

# Boster, Kobayashi & Associates

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## KENNETH C. BERNER, P.E.

### Curriculum Vitae

#### **EDUCATION:**

- M.S. Civil Engineering, University of California  
Berkeley, 1968
- B.S. Civil Engineering, University of California  
Berkeley, 1964

#### **MILITARY:**

U.S. Navy: 1964-1966 (active duty)  
Currently: Captain, U.S. Naval Reserve/Retired

Significant reserve assignments included 13 years aboard Naval Reserve Force ships. This sea service included two commands at sea, as Commanding Officer of USS Whippoorwill (MSC 207) and as Commander Mine Division 52. Held a total of seven commands as a reserve officer. Extensive experience in mine warfare and coastal/harbor defense serving as a member of three major staffs, including participation in numerous exercises. Last assignment was on Commander Naval Base San Francisco staff as a Naval Liaison Officer to the Commanding General, Sixth U.S. Army. Involved in providing military assistance to civilian authorities in the event of major natural or other disasters. Retired on 1 July, 1994 after 30 years of service.

#### **PRESENT POSITION: 1992 to present**

Partner of Boster, Kobayashi & Associates, a consulting firm specializing in the technical aspects of traffic engineering and accident reconstruction. Typical assignments involve traffic safety, highway design, roadway construction, highway maintenance and traffic engineering.

#### **INDUSTRIAL AND ACADEMIC POSITIONS:**

University of California, Berkeley Extension:

Instructor in various classes for the Fundamentals of Traffic Engineering course. Classes taught include:

- Traffic Stream Characteristics
- Roadway Capacity
- Intersection Capacity
- Freeway Flow Analysis
- Freeway Operations and Control
- Uniformity in Traffic Control Devices, Signs and Markings
- Signs and Markings
- Pretimed and Activated Traffic Signals

**REGISTRATION:**

Registered Professional Civil Engineer  
State of California (19 April 1971)  
Certificate Number 20162

Registered Professional Traffic Engineer  
State of California (1 July 1976)  
Certificate Number 273

**PROFESSIONAL SOCIETY MEMBERSHIPS:**

Institute of Transportation Engineers (ITE)  
American Public Works Association (APWA)  
American Society of Civil Engineers (ASCE)  
Former Chairperson for East Bay Traffic Engineers  
Former member of Transportation Research Board (TRB) Committee  
on Traffic Flow Theory & Characteristics (A3F02)  
Member of Expert Witness Council of ITE  
Former member of Task Force on Ethic Issues for ITE  
Member of Traffic Engineering Council of ITE

**EXPERT WITNESS:**

Qualified in California State Superior Court in a number of different counties; in U.S. Federal District Court in Charleston, South Carolina; and in the State of Hawaii in both the City and County of Honolulu and the County of Hawaii. Have testified in a variety of cases on various aspects of highway safety and design.

**RESPONSIBLE POSITIONS:**

From July 1989 to February 1992:

Supervising Transportation Engineer employed by the California Department of Transportation (Caltrans) in District 4 in the San Francisco Bay Area. As Chief of the Traffic Branch, responsible for traffic safety on the nearly 1400 miles of State highway in the nine-county region of the Bay Area. Managed a staff of approximately 120 professional, technical and administrative personnel who performed traffic engineering functions related to the traffic safety program on all state highways in District 4. Responsible for all signing and most electrical design work on highway design projects in the Bay Area. Served as the primary in-house consultant on traffic safety issues for the design, maintenance and construction branches. Testified extensively as an expert witness in tort liability cases involving traffic accidents on the highway system.

**RESPONSIBLE POSITIONS:** (continued)

From July 1966 to June 1989, employed by Caltrans in various positions:

1988 to 1989: As a Supervising Transportation Engineer, assigned as Chief of the Traffic Operations System Branch in District 4. Responsible for the development, implementation, and operation of a state-of-the-art traffic operations system for the entire network of freeways in the Bay Area. This system will include advanced traffic surveillance, motorist information, and traffic management elements which will be controlled from a central Traffic Operations Center, providing "real time" traffic management capability on the entire freeway network.

1986 to 1988: As a Supervising Transportation Engineer, assigned as the Chief of the Highway Operations Branch in District 4. Responsible for monitoring the performance of the freeway system and developing and operating projects/activities to improve the performance of the existing system. Included development, implementation and operation of capacity improvements, ramp metering systems, bus/carpool facilities, and "real time" traffic management systems/activities. As in-house consultant to district staff, reviewed and made recommendations on district (and other agency) proposals as to the adequacy of the geometric design and the impacts of the proposals on traffic operations.

1979 to 1986: As a Senior Transportation Engineer, assigned to positions in both the Traffic and Highway Operations Branches of District 4. In the Highway Operations Branch, from March 1985 to May 1986, responsible for the section which conducted both geometric review and systems analysis of district design and/or planning proposals to ensure adequacy from a capacity and a traffic operations aspect. In the Traffic Branch, from April 1981 to February 1985, assigned as Area Traffic Operations Engineer for the three southern Bay Area counties of San Mateo, Santa Clara and Santa Cruz. Responsible for safety programs and traffic operations on all state highways in the counties. In the Traffic Branch, from November 1979 to March 1981, assigned as Signing Engineer responsible for all highway signing in the nine Bay Area counties comprising District 4.

1969 to 1979: As both an Assistant and then an Associate Transportation Engineer, held a variety of assignments within the Highway Operations Branch of District 4. Highlights included: Three and one-half years performing geometric review, including two years as Geometric Reviewer for District 4. Responsible for the review of District designs to ensure capacity, safety and operational adequacy. One and one-half years as a field troubleshooter, investigating and developing solutions for various congestion problems on Bay Area freeways and highways. Involved in the initial development of ramp metering systems on Bay Area freeways. Period also included a one year leave of absence to work as a transportation planner for Solano County in Fairfield, California, as Assistant Director of the Transportation Council.

1966 to 1969: Assigned as a Junior Civil Engineer and Assistant Highway Engineer in a rotational training program. Assignments included Design, Construction, Hydraulics, Right-of-Way Engineering and City/County Cooperative Projects. Period included a nine-month leave of absence to complete a masters degree at the Institute of Traffic and Transportation Engineering (ITTE) at the University of California, Berkeley.