

"Quick Build During a Crisis: Constructing Projects Rapidly for Social Distancing, Planning for Social Cohesion"

Vignesh Swaminathan, Crossroad Lab

Thursday, April 9, 12pm-1pm



Crossroad Lab

Quick Build Webinar Agenda

- **1.** What is Quick Build?
- **2.** Introduction to MTC Goals
- **3.** Consultant Presentation
- 4. Moderated Q&A
- **5.** Please fill out Survey Link



What is "Quick Build"?



REVERSIBLE, ADJUSTABLE AND/OR TEMPORARY TRAFFIC SAFETY IMPROVEMENTS



3 BUILDABLE WITHIN DAYS, WEEKS, MONTHS (DEMO, PILOT, INTERIM) 4 DESIGN TESTING AND PROTOTYPING: CAN BE UNDONE!





Bike NWA Pilot Projects; Bella Vista, Rogers, and Bentonville, AR







Quick Build Webinar Goals

- Initiate discussions on how this method can enhance social distancing in all neighborhoods in the Bay Area
- Support quick build as a project delivery method
- Introduce **best practices**

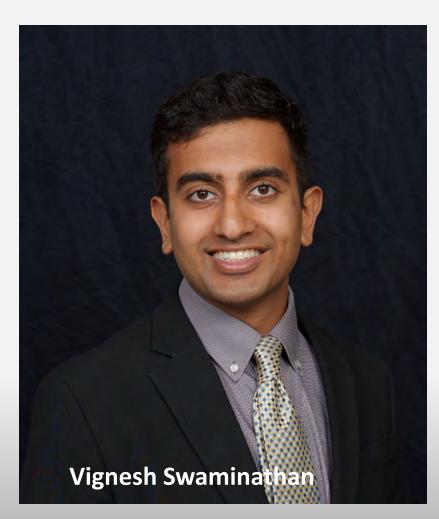


Quick Build Webinar Goals

- Facilitate conversations with local agencies
- Acknowledge that City staff are resource-constrained right now during this public health crisis
- Conduct a survey for needs assessment



Introducing Crossroad Lab





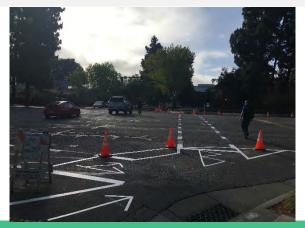
Crossroad Lab





Crossroad Lab

Mountain View, CA







San Jose, CA

Quick-Build During a Crisis Constructing Projects Rapidly for Social Distancing Planning for Social Cohesion

Agenda

- Crossroad Lab What work we do
- City Structure and Project Delivery Types
- Still Planning During a Shutdown
- **Equity Before Covid and Active Transportation**
- Success from San Jose
- Traffic Control Opportunities and Constraints
- Key Steps to Delivery







Crossroad Lab



Explore your city.

Mountain View, CA







Crossroad Lab









Crossroad Lab

- Civil and Transportation Engineering
- Local to Santa Clara County
- SBE, MBE, DBE, LBE
- Focused on Delivering Quick Build and Civil Projects
- Support Planning Effort and Design Review
- 100% Plans, Specs, and Estimate
- Design Build Project Management
- Public, Private, and Non-profit Clients



Project Management and Delivery

Vignesh Swaminathan, PE CEO and President Crossroad Lab

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, CycleTracks, Feasibility, PSE) Sustainability Commissioner

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





Crossroad Lab







Don't Give Up at the Intersection

Designing All Ages and Abilities Bicycle Crossings



NACTO May 2019



Crossroad Lab



San Jose, CA

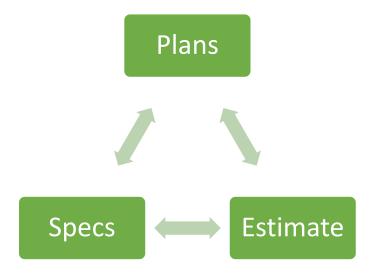
Mountain View, CA

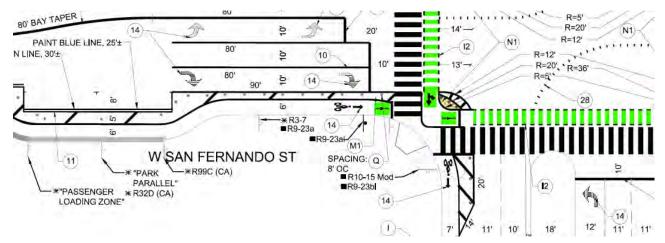


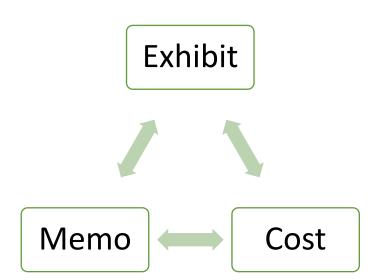




Communication in Engineering

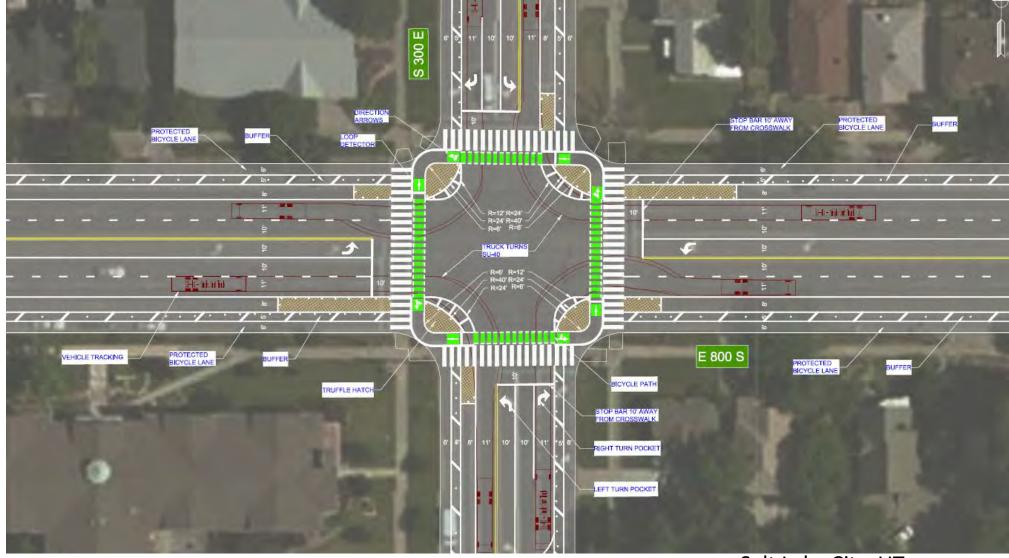








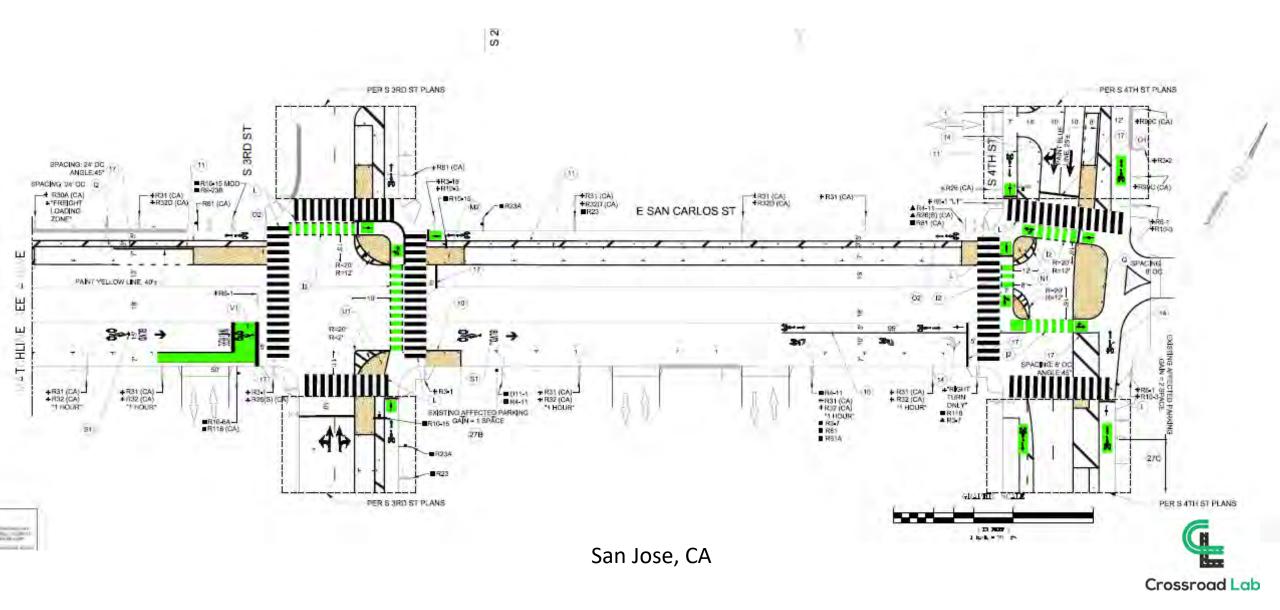
Exhibit





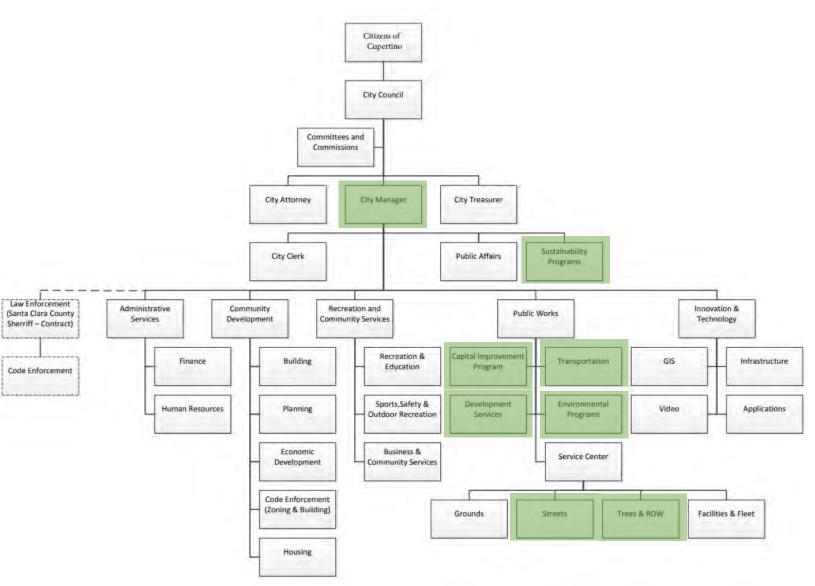
Salt Lake City, UT

Plans



City Structure

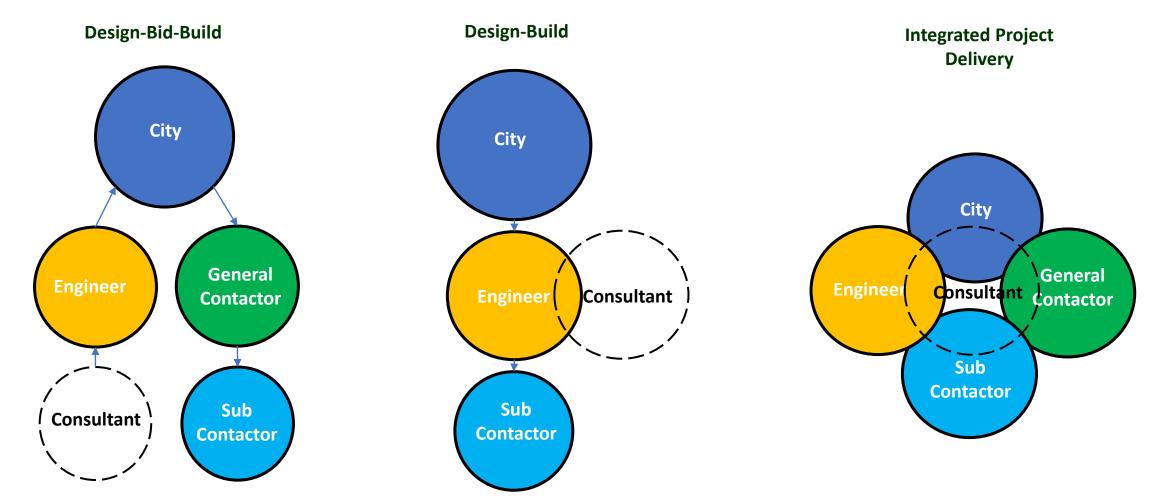
- Projects Stem From
- Grants-CIP
- Operations
- Development
- Maintenance
- Environmental
- Sustainability
- Private Sector
- Advocacy
- Work Order





Project Delivery Methods





100%

From Pop-Up to Permanent



DEMONSTATION San Jose, CA



PILOT PROJECT

Mountain View, CA

Fremont, CA

San Jose, CA (New Bart Station)



INTERIM DESIGN



PERMANENT INSTALLATION

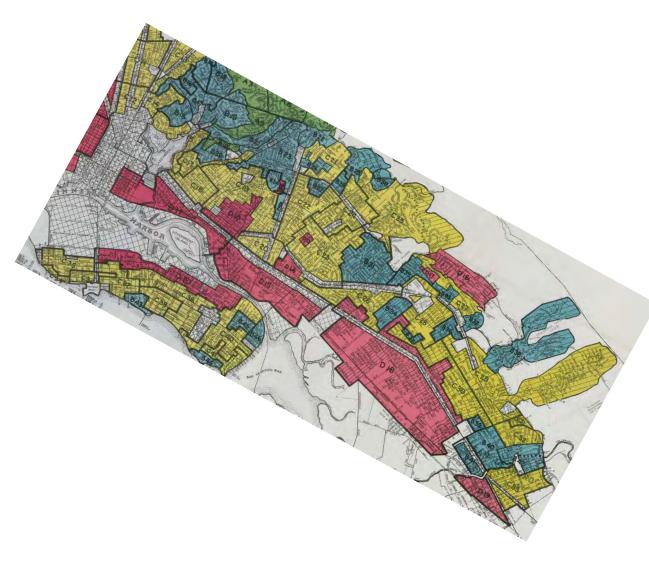
Cupertino, CA

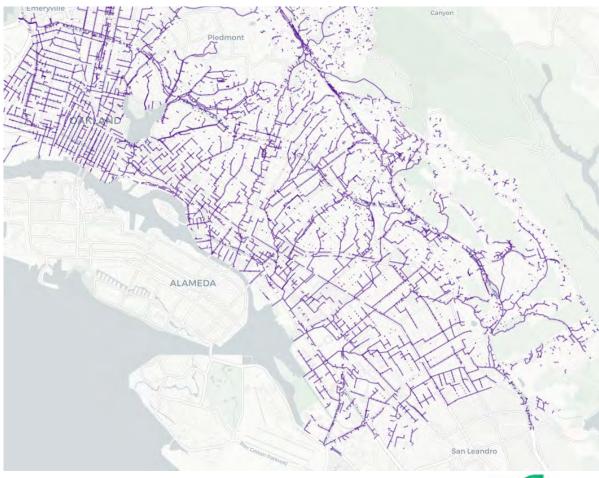




PERMANENT INSTALLATION

Equity Before Covid and Infrastructure

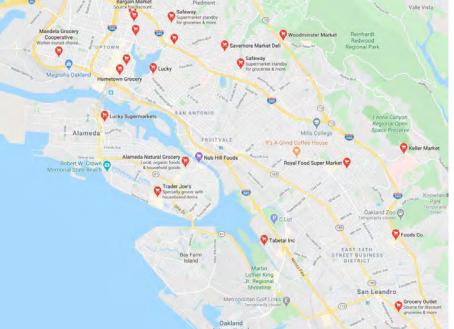






Equity Before Covid and Infrastructure



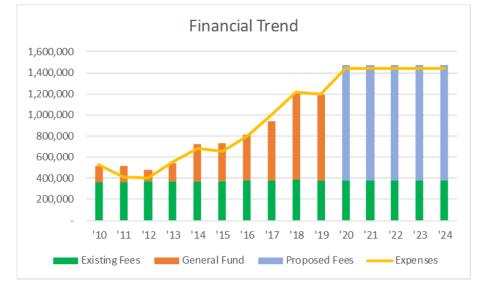


- DOT
 - Lighting
 - Paving
- PW
 - ADA
 - Drainage
 - Street
 Sweeping
 - Utilities
 - Facilities





Equity Before Covid and Infrastructure



San Mateo County

Sustainable Green Streets and Parking Lots Design Guidebook

First Edition | January 2009

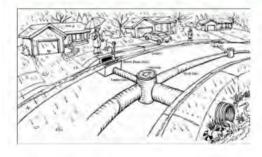




City of Cupertino Stormwater Fees ~\$56 Annually

- Paving
- Street Sweeping
- Stormwater
 - ADA

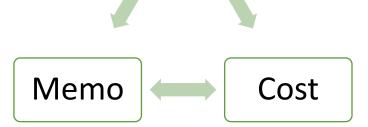
Storm Water Management Fee



2017 Storm Water Management Fee Ballot Measure Passes

In April 2017, Palo Alto property owners voted to approve a new Storm Water Management fee that will replace the City's existing Storm Drainage fee. A typical homeowner will pay about \$13.65 per month, effective June 1, 2017. The Storm Water Management fee will be included on the

monthly utility bill and represents a 62 cent increase for a typical property. The fee was approved by approximately 64 percent of those submitted with 50 percent needed to pass.









Enable the Leaders and the Community





Oakland, CA

Cupertino, CA



Fremont, CA







Cycle Track Buffer Configuration

Parking Lane Configuration



Bike Box Configuration

pedestrian volumes.

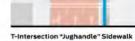
Bicyclists yield to pedestrians. Not

recommended in areas with high

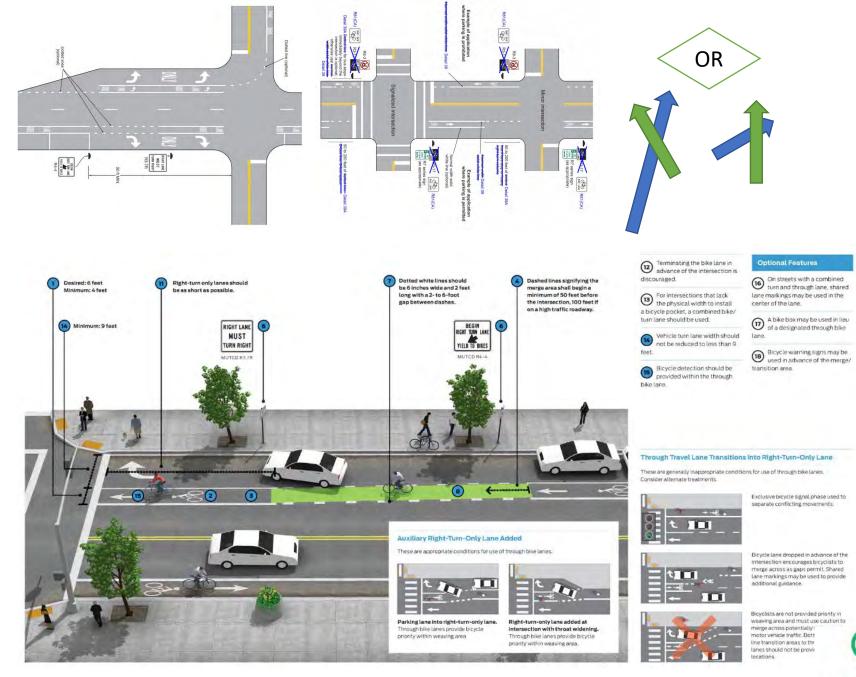
Crosswalk Setback Configuration Wider corner radii, set back pedestrian crossing, and/or narrowed bikeway space, provides opportunity for queue box.



T-intersection Parking Lane Configuration

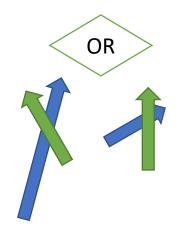


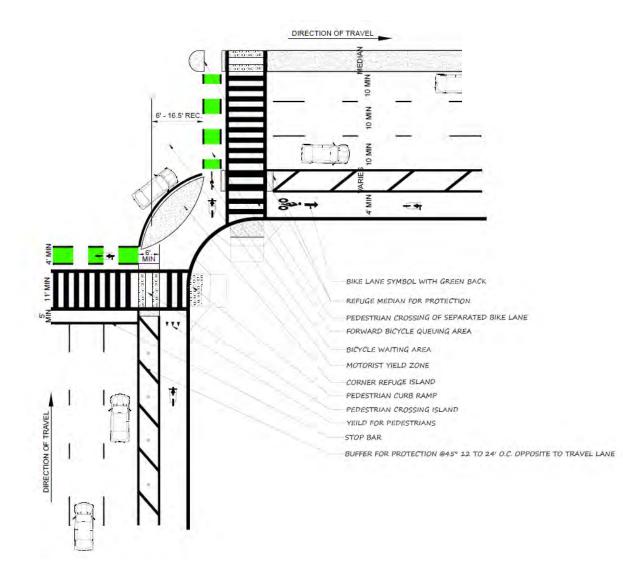
Configuration



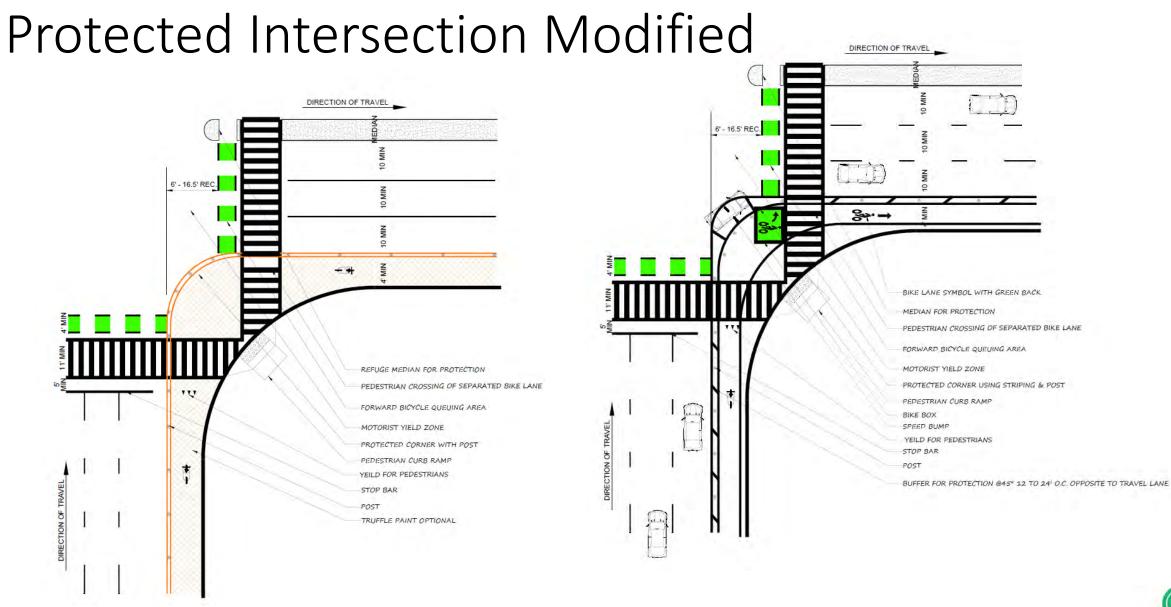
Crossroad Lab

Protected Intersections



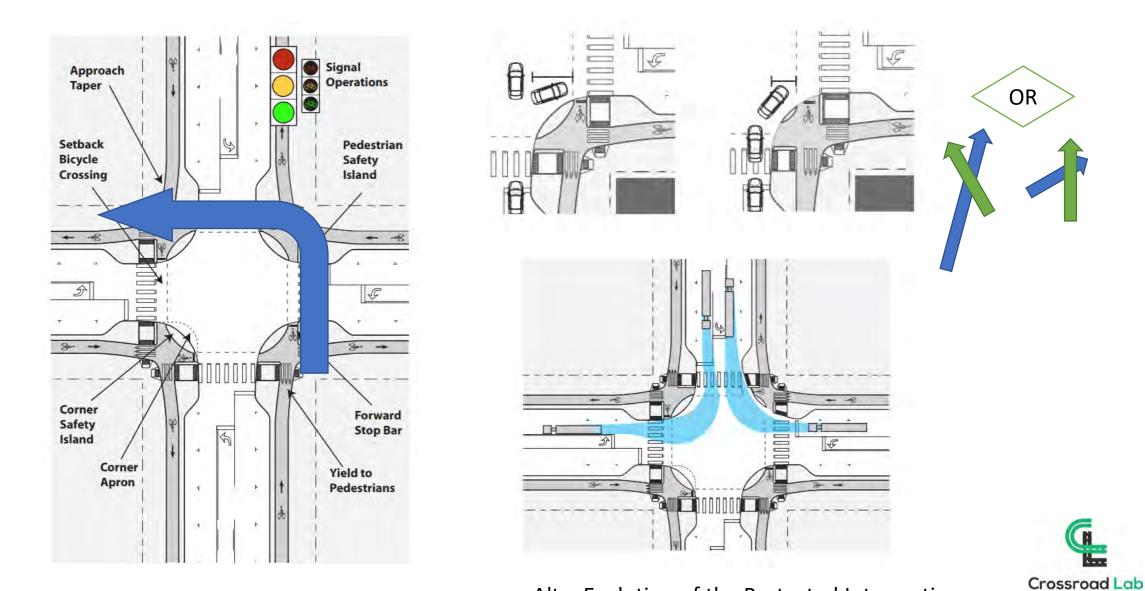








Protected Intersections



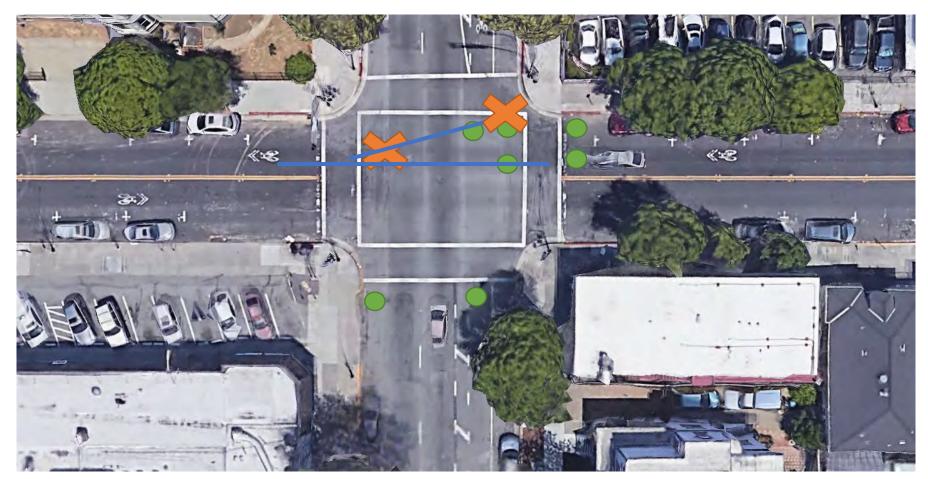
Alta: Evolution of the Protected Intersection





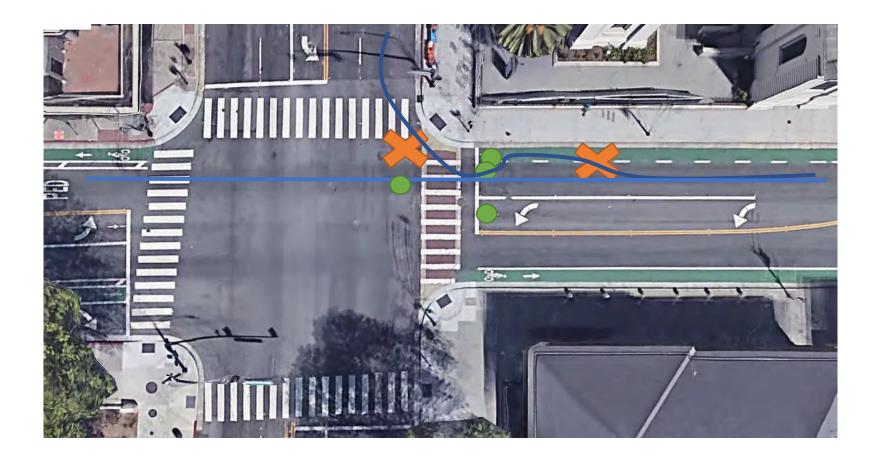


Bike Route Approach



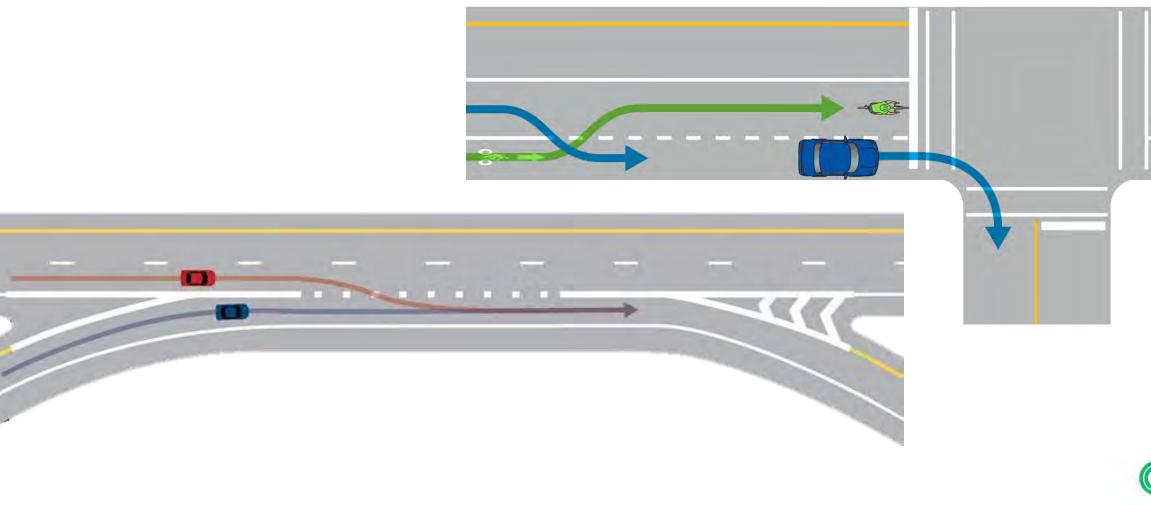


Bike Lane Approach





Intersection weaving and Speed Differential

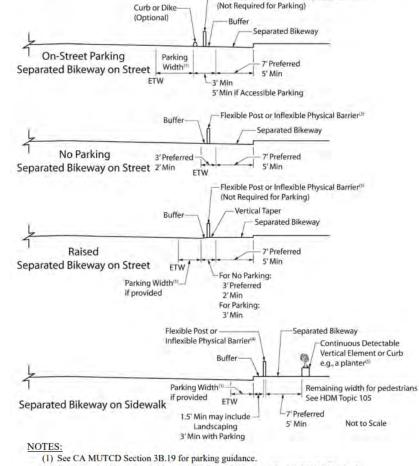






California Department of Transportation

Highway Design Manual



Typical Class IV Bikeway (Separated Bikeway) Cross Sections

- Flexible Post or Inflexible Physical Barrier^{(3),(4)}



Federal Highway Administration

SEPARATED BIKE LANE



11-1.1

(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.



Incorporating On-Road Bicycle Networks into Resurfacing Projects





Don't Give Up at the Intersection

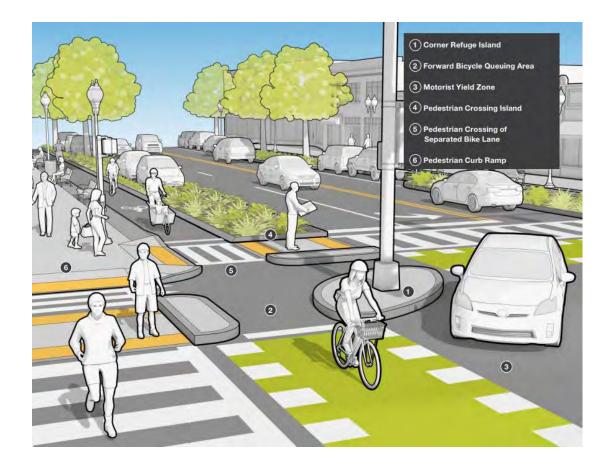
Designing All Ages and Abilities Bicycle Crossings



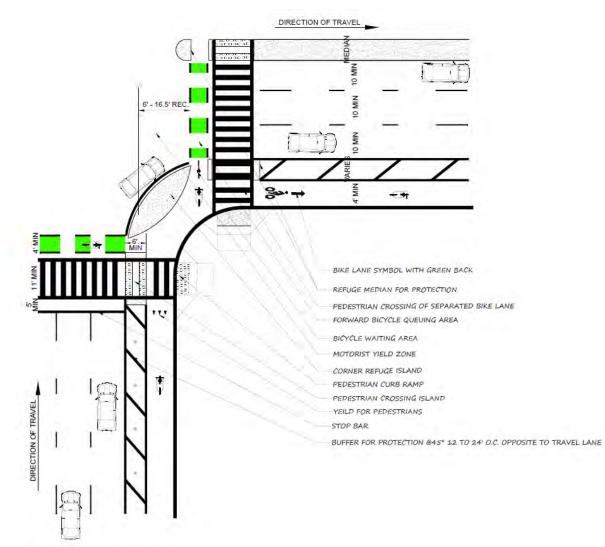


May 2019



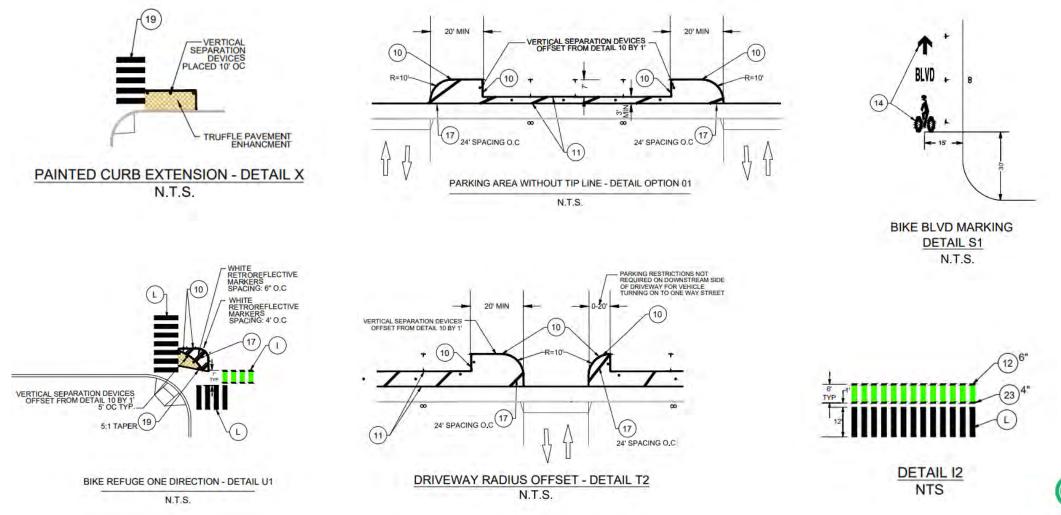


MASS DOT Separated Bikeway Guidance



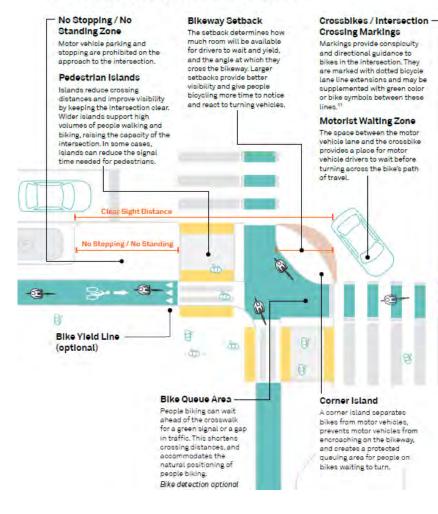


Build a Menu of Options

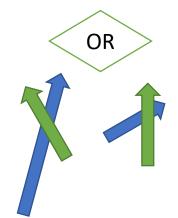


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Protected Intersections



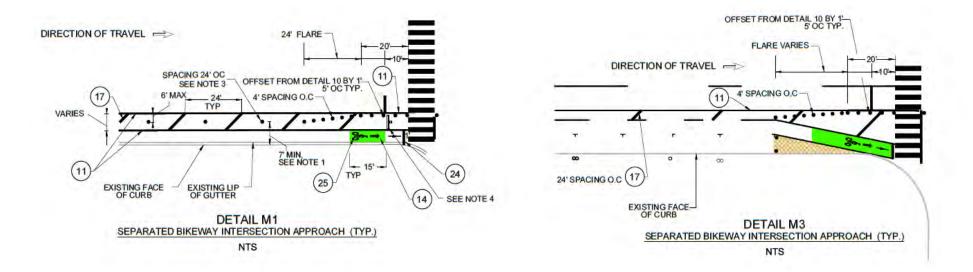


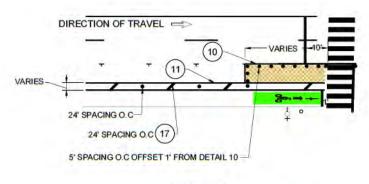






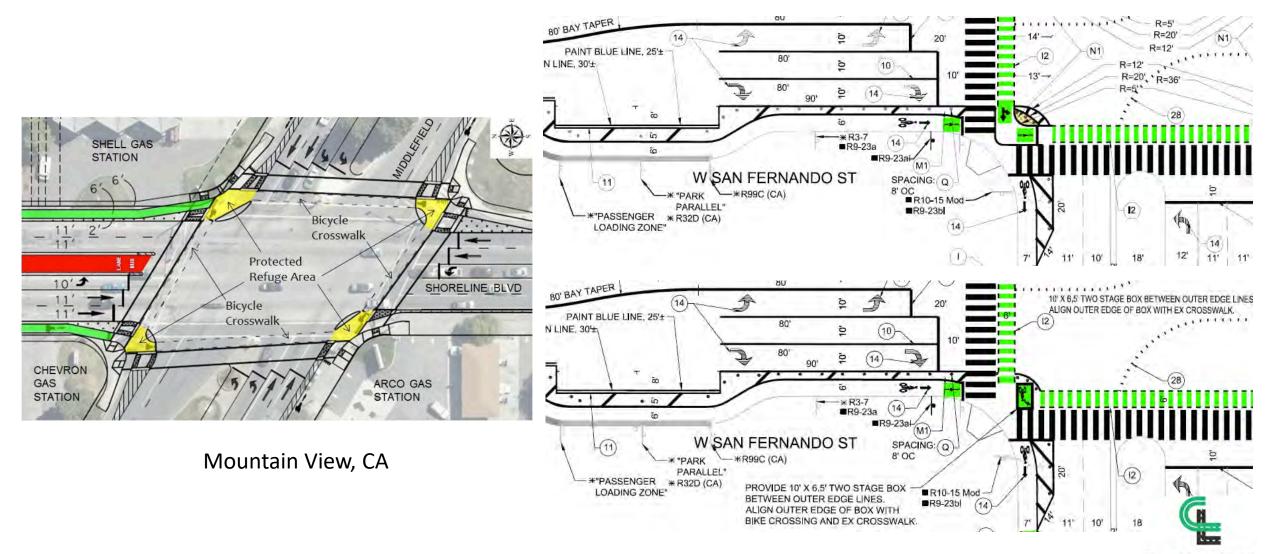
Cycle Track Approach





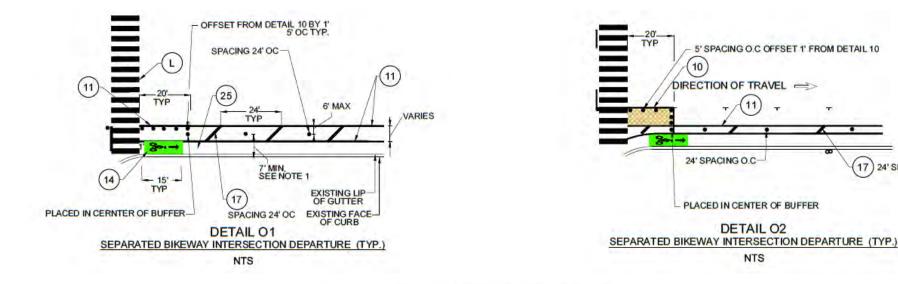






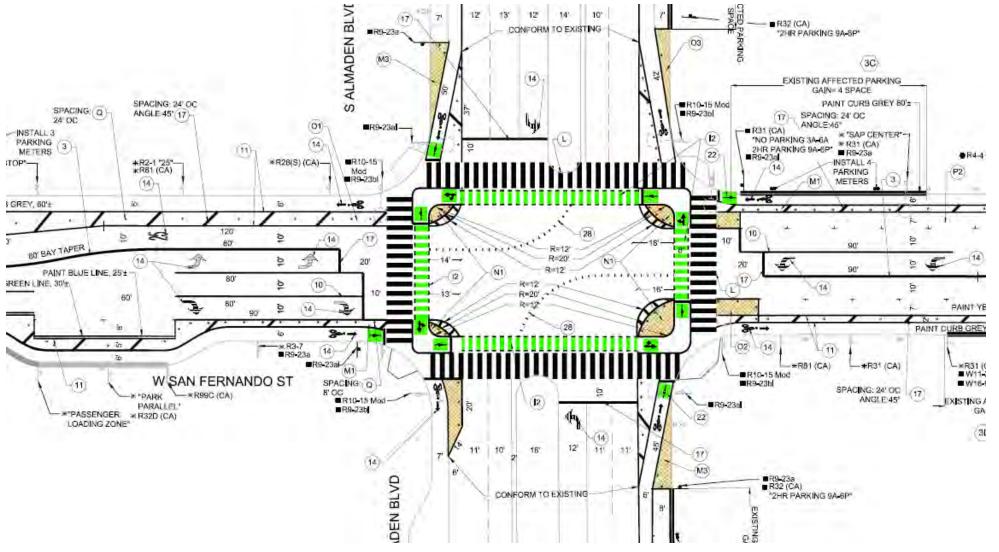
Crossroad Lab

Cycle Track Departure



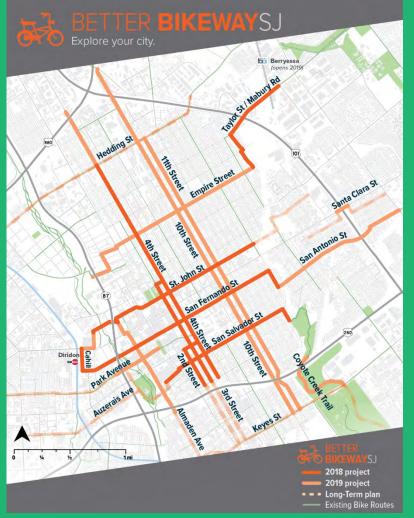


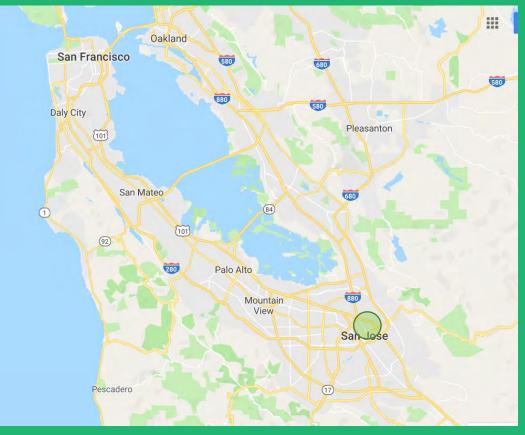
17) 24' SPACING O.C



Crossroad Lab

Design Build - Delivering Transportation Networks



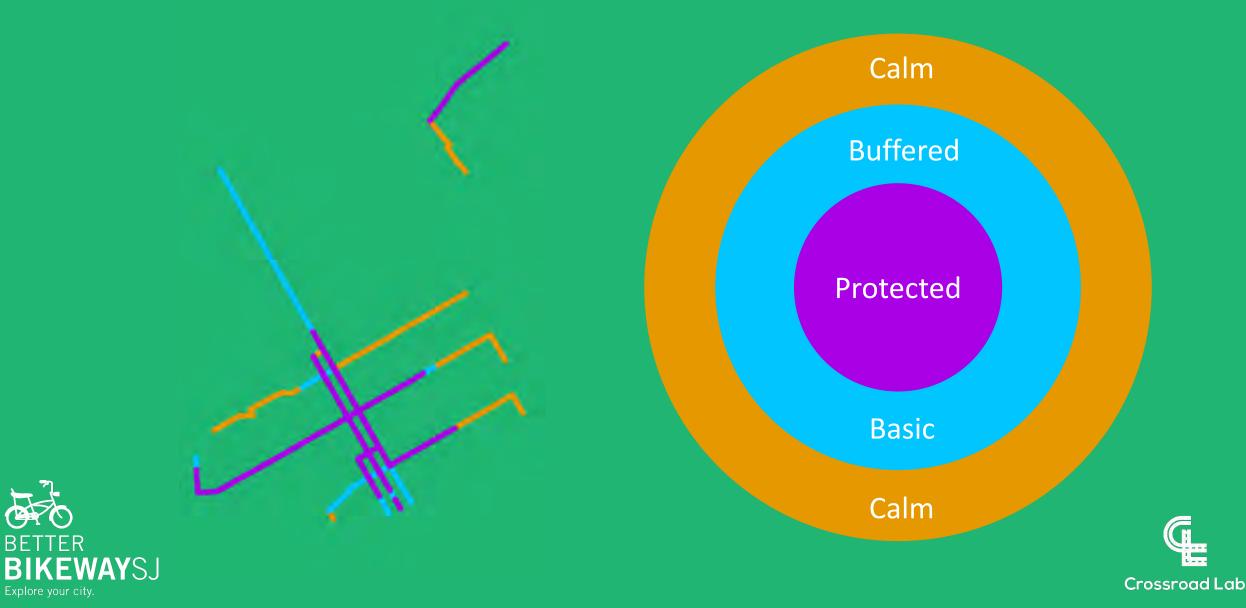


~1.5 Mile Radius

Crossroad Lab



Context Helps Select Facilities



All Ages and Abilities Network 2016 2018

2020



BETTER

BIKEWAYSJ









From Network Vision to Conceptual Design



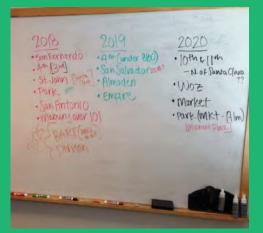


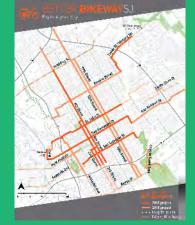


















Outreach Events, Meetings, & Partners

- Pop-up Bikeway & Media Coverage
- 12 Community Meetings
- 20+ Neighborhood & Stakeholder Meetings
- Website & Social Media
- Survey (~600 responses)
- Project Postcards
- Business Flyering
- Freight Loading Truck Turns
- Fire Access
- ADA Outreach



 Vietnamese and Spanish Meeting Material



The Word on the Street



How to make a right turn 00 BETTER in a protected intersection BIKEWAYSJ sanjoseca.gov/ Explore your ally betterbikeways ///////// 111 M Turn around the corner Don't turn through the island. Yield to bicyclists crosswalk & crossbike. and pedestrians.





The Word on the Street

Follow

Follow

ts as paving & the future

batience and

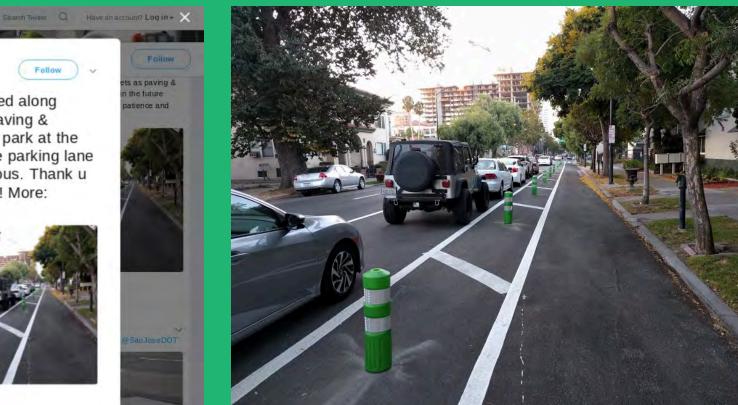
City of San José Department of Tr... SWICHE @ SanJoseDOT

These green posts will b installed along #BetterBikewaySJ streets as paving & striping wrap up. Until then, plz park at the curb as usual. Bike in the future parking lane & buffer area. Plz be xtra cautious. Thank u for ur patience and cooperation! More: sanjoseca.gov/betterbikeways



7:33 PM - 13 Sep 2018 10 Retweets 15 Likes 🕘 🙆 🚯 🕼 🌑 🐲 🍼 🍈

& City of San José, San Jose Downtown, SV Bike Coalition and 6 others t] 10 () 15 0 2



San Jose, CA





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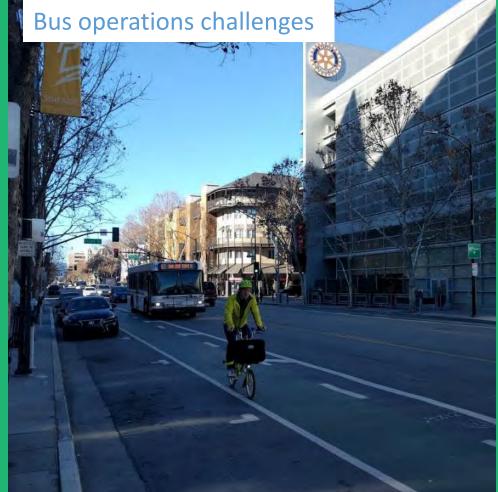
Worldwide tr #Emmys

#TheVoiceBras 82.4K Tweets Game of Thro 41.5K Tweets

#EmmyAwards Seahawks Claire Foy Matthew Rhy: #EmmyTNT

Russell Wilso

Protected Bikeways and Transit











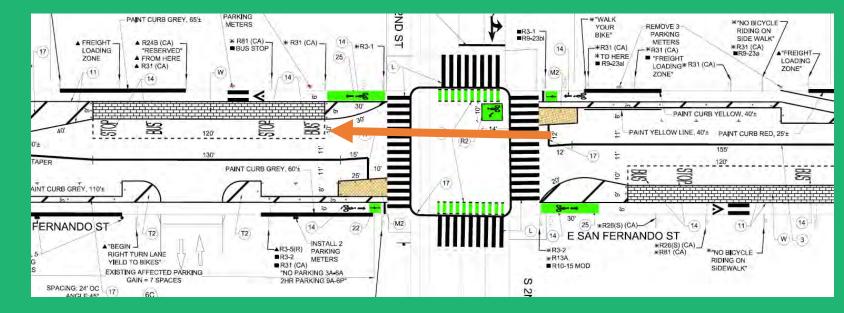


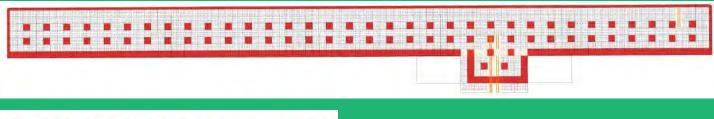


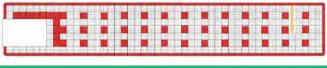




System Basics















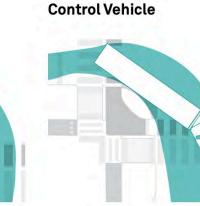
Toronto, Canada



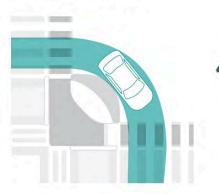


New York, NY

Design Vehicle and the second se



Managed Vehicle





THERMAL DETECTION

WHY THERMAL?

oncoming traffic.

SYSTEM ACTIVATIONS

The pedestrian thermal sensor uses infrared heat profiles to identify vulnerable road users moving within targeted detection zones to activate TAPCO Pedestrian Crosswalk Systems.

The sensor's ability to detect directionality and presence serves a vital function as it reduces false detections caused by people walking away from the crosswalk or bicycles traveling parallel to

Thermal imaging cameras see in total darkness, through shadows and sun glare, providing reliable detection 24/7

Versatile functionality dependent upon need, with many possible zones and configurations

* Accurate detection utilizing infrared heat profiles

Easily integrates with user-actuated system options



Through and turning traffic are given the green light. Turning traffic yields to pedestrians already in the crosswalk.

PEDESTRIAN THERMAL SENSOR

EXAMPLE OF PEDESTRIAN THERMAL DETECTION

USE PED SIGNAL R9-5

Sign image from the Manual of Traffic Signs -http://www.thafficsign.ur This sign image copyright Richard C. Moeur. All rights neerved.

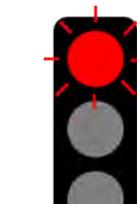
Phase 2: Pedestrians and cars

Major Street Phases Minor Street Phases Ø2 Ø3 Ø4 O Ring Ø6 Ø7 Ø8 Ø5 Ring Barrier Barrier





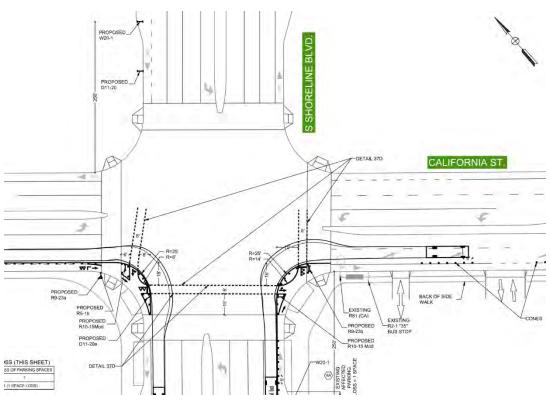






POP-UP PILOT SV BIKE SUMMIT 2019





Mountain View, CA



• K71 (\$100)



• Dezignline BikeRail (\$250)



• Zicla Zebra (\$60)



• Zicla Vectorial (\$40K)







Vertical separation K71 (\$100)



DURA CURB (\$80)



BIKE RAIL (\$80)



ZICLA ZEBRA (\$30)





Vertical separation

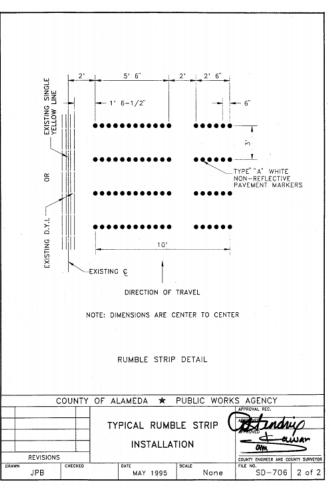
RUBY LAKE GLASS (\$17 SF)



THERMOPLASTIC (\$14 SF)



ALAMEDA RUMBLE (\$80)





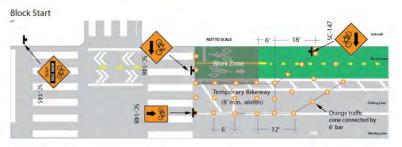
3M ROADWAY TAPE (\$1.5/LF)



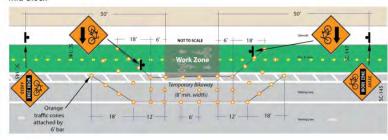
WATER BARRIERS \$350



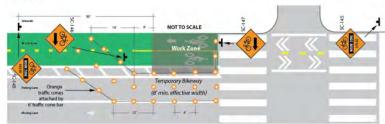
Standardize Everything

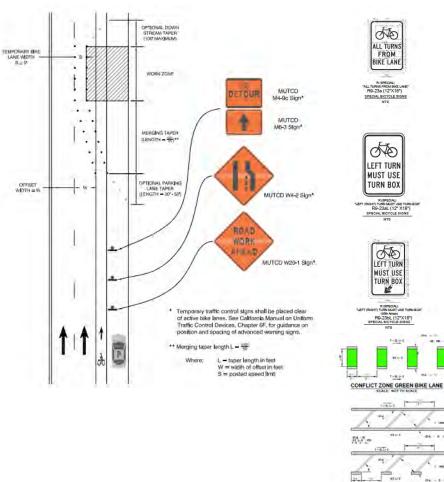


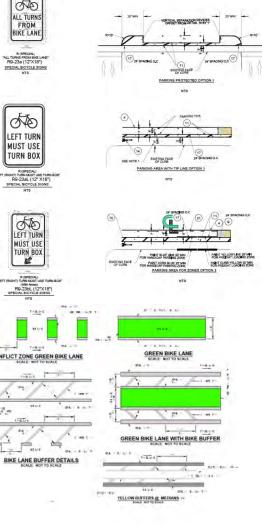
Mid-Block



Block End







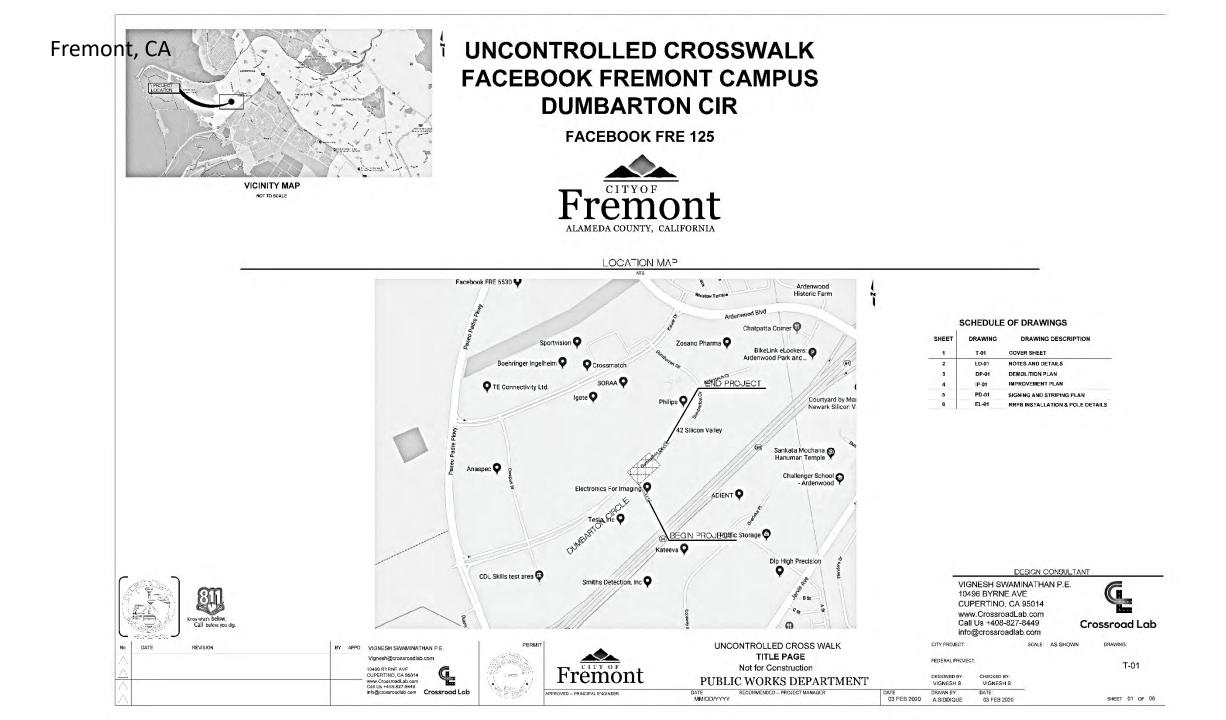




Fremont, CA







GENERAL NOTES LOCATION OF EXISTING FACULT IS WERE TAKEN PARTIALLY FROM RECORDS AND MAY BE INCOMPLETE. THE Fremont SHALL DETERMINE THE EXACT OF ALL UTILITIES PRIOR TO ANY EXCAVATION OR TRENCHING IN THEIR 43885 SOUTH GRIMMER BOULEVARD



7. REFER TO OTHER SHEETS FOR ADDITIONAL NOTES AND LEGENDS PERTAINING TO SPECIFIC ITEMS OF WORK

SIGNAGE AND STRIPING NOTES

- 1. ALL NEW SIGNING, STRIPING, AND PAVEMENT LEGENDS SHALL CONFORM TO THE LATEST PROVISIONS OF THE CALIFORNIA MU TO D AND STANDARD PLANS. AND THE CITY OF FREMONT STANDARD DETAILS.
- 2. THE CONTRACTOR SHALL PROVIDE FULL PEDESTRIAN AND BICYCLE ACCESS DURING CONSTRUCTION.
- 3. REFER TO OTHER SHEETS FOR ADDITIONAL NOTES AND LEGENDS PERTAINING TO SPECIFIC ITEMS OF WORK.
- 4. ALL EXISTING SIGNING SHOWN IS TO REMAIN, UNLESS OTHERWISE NOTED, LOCATION OF EXISTING SIGNS, STRIPING IRR AND PAVEMENT MARKINGS ARE APPROXIMATE ONLY. LAT
- 5. ANY EXISTING STRIPING CONFLICTING WITH THE FINAL STRIPING SHALL BE REMOVED BY SANDBLASTING.
- 6. ALL TRAFFIC STRIPES, ONES, AND SIGN POSITIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION
- 7. DIRECTIONAL ARROWS SHALL BE INSTALLED 1D PRECEDING THE UMIT LINES.
- 8. ALL NEW STRIPING AND PAVEMENT MARKINGS SHALL BE THERMOPLASTIC WITH HIGH NIGHT VISIBILITY.
- 9. THE QUANTITIES OF THE NEW STRIPING SHOWN ARE APPROXIMATE.

NOTES

No.

1. LOCATION OF POLES. PULL BOXES. AND EQUIPMENT ARE SCHEMATIC UNLESS OTHERWISE NOTED BEFORE. BEGINNING ANY CONSTRUCTION OPERATION, THE CONTRACTOR SHALL CHECK FOR CONFLICTS WITH UNDERGROUND UTILITIES. OVERHEAD UT1UTIES, OR OTHER OBSTACLES. IF EQUIPMENT OR POLES MUST BE RELOCATED. THE ENGINEER MUST APPROVE THE NEW LOCATION PRIOR TO INSTALLATION

2. PULL BOXES SHALL BE NO. 5 UNLESS OTHERWISE NOTED.

- NEW SIGNAL POLES SHALL BE LOCATED IN THE PRESENCE OF THE ENGINEER. LOCATION SHALL BE APPROVED BY THE ENGINEER PRIOR TO EXCAVATION.
- 4. POLES SHALL BE A MINIMUM OF 30" FROM THE FACE OF CURB AND A MINIMUM OF 31 SIDEWALK CLEARANCE SHALL BE PROVIDED FOR WHEELCHAIR ACCESS AND PEDESTRIAN TRAFFIC.
- 5. ALL PEDESTRIAN PUSH BUTTONS SHALL BE LOCATED 38" FROM GROUND LEVEL AND SHALL HAVE 2 DIAMETER ACTUATORS.
- 6. REFER TO SIGNAGE AND STRIPING PLANS FOR SIGNS ON STANDARD POLES.



	Call before you dig.				
DATE	REVISION	ВҮ	APPD	VIGNESH SWAMINATHA Vignesh@crossroadlab.co	
				10496 BYRNE AVE CUPERTINO, CA 95014	Ø
				www.CrossroadLab.com Call Us +408-827-8449	٦

CALTRANS STANDARD PLANS (2015)

- ACRONYMS AND ABBREVIATIONS (SHEET 1 OF 2) ACRONYMS AND ABBREVIATIONS (SHEET 2 OF 2) PAVEMENT MARKERS AND TRAFFICUINES, TYPICAL DETAILS PAVEMENT MARKERS AND TRAFFIC LINES - TYPICAL DETAILS PAVEMENT MARKERS AND TRAFFIC LINES - TYPICAL DETAILS PAVEMENT MARKERS AND TRAFFIC LINES - TYPICAL DETAILS
- PAVEMENT MARKINGS ARROWS PAVEMENT MARKINGS - ARROWS
- PAVEMENT MARKINGS SYMBOLS AND NUMERICAL
- PAVEMENT MARKINGS WORDS PAVEMENT MARKINGS - WORDS AND CROSSWALKS
- CURB RAMP DETAILS CURB RAMP AND ISLAND PASSAGE WAY DETAILS
- TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON MULTILANE CONVENTIONAL HIGHWAYS
- ES-1A ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)
- ES-1B E\$-10 ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS

W16-9P

24' X 12'

AHEAD

.......

W16-7P

24" X 12"

IERI

PERMIT

R1-5

36" X 36

STATE

 ∇

TO

次

RIPH"

R1-6 12' X 44"

- ES-5C ELECTRICAL SYSTEMS (ACCESSIBLE PEDESTRIAN SIGNAL AND PLISH BUTTON ASSEMBLES) ELECTRICAL SYSTEMS (FLASHING BEACON ON A TYPE 1. TYPE 15-FBS, AND TYPE 40 STANDARD) ELECTRICAL SYSTEMS (FLASHING BEACON ON A TYPE 1. TYPE 15-FBS, AND TYPE 40 STANDARD)
- ES-7J ES-11

ABBREVIATIONS AB/ASB

BC

C8G, C/G

ČĹ₹ CONC

ELEC

EP

CR D/W, DWY

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info@crossroadlab.com Crossroad Lab

FLUORESCENT YELLOW-GREEN

A10A

A103 A20A

A203 A20C

A20D A24A A24B A24C A24C A24C A24C

A88A

A583

T11

ALAMEDA COUNTY FLOOD CONTROL &

IATIONS									
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			SL TYP	STREET LIGHTING					
	; EX	ISTING LUMINAIRE	116	TYPICAL					
		EXISTING PULL BOX / METER							
		EXISTING MANHOLE							
	PR	PROPOSED SIGN & POST							
	FL	ASHING BEACON SYSTEM							
	PR	PROPOSED YIELD LINE PER DETAIL Y							
	PR	OPOSED CHEVRON STRIPING DE	TAIL						
	PR	PROPOSED K71 POST (WHITE & YELLOW)							
		EXISTING HYDRANT							
		EXISTING LEFT / RIGHT							
		PROPOSED LEFT / RIGHT							
		CALTRANS STRIPING DETAIL NUMBER / DRAWING DETAIL LETTER							
		INSTALL 8" YELLOW LINE ZICLA ARMADILLO UNITS (WHITE & YELLOW)							
		EXISTING PAINT REMOVALS							
	CR	OSSWALK ILLUMINATOR							
				SU LODG DOG DIT					

FLUORESCENT

W11.2

30" X 30"

VELLOWAGREEN

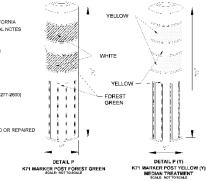
CITYOF

Fremont

APPROVED - PRINCIPAL ENGINEER

LIGHTING NOTES:

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD PLANS (2015) MILTOD AND CALIFORNIA SUPPLEMENT, CITY OF CUPERTING STANDARD SPECIFICATIONS, STANDARD DETAILS, AND THESE GENERAL NOTES
- 2. ALL POLE LOCATIONS SHALL BE VERIFIED BY CITY TRAFFIC ENGINEER OR DESIGNEE PRIOR TO DIGGING OF ANY FOUNDATIONS, CONTRACTOR SHALL ARRANGE FOR INSPECTION OF PROPOSED POLE LOCATIONS BY THE STAFE, CONTRACTOR SHALL GIVE NO LESS THAN THREE (3) WORKING DAYS NOTICE TO THE ENGINEER PRIOR TO EXPECTED POLE FOUNDATION INSTALLATION DATE
- 3. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL EXISTING UNDERGROUND UTILITIES.
- WEATHER OR NOT THEY ARE SHOWN ON THESE PLANS. THE CONTRACTOR SHALL CONTACT USA 811 (800-277-2600) AT LEAST 48 HOURS PRICE TO BEGINNING WORK, WHERE MARKING ARE NEAR PROPOSED FOUNDATION. THE CONTRACTOR SHALL LOCATE UNDERGROUND UTILITIES BY POT HOLING PRIOR TO EXCAVATING.
- EXISTING IMPROVEMENTS. INCLUDING SUBSTRUCTURES. THAT ARE DAMAGED BY THE CONTRACTOR. WHICH ARE NOT DESIGNATED BY THE PLANS OR SPECIFICATIONS TO BE DISTURBED. SHALL BE RESTORED OR REPAIRED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- 6. ALL NEW CONDUCTORS SHALL BE MARKED FOR PROPER IDENTIFICATION OF THEIR INTENDED FUNCTION.



SIGN POST SHALL BE MANUFACTURED BY UNISTRUT CONFORATION, PARTING, 18512 (134 K 13 14 BA, GALV, POST OR APPROVED EQUAL

DISTRIBUTION BY ZUMOR

ODLPH STREET. LOS

CONFORMING AS IN A525 G90 COATING

DUSTRIES, NO. 63

GALVANIZED FINISH TO

LEEVE SHALL BE AND

RASE SHALL BE C? X 2' X 30"

13/4

WEIGHT= 1.45 LB

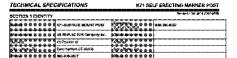
12 GAL GALV, STEEL.

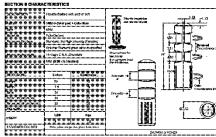
12 GA, GALV, STEEL

SO-23

- 2 14" SCUARE

ANCELES, CA 90041.





SECTION BI: BENEFITS SHIT FULLOUT ANCHORNING: The SCH-Eneling Model: Post across soully into a slower. The stores (out if 6026) is coupled to be reaching by use of an adhesing node, scoolaing weights from and brenching initiation.

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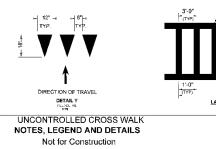
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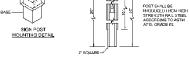
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K71 MARKER POST INSTALLATION





RIVETS WIT

ADJACENT SIDF

FINISHED

GRADE

SLEEVE -

5-C5.DWG

205" SCHEDULE

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υc METAL TRAFFIC SIGN INSTALLATION

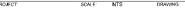
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03 FEB 2020

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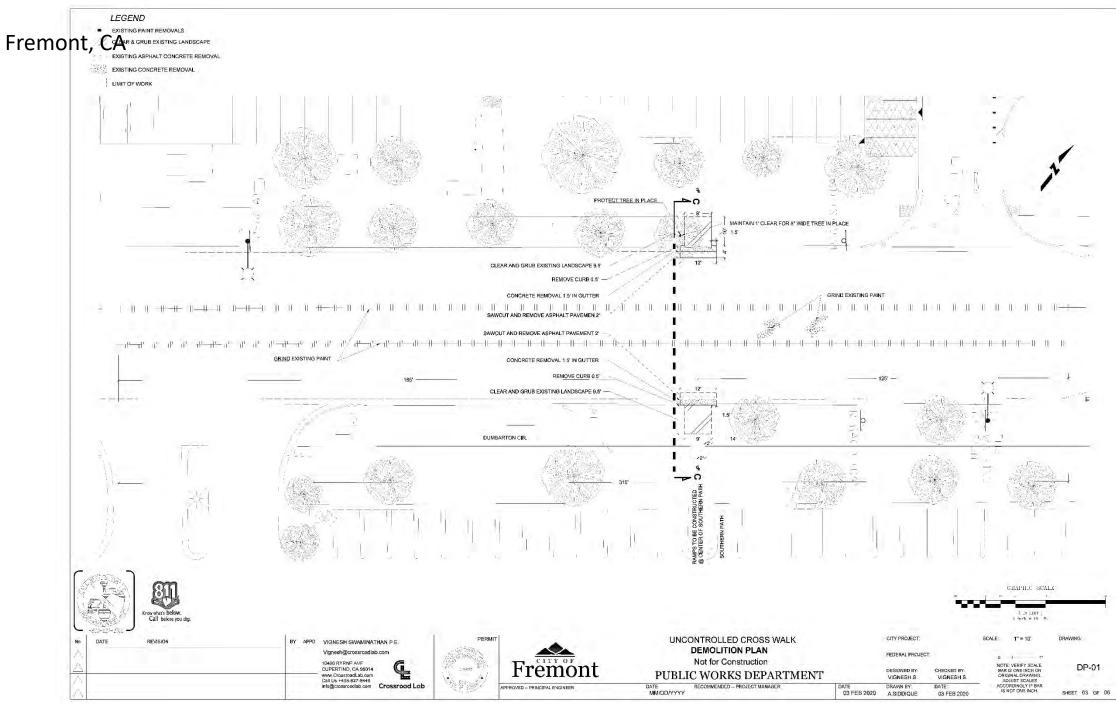
FEDERAL PROJECT DESIGNED BY: CHECKED BY:

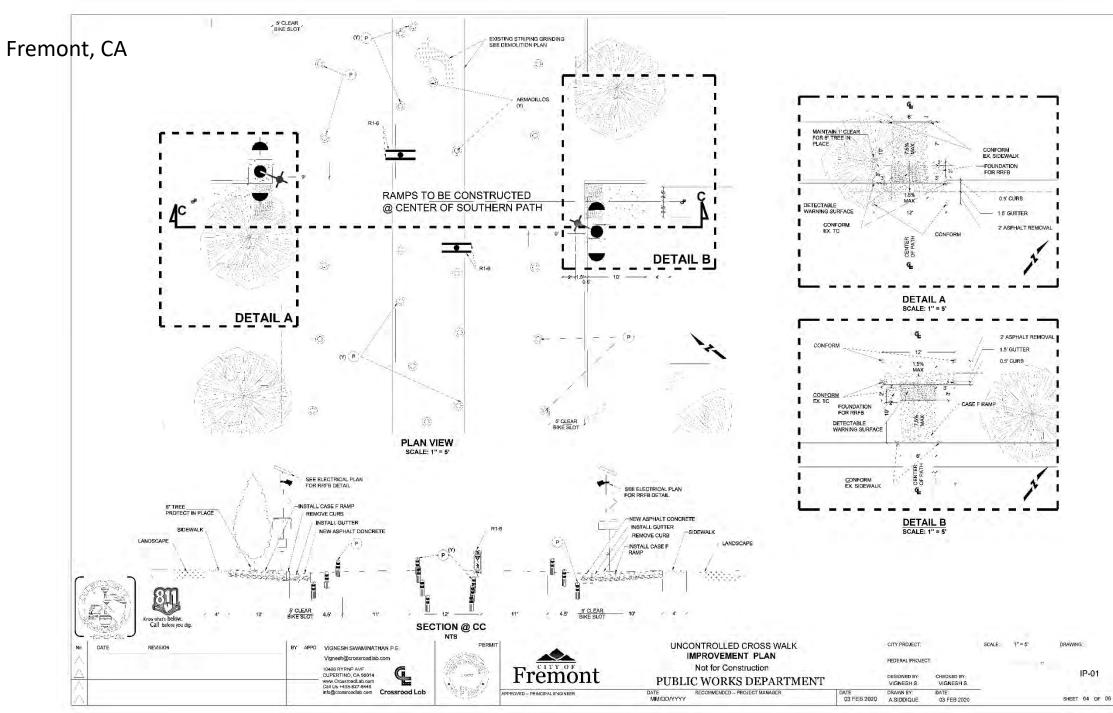
PUBLIC WORKS DEPARTMENT VIGNESH S DRAWN BY 03 FEB 2020 A.SIDDIQUE

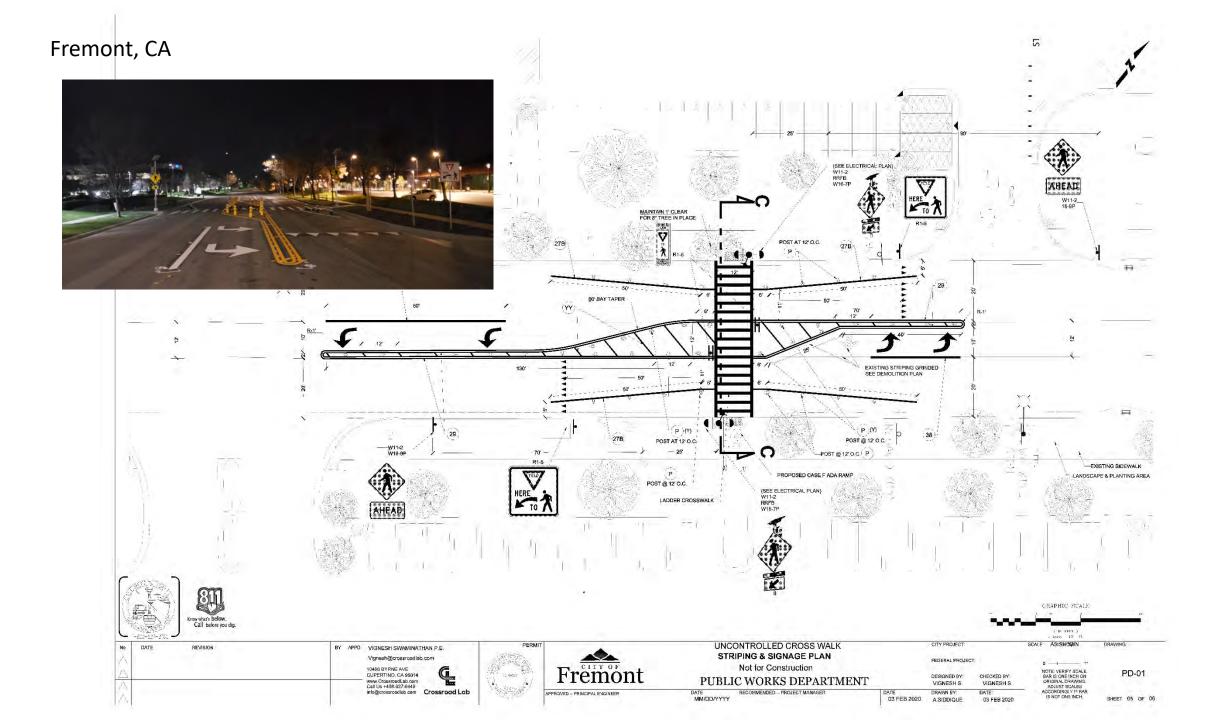
RECOMMENDED -- PROJECT MANAGER

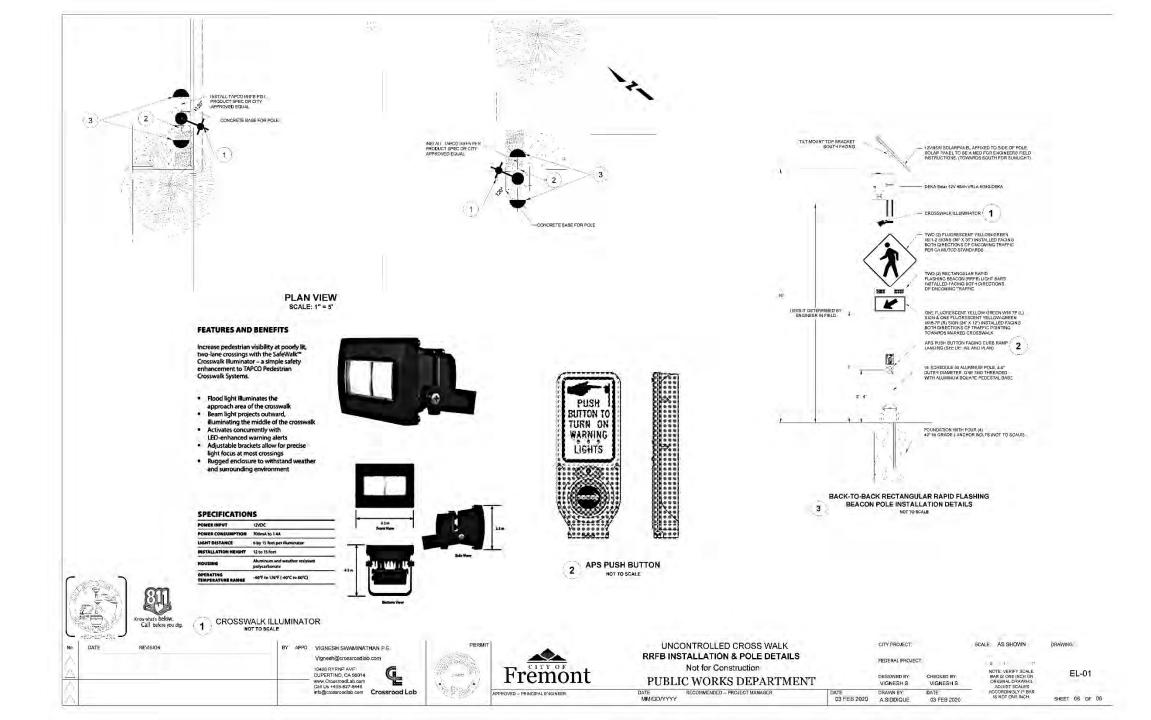
SHEET 02 OF 06

LD-01

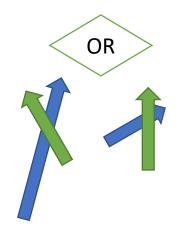


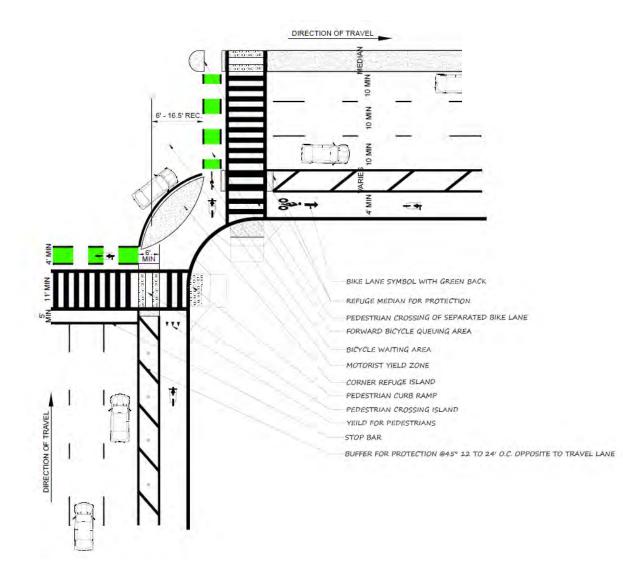






Protected Intersections







Edge of Travelway



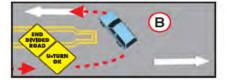
San Jose, CA

Two sets of solid double yellow lines spaced 2 feet or more apart are considered a barrier. Do not drive on or over this barrier, make a left turn, or a U-turn across it, except at designated openings (see diagram).

HOV

Enter and Exit

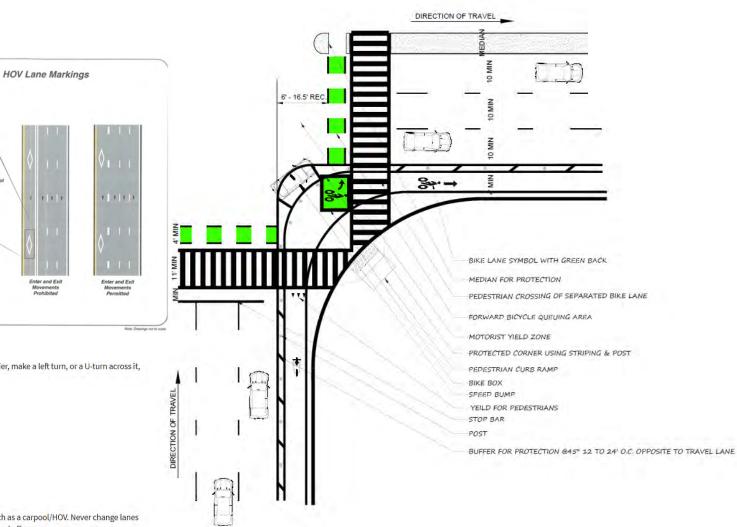
Movements Prohibited



Solid white lines mark traffic lanes going in the same direction, such as one-way streets.

Broken white lines separate traffic lanes on roads with two or more lanes in the same direction.

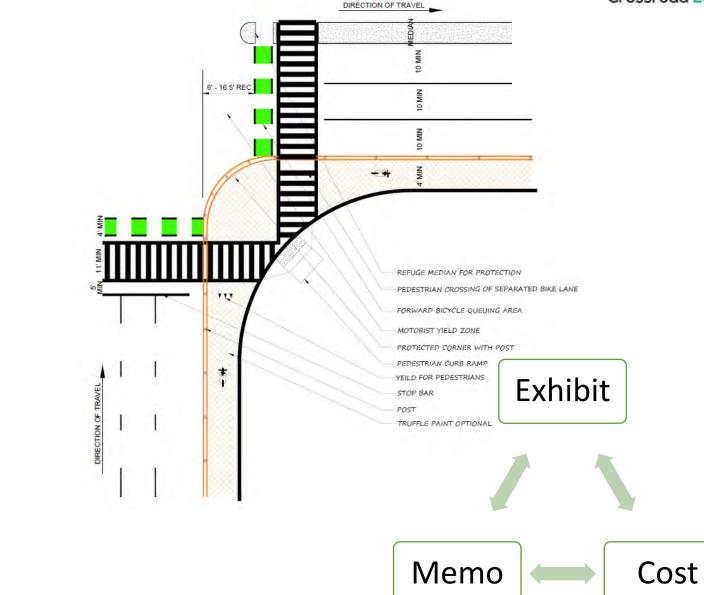
Double white lines are two solid white lines that indicate a lane barrier between a regular use and a preferential use lane, such as a carpool/HOV. Never change lanes while in these lanes; wait until a single broken white line appears. You may also see these parallel lines in or near freeway on and off ramps.



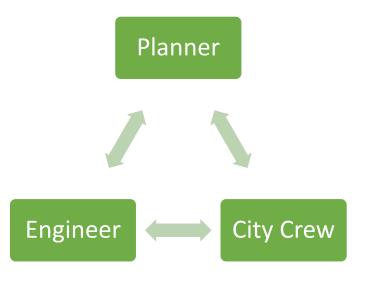


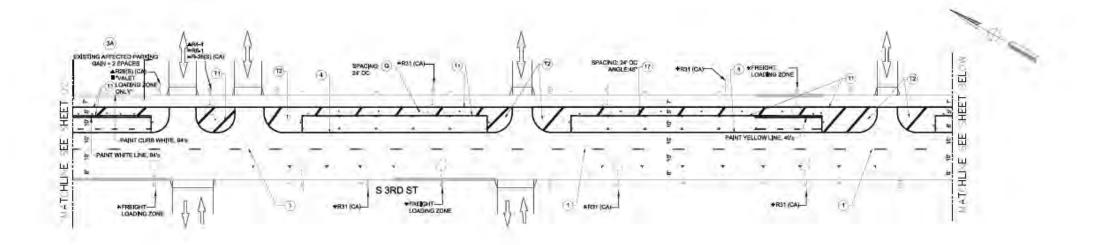
Protected Intersection Modification

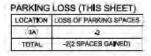


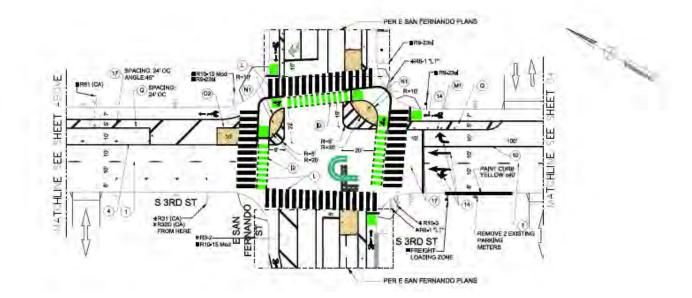


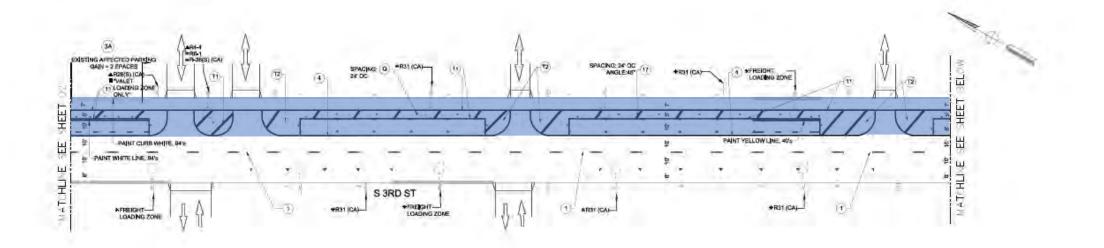
- Defines Edge of Travel with Engineering
- Allows space for future PBL or Art
- Write policy that this is Temporary
- Does not Affect Drainage
- Allows for the Trusting of users
- Requires Engineer in field to verify

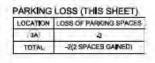


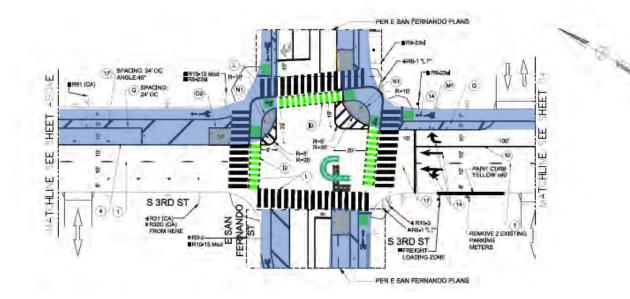




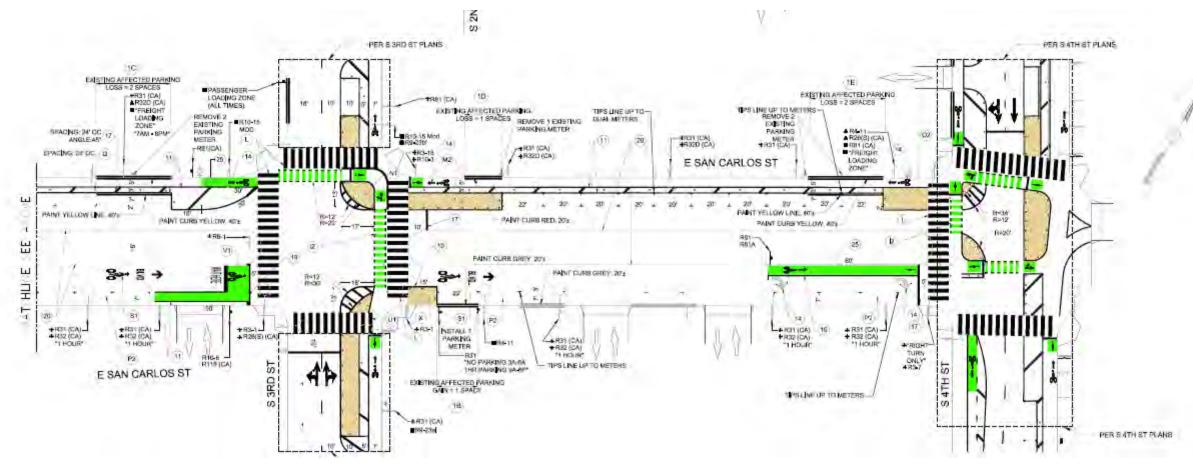






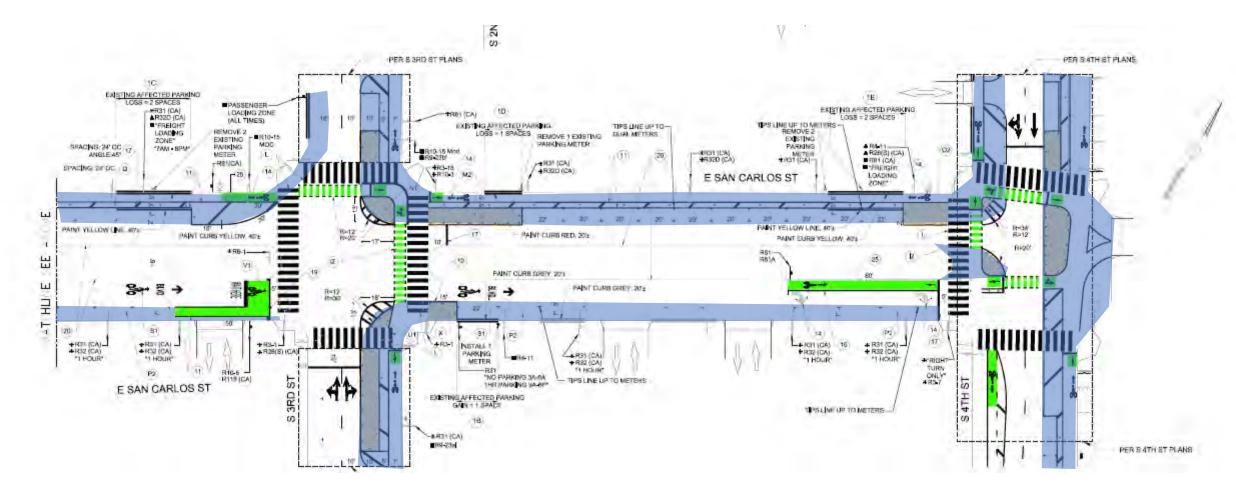




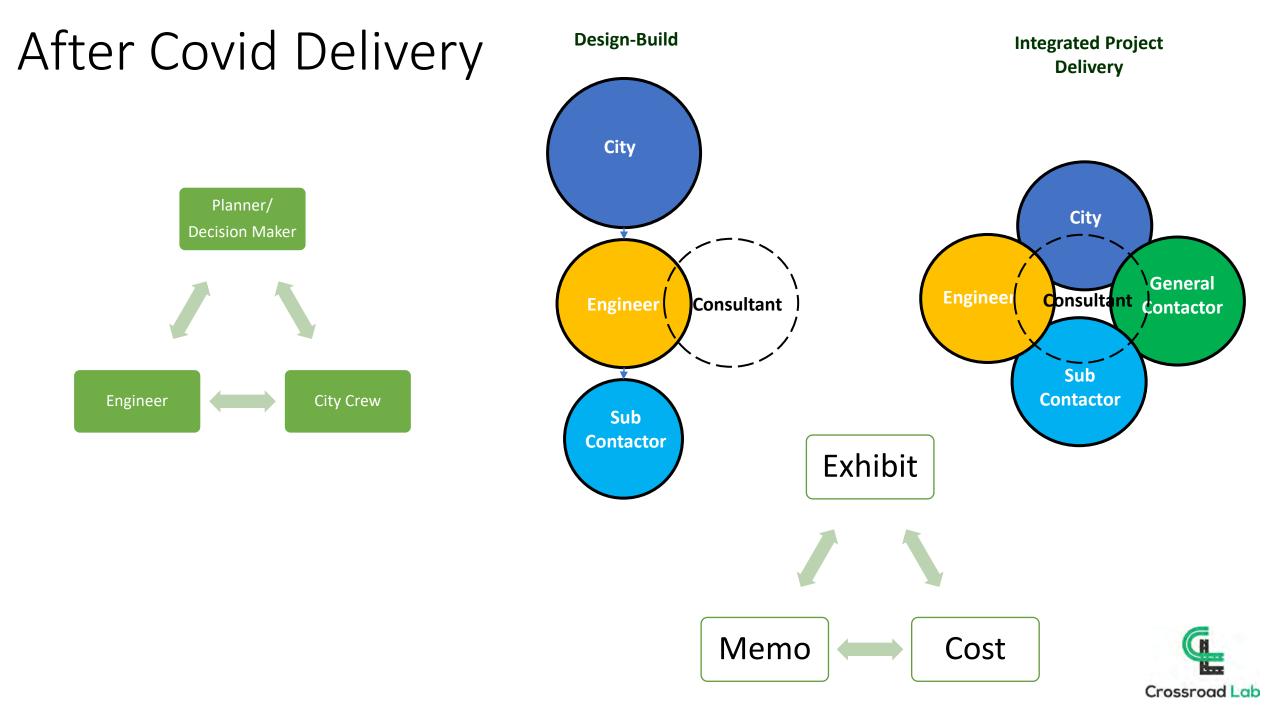


San Jose, CA









During Covid



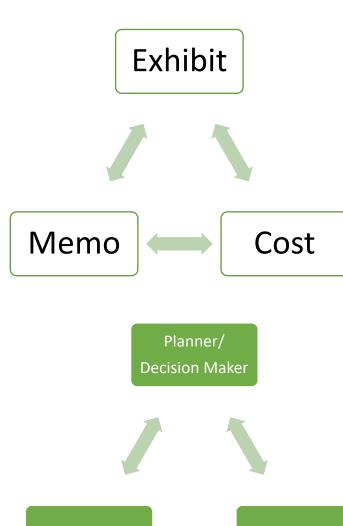








During Shutdown



Engineer

City Crew

- For all Standard Details
 - Bulbouts
 - Protected Bike lane
 - Lane Reductions etc
- Key intersection and Ramps
- Develop Bus Standards
- Develop New Standards
 - Block Party Closure
 - Temporary Traffic control for Bikes
 - Parklets
- DRAW,
- QUANTIFY,
- COMMUNICATE





https://www.youtube.com/watch?v=6-RYhnS0IMc









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BETTER

BIKEWAYSJ











Crossroad Lab

Quick-Build During a Crisis Questions? <u>Vignesh@crossroadlab.com</u> Vignesh Swaminathan

Crossroadlab.com

MTC Quick Build Survey Link

We want your feedback! What are your agency quick build needs?

Please take the time to fill out the below survey by April 17th:

https://www.surveymonkey.com/r/QUICKBUILDS

Thank you and Take Care!



Contact for more info:

Toshi Shepard-Ohta, Principal Engineer tshepard-ohta@bayareametro.gov

Nicola Szibbo, Program Manager nszibbo@bayareametro.gov