

**CALIFORNIA TRAFFIC CONTROL DEVICES COMMITTEE
2019 ANNUAL REPORT**

This report is prepared in compliance with Article V of the Bylaws of the California Traffic Control Devices Committee (CTCDC).

2019 Voting Members

Robert W. Bronkall CSAC- Chair	Deputy Director of PW, Humboldt County 3033 H St., Room 17, Eureka, CA 95501
Hamid Bahadori ACSC – Vice Chair	Principal Transportation Engineer Auto Club of Southern California, 3333 Fairview Road Costa Mesa, CA 92626
Andrew Maximous LOCC	City of Santa Monica 1685 Main Street, Santa Monica, CA 90401
Pratyush Bhatia LOCC	Senior Civil Engineer City of Santa Clara 1500 Warburton Ave, Santa Clara, CA 95050
David Fleisch CSAC	Director, Transportation Department, Public Works Agency County of Ventura 800 S. Victoria Ave, Ventura, CA 9309
Duper Tong Caltrans	Office Chief, Traffic Engineering Division of Traffic Operations California Department of Transportation 1120 N Street, MS36, Sacramento, CA 95814
Lt. Rick Hatfield CHP	Special Projects Section California Highway Patrol 601 N. 7th Street, Sacramento, CA 95811
Mike Sallaberry Caltrans	Livable Streets Subdivision, SFMTA One S. Van Ness Ave, 7 th Fl. SF, CA 94103
Xavier Maltese AAA NCNU	AAA Northern CA, NV & UT Public Affairs Specialist 1277 Treat Blvd., Suite 1000, Walnut Creek, CA 94597
Bryan D. Jones Caltrans – Active Transportation	Assistant City Manager City of Eastvale 12363 Limonite Ave., Suite 910, Eastvale, CA 917525

The following alternate members were designated by the parent organizations to act in the absence of their appointed voting members:

2019 Alternate Members

Reza Moghissi CSAC	Division Chief, Maintenance and Operations Sacramento County 4100 Traffic Way, Sacramento, CA 95827
Vijay Talada Caltrans	Division of Traffic Operations- MS36 1120 N Street, Sacramento, CA 95814
Marianne Kim ACSC	Auto Club of Southern California 3333 Fairview Road, Costa Mesa, CA 92626
Zoubir A. Ouadah CSAC	County Traffic Engineer County of San Diego, DPW
Rock Miller Caltrans, Active Transportation	Rock E. Miller & Associates 5731 E. West View Dr., Orange, CA 92869
Tony Powers Caltrans, Active Transportation	Senior Engineer, Dokken Engineering 110 Blue Ravine Rd, Ste 200, Folsom, CA 95630
Doug Bilse LOCC	Senior Traffic Engineer, City of Carlsbad 1635 Faraday Carlsbad, CA 92007

Executive Secretary

Vijay Talada	Division of Traffic Operations- MS36 1120 N Street, Sacramento, CA 95814
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ACSC – Automobile Club of Southern California	LOCC – League of California Cities
CSAC – California State Association of Counties	CHP- California Highway Patrol
AAA NCNU – AAA Northern CA, NV & UT	

2019 Meeting Locations

Date	Location
January 31, 2019	San Diego
August 8, 2019	Sacramento
November 14, 2019	Eastvale

2019 CTCDC AGENDA ITEMS**Item No.** **Title****Consent Items**

19-01	Legislative Change (SB 842) and the proposed changes to the CA MUTCD
19-02	Alternative Pedestrian Hybrid Beacon Sign
19-03	Proposal to revise Section 6F.109(CA) Construction Funding Identification Signs
19-07	Legislative Change by AB 634 and the proposed changes to the CA MUTCD
19-09	Bicycles travelling straight from Exclusive Turn Lanes

Action Item

17-21	Legislative Change by AB 390 and the proposed changes to the CA MUTCD
19-06	Proposed Change to Section 2B.13
18-11	Yellow time sub-committee

Requests for Experimentation

12-21	Final Report – Request to Experiment with In-Roadway Warning Lights (IRWL) System that would supplement existing traffic signals along the Metro Gold Line
16-33	Final Report – Request to Experiment with non-standard striping detail at Express Lanes
18-16	Experiment closeout – Final Report: Red pavement treatment
19-04	Request for experimentation with Non-standard roadside sign – ALL/VEHICLES/MUST/HAVE/FasTrak™LOGO/TRANSPONDER
19-05	Request for experimentation Request to Experiment with Bidirectional Pavement Marking
19-08	Non-standard traffic control device – Signing and pavement markings for Highway 1 bus on Shoulder project
19-11	Red colored transit-only lanes

Discussion Items

18-08	Report on Changes to the Minimum Yellow Light Change Interval Timing for Signalized Intersections
19-12	Electric Bicycles on Class I Bikeways
19-13	Target Compliance Dates

Information Items

19-10	NTSB Report Recommendations and the proposed changes to the CA MUTCD
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Consent Items

- 19-01 Legislative Change (SB 842) and the proposed changes to the CA MUTCD
Senate Bill 842 (SB 842) requires Caltrans to erect, at appropriate locations on highways in the state highway system, generic directional signs to each Veteran's Home of California.

Action: The Committee approved the requested Veterans Home of California sign.
- 19-02 Alternative Pedestrian Hybrid Beacon Sign
Discussion: The proposed sign wording "CROSSWALK, STOP ON RED, PROCEED ON FLASHING RED WHEN CLEAR" was not agreed upon as clear language. The Committee decided to table the item. Committee Member Tong stated that he would work with the FHWA and CHP to come up with better language for the sign.
- 19-03 Proposal to Section 6F.109(CA) Construction Funding Identification Signs
Action: The Committee approved adding the C48(CA) sign to Section 6F.109(CA) and to Figure 6F-101(CA).
- 19-07 Legislative Change by AB 634 and the proposed changes to the CA MUTCD
Assembly Bill 634 (AB 634) requires that roundabouts be included in the list of highway facility types that may be used for memorial or dedication signing in the CA MUTCD.

Action: The Committee approved the addition of the memorial signs at roundabouts.

Discussion: The Committee brought up concerns that adding additional signs to roundabouts could dilute the warning signs on the roundabout approaches. Multiple Committee Members stressed the importance of carefully placing additional signs at roundabout approaches.
- 19-09 Bicycles travelling straight from Exclusive Turn Lanes
Assembly Bill 1266 (AB 1266) will allow bicyclists traveling straight through an intersection from a right- or left-hand turn only lane if an official traffic control device indicates that the movement is permitted.

Action: The Committee approved adding language to the CA MUTCD Section 9C.07 Shared Lane Markings in addition to adding Figures 9C-111(CA) and 9C-112(CA).

Action Items

- 17-21 Legislative Change by AB 390 and the proposed changes to the CA MUTCD
Assembly Bill 390 (AB 390) allows pedestrians facing a flashing "DON'T WALK," "WAIT," or "Upraised Hand" symbol with a "countdown" signal to enter the crosswalk to cross the roadway.

Action: The Committee approved changes to the CA MUTCD Section 2B.52, Figure 2B.26, and the addition of two new signs: R10-3e(CA) and R10-3i(CA).
- 19-06 Proposed Change to Section 2B.13
Action: The Committee approved changes to the CA MUTCD Section 2B.13. The agency changing the posted speed limit will be required to inform the agency operating the traffic signals about the new speed limit no later than 30 days before changing the posted speed limit.
- 18-11 Yellow timing sub-committee
Action: The Committee approved the deactivation of the sub-committee.

Request for Experimentations

- 12-21 Request for approval of In-Roadway Warning Lights (IRWL) System Final Report
Action: The Committee received and approved the final report and approved the request to let the video equipment stay in place in the field as installed. The experiment showed that the in-road Internally Illuminated Raised Pavement Markers (IIRPMs) parallel to the light rail train tracks significantly reduced the number of turning violations versus when the lights were off.
- 16-33 Request for approval of Non-Standard Striping Detail at Express Lanes
Action: The Committee received and approved the final report. The experiment was determined to be non-conclusive. The Committee also accepted the recommendations to remove the solid/skip line and replace it with the standard detail and to leave the double stripe in place without the raised pavement markers.
- 18-16 Experiment closeout – Final Report: Red pavement treatment
Action: The Committee approved the experiment’s final report and moved it to the FHWA for acceptance. The red pavement treatment for transit lanes in San Diego were determined to be very effective in reducing violations of transit only lanes.
- 19-04 Request for experimentation with Non-standard roadside sign – ALL/VEHICLES/MUST/HAVE/FasTrak™LOGO/TRANSPONDER
Action: Request for experiment was approved to allow for new signage for Express Lanes. The proposed sign will read “ALL VEHICLES MUST HAVE FASTRAK TRANSPONDER.”
- 19-05 Request for experimentation Request to Experiment with Bidirectional Pavement Marking
Action: Request for experiment was approved with advice that arrows not be applied to crosswalk marking surfaces. The proposal is to install LaneAlert 2x™ which displays a warning message or symbol to a driver approaching the reflective pavement marking or striping from the wrong direction.
- 19-08 Non-standard traffic control device – Signing and pavement markings for Highway 1 bus on Shoulder project
Action: The Committee approved the request for experimentation contingent with amendment that District 5 could implement red pavement should they find they have an enforcement issue.
- 19-11 Red colored transit-only lanes
Action: The Committee approved the request for experimentation. LA DOT will experiment with red colored transit-only lanes to determine if they reduce violations of transit-only lane restrictions and reduce delays to transit vehicles.

Discussion Items

- 18-08 Report on Changes to the Minimum Yellow Light Change Interval timing for Signalized Intersections
Discussion: Vice-Chair Bahadori reported that the subcommittee members had reached consensus that the CA MUTCD as currently written is insufficient in regarding the issue of minimum yellow timing for traffic signals. The subcommittee will prepare a paper to find an appropriate minimum yellow light time and will continue to meet quarterly to resolve this issue.
- 19-12 Electric Bicycles on Class I Bikeways
Discussion: Caltrans is considering developing signage for Class I bikeways to indicate which types of electric bikes are allowed. Per CVC 21207.5, Class 1 and Class 2 Electric bikes are allowed on Class I bikeways, unless there is an ordinance prohibiting their operation. Class 3

Electric Bikes are not allowed on Class I bikeways, but they may be allowed if an ordinance allows it. The Committee discussed including signs which will specify which types of electric bikes are allowed, but they determined that Class I bikeway speed limit signs should be considered instead. The Committee did not recommend electrical bicycle class signage.

19-13 Target Compliance Dates

Discussion: Committee Member Tong reminded all the present agencies of the upcoming Target Compliance Dates Established by the FHWA.

Information Items

19-10 NTSB Report Recommendations and the proposed changes to the CA MUTCD

NTSB published a report in response to a fatal collision at the interchange of US Highway 101 and State Route 85. NTSB submitted recommendations proposing changes to the CA MUTCD language for gore areas at off-ramps.

Action: The Committee approved changes to the CA MUTCD Section 3B.05, Section 3B.24, and Figure 3B-8(CA). The approved changes require that chevrons be placed at exit ramp gore areas, but they remain optional at entrance ramp gore areas.

Summary of Accomplishments in 2019

- 5 items discussed from previous years (2012, 2016, 2017, and 2018)
- 13 items introduced in 2019
- 16 items completed in 2019
- 4 items approved for experimentation in 2019
- 3 items closed from pending experiments

MISCELLANEOUS

CTCDC Agendas, Meeting Minutes, Annual Reports, and other information are available on the Internet at: <http://www.dot.ca.gov/trafficops/ctcdc/>

SIGN SPECIFICATIONS

As provided in California Vehicle Code Sections 21400 and 21401, a list of the current California coded sign specifications used on streets and highways in California is available on the following website:

<http://www.dot.ca.gov/trafficops/tcd/specs.html>

MUTCD coded sign specifications are located in the FHWA Standard Highway Signs Book, available on the following FHWA website:

http://mutcd.fhwa.dot.gov/ser-shs_millennium.htm

Respectfully submitted by Vijay Talada, Secretary, CTCDC.