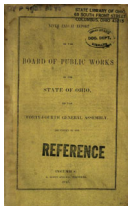
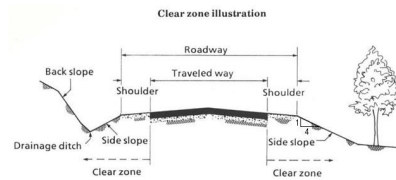


Tamilakam ~500 BCE



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Ohlone Tribes



Santa Clara, CA



Seattle, WA



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San Mateo County
Sustainable Green Streets and Parking Lots Design Guidebook
First Edition | January 2009



NACTO

Wildlife Corridors



Stevens Creek Trail

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Intersection Weaving and Speed Differential



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Cycle Track Buffer Configuration

Parking Lane Configuration

Crosswalk Setback Configuration
Wider corner radii, set back pedestrian crossing, and/or approved bike-way setback, provides opportunity for queue box.

Bike Box Configuration
Bicyclists yield to pedestrians. Not recommended in areas with high pedestrian volumes.

T-intersection Parking Lane Configuration

T-intersection "Jughandle" Sidewalk Configuration

NACTO

Signal Phasing

Through-Through Lane Transitions from Right Turn Only Lane

Right Turn Only Lane

OR

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Protected Intersections

Approach Taper

Setback Bicycle Crossing

Signal Operations

Pedestrian Safety Island

Forward Stop Bar

Yield to Pedestrians

Corner Apron

Corner Safety Island

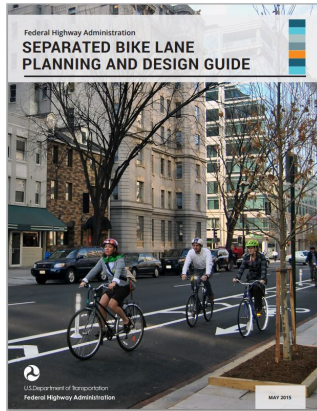
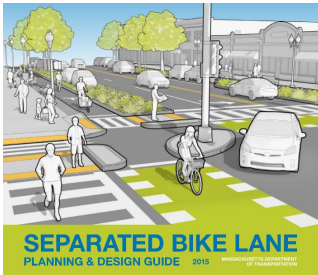
Alta: Evolution of the Protected Intersection

OR

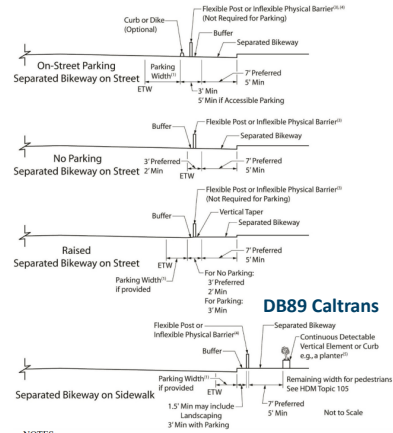
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Typical Class IV Bikeway (Separated Bikeway) Cross Sections



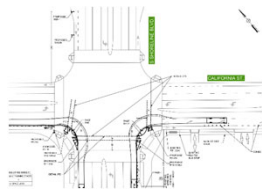
- DB89 Caltrans**
- NOTES:
 (1) See CA MUTCD Section 3B.19 for parking guidance.
 (2) For separated bikeway marking and signing guidance, see the CA MUTCD Part 9.
 (3) May be a raised island in lieu of flexible posts or inflexible physical barriers.
 (4) Flexible posts or inflexible physical barriers may be omitted.
 (5) Periodic openings should be provided for bicyclists to access buildings.



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Mountain View, CA



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DEMONSTRATION

San Jose, CA (New Bart Station)



INTERIM DESIGN

PILOT PROJECT

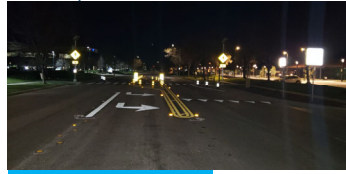
From Pop-Up to Permanent

Mountain View, CA



PERMANENT INSTALLATION

Fremont, CA



PERMANENT INSTALLATION

Cupertino, CA



PERMANENT INSTALLATION

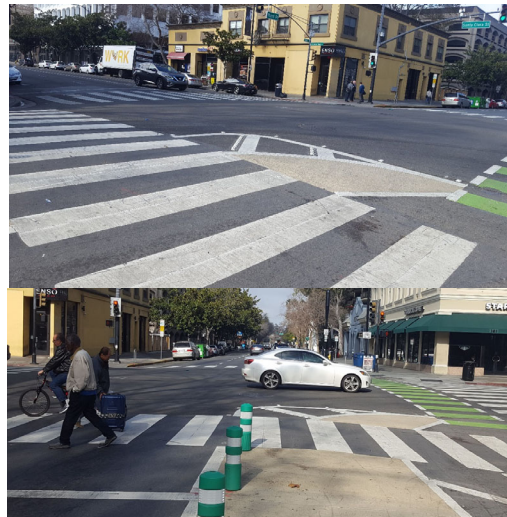
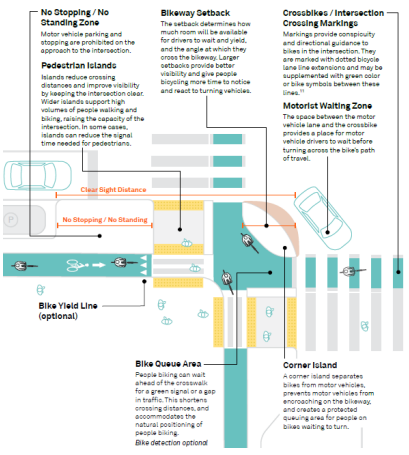


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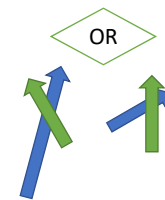
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Protected Intersections



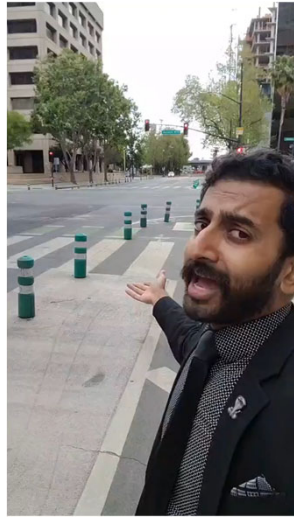
San Jose, CA



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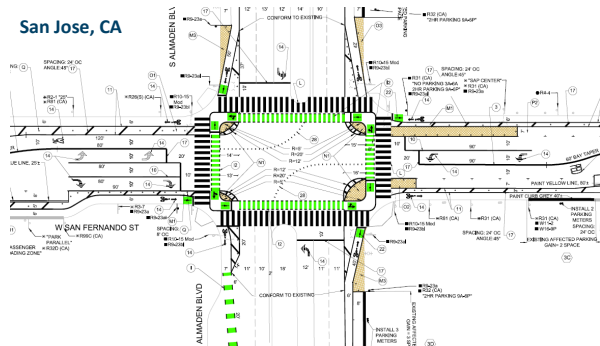
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Sponsored by Knight Foundation
16 Miles, 58 Protected Corners

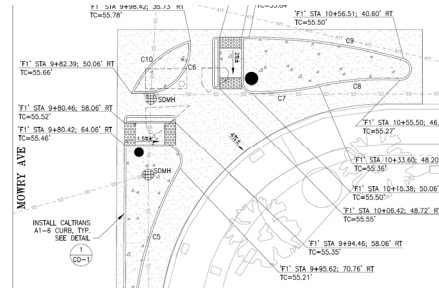
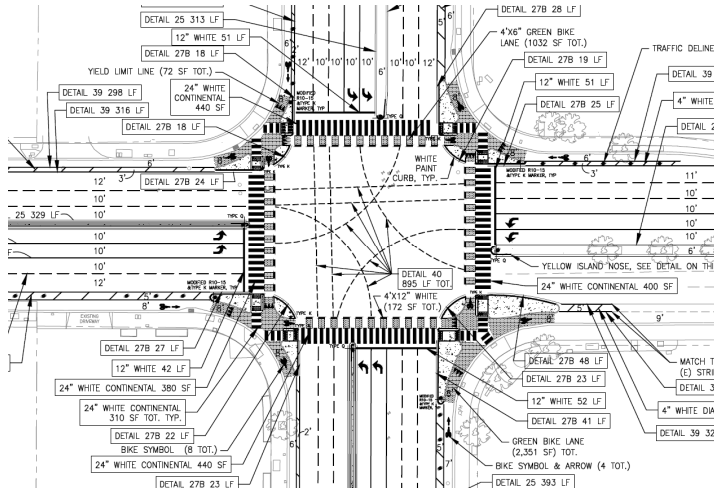


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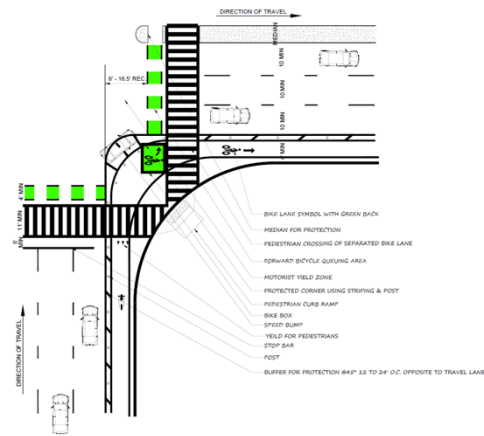
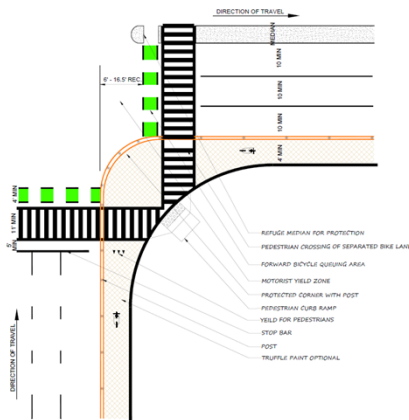
Fremont, CA



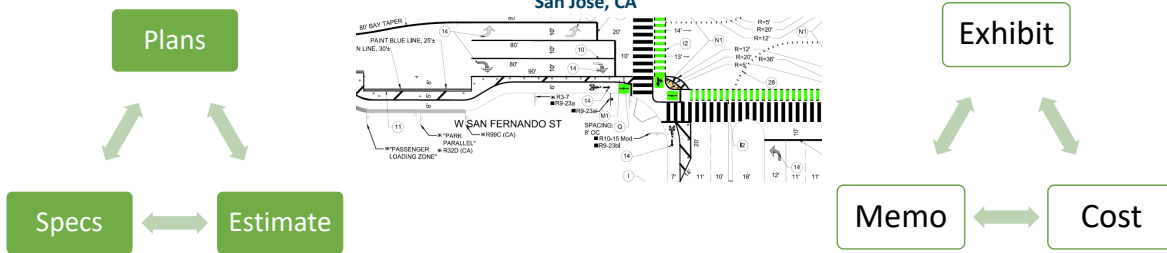
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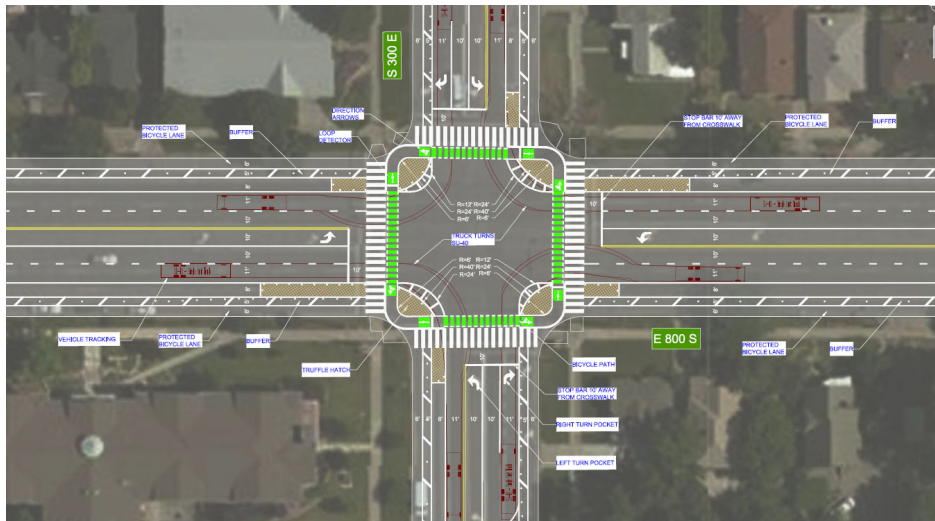
Protected Intersection Modified



Communication in Engineering



Exhibit



Salt Lake City, UT



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Plans

San Jose, CA

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Enable the Leaders and Community

Exhibit ↔ Memo ↔ Cost

Community Leaders + City Staff = Signature Project

City Staff - Community Leaders = On Going projects

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San Jose, CA



San Jose, CA

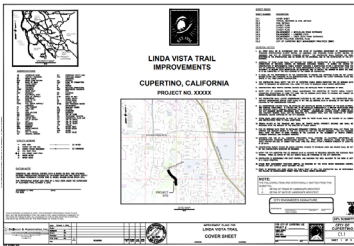


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Enable the Leaders and Community



Cupertino, CA



Fremont, CA



Oakland, CA



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https://www.tiktok.com/@mrbarricade/video/6957080419128937734?sender_device=pc&sender_web_id=6891673433899173382&is_from_webapp=v1&is_copy_url=0



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Emeryville, CA



Part of Pavement Program
12 Miles



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San Rafael, CA



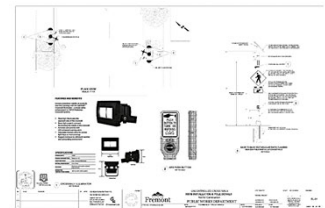
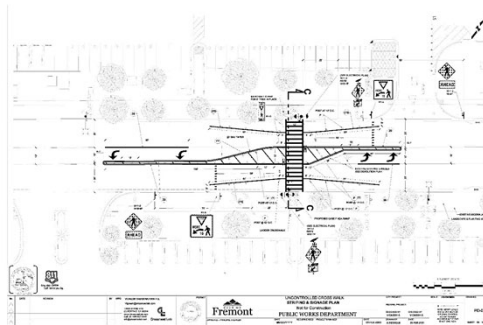
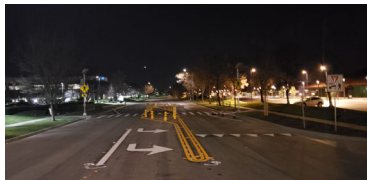
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Fremont, CA



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Crossroad Lab

Quick-Build Questions?

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