ChangeLabSolutions

Making the Connection : Complete Streets & Health





ChangeLabSolutions

Healthier communities for all through better laws and policies.





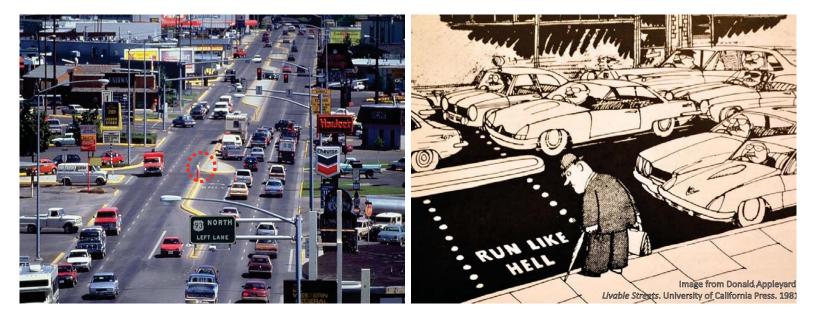
Why Complete Streets?

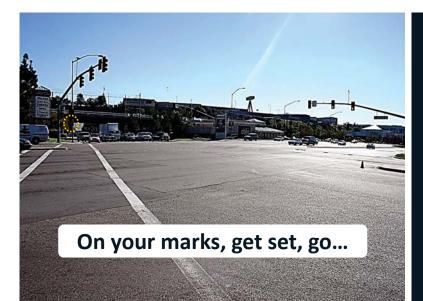


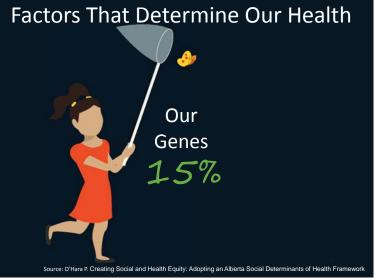
















What is a Complete Street?



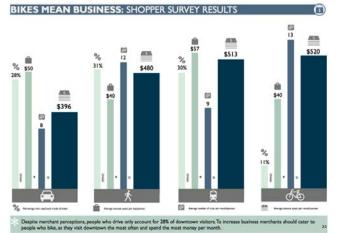








INCREASE LOCAL TAX REVENUE



source: University of California - Berkeley

INCREASE STREET SAFETY

NARROW STREETS = FEWER CRASHES







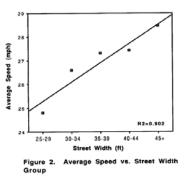
24-ft wide street



25 Source: http://visionzeronetwork.org/ Source: Swift P, Painter D, Goldstein M. Residential Street Typology and Injury Accident Frequency.

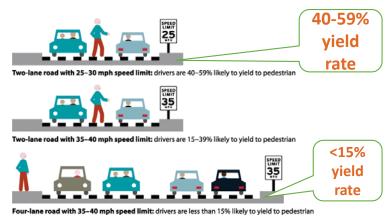
WIDER LANES = HIGHER SPEEDS





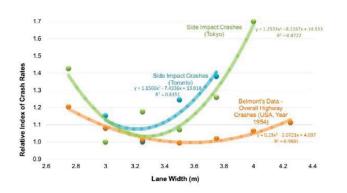
Source: Daisa JM and Peers JB. Narrow Residential Streets: Do They Really Slow Down Speeds?

NARROW, SLOW SPEED = SAFER



29 Source: Schneider RJ and Sanders RL. Pedestrian Safety Practitioner's Prespectives of Driver Yielding Behavior across North America.

10-FT LANES = FEWEST CRASHES



Source: Karim DM. Narrower Lanes, Safer Streets.

INCREASE HEALTHY OUTCOMES



For each hour walked per day, people are about 5% less likely to be obese.



Adults who bicycle enjoy lower weight and blood pressure, and are less likely to become diabetic.

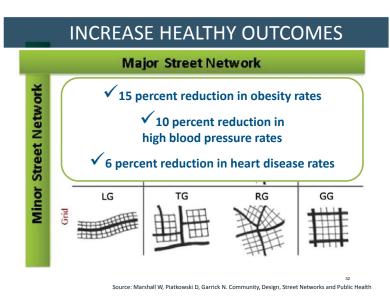


A man who lives in a walkable, mixed-use area is 10 pounds lighter than a similar man who lives in a car-oriented area.



Residents living in walkable environments are more likely to know their neighbors and participate in social activities.





ChangeLabSolutions COMPLETE STREETS RESOURCES





DISCLAIMER

The information provided in this discussion is for informational purposes only, and does not constitute legal advice. ChangeLab Solutions does not enter into attorney-client relationships.

ChangeLab Solutions is a non-partisan, nonprofit organization that educates and informs the public through objective, nonpartisan analysis, study, and/or research. The primary purpose of this discussion is to address legal and/or policy options to improve public health. There is no intent to reflect a view on specific legislation.

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Complete Streets: Avoiding Legal Hurdles

Sara Zimmerman, JD Technical Assistance Director



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For legal advice, consult your own attorney, who should be licensed to practice law in your state.



Two Core Legal Hurdles to Good Street Design

Is it allowed? Will we be sued?



What We Do





- Create support for safe, healthy, active communities
- Advance policy change
- Focus on equity
- Share our deep expertise

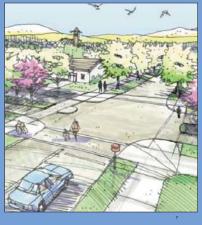
Is it allowed?

- Local policies and practices
- State and federal laws
- National design guidelines and manuals



Local, State & Federal Laws

- Subdivision/land development codes: detailed requirements for how streets and neighborhoods must be built
- Municipal codes
- General plans
- State and federal laws and regulations



Narrow Streets

2004 Green Book: Allows lane widths from 10-12 ft – 12 ft "most desirable"

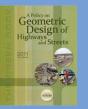
2011 Green Book: Encourages 10 ft widths



National Manuals and Guidelines

- Some of the manuals are binding, some are advisory
- Some provisions within them are binding and others are not
- Good news: increasing bike/ped friendly

Gode for the Breeling Biogenetic Facility 2027 Facility Control Contro Urban Street Design Guide





Upshot:

- Understand and comply with legal requirements
- Many aspects of manuals are flexible
- A lot of great complete street design is already fully authorized
- Encourage ongoing improvements to guidelines and laws





Will we be sued?

If someone gets hurt, will we be found liable?



Myth Versus Reality

Myth:

Sticking to the tried and true ways will protect you from liability issues.



California public entities have strong protection from liability under design immunity where:

- The design was formally approved &
- There was an informed, reasonable exercise of engineering judgment that balanced relevant considerations.
 - CA: standard is met "as long as reasonable minds can differ concerning whether a design should have been approved."

Defenses: Immunity



Myth Versus Reality

Myth: Sticking to the tried and true ways will protect you from

Reality: Fa &

Failure to adopt new & safer practices can increase the

likelihood of liability.



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Is this a guarantee that you won't get sued?

No, it is not.

Defenses: Immunity



Immunity for Design Decisions

Liability and Street Design

In Conclusion

California lawsuits usually don't get to underlying questions of negligence.

- But you should still avoid it
- Note that acting reasonably relates to the reasonable exercise of engineering judgment aspect of immunity, as well as to negligence itself.



Liability should not be a barrier to complete streets

Reasonable Care = Being Responsible

- Consider possible dangers and hazards to all users
- Take reasonable steps to protect against those hazards
- Have evidence or logic supporting decisions

Reasonable Care





Sara Zimmerman, JD Technical Assistance Director

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The Big Picture

What's the best way to avoid liability? Make sure no one gets hurt in the first place.





Providing Safer Mobility for All Transportation Users

Major policy and organizational changes happened over the past seven years

| 2008 | Complete Street Policy Deputy Directive 64-R1 updated |
|------|---|
| 2010 | Complete Streets Implementation Action Plan released (completed 2013) |
| 2011 | Program Review initiated by Director Malcolm Daugherty |
| 2012 | Highway Design Manual update incorporating Complete Streets design |
| 2013 | New California State Transportation Agency (CalSTA) formed |
| 2013 | Agency Secretary, Brian Kelly, commissioned State Smart Transportation Initiative (SSTI) |
| | |
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Providing Safer Mobility for All Transportation Users Accomplishments



Providing Safer Mobility for All Transportation Users

| 2014 | Caltrans Improvement Project was launched to address SSTI recommendations |
|------|--|
| 2014 | Transformation and cultural shift began with the development of a new Mission, Vision and the Strategic Management Plan |
| 2015 | Complete Streets Implementation Action Plan 2.0 released in January |
| 2015 | District 4 executed its Design Delegation Agreement on January 30, 2015 (transfer decision making authority from Headquarters to the districts) |
| 2015 | CT Strategic Management Plan released in April – Aggressive Goal: by 2020 triple bicycle usage, double pedestrian and transit usage |

Providing Safer Mobility for All Transportation Users Accomplishments

- Green bike lanes Alpine Rd at I-280
- Blanket approval for CA from FHWA
 Guidance in FHWA Interim Approval Memo





Providing Safer Mobility for All Transportation Users

Actions Underway

- Updating California MUTCD to incorporate previously experimental features
- Further redefine Highway Design Manual
- · Engaging in outreach with partners and district regarding design flexibility and innovative design
- Developing Class IV Bikeways (separated bikeways) Design Guidance

Providing Safer Mobility for All Transportation Users Accomplishments

"Top of the Hill" Daly City Project

Old Redwood Highway at 101







Caltrans' Use of Flexible Design Criteria and Tort Liability

Bruce D. McGagin Deputy Attorney Caltrans



This presentation is not intended to provide legal advice. The presentation is only a demonstration of Caltrans' current approach. Factual differences in the approval process, the use of previously approved standards, and other factors will lead to differing outcomes and solution Thus, the information conveyed in the presentation cannot be applied to any particular matter. Attendees should seek the advice of their attorneys for any specific questions they may have.

Caltrans' Approach to Liability Concerns Raised by Flexible Design

• There should be no concerns provided:

- The design decision was fully documented
- Design decision is logical and well thought out
- Reasonable engineering judgment was applied



DESIGN IMMUNITY

- Government Code section 830.6 elements
 - The design feature must have caused the injury alleged
 - The design was approved prior to construction by someone with the authority to do so and the feature was built in accordance with the design
 - The design was reasonable



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Caltrans' View of Liability for "Variations" from Existing Design Standards

- Should not lead to increased liability provided the engineer in charge:
 - Uses reasonable engineering judgment creating "variation"
 - Documents decision for the "variation" by, e.g.:
 - Showing "variation" previously used in similar, well-defined situations (e.g., cycle tracks, 11-foot lanes, roundabouts)
 - Analyzing why use of "variation" suitable in particular instance
 - Supporting decision by reference to other guidance (e.g. NACTO, Green Book, etc.)

Caltrans' Current View of What Design Flexibility Is

- It's not a new way of doing things
- It's a process based on common sense
- It's using reasonable engineering judgment
- It incorporates context sensitive solutions, Complete Streets, and other flexible design concepts based on innovations/designs to address a problem

Reasonable Engineering Judgment and Liability

- Guidelines affecting use of engineering judgment can affect liability
 - Where conditions are inherently variable, designs based on engineering judgment should not increase liability
 - Example: Range for stop bar
- What is reasonable under the circumstances?



Safety and Other Design Considerations

- Where design flexibility varies from accepted standards or guidelines, exposure to liability may be reduced **if**:
 - the engineer who designs/approves the project is "up front" about their engineering judgment when documenting the justification
 - mitigates by other special design features (e.g., reduced speed limits, warning signs, traffic calming measures, etc.)

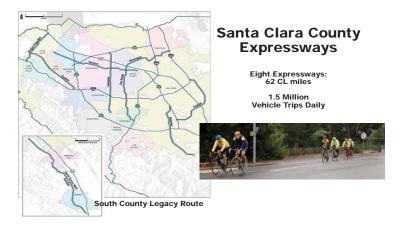


Caltrans' Challenges

- Getting the appropriate documentation supporting design decisions, particularly for innovative designs
 - Design-Build
 - Local Entity Designs on state highway system
 - Consultant Design Engineers





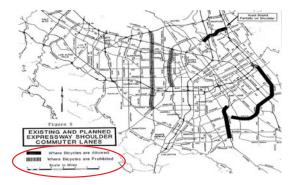


Bicycle Accommodation Varied



- Sign used where County and City agreed expressways too freeway-like, after County freeway resolution and city counsel action
- Signs referring to "Bicycles" removed or revised after 1989/1991 policies adopted by Board

1986 Transportation 2000 Bicycle Element



In the Beginning...



MEASURE (A) Ballot text:

"Shall the County... [sell bonds to construct]... County highways and expressways,

including...interchanges, grade separations and highway bridges..."

...the vision was a system of local freeway-like roadways that would "end traffic jams!!!"

Bike Prohibitions Were Removed-What Happened? • Lawrence Expressway (6-lanes) was proposed for lowbudget widening to add HOV lanes (outside) by using existing wide shoulders. • Bike community concerns that the action would be bad

- Bike community concerns that the action would be bad precedent and that expressways were better options than alternate routes.
- County-managed environmental study of the issue sided with bicyclists

Who designed this?

- Engineering Consultant: Nolte Associates Project Engineer: Gloria Garcia (Collen)
- In fairness, given constrained revenue and assuming bike prohibitions would remain, the plan was logical, efficient. County provided direction to consultant.

Game changer...

- Federal demonstration grant provided for costs of additional widening

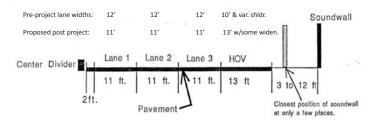
History of Bicycle Accommodation: Lawrence Expressway was catalyst and rallying point

1986 Lawrence Expwy and Alternative Routes for Bicycles by David J. Powers & Associates

Conclusion:

Although there are other north-south roadways [than] ...the expressway, conditions such as on-street vehicular parking and numerous driveways and crossstreets make them less suitable for bicycle commute use than Lawrence Expressway.

1988 Lawrence Expwy HOV Design



• 13 ft shared shoulder was proposed

And thus the policy statements (1991):

BICYCLE USE ON EXPRESSWAYS:

Board Policy Statement:

At its meeting on October 17, 1989 the Santa Clara County Board of Supervisors adopted the following statement of policy regarding bicycle use on expressways.

The Santa Clara County Board of Supervisors is supportive of action by Cities to allow bikes on expressways.

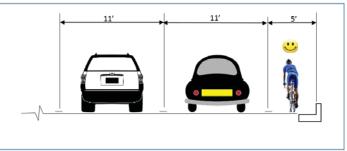
Agency Policy:

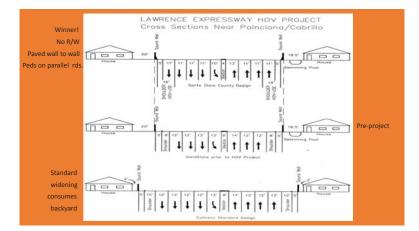
It is the policy of the Transportation Agency to encourage the cities to remove the bicycle prohibition signs, except where the shoulder area is less than four (4) feet wide:

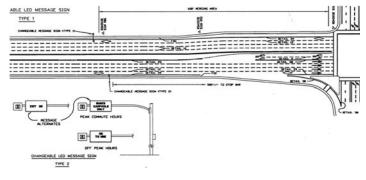


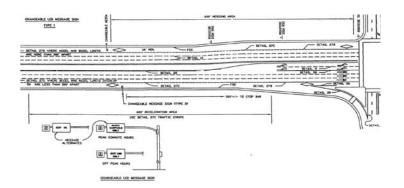
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Policy Documentation and Approval

- Expressway Study Process, Policy Advisory Committee, and Report (first edition 2001-2003). Process uses tech working group, PAB, City and County governing boards
- "Delineate, don't designate"
- Provide wide shoulders: 6'- 8'
- Bike slot at stop bar
- Bike slot at gore points
- Use of dash in locations to continue path of bike
- Provide bike presence/crossing warning signage
- No bike lane pavement marking or roadside signs
- Exceptions: legacy bike lanes on lower speed (Page Mill), lower volume (Foothill) expressways



Current Update Process

- Hired subject matter expert to conduct update
- Drafts to VTA Bicycle & Pedestrian Advisory Committee for comment
- Led by County Transportation Planner, working closely with County Traffic Engineer

Potential Unintended Consequences in Expwy. Context

- <u>Square corners</u> Truck turning geometry can track rear wheels through pedestrian waiting area.
- <u>Bike guidance through weaving areas</u> some serious bike riders object to being told where to be, want freedom to react to differing conditions, situations
- <u>Marked crosswalks</u> concern with artificial sense of security and need for alertness

Design concern: What happens when unique treatments become standard? Is it more safety, or more routine, which becomes routinely ignored?

Metaphor: flu shot or antibiotics?

Potential Changes to BAG

• Allow but not require use of "toolbox" elements as appropriate and needed for specific conditions, requiring judgement of Traffic Engineer.

Sometimes Following, Sometimes Leading



This Exhibit: Bike Adaptive Traffic Signals

See video on website: www.countyroads.org

See also: Pedestrian Adaptive Traffic Signals

Current Policy Coordination

• External messaging: expressways are for advanced bicyclists only



• Internal policies, i.e. sweeping, brushing, construction traffic control



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Future Opportunities – Lawrence Below Grade

