MEMBERS AND ALTERNATES,
CALIFORNIA TRAFFIC CONTROL DEVICES COMMITTEE

1993 ANNUAL REPORT

This 1993 annual report of actions taken by the California Traffic Control Devices Committee is respectfully submitted in compliance with the CTCDC Bylaws.

Sincerely,

Jack M. Kletzman
Executive Secretary, CTCDC

Attachment
This report is prepared in compliance with Article IV of the bylaws of the California Traffic Control Devices Committee.

1993 Voting Members

Capt. Mike Howard
Chairman, California Highway Patrol,
2555 First Avenue
Sacramento, CA 95818

Mr. Dick Folkers
Vice Chairman, LOCC, City of Palm Desert,
73-510 Fred Waring Drive
Palm Desert, CA 92260

Mr. Roger Burger
CSAC, Los Angeles County, Department of Public Works,
P.O. Box 1460
Alhambra, CA 91802-1460

Mr. Bruce Carter
CSAC, Shasta County, Department of Public Works,
1855 Placer Street
Redding, CA 96001

Mr. Gary Foxen
Auto Club of Southern California,
P.O. Box 2890
Los Angeles, CA 90051

Mr. Perry Lowden Jr.
California Department of Transportation,
1120 N Street
Sacramento, CA 95814

Mr. Russ Taft
California State Automobile Association,
150 Van Ness Avenue
San Francisco, CA 94102-1860

Mr. Wayne Tanda
LOCC, City of San Jose,
4 North Second Street, Suite 1000
San Jose, CA 95113
The following alternate members were designated by the parent organizations to act in the absence of their appointed delegates:

Ms. Merry Banks California State Automobile Association, 150 Van Ness Avenue San Francisco, CA 94102-1860

Mr. Jack Kletzman California Department of Transportation, 1120 N Street Sacramento, CA 95814

Mr. Farhad Mansourian CSAC, Marin County Department of Public Works, P.O. Box 4186 San Rafael, CA 94913

Mr. Ray Mellen Auto Club of Southern California, P.O. Box 2890 Los Angeles, CA 90051

Mr. Harold Rosenberg LOCC, City of Chula Vista, 276 Fourth Avenue Chula Vista, CA 92010

Mr. Ed Von Borstel LOCC, City of Modesto, P.O. Box 642 Modesto, CA 95353

Mr. John Wallo CSAC, San Luis Obispo County Traffic Department, Court House Annex, Osos and Palm Streets San Luis Obispo, CA 93408

Lt. Shawn Watts California Highway Patrol, 2555 First Avenue Sacramento, CA 95818

Secretary

Mr. Jack Kletzman California Department of Transportation, 1120 N Street Sacramento, CA 95814

MEETINGS

February 17, 1993 Caltrans District 12 District Auditorium San Diego

May 20, 1993 California State Automobile Assoc. Training Facility Hayward

October 14, 1993 City Council Chambers Civic Center Palm Desert
<table>
<thead>
<tr>
<th>Item No.</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>89-9</td>
<td>EMERGENCY VEHICLE APPROACHING SIGN</td>
</tr>
<tr>
<td>90-7</td>
<td>BICYCLE SIGNAL HEADS</td>
</tr>
<tr>
<td>90-9</td>
<td>YEAR ROUND SCHOOL SIGNING</td>
</tr>
<tr>
<td>91-7</td>
<td>LIGHT RAIL ALTERNATE FLASHING RED SIGNAL</td>
</tr>
<tr>
<td>91-9</td>
<td>CYCLIST LOOP ACTIVATION MARKING</td>
</tr>
<tr>
<td>92-4</td>
<td>TRAFFIC SIGNAL DIMMING</td>
</tr>
<tr>
<td>92-10</td>
<td>BIKEWAY MARKING</td>
</tr>
<tr>
<td>92-13</td>
<td>POLICE OR SHERIFF'S FACILITY SIGN</td>
</tr>
<tr>
<td>92-17</td>
<td>NATURAL GAS SIGN</td>
</tr>
<tr>
<td>92-18</td>
<td>GOLF CART SYMBOL SIGN</td>
</tr>
<tr>
<td>93-1</td>
<td>TRAFFIC ISLANDS, EFFECT OF MODIFICATION FOR DISABLED ON THE VISUALLY IMPAIRED</td>
</tr>
<tr>
<td>93-2</td>
<td>LED STUDY BY CALTRANS</td>
</tr>
<tr>
<td>93-3</td>
<td>BIKE LANE DELINEATION REVISION</td>
</tr>
<tr>
<td>93-4</td>
<td>CONVEX MIRRORS</td>
</tr>
<tr>
<td>93-5</td>
<td>BIKE LANE DELINEATION ACROSS FREEWAY RAMPS</td>
</tr>
<tr>
<td>93-6</td>
<td>BIKE LANE QUEUING, AREA DELINEATION</td>
</tr>
<tr>
<td>93-7</td>
<td>CHANNELIZER PLASTIC DRUM</td>
</tr>
<tr>
<td>93-8</td>
<td>SIGNAL LIGHT, BLINKING GREEN</td>
</tr>
<tr>
<td>93-9</td>
<td>DELINEATION, CENTERLINE STRIPING WARRANTS</td>
</tr>
<tr>
<td>93-10</td>
<td>SIGNING, LIME-YELLOW SPECTRUM</td>
</tr>
<tr>
<td>93-11</td>
<td>TRAFFIC MANUAL, CHAPTER 10</td>
</tr>
<tr>
<td>93-12</td>
<td>PEDESTRIAN CROSSWALKS</td>
</tr>
<tr>
<td>93-13</td>
<td>SOLAR POWERED SIGNS</td>
</tr>
<tr>
<td>93-14</td>
<td>SPEED CONTROL SIGN, EXPERIMENTATION REQUEST</td>
</tr>
<tr>
<td>93-15</td>
<td>LANE REDUCTION SIGNING</td>
</tr>
<tr>
<td>93-16</td>
<td>NO TURN SYMBOL SIGN, SUPPLEMENTARY PLATE</td>
</tr>
<tr>
<td>93-17</td>
<td>STOP SIGN SAFETY WALKER</td>
</tr>
<tr>
<td>93-18</td>
<td>CROSS WALKS, SEQUENTIAL LIGHTING</td>
</tr>
</tbody>
</table>

**Information Items**

None
ACCOMPLISHMENTS

Item 90-9   The Committee could not discern that any benefit had been established by a study of year round school signing and voted to take no action.

Item 91-7   The Light Rail Subcommittee recommended that alternating flashing red lights are an inappropriate signal and not be adopted. The Subcommittee also suggested that this item be completed and future recommendations be presented as separate items. The Committee agreed with these proposals.

Item 92-13 A proposed sign indicating locations of police or sheriffs facilities was presented by Caltrans at the request of local agencies. The design was circulated to law enforcement agencies to determine the appropriateness of the symbol. There was no response and the Committee concluded there was no interest in the sign.

Item 92-17 The Committee voted to adopt a fuel pump symbol with a natural gas plate for public gas stations that dispense natural gas.

Item 93-1   As directed by the Committee, Ms. Fitzgerald, of the Santa Cruz Planning Department, was advised that disabled facilities, such as her concern about traffic island cut outs, are under the purview of the Department of Architecture.

Item 93-4   The Committee set up a separate Convex Mirror Subcommittee

Item 93-7   The Committee voted to recommend Federal specifications for drums as an allowable alternate for channelizers on construction sites. The drum would be fabricated in two pieces from low density plastic, have a minimum of two orange and two white stripes, with a closed top.

Item 93-8   A proposal to use a flashing green phase for traffic signals to indicate to motorists that the yellow phase is coming was not approved.

Item 93-9   The Committee strongly supported the Marking Subcommittee's (of the National Committee) recommendation against an FHWA proposal to greatly increase requirements for centerline delineation on city streets in the MUTCD.

Item 93-11 The Committee, with some minor requests, approved the rough draft of Chapter 10 of the Traffic Manual.

Item 93-16 The Committee recommended a supplemental ON RED message for R16 and R17 symbol signs as an alternate sign. The sign could be manufactured as one sign or have supplemental plates for existing signs.
SUMMARY OF ACCOMPLISHMENTS

1 items carried over from 1989
2 items carried over from 1990
2 items carried over from 1991
5 items carried over from 1992
18 items introduced in 1993
27 items considered in 1993
1 item not considered in 1993
11 items completed in 1993
2 items withdrawn in 1993
10 items tabled in 1993
4 items carried over to 1994

ITEMS CARRIED INTO FUTURE YEARS

Item 92-18 GOLF CART SYMBOL SIGN
Item 93-12 PEDESTRIAN CROSSWALKS
Item 93-15 LANE REDUCTION SIGNING
Item 93-17 STOP SIGN SAFETY WALKER

ITEMS WITHDRAWN

Item 93-6 BIKE LANE QUEUING AREA DELINEATION
Item 93-13 SOLAR POWERED SIGNS

TABLED AGENDA ITEMS

Item 89-9 EMERGENCY VEHICLE APPROACHING SIGN
Item 90-7 BICYCLE SIGNAL HEADS
Item 91-9 CYCLIST LOOP ACTIVATION MARKING
Item 92-4 TRAFFIC SIGNAL DIMMING
Item 92-10 BIKEWAY MARKING
Item 93-2 LED STUDY BY CALTRANS
Item 93-3 BIKE LANE DELINEATION REVISION
Item 93-5 BIKEWAY DELINEATION ACROSS FREEWAY RAMPS
Item 93-10 SIGNING, YELLOW GREEN SPECTRUM
Item 93-14 SPEED CONTROL SIGN EXPERIMENTATION REQUEST
Item 93-18 CROSSWALKS, SEQUENTIAL LIGHTING
EXPERIMENTAL ITEMS

Item 89-9 EMERGENCY VEHICLE APPROACHING SIGN

In 1989 the committee approved an experimental work plan for testing an emergency signal system. This system is to be installed at several intersections in downtown Sacramento in cooperation with the local fire department. In 1990, Mr. R. C. Anderson demonstrated the prototype sign for the Committee. Sign erection and data collection have not yet occurred. In 1992 and 1993 the status remained unchanged.

Item 90-7 BICYCLE SIGNAL HEADS

The city of Davis proposed an experiment using separate signal heads for bicycles. The city has a large bicycle population and is hoping to increase efficiency through intersections having considerable numbers of motor vehicle, bicycle accidents. The Committee approved the experiment.

Item 92-4 TRAFFIC SIGNAL DIMMING

The City of San Jose has been granted permission to experiment with light emitting diodes and night dimming of traffic signals for the purpose of power cost reduction.

Item 93-2 LED STUDY BY CALTRANS

Caltrans is installing approximately 1900 LED red indications in the District 6 (Fresno) area. If the test for durability and retention of an acceptable ITE National Standard photometric distribution is successful, it would represent a significant savings in maintenance and system operations. The Committee approved the experiment.

Item 93-10 SIGNING, YELLOW GREEN SPECTRUM

Napa County and the City of Napa have been granted permission, subject to Federal approval, for a joint experiment with yellow green signs. They hope to demonstrate superior visibility over existing yellow warning signs. This should be most apparent during periods of dawn and dusk. Sign installation is to be at six schools and is limited to school symbol, school crossing symbol, pedestrian symbol, and pedestrian crossing symbol signs.

Item 93-14 SPEED CONTROL SIGN, EXPERIMENTATION REQUEST

Ms. Joanne Kulachok and Mr. Jerry Crabill under the auspices of the cities of Yorba Linda and Laguna Hills have been granted permission to experiment with a radar enforcement symbol sign. The symbol is a representation of a motorcycle officer pointing a radar gun. Some sign modifications were required by the Committee. The symbol sign is intended to produce a residual reduction in traffic speed.

Item 93-18 CROSSWALKS, SEQUENTIAL LIGHTING

Chief Sal Rosano of the City of Santa Rosa has been granted permission to experiment with lit crosswalks designed to alert motorists that a pedestrian is using the crosswalk. The experiment evolved from the fact that a number of motorists involved in vehicle-pedestrian accidents say they did not see the pedestrian. The Committee required, among other things, that lights be non sequential, the device be used on uncontrolled intersections, and the color of light match the crosswalk.
MISCELLANEOUS

Mr. Roger Burger of the County of Los Angeles Department of Public Works has retired. Mr. Burger has given many years of substantial service to the Committee and will be missed. CSAC has elevated Mr. John Wallo, of the San Luis Obispo County Traffic Department to replace him.

Mr. Richard Folkers from the City of Palm Desert has been elected to succeed Capt. Mike Howard as Chairman of the Committee. The Committee decided to wait until new members were seated before electing a Vice-Chairman.

Mr. Ed Von Borstel is the new LOCC alternate representative from the City of Modesto, Mr. Chris Ramstead from the Los Angeles County Public Works Dept. takes Mr. Wallo's alternate position for CSAC, and Mr. Jack Kletzman from Caltrans will serve as the remaining alternate.

Additional information regarding the minutes of the CTCDC meetings held during 1993 may be obtained upon request from the Executive Secretary or any member of the California Traffic Control Devices Committee.

Respectfully submitted,

Jack M. Kletzman
Executive Secretary, CTCDC
(916) 654-4715

SIGNING RECOMMENDATIONS

All additions, revisions and deletions of approved sign specifications made by Caltrans during 1993, are included in the "New and Revised Specification Sheets" and will be sent under separated cover.

As provided in California Vehicle Code Sections 212400 and 21401, a list of approved signs for use on streets and highways in California is available from the Caltrans Manuals and Publications Unit, 1900 Royal Oaks Drive, Sacramento, CA 95815.