VOLUME I: INDEX to  

California Highways and Public Works  
1937-1967

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Environmental Program,  
Cultural Studies Office

California Department of Transportation, Sacramento, June 1997
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INTRODUCTION AND ACKNOWLEDGMENTS

This two-volume index is meant to aid those wishing to use the *California Highways and Public Works* journal as an historic reference. An index to the earlier volumes, 1912-1936, was produced in 1937.\(^1\)

The project was made possible by CALTRANS and the CSUS Foundation (California State University-Sacramento), and could not have been accomplished without the following:

Gregory King, Chief, History, Architecture and Community Studies (HACS) Branch, who originally brought the need for an index to the attention of the Environmental Program, and oversaw the entire project. His support and assistance throughout the indexing process was greatly appreciated.

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Barbara McDonnell and her entire Cultural Studies Office staff, whose encouragement and positive feedback made the project so much easier. Dorene Clement merits an extra thank you for proof-reading the final draft. Her suggestions helped to make the finished product much more aesthetically pleasing.

Public Historians are trained to serve as research historians, archivists, and museum curators, working within the community at large, rather than on the staffs of academic institutions. “Public History” is really about local history, which can be found throughout a community in its libraries and archives in the form of court documents, engineering reports, newspaper accounts, diaries, and countless other historical records. Knowledge of a community’s history is important for the protection and preservation of its cultural resources. Public historians turn to the past in order to help solve contemporary problems regarding such issues as water rights, housing arrangements, land use, and neighborhood patterns. The Public History Program at CSU-Sacramento is structured to help history students acquire the skills and background necessary to succeed in the historical field outside of the academic world.

\(^1\) John W. Howe, ed. *Index and List of Illustrations for California Highways and Public Works.* Sacramento: California State Printing Office, 1937.
PUBLICATION HISTORY

*California Highways and Public Works* was the official journal of the Department of Public Works (Caltrans’ predecessor agency) from 1912 to 1967. The history of its publication is almost as involved as the California Highway System itself. Five issues of the journal, then called *California Highway Bulletin*, were published by the California Highway Commission and the Department of Engineering between 1912 and 1916. After a lapse in publication from 1916 to 1923 the journal, now renamed *California Highways*, was issued monthly through August, 1927 and bi-monthly for September-October, 1927. In November, 1927 the Department of Public Works took over publication and renamed the journal *California Highways and Public Works*. Under the Department of Public Works, the journal was issued intermittently monthly or bi-monthly through December, 1934 then on a regular monthly basis beginning in January, 1935 to February, 1943. Regular bi-monthly publication began in March-April, 1943 and continued until the final issue: January-February, 1967.

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CONTENT AND PURPOSE

The purpose of the journal remained steadfast despite its name changes and sporadic publication: it was to be “a forum for ideas,” providing information about the state highway system, “to the end that the work and methods of the California Highway Department may be improved.” In early 1916, State Highway Engineer Austin B. Fletcher ordered his division engineers to produce a “weekly story of about 1000 words on some phase of his work.” Because the engineers’ earlier efforts “dealt too largely in technicalities” Fletcher provided a number of suggestions for articles which might better appeal to the everyday citizen or the taxpaying motorist: “Mileage saved by completing new highway section; elimination of a steep, well-known grade, dangerous curve, or railroad crossing; description of a local celebration in honor of a finished highway; . . . the early history of California; the making accessible of a strange or picturesque new country or points of historic interest; [and] voluntary praise of the state highway system by distinguished visitors.” Other related subjects, such as water resources, roadway-related legislation and litigation, and traffic were also covered, though on a limited basis.

California Highways was an important media in the pre-television era. Presiding at bridge and highway dedication ceremonies (which were inevitably heavily publicized in the journal) was one of the few ways in which the governor and other politicians could reach a mass audience. During World War II, its pages expounded the need for a system of national defense highways, and reported conservation efforts by the Public Works Department on behalf of the war effort, such as replacing the familiar solid traffic stripe with a broken-line version (called the “Victory Stripe”) as a paint-saving measure.

Articles written for the journal were also frequently distributed to the local press in order to promote interest in a particular construction project and improve public relations. This was particularly important during the freeway construction-era; numerous articles in the 1950s address concerns about right-of-way clearance and the economic effect of highway bypasses on downtown commerce.

California Highways and Public Works still serves a valuable purpose as a historical reference for researchers and (inadvertently) as a record of changes in American culture and society throughout the first six decades of the twentieth century. Articles on the conversion of narrow wagon roads to paved one-lane roads, to two-lane divided highways, then four-lane highways, eight-lane expressways, and finally multilevel freeways reflect America’s increasing abandonment of public transportation in favor of automobile travel. Highways, bridges, and tunnels had to become stronger and wider in the mid-1930s in order to accommodate not only more automobiles, but an increased volume of trucks, which had begun to surpass rail as the number one transporter of goods. There are a great many articles during this time period regarding the inadequacy of highways, bridges and tunnels for modern traffic needs.

Postwar issues reflect the mood of a far more somber nation. Dedication celebrations became less frequent, and those which were held fail to draw the large crowds of prewar

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days. By the late 1950s, some public opinion toward road-building had shifted, as increasingly it began to be acknowledged that freeways also sometimes had negative aspects, including the disruption of neighborhoods and the effect on certain businesses dependent on a steady stream of automobile traffic. The journal addressed these concerns indirectly by publishing a series of articles and economic studies on the positive effects of the bypasses.

**DISCONTINUATION**

The decision to discontinue *California Highways* was (at least officially) based on economics. Despite its usefulness as a promotional tool for the Division of Highways, by the mid-1960s the magazine (which boasted a worldwide circulation) had become too expensive to produce and mail. In 1961, the State Senate Committee on Transportation considered leveraging a subscription charge for the publication. A readers’ survey poll found that “while a great many people indicated a willingness to pay [a subscription charge], it was . . . evident that there would have to be a substantial reduction in circulation if a charge were established.” The idea was dropped.

Then the journal’s content was challenged. While most of the readers surveyed in the 1961 poll had “appeared to be in favor of the publication’s long-established policy of carrying both technical and general-interest articles,” others saw room for improvement. A 1965 *Los Angeles Times* editorial blasted *California Highways*, comparing it unfavorably to similar publications in other states, and lamenting that taxpayers should have to foot the bill for a “costly and dull” magazine. Ronald Reagan ordered a cease of publication shortly after taking office as governor in 1967.

Unofficially, political motives were held responsible for the journal’s discontinuation. It was speculated that Reagan “squashed” the publication because it had featured former governor Pat Brown too prominently for his successor’s liking. Other politicians were accused of using *California Highways* to further their own careers.

In any case, with the loss of its official journal the Department of Public Works began to place greater emphasis on other types of media such as television and radio to counter negative publicity and address public concerns. Though now a part of history, *California Highways* continues to educate and inform.

**Main Subject Headings**

**ACCIDENTS**

**ARCHAEOLOGY & PALEONTOLOGY**

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7 Francis N. Hveem, qtd. in Frank Durkee oral history interview, 1979, Transportation Library History Center.

8 Minutes of the Caltrans History Committee Meeting. June 14, 1984.
AWARDS
BEAUTIFICATION--See LANDSCAPE & LANDSCAPE MAINTENANCE
BILLBOARDS--See OUTDOOR ADVERTISING
BRIDGES
BUDGETS & FUNDING
BUILDINGS
BYPASSES--See ROADSIDE BUSINESSES & BYPASSES
CALIFORNIA HIGHWAY COMMISSION
CONVENTIONS--See EVENTS
CONVICT LABOR
CULVERTS--See also EROSION CONTROL, Drainage
CURBS--See SAFETY
DAMS & CANALS
DEPARTMENT OF PUBLIC WORKS--See also PERSONNEL/EMPLOYMENT RELATED
DISTRICTS
DOCUMENTS & RECORDS
DRAINAGE--See EROSION CONTROL
ECONOMICS--See BUDGETS & FUNDING; GASOLINE TAXES; ROADSIDE BUSINESSES & BYPASSES
EDUCATION
ENVIRONMENTAL ISSUES--See also LANDSCAPE & LANDSCAPE MAINTENANCE
EQUIPMENT
EROSION CONTROL--See also FLOODING
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FREEWAYS
GASOLINE TAXES
GRADE CROSSINGS, SEPARATIONS & INTERCHANGES
GUARD RAILS--See SAFETY
HIGHWAYS--See ROUTES
HIGHWAY PLANNING & DESIGN
HISTORIC LANDMARKS & MONUMENTS
HISTORY: PEOPLE, PLACES & HISTORIC EVENTS--See also EVENTS
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MAINTENANCE--See also SNOW; LANDSCAPE & LANDSCAPE MAINTENANCE; EQUIPMENT
MEDIANS--See SAFETY
MOTOR VEHICLES--See also TRAFFIC

Main Subject Headings

NATIVE AMERICANS
NATURAL DISASTERS--See also FLOODING
ORGANIZATION OF DEPARTMENTS--See DEPARTMENT OF PUBLIC WORKS
OUTDOOR ADVERTISING
PALEONTOLOGY--See ARCHAEOLOGY & PALEONTOLOGY
PAVEMENT MARKINGS--See SAFETY
PAVEMENT & PAVING--See also EQUIPMENT, Paving Related
PEOPLE--See NAMES INDEX
PERSONNEL/EMPLOYMENT-RELATED
PUBLIC RELATIONS--See INFORMATIONAL SERVICES
RECORDS MANAGEMENT--See DOCUMENTS & RECORDS
REST STOPS & VISTA POINTS
RIGHT OF WAY
ROAD CONSTRUCTION--See also ROUTES; FREEWAYS
ROADSIDE BUSINESSES & BYPASSES
ROUTES
SAFETY--See also ACCIDENTS
SCENIC HIGHWAYS
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TRAFFIC--See also MOTOR VEHICLES
TRAINING--See EDUCATION; PERSONNEL/EMPLOYMENT
TREES--See LANDSCAPE & LANDSCAPE MAINTENANCE
TUNNELS & TUBES
UTILITIES
VISTA POINTS--See REST STOPS & VISTA POINTS
WORLD WAR II-RELATED
List of Abbreviations:

AAPT . . . . . . Association of American Paving Technologies
AASHO . . . . American Association of State Highway Officials
AISC . . . . . . American Institute of Steel Construction
APWA . . . . . . American Public Works Association
ARBA . . . . . . American Road Builders Association
ARWA . . . . . . American Right-of-Way Association
ASCE . . . . . . American Society of Civil Engineers
ASF . . . . . . . . Automobile Safety Foundation
BHIF . . . . . . . Better Highways Information Foundation
BPR . . . . . . Bureau of Public Roads
CH & PW . . . California Highways and Public Works
CHC . . . . . . California Highway Commission
CPUC . . . . . California Public Utilities Commission
CTBA . . . . . California Toll Bridge Authority
CSAA . . . . . California State Automobile Association
DHE . . . . . . District Highway Engineer
DBTC . . . . . Division of Bay Toll Crossings [formerly DSFBTC]
DSFBTC . . . Division of San Francisco Bay Toll Crossings
DWR . . . . . . Division of Water Resources
FAS . . . . . . . Federal Aid Secondary [Highway Program]
FHA . . . . . . Federal Highway Administrator
ITE . . . . . . . Institute of Traffic Engineers
ITTE . . . . . . Institute of Transportation and Traffic Engineering
NAS . . . . . . National Academy of Sciences; Naval Air Station
NPA . . . . . . National Production Authority
NRC . . . . . . National Research Council
PCI . . . . . . Prestressed Concrete Institute
PVS . . . . . . Professional and Vocational Standards
PW . . . . . . . . Public Works
SP . . . . . . . . Southern Pacific [Railroad]
UOP . . . . . . University of the Pacific
WASHO . . . Western Association of State Highway Officials

Alt. . . . . . . Alternate
Br. . . . . . . Bridge
Bus. . . . . . Business
Fwy. . . . . . Freeway
Hwy. . . . . . Highway
Leg. Rt. . . . Legislative Route
Pkwy. . . . . . Parkway
Rrd. . . . . . Railroad
Rt. . . . . . . Route

Key
# . . . . . . symbol for ‘illustration’
C, BC . . . . . . Cover, Back Cover
i.cvr. . . . . . inner cover
highway names/numbers in brackets . . . . . . . . . . [denotes former route names/number]
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World’s largest bridges, comparative sizes of                                   J/A '56 p4
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Alameda Creek Br. (I-680; Niles Canyon Rd.) built
Alameda Creek Br. (I-680; Niles Canyon Rd.) [Rt. 21] designed, constructed by F.W. Panhorst
Arroyo De La Laguna Br., Sunol
Arroyo Del Valle Br. (Santa Rita Rd., Pleasanton) built
Cypress St. Viaduct (I-880; Oakland) [Rt. 17] first of kind in state, under construction dedicated and opened
Dry Creek Br. (Alvarado-Niles Rd.) built using unusual method
Dumbarton Br.
El Cerrito Overhead (I-80, Albany), deck of serrated
I-580; Boehmer Hill-Castro Valley unit, bridges planned for Mountain House underpass bridge (I-580) [US 50] planned
Posey (Alameda) Tube Overcrossing built
San Francisco-Oakland Bay Br.--See San Francisco Co.
San Leandro Bay Br. to be replaced; oldest swing span in state replacement span opened to traffic
San Lorenzo Creek Channel Br. (Hayward) improved
San Mateo-Hayward Br.--See San Mateo Co.

Amador Co.

Cosumnes River Br. (Rt. 49; Plymouth) built
Cosumnes River Br. (Rt. 49; Plymouth) truss replaced
Mokelumne River Br. (Rt. 49; south of Jackson) built

Butte Co.

Bidwell Bar Br. (Rt. 70) [US 40-Alt.] under construction
Butte City Br. across Sacramento River dedicated
West Branch Bridge (Rt. 70, Feather River) planned completed opened

Calaveras Co.

N. Fork Calaveras River Br. (Rt. 49; San Andreas) built

Contra Costa Co.

Antioch Toll Br.
state negotiates purchase of purchased by State; ceremony for operation of Martinez-Benicia Ferry, bridge purchase and
Martinez-Benicia Ferry, bridge purchase and
Martinez-Benicia Ferry, bridge purchase and

Benicia-Martinez Br.--See Solano Co.

Carquinez Toll Br.
state negotiates purchase of purchased by state; ceremony for operation of Martinez-Benicia Ferry, bridge purchase and
Martinez-Benicia Ferry, bridge purchase and

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history of span
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**parallel span proposed**
financing of
plans for
progress on
traffic on

dedicated and opened

engineers win Hewes award for design and use steel
I-680, Concord; Monument Blvd.-Olivera Rd. unit, bridges planned for
Orinda Rd. Undercrossing (Rt. 24) planned
Pacheco Slough Br. proposed

**Richmond-San Rafael Br.**
construction underway; history of project
pier construction underway
diver has accident
operational innovations planned for
Gov. Knight makes inspection of
aluminum falsework, use of on bridge project
progress on
financing of
injured steelworker drives last rivet
nearing completion
dedicated and opened

**Del Norte Co.**
Douglas Memorial Br. (US 101, Klamath)
Howard Griffin Memorial Br. (Mid-fork Smith River; Crescent City)

**Louis De Martin Sr. Br.** (Wilson Creek, US 101; Klamath) built
renamed

**Smith River Br.** (US 101, Crescent City) dedicated
South Fork Br. (Smith River; S. Fork Rd.) planned
built, replaces old span

**El Dorado Co.**
Aukum Road Br. (N. Fork Cosumnes River) built
Bedford Ave pedestrian overcrossing (US 50; Placerville) planned
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**Colomas St. pedestrian overcrossing** (US 50; Placerville) planned
Hastings Creek Br. (Rt. 49; Coloma) built
Locust St. freeway bridge (US 50; Placerville) built
S. Fork American River bridge (Rt. 49; Coloma) built
Washington St. freeway bridge (US 50; Placerville) built
Webber Creek Br. (US 50) completed

**parallel span built**

wins AISC award of merit
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- Fresno; Tuolumne St., Stanislaus St. one-way bridges built  
  - S/O ‘58 p62#
- Hot Springs Canyon Creek Br. (Rt. 198, Warthan Canyon)  
  - J/A ‘51 p22#
  - inadequate bridges bypassed  
    - Aug ‘42 p2#
- Kings River Br. (Rt. 99, Kingsburg) under construction  
  - D ‘39 p10#
- Lanes Bridge (San Joaquin River; Rt. 41) dedicated  
  - N ‘41 p16#
- Warthan Creek Br. (Rt. 198, Warthan Canyon) built  
  - J/A ‘51 p22#
- Weber Ave. Overcrossing (Fresno) planned  
  - bids for opened  
    - N/D ‘52 p57
- White’s Br. (Kings Slough; Rt. 180) rebuilt  
  - M/A ‘47 p15#

#### Glenn Co.
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  - Mar ‘41 p12#
- Willow Creek Br. proposed  
  - M/A ‘47 p3

#### Humboldt Co.
- Clear Creek covered bridge replaced by new structure  
  - N/D ‘50 p12#
- Dillon Creek covered bridge replaced by modern structure  
  - N/D ‘50 p13#
- Eagle Point Viaduct (US 101) under construction  
  - J/F ‘62 p7#
  - completed  
    - S/O ‘64 p24#
- Eureka Slough Br. linking Eureka-Arcata completed (US 101)  
  - S/O ‘56 p9#
- George C. Cole Br. (US 101, S. Fork Eel River; Myers Flat)  
  - under construction  
    - J/F ‘62 p7#
  - wins AISC prize  
    - J/F ‘63 p28#
- George M. Leatherwood Memorial Br. (US 101, S. Fork Eel River)  
  - existing span to become part of interchange  
    - M/J ‘58 p39#
  - proposed span named by Legislature  
    - M/J ‘57 p64
  - wins award for beauty  
    - N/D ‘59 p25#
- Hoopa Br. (Rt. 96, Trinity River) [Rt. 84] destroyed by flood  
  - J/F ‘56 p61#
  - replacement span constructed  
    - S/O ‘57 p59#
- Humboldt Bay Br., construction of deemed feasible  
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#### North Scotia Br. (US 101, Eel River; Scotia-Rio Dell)
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  - dedicated  
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  - partially destroyed in 1964 flood  
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Rt. 10; Santa Monica Fwy.
Los Angeles River Br., ground-breaking held  J/A ‘57 p23#
nearing completion  J/A ‘59 p39#
viaduct under construction, cast-in-hole piles used on  J/F ‘61 p13#
Santa Clara River Br. and overhead planned (Palmdale-Los Angeles)  M/A ‘47 p4
completed  M/A ‘49 p12#
San Gabriel River Br. (US 101, Long Beach) raised  M/J ‘62 p59#
Sunset Blvd. overcrossing (I-405; San Diego Fwy.) [Sepulveda Fwy.]  S/O ‘54 p20#
ground-breaking held

Vincent Thomas Br. [San Pedro-Terminal Island Br.]
plans for; funding for approved  M/J ‘59 p39#;  J/F ‘60 p18
ground-breaking held  J/A ‘60 p20#
bids for opened  S/O ‘60 p56
survey controls established  S/O ‘60 p57#
bonds sold  M/J ‘61 p79
“San Pedro-Terminal Island Br.” renamed  J/A ‘61 p33
progress on  M/J ‘62 p33;  M/A ‘63 p27#
toll schedule adopted  J/A ‘62 p28
cable spinning completed  J/F ‘63 p9#
dedication held; not yet opened to traffic  S/O ‘63 p6
wins AISC Award of Merit  J/F ‘65 p40#
BRIDGES, Continued

Madera Co.
- Chowchilla River Br. (Rt. 99) O '41 p14
- Cottonwood Creek Br. (Rt. 145, Madera-Friant) [Leg. Rt. 126] Jun '41 p4#
- Fine Gold Creek bridge proposed M/A '47 p4
- Lanes Br. (San Joaquin River, Rt. 41) dedicated N '41 p16#

Marin Co.
- Corte Madre Creek Br. under construction (US 101) M/A '59 p5#
- Golden Gate Br.--See San Francisco Co.
- Mill Crossing bridge built from war surplus (Lagunitas Creek) N/D '47 p10
- Petaluma Creek high-level bridge replaces draw-span (Rt. 37) M/A '58 p25#
- Richardson Bay Br., plans for (US 101) M/A '54 p25
  Gov. Knight makes inspection of
  opened to traffic S/O '56 p31#
- Richmond-San Rafael Br.--See Contra Costa Co.
  San Rafael highway viaduct proposed (US 101) Jul '40 p6#
  progress on D '40 p10#; Jul '41 p20#
  dedicated N '41 p14#
  entirely completed Jan '42 p5#

Mariposa Co.
- six small bridge structures planned M/A '47 p5

Mendocino Co.
- 87 bridges replaced, eliminated or strengthened S '39 p1#
- Albion River bridge dedicated (Albion) J/A '44 p4#
- Alder Creek Br. (Rt. 1) [Leg. Rt. 56] replaced J/F '47 p21#
- Blue Slide Gulch bridge replaced (Rt. 1) J/F '47 p21#
- Bridges Creek Br. (US 101, Garberville) deck placement Mar '39 p22#
- Chamberlain Creek bridge planned M/A '47 p5
- Gualala Br. built; history of crossing (Rt. 1) M/A '59 p18#
- Hare Creek Br., (Rt. 1, Ft. Bragg) completed; dedicated to war veteran N/D '48 p32#
- Morrison Creek bridge planned M/A '47 p5
- Navarro River Br. (Rt. 1, Albion) nears completion M/J '49 p32#
- Noyo River Br. (Rt. 1, Ft. Bragg) proposed J/F '47 p16
  completed; dedicated to war veteran N/D '48 p32#
  posted bridges, replacement of J/F '47 p20#
- Rock Creek Br., emergency detour constructed Jul '37 p16#
- Rock Creek Br. (US 101, at junction with Eel River) planned N/D '47 p32
  completed; problems of construction M/A '49 p52#
- Russian Gulch Br. (Rt. 1, Ft. Bragg) opened Jul '40 p20#; D '40 p19#
- Schooner Gulch bridge built Aug '41 p23#
- Slick Rock Creek bridge replaced by culvert and fill (Rt. 1) J/F '47 p21#
- Ten Mile River Br. (Rt. 1, Ft. Bragg) dedicated N/D '54 p22#

Merced Co.
- Gustine Canal bridge replaced (Rt. 33) M/J '54 p46#
- Livingston Canal Br. (Atwater; Bellevue Rd.) replaced M/A '64 p54
- Bear Creek Br. replaced (Rt. 140) M/J '54 p48#
- San Luis Forebay channel, twin bridges built (Rt. 152) J/A '65 p2#
BRIDGES, Continued

Monterey Co.

- Big Creek Br. (Rt. 1) built; unique design features of... Jul '38 p24#; May '39 p8#
- Bixby Arch (Rt. 1) [Leg. Rt. 56] built Jul '37 p4#
- Hot Springs Creek Br. (Rt., Big Sur) built M/J '64 p52#
- King City Br. (US 101, Salinas River) built J/F '57 p26#
- Neponset Br. (Rt. 156, Salinas River) built S/O '44 p12
- Rt. 1; timber bridges replaced; scenic bridges on route M/A '63 p52
- Salinas River Br. (US 101, near Nacimiento River) to be replaced D '39 p8#
- Soledad Br. (US 101, Salinas River) opened N '38 p22#
- parallel span planned completed M/A '61 p52#
- Tembladero Slough Br. built (Rt. 156) S/O '44 p26
- Vicente Creek Br. (Rt. 1) wins PCI award of merit J/A '65 i.cvr.#
- Willow Springs Creek Br. replaced (Rt. 1) wins PCI award of merit J/A '64 p7#

Napa Co.

- Capell Valley Br. (Rt. 128, Monticello Dam) built M/A '55 p17
- Maxwell Br. (Rt. 29, Napa River) dedicated; history of project N/D '49 p18#
- Nonskid grid-deck created with studs M/J '65 p48#
- Napa River Br. south of Napa planned M/A '47 p5
- Silverado Trail bridges (Silverado Trail Rd.) realigned N/D '59 p27#
- Soda Springs Creek Br. (Silverado Trail Rd.) planned M/A '47 p5

Nevada Co.

- Truckee River Br. wins design award I-80 [US 40] N/D '60 p63#

Orange Co.

- Artesia St. bridges (Rt. 91) [Leg Rt. 175] J/A '53 p11#
- Santa Ana River Br. (Rt. 91 [Rt. 175], Riverside Fwy.) built J/A '55 p52#

Placer Co.

- N. Fork American River Br. replaced (Foresthill) N/D '55 p20#
- N. Fork American River Br. towers replaced (Rt. 49, Auburn) M/J '44 p12#
- replacement bridge built M/A '48 p13#
- S. Fork Yuba River Br. built (I-80, Cisco Grove) J/A '63 i.cvr.; S/O '63 p26

Plumas Co.

- Hamilton Branch bridge planned M/A '47 p5
- Feather River [FAS] bridge under construction (Portola) N/D '53 p12
- Indian Creek Br. (Rt. 70, Keddie) receives award N/D '55 p19#
- Indian Creek bridge trusses repaired (Quincy) M/J '44 p15#
- Pulga steel arch bridge (Rt. 70) [US 40-Alt.] J/A '45 p6
- Rt. 70 (Feather River Hwy.) [US 40-Alt], bridges on Aug '37 p4#
- Wolf Creek Br. (Rt. 89 [Rt. 83], Greenville) replacement built S '39 p14#

Riverside Co.

- Chino Creek Br. (Rt. 71) [Prado Dam Hwy.] built J/A '50 p52
- Colorado River Br. (I-10 [US 60-70] Blythe) built M/J '59 p45#
- Crestmore Br. [FAS project] (Riverside) lengthened J/A '58 p33#
- Horsethief Creek Br. (I-15 [Rt. 77], Temescal Canyon) replaced O '41 p12#
- Santa Ana River bridge (Rt. 71) [Prado Dam Hwy.] built J/A '50 p52#
- Smoky Gulch Br., (I-10, Indio) prefabricated steel decking used J/A '50 p26#
- Whitewater River bridges (RT. 99; Garner-Thousand Palms) built J/A '54 p56#
BRIDGES, Continued

Sacramento Co.

Arcade Creek Br. under construction (at Madison Ave.) M/A '47 p5
Bear Slough Br. under construction M/A '47 p5#
Cosumnes River Br. built (Dillard Rd.) M/A '65 p76#
Dry Creek Br. built (Galt) O '38 p14#
Elvas Br., progress on (American River at 30th St.) completed N/D '54 p14#
widening of planned M/A '65 p59
Elvas Fwy., bridges built for (I-80) [US 99E] N/D '54 p14#
Ft. Sutter Viaduct under construction (29th-30th St.; I-80) N/D '64 p53#
Georgiana Slough Br. wins AISC prize (Walnut Grove) J/F '64 p28#
H Street Br. widened (American River, Sacramento) J/A '51 p28
I Street Br., new approach dedicated (Sacramento) O '37 p16#
Laguna Creek Br. built (Elk Grove) M/A '47 p5#
Pioneer Memorial Br. (Sacramento River) [W-X Street Br.] construction begins on M/A '63 p15
collection of superstructure planned M/J '64 p65
progress on S/O '64 p27#
Three Mile Slough Br. (Rt. 160 [Rt. 24], Rio Vista) built S/O '49 p26#
Watt Avenue Br. (American River) built S/O '61 p25#

San Benito Co.
Pajaro Br. to be built east of Watsonville M/A '48 p36
Pajaro River Br. (US 101, Sargent) replaces old structure Aug '41 p18#; Jan '42 p14#

San Bernardino Co.

Chino Creek Br. (Rt. 71) [Prado Dam Hwy.] built J/A '50 p52
City Creek arch bridge (City Creek Rd., San Bernardino) built M/A '48 p22#
City Creek Br. at E. 5th St. (San Bernardino) built J/F '49 p32#
I-10 [US 70-99]; Ontario-Upland unit bridges built for N/D '54 p7#
Mojave River Br. (Victorville Narrows, Rt. 18; Victorville) built M/A '63 p50#
Needles; eight precast, prestressed bridges built (I-40) [US 66] J/F '58 p56#
Red Rock Br. (I-40 [US 66], near Topock, AZ.) built J/A '47 p20#
Santa Ana River bridge (Rt. 71) [Prado Dam Hwy.] built J/A '50 p52#
Santa Ana River Br. (Waterman Ave., San Bernardino) planned M/A '47 p6
built J/F '49 p32#
Timoteo Creek Br. (San Bernardino) proposed M/A '47 p6
built J/F '49 p32#

San Diego Co.

Cabrillo Fwy., bridges built for (Rt. 163) [US 395] M/A '46 p5#

Coronado Br.

studies regarding authorized S/O '61 p72; J/A '62 p28
hearing on held M/J '62 p62
plans for S/O '62 p85#
test borings started M/J '65 p16
Devil’s Canyon Br. (I-8) [US 80] under construction completed M/J '63 i.cvr. p43#
wins AICS award for beauty J/F '64 p40#
Green Valley Creek bridge (I-15) [US 395] built N/D '50 p18
MacKinnon Ave. Overcrossing wins PCI award (I-5) J/A '65 i.cvr. p85#
Penasquitos Creek Br. (I-15) [US 395] built N/D '50 p18#
parallel span built M/A '65 p64#
San Clemente Canyon Br. (I-15) [US 395] built N/D '50 p18

BRIDGES San Diego Co., Continued
San Luis Rey River Br. (I-8) [US 80] to be widened
San Mateo Creek Br. (US 101) under construction
Sweetwater River Br. (I-5) [US 101] built
Sweetwater River Br. (I-8, Descanso Junction) under construction

San Francisco Co.
9th and 10th St. Viaduct judged best of its kind (Bayshore Fwy., US 101)
Embarcadero Fwy. Viaduct completed

Golden Gate Br.
construction history of
ready for dedication
Waldo Approach to--See ROUTES, Marin Co.
wartime fiscal problems of; State offers aid to
Presidio Approach to--See ROUTES; TUNNELS, San Francisco Co.
described
20th Anniversary of

San Francisco Bay Crossings, general
additional bridges urgently needed
Angel Island crossing, S.F.-Marin Co. proposed
second/parallel Bay bridge proposed
estimated location, cost of
pertinent facts concerning
foundation exploration in San Francisco Bay
financing
two new Bay crossings, approval for given
problems of to be studied
consultants for project hired
recommendations for location
parallel crossing of S.F. Bay ordered
Purcell recommends twin bridges
parallel bridge endorsed by Gov. Warren

“Southern Crossing”
gineers’ report to governor regarding
plans, engineering studies for
plans for approved by private consultant team
engineering and economical matters regarding
experts report on financial feasibility of
all reports on ordered by CTBA
Advisory Committee on named by governor

San Francisco-Oakland Bay Br.
accidents and
Andrew, Charles E. made Bay Bridge Engineer
anniversaries
twenty-fifth
construction history
description of
emergency assistance on
service charge for refueling motorists on span introduced
mobile radio system used for
financing--See BUDGETS, Bonds, Bay Br.
insurance for assured
landscaping I-80 approaches to
BRIDGES San Francisco Co., Continued

lane control signals on lower deck to be installed M/A '54 p18
maintenance, costs of estimated N/D '44 p1
maintenance operations N/D '60 p60
named one of “7 Civil Engineering Wonders” N/D '55 p29; M/A '58 p23#

painting
“air analyzer” used to test paint resistance Apr '38 p23#
 gantries used for O '37 p22#; J/F '46 p5#; S/O '61 p50#
history of J/A '61 p5#
problems of Apr '40 p18#
parking provided for motorists of Jun '37 p25#
Port of Oakland Overhead, work on underway D '37 p20#
alterations to planned M/A '54 p18
Purcell, C. H. honored for work on bridge Apr '37 p16

railway system
“Building Bay Bridge Railroad” May '38 p8#
interurban train platforms, construction begins on Mar '37 p17#
first railway tie laid D '37 p23#
nearing completion Apr '38 p23
train movements controlled by push buttons S '38 p 24#
first train across O '38 p18#
railway terminal building dedicated F '39 p6#
removal of rail tracks J/A '60 p35

reconstruction, conversion of to one-way per level
lower deck paved, rail system removed J/A '60 p35#
upper deck strengthening operations J/F '62 p36#; M/J '63 p58
reconstruction nearing completion M/A '64 p48#

toll related
automatic toll machines J/A '59 p7#; M/J '60 p46
cat’s whisker device used to prevent static Mar '37 p27; Ap '37 p21#
revenues of over five-year period May '41 p1
toll collectors, problems of J/A '46 p8
toll-free privileges clarified by new law J/A '46 p28
toll plaza and approaches to be widened M/A '54 p18
toll rates, reduction in tolls Jun '39 p1#; J '40 p19; Jun '40 p22
trucks; per axle charge replaces tonnage-based toll J/A '60 p62#

traffic
annual statistics D '37 p3; O '39 p23; N/D '62 p60; N/D '63 p56
Golden Gate Exposition and N/D '63 p56
exceeds original estimates; second bay span proposed J/F '47 p1
Key System strike, traffic problems on bridge during M/A '54 p27#
monthly statistics published Jun '37--F '42
one-way traffic established M/A '64 p49
peak traffic creates problems J/F '46 p21
traffic records set by Jun '40 p20; S/O '58 p64; M/J '64 p17
Treasure Island-Bay Bridge highway constructed Jun '38 p22#
improvement of ramp connections planned M/A '54 p18#
truck lane added to lower deck roadway J/A '45 p26#
war effort and N/D '44 p26
Yerba Buena Island, ramp connection to be improved M/A '54 p17#
Yerba Buena Island tunnel—See TUNNELS
BRIDGES, Continued

San Joaquin Co.

- Austin Rd. overcrossing (Rt. 99; Ripon-Manteca) planned
  - Planned: N/D '53 p25
- California Aqueduct twin bridges planned (I-5)
  - Planned: M/J '65 p15
- Clements; posted bridge replaced (Mokelumne River, Rt. 88)
  - Replaced: J/A '54 p36
- Delta-Mendota Canal bridges (I-205) [US 50] under construction
  - Planned under construction: M/A '53 p26#
- Grant Line Canal Br. (Tracy Rd.) replacement planned
  - Planned replacement: M/A '47 p6
  - Wins design award: J/F '60 p55#
- Jack Tone Rd. overcrossing (Rt. 99; Ripon-Manteca) planned
  - Planned: N/D '53 p25
- Mokelumne River Br. (Peltier Rd.) planned
  - Planned: M/J '49 p24#
  - Completed: Apr '41 p10
- Mormon Slough twin bridges (Rt. 99; Stockton)
  - Planned: M/A '50 p12#
- Mossdale Br. (San Joaquin River, I-205/Rt. 120) planned
  - Planned: S/O '46 p19
- Paradise Cut overflow bridge (Grant Line Rd./I-205) built
  - Planned: S/O '46 p19#
- Rt. 99; Stockton expressway, highway bridges for
  - Planned: J/A '49 p30#
- Stanislaus River Br. replaces flood-destroyed span
  - Planned: N/D '59 p26#

San Luis Obispo Co.

- Arroyo Grande Creek twin bridges built (US 101)
  - Built: S/O '59 p36#
- Leffingwell Creek Br., corrosion-resistant paint tested
  - Tested: J/F '62 p26#; M/A '65 p60#
- Salinas River Br., (US 101, Paso Robles) progress on
  - Planned: J/A '57 p5#
- San Luis Obispo Creek bridge (US 101, Miles)
  - Progress on: Aug '41 p10#
- US 101; San Luis Obispo Bypass, bridges built for
  - Planned: J/A '53 p36#; S/O '54 p46#

San Mateo Co.

- San Francisquito Br. [Alpine Rd. FAS project] built
  - Built: J/A '51 p10#
- Dumbarton Br. purchased by state
  - Purchased: S/O '51 p11
  - Legal/right of way problems and traffic on
    - Problems and traffic: M/J '61 p44; N/D '63 p56
- Pescadero Creek Br. (Rt. 1) built
  - Built: S '41 p4
- San Gregorio Br. (Rt. 1) built
  - Built: S '41 p4
- San Mateo Creek Br. (I-280, Junipero Serra Fwy.) planned
  - Planned: M/J '64 p24#
  - Design of: S/O '64 p38; M/J '65 p36

San Mateo-Hayward Br.

- Purchased by state
  - Purchased: S/O '51 p11#
- Legal/right of way problems and widening of; fill work for begins
  - Problems and fill work: M/J '60 p71
- Mole fill construction planned
  - Planned: M/A '61 p71
- Traffic on
  - Traffic: M/J '61 p44; N/D '62 p60; N/D '63 p56
  - Trestle construction planned
    - Planned: M/J '61 p21; J/A '61 p51
- Double-decked structure to replace lift span
  - Planned replacement: S/O '61 i.cvr.#
  - Design of approved
    - Approved: J/F '62 p61
  - Construction begins on
    - Begins: J/F '63 p25#
  - Contract for substructure work awarded
    - Awarded: J/A '63 p48
  - Progress on; plans for
    - Progress: S/O '64 p65#
  - Unique lighting planned for
    - Planned: J/F '65 p34
  - Steel welds tested with radiography, ultrasonic waves
    - Tested: J/F '67 p11#
  - Old span to be sold, removed
    - Planned removal: J/F '65 p30
  - Stanford University linear accelerator bridge planned
    - Planned: M/J '64 p40
### BRIDGES, Continued

#### Santa Barbara Co.

- **Canada del Refugio Br.** (US 101) built: O '41 p8#
- **Cold Spring Canyon Br.** (Rt. 150, San Marcos Pass) built: S/O '63 p14#
  - Engineer wins design award: S/O '64 p59#
  - Wins AICS award for beauty: J/F '65 p40#
  - Wins Governor’s Design Award: J/F '67 p37#
- **Dos Pueblos Br.** (US 101) built: O '41 p8#; Mar '42 p10#
- **Eagle Creek Br.** (US 101) built: O '41 p8#; Mar '42 p10#
- **Huasna River Br.** (Rt. 166, Cuyama Rd.) under construction: N/D '59 p17#
  - Wins design award: N/D '60 p63#
- **Robinson Br.** (Rt. 246 [Rt. 149], Santa Ynez River) opens: Jun '39 p22#
- **Santa Maria River twin bridges** (US 101) built: J/A '65 p28#

#### Santa Clara Co.

- **Coyote Creek parallel bridges** (I-880) [Rt. 17] built: J/F '53 p7#
- I-880 [Rt. 17, Nimitz Fwy.], bridges built: J/F '53 p7
- **Marsh Rd. Overcrossing wins award for beauty** (US 101): N/D '59 p25#
- **Pajaro River Br.** (US 101; Sargent) built: Aug '41 p18#; Jan '42 p14#
- **Rt. 17; sidehill viaduct under construction** completed: S '40 p8#

#### Santa Cruz Co.

- **Corralitos Creek Br.** (Watsonville) proposed: M/A '47 p7
- **Rt. 1; Rob Roy-Santa Cruz unit,** 8 major bridges planned: M/J '47 p18; N/D '49 p48
- **San Lorenzo River Br. replaces old span** (Bear Creek Rd.): J/A '54 p44#

#### Shasta Co.

- **Antler Br.** (I-5) [US 99] to carry relocated portion of highway: Jan '40 p14
  - Constructing progress on completed: Jan '41 p18#
  - Completed: Aug '41 p1#
- **Bear Creek Br.** (Dersch Rd.) [FAS Rt. 1350] built: J/A '66 p39
- **Cow Creek Br.** (Dersch Rd.) [FAS Rt. 1350] built: J/A '66 p39
- **Dog Creek Br.** (I-5) [US 99] replaced: J/F '57 p24#
- **Dry Creek Br.,** (Dersch Rd.) [FAS Rt. 1350] construction of: J/A '66 p39
- **Hatchet Creek Br.** replaced by arch culvert (Rt. 299E): M/A '60 p34
- **Lake Britton Br.** (Forest Rt. 77; Mt. Shasta-Mt. Lassen Hwy.) built: May '40 p24#
- **Lower Lack Creek Br.,** (Dersch Rd.) [FAS Rt. 1350] construction of: J/A '66 p39
- **Montgomery Creek Br.** (Rt. 299E) built: M/A '60 p34
- **Oak Run Creek Br.** replaced by prefabricated railroad span (Rt. 44): M/A '44 p19#
- **Pit River Br.** (Forest Rt. 77; Mt. Shasta-Mt. Lassen Hwy.) built: May '40 p24#

#### Pit River Br., contract awarded for (I-5) [US 99]

- Plans for construction of U.S., Southern Pacific Railroad to share operation of construction progress on last span erected to open soon opened to traffic described: N '39 p16
  - Mar '41 p14#; O '41 p1# D '41 p12# F '42 p13 F '43 p1#
  - J/A '45 p5#
- **Redding; SP Railroad overhead replaced** (Rt. 299E): N/D '59 p17
- **Sacramento River Br.** (I-5, Redding) widened: J/F '62 p15
- **Sulphur Creek Br.** (I-5) [US 99] built: Mar '38 p12#
- **Upper Lack Creek Br.** (Dersch Rd.) [FAS Rt. 1350] built: J/A '66 p39
- **Whiskey Creek Br.** built on relocated unit (Rt. 299E): M/A '62 p33#
BRIDGES, Continued

Sierra Co.
- N. Fork Yuba River Br. to replace flood-damaged span J/A ‘63 p18
- Salmon Creek Br. (Rt. 49; Sierra-Bassetts) built M/J ‘65 p4#

Siskiyou Co.
- Scott River Br. replaces washed-out span (Rt. 3; Ft. Jones) [Rt. 82] N/D ‘59 p55#

Solano Co.

Benicia-Martinez Br.
- plans for J/A ‘58 p52
- bond sale authorized M/J ‘59 p13#
- construction begins on M/J ‘60 p35#
- progress on J/A ‘61 p18#; M/J ‘62 p33
- toll schedule adopted J/A ‘62 p28
- opened; dedication held S/O ‘62 p2#
- traffic on S/O ‘62 p35
- annual operations N/D ‘63 p55

Carquinez Br.—See Contra Costa Co.

Napa River Br., Vallejo
- substructure work on replacement bridge completed J/A ‘63 p5#

Putah Creek bridges (Dixon-Davis Cut-off) S ‘40 p26; F ‘41 p24#; O ‘42 p10#

Rindler Creek Br. (I-80, American Canyon Rd.) [US 40] to be replaced by fill M/A ‘43 p16#

Rio Vista Br. (Sacramento River)
- built J/F ‘46 p15#
- lift span replacement under construction J/A ‘59 p5#
- completed M/J ‘60 p51#
- closed temporarily due to lift span cable mishap J/F ‘63 p32
- merchant vessel carries away entire truss span J/F ‘67 p4#

Sonoma Co.

Austin Creek Br. under construction (Rt. 12) M/J ‘62 p30#
- Fife Creek Br. (Rt. 116; Guerneville-Northwood Park) O ‘39 p14
- Hulbert Creek Br. (Rt. 116; Guerneville-Northwood Park) O ‘39 p14
- Jimtown Br. (Russian River, Healdsburg Rd.) planned M/A ‘47 p7
- completed J/F ‘50 p54#
- Petaluma Creek Br. (US 101) under construction M/J ‘54 p38#
- completed M/J ‘55 p5#
- Petaluma Creek high-level bridge to replace draw-span (Rt. 37) M/A ‘58 p25#
- Rt. 12, Guerneville; sidehill viaducts under construction D ‘40 p6#
- Rt. 37 [Rt. 48]; Cloverdale-Navarro River several bridges replaced, reconstructed S ‘39 p2
- Russian River Br. under construction (Hacienda) M/A ‘47 p7#
- US 101 (Redwood Hwy.); 18 unsafe timber bridges eliminated D ‘40 p24

Stanislaus Co.

Grayson Road Br. replaced J/F ‘64 p35#
- Greer Road Br. (Stanislaus River) built M/J ‘61 p67#
- Laird Slough Br. replaced J/F ‘64 p35#
- Stanislaus River Br. replaces flood-destroyed span N/D ‘59 p26#
- Tuolumne River Br. (Santa Fe Ave., Empire) proposed completed M/A ‘47 p8
- Tuolumne River twin bridges under construction (Rt. 99, Modesto) S/O ‘63 p42#
BRIDGES, Continued

Sutter Co.
Cross Canal Br. (El Centro Blvd.) built M/A ’50 p48#
Feather River Br. (Marysville-Yuba City) progress on S/O ‘46 p22#; M/J ’47 p20#
dedicated S/O ’47 p22#
Nicolaus Br. (Feather River) completed J/A ’59 p42#
Sutter Bypass Br. completed N ’38 p12#

Tehama Co.
Blue Tent Creek Br. (Rt. 99) built Mar ’41 p16#
Dibble Creek Br. (Rt. 99) built Mar ’41 p16#
Elder Creek Br. (Gerber) planned M/A ’47 p8
Paynes Creek Br. [FAS] (Dales Station) built N/D ’49 p8#
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- Highways, general progress: J/F '57 p55; J/F '58 p1#; N/D '58 p11#; M/J '59 p27#; M/J '64 p18#
- Paper management and roads, improvements needed: Jan '39 p1#

**Dist. 9** (Inyo, East Kern, Mono)
- Flood damage: N/D '45 p24#
- Highways, general progress: J/A '52 p39#; S/O '58 p7#
- Roads, improvements needed: Jan '39 p6#
- US 395 and: J/A '52 p39

**Dist. 10** (Amador, Alpine, Calaveras, Mariposa, Merced, S. Joaquin, Solano, Stanislaus, Tuol.)
- Flood damage: J/F '56 p19#
- Highways, general progress: J/A '58 p16#; J/A '59 p3#
- I-5 [Westside Fwy.] construction: M/A '66 p38#
- Roads, improvements needed: Mar '39 p9#
- Rt. 99 [US 99] fifty percent is 4-lane divided roadway: N/D '47 p21#

**Dist. 11** (East Riverside, Imperial, San Diego)
- Access roads built for national defense: S/O '44 p2#
- Flood damage: Mar '37 p12#; Apr '38 p8, p13#; O '39 p6#
- Highways, general progress: N/D '58 p33#; M/J '59 p3#
- Roads, improvements needed: F '39 p3#
- Roman numerals no longer used to designate districts: S/O '64 p50

**DOCUMENTS & RECORDS**
- Bureau of Highways historic documents found: J/A '46 p3#
- Official records salvaged from flood-swept maintenance shop: M/A '56 p59#
- Paper management operations: M/J '64 p18#
- Public knowledge of traffic engineering measures, importance of: J/F '53 p56
- Records Management program launched: M/J '58 p1#
- Management Analysis Section, functions of: N/D '60 p39; N/D '61 p45
- Records photographed to expedite title searches: M/A '49 p54#
DOCSUMENTS & RECORDS, Continued

Reproduction of maps/plans
  reduced-size plans introduced J/A ‘62 p45#
  blueprint and diazo materials, use of M/A ‘50 p61#
  negative scribing used in place of conventional drafting methods J/A ‘63 p32#
Tahoe Wagon Road, original deed found, given to Dept. of PW F ‘42 p15

EDUCATION

Bridge design classes offered Jul ‘40 p19
Career guidance exhibits spur student interest M/J ‘63 p7#
Construction course conducted at Marysville office M/J ‘59 p44
Drainage design courses offered N/D ‘51 p21; S/O ‘54 p57

Engineering
  classes offered N/D ‘52 p51
  examinations N/D ‘49 p46; N/D ‘55 p60
  fellowships J/F ‘54 p64; S/O ‘54 p55
  shortage of engineer graduates J/A ‘52 p56; N/D ‘55 p56
  training in public relations M/J ‘51 p50
Equipment Dept. holds on-job training classes M/J ‘53 p1#
Filmstrip photos used as construction training aids S/O ‘56 p34
Inspection Procedure course (cement concrete) M/J ‘59 p40; S/O ‘64 p61#
Institute of Transportation and Traffic Engineering (ITTE) J/F ‘64 p13
Maintenance classes S/O ‘54 p38#; M/A ‘59 p44; J/F ‘62 p69#
Photogrammetry course conducted M/J ‘51 p44#
Radiological Monitoring classes held M/A ‘55 p60#
Right-of-way training academy instituted at UC Davis S/O ‘63 p21#
  additional academies conducted J/A ‘64 p63; S/O ‘65 p53#
Students from foreign nations study California road building S/O ‘45 p21#
Supervision Course given M/A ‘59 p43
Traffic engineering textbook, first on subject, published M/A ‘56 p29
Transportation, traffic engineering courses introduced at U.C. J/F ‘49 p43
Welding engineering class attended by state employees Apr ‘42 p15#

ENVIRONMENTAL ISSUES—See also LANDSCAPE & LANDSCAPE MAINTENANCE

Butterflies; arrival of monarchs celebrated in Pacific Grove M/J ‘56 p64
California Condors, decreasing population of M/A ‘58 p31
California Poppy, preservation of J/A ‘48 p32; N/D ‘48 p55
Fish and Game-Highways agreement set M/A ‘62 p4
I-80; East Bay approach to Bay Bridge, sewage stench on Jun ‘40 p11
Shasta Lake; effect of recreational activity on fish population J/A ‘52 p31#
Smog, damaging effects of S/O ‘66 p12#
Smoke from buses, trucks to be controlled J/F ‘60 p28
EQUIPMENT

Atmometer (measures water evaporation)                      J/A ‘62 p49#
Bridge painting equipment used by mobile units               May ‘42 p18#
Curb forms redesigned                                         Jan ‘39 p20#
Deflectometer (speeds surface deflection measurement)       S/O ‘60 p41#

Equipment Department

annual activities                                         J/F ’58 p36; J/F ’59 p57; J/F ’60 p41; N/D ’60 p27;
N/D ’61 p32; N/D ’62 p34; N/D ’63 p30; N/D ’64 p30; N/D ’65 p28;  N/D ’66 p9
changes made to reduce costs                                 N/D ’65 p28
expansion of                                                  S/O’51 p26#; M/J ’53 p1;
history, functions of                                       S/O ‘50 p162#
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Excavation equipment

boom attachment for heavy forklift devised                    J/A ‘49 p63#
drilling rig cuts costs                                     S ’37 p2#
elevating grader cuts road excavation costs                 Apr ’38 p25#
highway hand shovel                                         M/J ’50 p52#
outrigger cutting template devised                           Jan ’39 p20#

Finishing operations equipment

“Curry Comb” slope grader                                     Jan ’39 p20#
dyke shaper devices made more efficient                      F ’42 p14#
float finisher, mechanical                                   O ’38 p16#
rooter tooth, shoe on                                        Jun ’38 p24#
screeder made from converted grader                          Jun ’38 p24#
screed adjusting device for concrete finishing machines      S ’37 p24#
shoulder dyke shaper, attachment for devised                M/A ’48 p20#
side ditch and back slope shaper, attachment for devised     M/A ’48 p20#
spreading and finishing machine improved by Dist. 4          M/A ’45 p26
Horizontal drill used for slump landslide control            M/A ’55 p26#

Litter removal equipment

street sweepers; various broom fibers tested                 J/F ’52 p36#
vacuum cleaner for gathering litter developed                N/D ‘51 p46#; J/A ‘52 p59#

Maintenance equipment, general

hydraulic tower platforms aid freeway sign/lighting maintenance S/O ’56 p56#
new devices aid maintenance work                                J/F ’46 p2#
rental procedures, survey regarding                           D ’42 p10; M/J ’43 p20
study of conducted                                            D ’40 p21; D ’42 p10
types of evaluated, illustrated                               D ’42 p14#; M/J ’43 p20#
“Mercy Sled” helps rescue injured motorists in mountain areas May ’41 p20#
Metallic Tapes, new specifications needed                    M/A ’49 p30
Nuclear unit used to measure soil moisture, density          M/J ’65 p50#
Paint Analysis equipment improved                             J/F ’64 p32

Paving-Related Equipment

Adnun Paver, attachment for devised                           J/F ’48 p16#
asphalt raker, traveling                                     Jan ’39 p20#
automatic weighing device for asphalt concrete                O ’37 p12#
Bumpograph (measures pavement roughness)                      F ’37 p26#; M/A ’60 p51
concrete joint cutter [hand operated]                         M/J ’46 p22#
crane and ball used in road compacting                       Jun ’37 p14#
drag finisher for Portland cement concrete pavement improved  Jan ’37 p22#
edge cutting device for plant-mix oil surface                Mar ’37 p26#
grader blade level devised for oil mix                       N ’37 p27#
machine used to cut weakened plane joints devised            M/J ’46 p22#
EQUIPMENT, Continued

motor grader, Preco automatic blade control device developed J/A ‘57 p41#
mowing brush for controlling roadside vegetation M/A ‘50 p58#
pavers; automatic grade control device tested M/A ‘61 p48#
 pneumatic roller, new type of used S/O ‘56 p23
 Profilograph (measures pavement roughness) J/F ‘60 p47#; M/A ‘60 p51#; S/O ‘60 p40#
road mixing machine, P&H Soil Stabilizer tested J/F ‘51 p54#
rock shaker-siever improved O ‘37 p23#
roller and truck, ca. 1913 J/A ‘56 p66#
Roughometer (measures roughness of surfaces) S ‘40 p12#; M/A ‘60 p51#
“Scooter Pot” expedites pouring of cracks and expansion joints F ‘38 p22#
Viagraph (measures pavement roughness)

history of development J/F ‘60 p47#
 improvement of D ‘39 p12#

Volumeter; measures concrete pavement volumes Mar ‘38 p14#

Pavement marking equipment

broken traffic line striping machine developed S ‘42 p12#
no-passing zones, new method of marking used N ‘41 p26#
spotting wheel device for marking pavement developed J/F ‘44 p16#
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history of Jun ‘37 p22#; O ‘39 p22#
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Roadside vegetation removal equipment

cutter developed to trim ground-cover vegetation M/J ‘65 p61#
Evans spraybar used to eliminate roadside vegetation Jan ‘42 p28#
spray proportioner developed M/J ‘65 p61#
rotary flail for weed eradication on highways developed M/J ‘55 p31

Rock saw J/A ‘43 p16#; M/J ‘49 p43#

Safety related—See SAFETY, Employee Safety

Scribing equipment used in lieu of conventional drafting methods J/A ‘63 p32#
Sniffer for detecting gas leaks J/F ‘50 p50
Spectroscope devise acquired for chemical analysis research M/J ‘52 p9#
Sun exposure slope determination, device for determining S/O ‘49 p30

Snow-related

air hammer for driving snow poles devised J/F ‘55 p35
snow removal; motor grader units prove worth J/A ‘58 p13#

Survey equipment

Geodimeter developed M/J ‘60 p16#; M/J ‘62 p50#; M/A ‘63 p79
Gyroscopic equipment (alignment, grade surveys) J/A ‘52 p12#
listening aid used by road surveyors to defeat traffic noise Jul ‘42 p2#
Plumb bob points, function of N/D ‘51 p52#
Seismograph (portable recording camera) aids excavation study M/J ‘60 p17#
Tellurometer used in bridge survey job S/O ‘60 p57#
traffic flags, method of making simplified S ‘42 p17

Traffic count/speed-determining equipment

automatic equipment to replace manual counts M/A ‘61 p74
electric roadside speed timer determines speed of traffic May ‘42 p6#
photo electric recorders make count of highway traffic Jun ‘37 p6#
portable automatic traffic counters used in road reinventory S/O ‘43 p16#
**EROSION CONTROL**

**Bank protection, methods of**

Antelope Valley Fwy. (L.A. Co.), Santa Clara River and book regarding published by Dept. of Highways fence types: tetrahedrons and jackstraws combined bank protection used on Eel River near Dyerville. concrete ripraps and cribs laid to protect highway (Trinity River) concrete riprap bank protection (US 50) cripet on Eel River combat floods, erosion redwood timber deflectors built as (Eel River, Humboldt Co.) revetments, types of evaluated riprap shore protection on US 101 (Ventura Co.) seven types of bank protection used along Santa Clara River Hwy.

**Boring for soil surveys, foundation explorations**

Coastal bluffs, erosion control and (I-5, San Diego Co.) [US 101]

**Cut slopes, erosion control and (San Diego Co.)**

**Drainage**

Alameda Co.; Ward Creek drainage job features earth fill dam drainage design in grade crossing projects improved Grapevine Canyon drainage operations (I-5) hydraulic dredger used on Eastshore Fwy. fill Hydraulic Energy Dissipater tested hydrauger method of drilling horizontal drains hydraulic structure designed by model experiment

**Los Angeles Co.**

Angels Crest Hwy. (Rt. 2), unusual drainage features Antelope Valley Fwy. (Rt. 14), large drainage system installed Dominguez Channel improved Long Beach Fwy. (I-710), storm drain pump built San Bernardino Fwy. (I-10), pipe-jacking drainage project San Diego Fwy. (I-405), drainage facility built Santa Ana Fwy. (I-5), storm drain built for

**Napa Co.; Napa Cooperative Drainage Project**

removing water from highways, new method of

**Sacramento Co. freeway network, drainage system designed for**

**Santa Barbara Co.; Glen Annie Creek channel change built**

**Santa Clara Co.; Guadalupe River channel improved**

**Sonoma Co.; Healdsburg Cooperative Drainage Project**

**Tehama Co., I-5; Red Bluff-Cottonwood, spillway checks built**

**Ventura Co.; Rt. 126 drainage system**

Economic aspects of erosion control

**Embarkment stabilization**

Piercy, US 101 (Mendocino Co.) Ridgewood Grade, US 101 (Mendocino Co.) sand drains foundation consolidation and use of for marsh area fill (Solano Co.) Scotia Bypass, US 101 (Humboldt Co.) Terminal Island (Los Angeles Co.) tie-down process (Rt. 24, Contra Costa Co.) vegetation; slope cuts, fills and

**Landscaping as means of erosion control**
EROSION CONTROL, Continued

Jetties/Levees

- Humboldt Co.; Eel River jetties combat floods, erosion: N/D '45 p21#
- Sandy Prairie Levee built: S/O '62 p32
- Los Angeles Co.; Alamitos Bay jetty built: S/O '44 p14#
- Sonoma Co., Jenner; Russian River jetty project underway completed: O '40 p22#;
  S '41 p17#
- Methods of erosion control, general: N/D '49 p36#; J/F '50 p34#;
  M/A '50 p34#; M/J '50 p34#; J/A '50 p34#
- Monterey Co., US 101; Bradley-King City unit: M/A '43 p4#
- San Bernardino Co.; City Creek Rd.: S/O '48 p31#; J/F '50 p46#
- Santa Barbara Co.; US 101, Arroyo Quemado-Arroyo Hondo unit: J/F '50 p29#

Slides/Slipouts

- buttress fill, drains stabilize slide in Grapevine Canyon. (I-5) F '41 p18#
- horizontal drains, drilling of with hydrauger method J/F '48 p6#
- horizontal drill, use of in “slump” landslide control M/A '55 p26#
- Humboldt Co.; slipouts a problem on US 101 job J/A '60 p22
- Mendocino Co.; slide causes flooding on US 101 N/D '61 p26#
- Monterey Co.; Rt. 1, huge slide south of Lucia N/D '52 p56#
- Orinda Slide (Rt. 24, Contra Costa Co.), repair work on J/F '52 p45#
- Pacific Palisades, Santa Monica-- (Rt. 1) [US 101-Alt] May '40 p13#
  prevention of slides as safety factor J/F '57 p56#
- slide occurs, maintenance superintendent killed report made on possible solution to slides: S/O '59 p2;
  J/F '60 p64
- rock slide hazard on US 50 at Echo Summit removed J/F '63 p14#
- Santa Clara Co.; slipout problem on Rt. 17 D '41 p3#
- Siskiyou Co., Dunsmuir; slides pose problem on I-5 [US 99] job J/A '60 p17#
- Slipouts, causes, prevention methods studied Mar '38 p18#
  types, causes, and repair of: Jul '41 p1#
- Sonoma Co.; Jenner-Fort Ross slide closes road M/J '54 p16#
- Soil compaction control test using nuclear gages M/J '65 p50#; M/A '66 p42#
- Soil subsidence, problems of (I-5, San Joaquin Valley) M/A '66 p40#
- Soil surveys and foundation explorations, borings for M/A '49 p60#

EVENTS

American Assoc. of State Highway Officials (AASHO)

- annual meeting of N '39 p12; D '39 p20; N '41 p20; S/O '46 p5;
  N/D '46 p1; N/D '48 p30; N/D '49 p44; N/D '51 p56;
  J/A '58 p53; S/O '58 p34; J/F '59 p20#; N/D '59 p24
  33rd. annual meeting [Special AASHO edition issued]
  topics discussed at Jan '47 p1#
  AASHO Award of Merit presented Jan '47 p15
  highway improvement and PW concept Jan '47 p22
  Puerto Rican, Hawaiian delegates attend Jan '47 p24#
  wives entertained at Jan '47 p15#
  problems, hopes of highway builders in review Jan '47 p16
  radio communication demonstration given Jan '47 p21

American Society of Civil Engineers (ASCE) national convention M/J '60 p63

American Water Works Association to meet in S.F. S/O '46 p31

Bonneroo Stag [best contracts] N/D '52 p48#; M/J '53 p64#;
  M/J '54 p30#; M/A '55 p21; M/J '56 p49#; J/A '57 p25; J/A '58 p48;
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California State Fair

Division of Highways exhibits at Aug ’40 p24; Aug ’41 p20;
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features of, new routes to J/A ’47 p16#; J/A ’49 p34#; J/A ’50 p24#;
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J/A ’56 p68#; J/A ’57 p38#; J/A ’58 p45; J/A ’60 p42; J/A ’61 p57
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Treasure Island buildings reconstructed on fair grounds Aug ’41 p20
Civil Defense, seminar on public works aspects of held M/A ’61 p72
Engineering productivity conference held M/A ’57 p35#
Donner Party Centennial held M/J ’46 p5#
Festival of Arts held at Laguna Beach S/O ’52 p6#
Gem and Mineral Show held in Sacramento N/D ’53 p43#
Golden Gate International Exposition, 1939/40
Bay Br. highway connection to built Jun ’38 p22#
“Quarter Century of Highway Progress” exhibit displayed Apr ’39 p10#
traffic on Bay Bridge breaks all records at opening of Jun ’40 p22#
Governor’s Conference on Urban Areas and the State Hwy. System M/A ’60 p2#
Grand National Livestock Expo, Cow Palace, S.F. S/O ’47 p4; S/O’51 p54#
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Highway Communications representatives meet J/A ’65 p47#
Highway Conference held at UOP (Stockton) M/A ’58 p56; M/A ’61 p72
Institute of Traffic Engineers (ITE) annual meeting J/A ’58 p52
ITTE annual Streets and Highways Conference J/A ’49 p64; M/A ’52 p37#;
N/D ’53 p55, 64; S/O ’58 p6; N/D ’58 p10; N/D ’59 p44; M/A ’60 p10; M/A ’61 p39; M/A ’62 p64; S/O ’62 p63; M/A ’63 p69#; M/A ’64 p63; M/A ’65 p54#
Los Angeles Co. Fair, Pomona; San Bernardino Fwy. and J/A ’56 p38#
Mexican Road Congress, California sends delegates to Apr ’37 p24#
Mineralogical Societies of State, Nation to meet M/J ’49 p43#
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National Highway Week observed J/A ’61 i.cvr.; M/A ’62 p68;
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National Orange Show, San Bernardino M/A ’47 p16#
National Shade Tree Conference held J/A ’46 p30#; M/J ’49 p42
Olympics, Winter 1960 (Squaw Valley, Nevada Co.) M/A ’60 p35#
Pasadena Diamond Jubilee; freeway exhibit displayed J/A ’61 p66#
Prestressed Concrete World Conference planned M/J ’57 p39
Public Works convention to be held J/A ’52 p34
Redwood Empire Assoc. annual convention N/D ’55 p17; N/D ’56 p21#
Right-of-way agents meet M/A ’44 p10#; M/A ’49 p49#; J/A ’51 p55#; M/J ’63 p50#
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Visits to State

Australia; highway official Dr. L.F. Loder M/A ’54 p39#
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ingineers; foreign, out-of-state S/O ’55 p51; J/F ’60 p57#
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U.S. House Public Works Committee
Western Association of State Highway Officials (WASHO)
annual meeting J/A ‘64 p35; J/A ‘64 p18#; M/A ‘65 p67
ARBA and to meet concurrently F ‘39 p13#
Frank W. Clark’s address; review of PW Program Mar ‘39 p12
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FERRIES

Army pontoon ferry used to cross Klamath River after 1964 flood M/A ‘65 p18#
Butte City; state to provide ferry service during building of bridge Mar ‘41 p12
Cache Slough (Rio Vista)
Division of Highways puts new ferry in service S/O ‘45 p25#
“Real McCoy” ferry becomes free-running M/A ‘64 p74; J/F ‘64 i.cvr.#
Carquinez Strait ferries, history of J/F ‘57 p37
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Martinez-Benicia Ferry
cities take control of D ‘40 p12#; Jan ‘41 p15
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service ends after opening of toll bridge S/O ‘62 p5#
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Terminal Island-San Pedro ferry “Islander” superseded by bridge S/O ‘63 p6

FLOODING

Damage Caused By
1937/38
bridges, damage to heavy Apr ‘38 p10#
disastrous winter floods cause $8,000,000 damage Apr ‘38 p1#
February storms wrought $1,000,000 damage Mar ‘37 p12#
torrential rain storms sweep state Jan ‘38 p12#
Sacramento Valley flooded Jan ‘38 p16#
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1939; flooding in desert country causes $500,000 damage O ‘39 p6#
1940
floods cause catastrophic damage Mar ‘40 p1#
state highways and bridges suffer damage from floods and slides Apr ‘40 p5#
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1941
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2.5 million dollars storm damage in Feb. and March Apr '41 p11#
1942; Feather River flood does $2,086,000 damage Mar '42 p4#
1943
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Five-day storm sweeps California F '43 p14#
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record storm hits Mojave-Lone Pine area N/D '45 p24#
1946; L.A. Aqueduct broken in earthquake, floods Rt. 14 [Rt. 23] M/J '46 p30
1950; storm, worst since 1937-38, causes $3,400,000 damages J/F '51 p28#
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1955
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Northern California; citizens repair damaged bridges J/A '56 p57
Trinity Co.; repair work near Vitzhums completed M/J '57 p58#
1961; slide causes flooding on US 101 (Mendocino Co.) N/D '61 p26#
1963
annual N/D '63 p26#
rains in Sierra Co. cause damage to bridges and roads J/F '63 p33#
Sierra Co. Supervisors express thanks (1963 flood) J/F '63 p32
storm damage is $4 million M/A '63 p9
1964
Redwood Hwy. (US 101) flood damage J/F '65 p2#; M/A '65 p14#
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1965; Southern California storm damage J/F '66 p31#
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Alameda Co., Hayward; Ward Creek earth fill dam planned J/F '62 p63#
Contra Costa Co.; Walnut Creek channel relocated M/J '61 p76#
Humboldt Co.; Eel River training jetties combat floods N/D '45 p21#
Los Angeles Co.
Burbank-Western Channel [L.A. Co. Flood Control Channel] S/O '59 p18#
Dominguez Channel improved J/F '62 p50
San Gabriel Dam flood control project, Los Angeles Co. Aug '37 p8#
Merced Co., Rt. 99; divided highway solves flood problem Jul '39 p16#
Modoc Co.; Tule Lake Reservoir saved by emergency construction Jul '38 p22#
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Sacramento Co.; 16th St. Subway gets new flood gate O '37 p27#
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Santa Clara Co.; Guadalupe River channel improved M/J '61 p74#
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  Mariposa Co.; Rt. 140 (Yosemite All-Year Hwy.) storm damage repaired Mar ’39 p6#
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progress on, plans for  J/A '66 p36#

Berkeley

Gilman St., improvements made to  M/J '45 p24#
Solano Ave. extension completed; tunnel converted  M/A '63 p61#

completed; dedication held  S/O '56 p30#
Crow Canyon Rd. reconstructed  J/F '53 p50#

highway projects, general
M/A '54 p1; M/A '55 p1; M/A '56 p1;
M/A '57 p1; M/A '58 p1; M/A '59 p1#; M/A '60 p13;
M/J '61 p3; M/J '62 p12; M/J '63 p29; M/J '64 p27;
M/J '65 p28

I-80 [US 40; East Shore Hwy.]
Bay Br. approach to open—See also BEAUTIFICATION  Jun '37 p24
Oakland-San Jose route proposed  O '40 p10
reconstruction to freeway standards underway  J/A '54 p10#
I-580 [Rt. 5; US 50; I-5W]
Livermore-Tracy realignment to begin
progress on  O '37 p19#;  Aug '37 p20#
opened  S '38 p4#
Foothill Blvd.; San Leandro-Castro Valley unit dedicated  O '39 p9#
Livermore By-pass completed  N/D '50 p8#
Dublin-Livermore link, improvements underway  M/J '51 p28
Dublin By-pass nears completion  S/O '52 p36#
Altamont Pass-Tracy expressway under construction  N/D '53 p22#
completed and opened  N/D '54 p38#
development of from highway to freeway  M/A '54 p11
Castro Valley Bypass under construction
progress on  M/A '54 p12
completed  S/O '54 p4#
extension underway  M/A '55 p10
Boehmer Hill-Castro Valley unit improved  J/A '57 p15#

MacArthur Fwy.

plans for
planning, design, right-of way aspects  M/A '56 p13
progress on, general  M/A '60 p8#
distribution structure-Grand Ave. [first] unit opened  M/J '63 p29#
Park Blvd.-Buell St. unit opened  M/J '64 p28#
Durant Ave.-Sybil Ave. unit under construction  M/J '65 p26
Sybil Ave. (San Lenadro)-173rd. Ave. [final] unit
progress on  M/J '65 p26;  M/A '66 p12
overview of project  M/A '66 p12#
I-680 [Rt. 21]
Warm Springs-Dublin route, improvements on  M/A '60 p24
progress on, general  M/J '61 p15;  M/J '64 p28
ROUTES Alameda Co., Continued

I-880; Nimitz Fwy. [Rt. 17; Leg. Rt. 69, Eastshore Fwy.]-See also BRIDGES

plans for
description of route
history of route, right of way acquisition
progress on

J/A '46 p16
M/A '50 p9#
M/A '54 p4#; M/A '55 p8; J/F '56 p9#; M/A '56 p9#;
M/A '57 p9#
J/A '49 p40#
J/A '50 p23#

23rd. Ave.-6th/Oak (Oakland) unit dedicated
M/J '52 p7
J/A '52 p48#
J/A '53 p42#
J/A '53 p42
J/A '57 p43

11th/Cypress-Market St. (Oakland) unit opened
J/F '53 p6#
J/A '54 p11
J/F '58 p53#
N/D '58 p9
M/J '62 p14; M/J '63 p31; M/J '64 p29;
M/J '65 p28

Niles Canyon Rd.

N '40 p8#

Sunol; Rt. 84 [Leg. Rt. 107] realigned
Jan '42 p10#

Oakland

Bancroft Ave. Parkway under construction
channelization projects completed
Grove-Shafter Fwy., portion of median to be used for BART line
Park Blvd. improved
Shepherd Canyon freeway, plans for
West St.; widening and improvement project completed

M/A '58 p37#
Mar '39 p20#; F '40 p12#
J/F '64 p17
J/A '55 p19#
M/A '59 p52; M/A '60 p28
S/O '57 p54#
S/O '59 p47#
S/O '53 p45; S/O '56 p44#;
S/O '57 p43

Rt. 13 (Warren Blvd. Fwy.) [Leg. Rt. 227, Mountain Blvd.]

Lake Temescal-San Leandro unit improved
progress on, general
Broadway Terrace-Ascot Dr. unit
Lincoln Ave.-Carson St. extension planned
Redwood Rd.-Lincoln Ave unit completed

M/A '54 p10
M/A '55 p11; M/A '57 p12;
M/J '63 p32; M/J '64 p28, 29;
M/J '65 p28;
M/A '56 p13
M/A '59 p52
M/A '60 p28#

Rt. 24

improvements made to
Lake Temescal-Caldecott Tunnel unit, improvement planned

M/A '54 p9;
M/J '61 p15
M/J '63 p32

M/J '64 p30; M/J '65 p29

Rt. 84 (Mission Blvd.)
improvements at Niles Canyon Rd. junction completed

M/J '64 p30

Rt. 92 (Jackson St.) [Leg. Rt. 105], Hayward

Harder Rd.-Mission Blvd. unit widened
San Mateo-Hayward Br.-Hesperian Blvd. unit, progress on

M/J '63 p33
M/J '65 p3

Rt. 238 [Rt. 9] (Mission San Jose)-Rt. 84 link, progress on
completed

M/J '63 p33
M/J '64 p28
ROUTES, Continued

Alpine Co.

Rt. 88; Carson Pass Hwy.
- improvements made to, overview
- Red Lake-W. Fork Carson River unit improved
  S/O ‘64 p2#

Rt. 89 [Markleeville-Coleville Hwy.]
- Ebbetts Pass Hwy.-US 395 junction (Mono Co.)
  FAS road project underway
  N/D ‘50 p28#
  dedicated and opened
  S/O ‘54 p22#

Amador Co.

highway projects, general
- J/A ‘58 p16#; J/A ‘59 p3

Rt. 16; Jackson Hwy.
- Jackson unit dedicated
  S/O ‘48p3#
- Sloughhouse unit, realignment underway
  S/O ‘48 p34#

Rt. 49; Mother Lode Hwy.
- improvements made to
  J/A ‘63 p11#
- Sutter Creek area relocation recommended
  J/A ‘63 p20#

Rt. 88; Carson Pass Hwy.
- Carson Spur-Alpine Co. line unit relocated
  J/A ‘59 p5
- history of route
  J/F ‘61 p11#
- improvements made to, overview
  S/O ‘64 p2#
- section wins PARADE scenic highway contest
  M/A ‘66 p28#
- Ione-Jackson unit improved
  J/A ‘59 p47#
- Jackson-Pine Grove unit improved
  J/A ‘54 p36#
- Jackson unit dedicated and opened
  S/O ‘48 p3#
- Picketts-Nevada state line unit, freeway routing adopted
  J/A ‘60 p70
- Pine Grove-Cook’s Station unit improved
  J/F ‘44 p8#
- Red Lake-Blue Lake Rd unit improved
  J/A ‘58 p21
- San Joaquin Co. line-Jackson Creek unit improved
  J/A ‘54 p36

Butte Co.

Chico-Paradise Skyway [FAS Rt. 757] dedicated
- highway planning survey map, section of
  Aug ‘38 p14
- highway projects, general
  J/A ‘59 p23#
- Oroville Bypass [FAS Rt. 1169] completed
  J/F ‘56 p50#
- Rt. 32 [“Deer Creek Hwy.”]
  Chico-Hog Springs unit improved, dedication held
  M/A ‘58 p45#

Rt. 70; Feather River Hwy. [US 40-Alt.; Leg. Rt. 24]
- dedicated and opened
  Aug ‘37 p1#
- construction history
  J/A ‘45 p6; S/O ‘50 p98
- relocation compelled by Oroville Dam
  J/A ‘53 p1; M/J ‘57 p27
- Wicks Corner-Jarbo Gap unit
  S/O ‘57 p27#; J/A ‘58 p7#;
  J/A ‘59 p29#
- Oroville-Wicks Corner [final] unit completed
  M/J ‘64 p56#
- Union School-Rt. 21 junction unit, widening planned
  M/J ‘57 p30
  progress on
  J/A ‘58 p7

Rt. 99 [US 99E]
- Chico Esplanade, history of
  M/J ‘49 p12#
- widening underway
  J/A ‘59 p28
  completed
  J/F ‘60 p53#
- Chico; Main St., one-way couplet built
  J/A ‘59 p28#
- Durham; improvements made to highway
  J/F ‘45 p28#
- Oroville Wye-Chico section improved; dedication held
  J/F ‘55 p39#
ROUTES, Continued

Calaveras Co.
Rt. 26 [Rt. 5] access road over Mokelumne Hill improved M/J '44 p10#

Colusa Co.
Rt. 99 [US 99W]
Arbuckle; High School Rd.-Salt Creek unit improved J/A '58 p5#

Contra Costa Co.
BART (Bay Area Rapid Transit)
construction inaugurated by President Johnson J/A '64 i.cvr.#
progress on, plans for J/A '66 p36#
Byron Hwy. improvement completed [FAS-bond issue project] N/D '53 p14#
Crow Canyon Rd. [FAS Rt. 801] improved N/D '49 p22#
Cummings Skyway [FAS Rt. 1256] built S/O '61 p60#
highway projects, general M/A '54 p1; M/A '55 p1;
M/A '56 p1; M/A '57 p1; M/A '58 p1; M/A '59 p1; M/A '60 p13;
M/J '61 p3#; M/J '62 p15#; M/J '63 p33#; M/J '64 p30; M/J '65 p30#;
I-80 [US 40]
Crockett; Carquinez Br. approaches
“Big Cut” under construction J/F '57 p37#; J/A '57 p36#
completed J/F '59 p1#
improvements made, general M/J '64 p32
Oakland-Carquinez Br. unit
Oleum, Selby, Tank Farm Hill sections widened Apr '42 p4#
Pinole link, construction of F '39 p20#
Pinole-Rodeo unit under construction S/O '48 p26
projects underway, planned J/A '54 p5
Richmond-Carquinez bypass built M/A '54 p9
Richmond-El Cerrito unit improved to freeway standards J/A '60 p57#
San Pablo Dam Rd. off-ramp widened M/J '65 p31
Santa Clara St.-County Rd. 24 realignment planned S/O '54 p6
I-680 [Rt. 21]
improved M/A '60 p24#; M/J '61 p15#; M/J '62 p15; M/J '63 p33;
M/J '65 p30
Danville-Walnut Creek freeway planned M/J '62 p15#
progress on M/J '63 p33; M/J '64 p30
completed M/J '65 p30
Willow Pass Rd.-Benicia-Martinez Br. unit completed M/J '63 p34#
Monument Blvd. (Concord)-Willow Pass Rd. unit improved M/J '64 p30#
I-880 [Rt. 17]
Richmond-San Rafael Br. approaches built S/O '56 p16; M/A '57 p15
Pleasant Hill Rd. connection to Rt. 4 improved N/D '54 p27#
Richmond; access road projects N/D '44 p2#
Rt. 4; Industrial Hwy. [Arnold Industrial Hwy.]
Willow Pass-Franklin Canyon [first] unit completed O '39 p20#
Concord-Pittsburg [Willow Pass Rd.] unit under construction J/F '47 p19#
Pittsburg; Port Chicago Rd.-Railroad Ave. unit under construction M/A '51 p18#
dedicated and opened J/A '51 p18#
future plans for; history of project M/A '51 p19
Pittsburg-Antioch freeway unit under construction N/D '52 p5#
completed, opened without fanfare J/A '53 p52
progress on, general M/A '60 p29; M/J '64 p31
Cummings Skyway-Howe Rd. (Martinez) unit
freeway construction planned M/J '64 p31
progress on M/J '65 p31
ROUTES Contra Costa Co., Continued

Rt. 24

- Lafayette Bypass, construction underway (M/A '56 p14)
- nearing completion (M/A '57 p14#)
- dedicated and opened (J/A '57 p21#)

Orinda Crossroads [Bryant]

- freeway project, progress on (M/A '54 p17#; N/D '54 p46#)
- portion of opened to traffic (M/A '55 p12)

Orinda-LaFayette widening completed (N/D '43 p18#)

- progress on, general (M/J '61 p15#; M/J '63 p35)

Walnut Creek Bypass under construction (M/A '54 p17#; N/D '54 p46#)

- portion of opened to traffic (M/A '55 p12)

Orinda-LaFayette widening completed (N/D '43 p18#)

- progress on, general (M/J '61 p15#; M/J '63 p35)

Caldecott Tunnel-Orinda unit, widening operations on

- completed (M/J '64 p32#)

Orinda-Walnut Creek unit

- BART construction planned on median strip (M/J '65 p31)

Rt. 106 [Franklin Canyon Hwy.] reconstruction, first unit completed (N/D '43 p8)

Rt. 233; Moraga Valley

- Bollinger Canyon Rd.-Rt. 24 junction routing planned (J/A '55 p29)

Rt. 242; Monument Blvd.-Olivera Rd. unit completed (M/J '65 p31)

Taylor Blvd. [FAS Rt. 1326] route extended (S/O '61 p60#)

Wilbur Ave. improved (J/A '59 p43#)

Ygnacio Valley Rd. extended; becomes limited access expressway (M/J '56 p68#)

Del Norte Co.

- highway projects, general (J/A '58 p35; N/D '59 p31)

US 101

- Crescent City; one-way couplet project completed (N/D '59 p37#)
- Klamath-Wilson Creek area; first 4-lane expressway built (M/A '57 p67#)

US 199

- modernization of, overview (S/O '64 p14#)

- Hazelview Summit area, relocation underway (N/D '59 p37)

- progress on (S/O '60 p2#; M/J '61 p27#)

- completed (N/D '63 p19#)

Jedediah Smith State Park unit

- dispute regarding routing through National Tribute Grove (M/A '65 p56)

Smith River Br. unit

- freeway planned though forest; clearing underway (S/O '54 p40#)

El Dorado Co.

Aukum Rd. [FAS Rt. 1234] realignment completed (M/A '61 p27#)

highway projects, general (J/A '59 p23)

Rt. 49; Pilot Hill-Hastings Creek unit, reconstruction planned

- completed (J/A '59 p29)

US 50 [Placerville-Lake Tahoe Hwy.; Lake Tahoe Wagon Rd.]

- Camino Bypass completed (M/A '61 p27#)

- chain control, truck passing lanes added (M/A '62 p62#)

- Echo Summit-Lake Tahoe unit realigned (S/O '47 p15#)

- El Dorado-Clark’s Corner unit to be realigned

- opened (D '37 p18#)

- Five Mile Terrace-Camino expressway dedicated (N/D '57 p20#)

- Folsom-Clarksville link, construction underway

- realignment completed (Apr '40 p20#)

- Lake Tahoe Wagon Rd., history, construction of

- original deed given to Dept. of Public Works (F '42 p15)
ROUTES El Dorado Co., Continued

Latrobe Rd. intersection improved by removal of cut bank  J/A '59 p26#
Meyers-Mays [Tahoe Valley Wye] unit improved  J/A '50 p45#
Meyers Grade-Echo Summit relocation underway  Aug '38 p4#
completed  Aug '40 p18#
rock slide threat removed  J/F '63 p14#
Pacific House-Riverton, construction underway  N/D '57 p13#
Perks Corner (Missouri Flat Rd.)-West Placerville freeway
planned  J/F '52 p32
completed  S/O '63 p58#
Placerville; expressway through city planned  J/F '54 p35;  S/O '54 p4#
completed; overview of project  N/D '55 p10#
Placerville-Five-mile Terrace link improved  N/D '51 p22#
Pollock Pines-Camino Bypass completed  J/F '66 p32#
Pollock Pines-Fresh Pond route realigned  M/J '46 p1#;  S/O '47 p15#
Shingle Springs-El Dorado unit
reconstruction underway  J/A '47 p16
completed  S/O '47 p13#
Shingle Springs-Missouri Flat Rd. unit, relocation planned  M/J '62 p33

Fresno Co.

flood damage  J/F '67 p16
Fresno (city), highway pattern improvement planned  J/A '57 p10#
Shields Ave widened, improved  S/O '65 p19#
highway projects, general  S/O '59 p7;  N/D '65 p13
I-5 [Westside Fwy.], construction progress  M/A '66 p36#
Rt. 41; San Joaquin River unit realigned  N '41 p16#
Rt. 99 [Leg. Rt. 4, Golden State Hwy.]  N/D '43 p2#
Fresno; Calwa Overpass-Church Ave. unit relocated  N/D '43 p2#
Fresno Bypass under construction  S/O '55 p27#
completed; dedication held  N/D '57 p23#
extension to Madera Co. line underway  S/O '59 p7
completed; eliminates last 3-lane section on Rt. 99  J/A '60 p7#
Fresno-Herndon unit completed  Aug '37 p18#

Fresno-Kingsburg-Tulare Co. line unit
relocation, widening planned  S/O '59 p10
S. Fresno-Selma [first] unit, paving construction  S/O '62 p24#
Kingsburg-Selma [final] unit completed  J/F '65 p18#
overview of project  J/F '65 p18#
progress on, general  S/O '48 p29
Selma divided highway unit opened  F '39 p18#
Selma-Fowler divided highway unit completed  N '41 p23#
Rt. 145 [Fresno-Colinga road] improved near Five Points  S/O '47 p25#
Rt. 168; Shaver Lake-Huntington Lake unit improved  S/O '58 p62#
Rt. 180; Kings River Canyon Hwy., progress on  Jul '38 p4#
officially dedicated; route described  N '39 p6#
General Grant Grove approach road under construction  Jun '40 p18#
completed  N '41 p8#
construction history  S/O '45 p6#;  S/O '50 p102
improvements made  S/O '59 p55#
Rt. 198; Warthan Canyon  Aug '42 p2#
Coalinga; highway realigned  N '39 p6#
Coalinga-San Lucas unit improved; dedication held  J/A '51 p22#

ROUTES, Continued
Glenn Co.
I-5 [US 99W; Westside Fwy.]; Artois-Tehama Co. line unit planned J/A '64 p17

Humboldt Co.
Arcata; US 101-Rt. 299 intersection improved N/D '56 p44#
 county roads, problems of M/A '52 p17#
 highway projects, general J/A '58 p35#
Rt. 299
 Arcata-Willow Creek route improved M/J '47 p20#
 Mad River-Blue Lake Fwy. unit completed, dedicated J/A '66 p28#

US 101; Redwood Hwy.
Arcata Bypass—See Michael J. Burns Memorial Fwy.
Avenue of Giants Pkwy. opened S/O '60 p70#
 Freshwater Lagoon Sandspit improvement to begin M/A '49 p15#
 progress on N/D '49 p12#
 Fortuna-Fernbridge unit improved N/D '59 p35#
 Fortuna freeway completed S/O '62 p31#
 Little River-Trinidad unit, relocation underway J/A '60 p22#
 Loleta Bypass; Fernbridge-Beatrice unit, construction underway M/A '57 p52#
 completed M/A '58 p17#
 McKinleyville bypass freeway completed J/F '65 p31#
 Michael J. Burns Memorial Fwy.
 dedicated as Arcata Bypass Fwy. S/O '54 p56#
 renamed Michael J. Burns Memorial Fwy.; dedication held N/D '54 p37#
 second unit dedicated S/O '55 p25#
 modernization of, overview S/O '64 p14#
 Patricks Pt. State Park-Big Lagoon unit, widening underway J/A '58 p43#
 completed N/D '59 p31#

Redwood Parks Fwy.—See also BRIDGES, Eagle Point Viaduct
 plans for M/J '56 p25#
 Dyerville-Englewood [first] unit, construction underway M/A '57 p54
 construction progress marks several firsts S/O '57 p52#
 progress on M/J '58 p39#; J/A '58 p40#
 completed N/D '59 p34#
 Myers Flat-Dyerville [second] unit, construction underway N/D '59 p33#
 completed J/F '62 p3#
 Sylvandale-Maple Hills [third] unit planned J/F '62 p7#
 Dean Creek-Miranda [final] unit completed M/A '66 p16#
 Scotia Bypass completed S/O '53 p6#
 Trinidad-McNeill’s Ranch link under construction Jun '37 p17#

Imperial Co.
Dogwood Rd.; Heber-Brawley unit improved S/O '60 p64#
 highway projects, general N/D '58 p33#; M/J '59 p45; N/D '64 p13;
 I-8 [US 80] N/D 65 p11
 Mountain Springs Grade relocation, ground breaking ceremonies for N '38 p20#
 problems regarding construction Apr '39 p16#
 Sand Hills desert highway (Yuma-El Centro) improvements made to N/D '45 p9#
 history of route S/O '50 p110#
 reconstruction to freeway standards underway J/A '61 p11#
 FAS highways improvement of May '38 p22#
 projects budgeted, annual N/D '63 p80; N/D '64 p80; N/D '65 p80;
 Rt. 86 [US 99], improvement projects underway N/D '66 p35
 N/D '48 p52

ROUTES, Continued

Inyo Co.
Glacier Lodge Rd. [FAS Rt. 1069] improved J/A '53 p56#
Rt. 190
Lone Pine-Death Valley Hwy., construction progress on Jul '37 p6#
dedication held N '37 p6#
history, origin of route N/D '45 p8#; S/O '50 p109
Keeler-Rt. 6/US 395 junction unit improved M/A '55 p19#
trans-Sierra route adopted; scenic aspects of region M/A '66 p20#
Onion Valley Rd. [FAS Rt. 1183] improved M/A '62 p30#
Panamint Rd. [FAS Rt. 1065], Trona-Wildrose unit improved J/F '51 p18#

Rt. 127 [Towne's Pass Hwy.]
Death Valley National Monument section
state assumes maintenance of; description of route J/F '45 p30#
Panamint Sink-Death Valley link improved Jun '38 p24#
US 395 [Leg. Rt. 23, Sierra Hwy.; Three Flags Hwy.]
Bishop; improvements underway J/A '52 p40
Sherwin Grade-Rock Creek relocation planned S/O '55 p56
project completed ahead of schedule N/D '56 p39#
surfacing improvements made Mar '37 p18#
description of route J/A '52 p39#

Kern Co.
Alfred Harrell Hwy. [FAS Rt. 885], Bakersfield
China Grade Loop interchange completed N/D '57 p11#
Union Ave.-Panorama Dr. unit completed M/A '60 p43#

Bakersfield
Garces Circle improved M/A '57 p56#
Union Ave. widened to six lanes S/O '47 p6#
21st St.-Nile St. unit improved by city M/J '55 p18#
Grove Street widened S '37 p27#
H St., 3.3 mile section widened J/F '49 p18#
Pierce Rd. relocated J/F '49 p18#
Snow Rd.-Shafer Rd. route widening proposed Jan '43 p15#
south city limits section of Rt. 99 completed N/D '49 p57#
flood damage J/F '67 p15
highway projects, general S/O '59 p7#; N/D '64 p16

I-5; Ridge Route-Grapevine Grade [US 99; Ridge Route Alt.]
truck checking station opens Mar '38 p24#
improved safety of Jun '38 p8#
Grapevine Canyon widening planned F '41 p18#
grading completed Mar '42 p14
widening completed M/A '43 p1#
construction progress, general N/D '48 p13; J/A '49 p18#
construction history S/O '50 p104; S/O '65 p20#
four-lane widening underway J/A '49 p18#; J/F '50 p31
Gorman-Tejon Summit-Lebec unit completed J/F '52 p29#
Weldon Canyon [last] unit completed J/A '53 p4#
eight-lane widening project planned J/A '58 p10#; S/O '58 p35#
progress on S/O '59 p7#
completed S/O '60 p5#
Lebec-Ft. Tejon unit widening completed J/F '65 p21#
realignment proposed S/O '65 p20#
Oildale; Manor St. [FAS Rt. 887] expressway completed M/A '60 p43#

ROUTES Kern Co., Continued
Rt. 14 [US 6, Leg. Rt. 23; Los Angeles-Reno Hwy.]
junction with Rt. 58 improved at Mojave F '38 p18#
Mojave-Ricardo link, improvement completed May '41 p6#
Red Rock Canyon-Mojave unit improved S/O '58 p8#; M/A '60 p47#
Rt. 33 [Leg. Rt. 138]; Taft-Maricopa Hwy. opens  F ’38 p20#
Rt. 41 [Cholame Lateral]; Cottonwood Pass  
San Luis Obispo Co. line-Sun Flower Valley link realigned  S ’41 p22#
Rt. 46 [US 466, Tehachapi Hwy.]
  Keene-Tehachapi highway under construction  
    dedicated and opened  N/D ’48 p39#
  Mojave-Boron route improvement completed  M/J ’56 p70#
  Tower Line Rd.-Bear Mt. Ranch unit, relocation underway  S/O ’59 p55#
  Bakersfield-Tehachapi route improved to freeway standards  M/A ’61 p35#
  Caliente Rd.-Keene section improved to freeway standards  J/F ’63 p22#
Rt. 58 [Rt. 178]; Tehachapi Pass route opens  Jan ’40 p6#
Rt. 65 [Orange Belt Hwy.]
  Ducor Cut-Off improvement, progress on  May ’40 p8#
  Deepwell Ranch/Famoso-Woody Rd. link completed  Jan ’42 p25#
Rt. 99 [US 99; Leg. Rt. 4, Golden State Hwy.]
  Bakersfield Bypass (West Bakersfield Fwy.), progress on  
    completed  S/O ’63 p71
  Bakersfield-Grapevine Hwy. opens  Jan ’39 p8#
  Delano Bypass completed  J/A ’56 p29#
  improvement projects underway  S/O ’48 p29
Rt. 155 [Rt. 142]; Bakersfield (N. Chester Ave.)-Oildale unit improved  Jun ’42 p16#

Kings Co.
I-5 [Westside Fwy.], progress on  M/A ’66 p36#
Rt. 41 [Morro Bay-Yosemite Park Hwy.]
  Kettleman Hills unit relocated  J/A ’59 p45#
  Lemoore; freeway routing adopted  S/O ’61 p68
Rt. 43 [Rt. 135, Central Valley Hwy.]
  becomes part of state highway system  S/O ’61 p71
Rt. 198 [“Sierra-to-the-Sea” Hwy.]
  Hanford-Armona unit completed  Aug ’39 p22#
  Hanford; 9th Ave.-Rt. 99 freeway routing adopted  M/J ’55 p36
  Lemoore NAS-Rt. 41 unit improved as freeway  J/A ’63 p45#

Lake Co.
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**Hollywood Fwy. [Cahuenga Pass Fwy., US 6]**
- first unit dedicated: Jul '40 p2#
- Barnam Blvd.-Ventura Blvd. unit completed: M/A '49 p20#
- history of route since days of padres: M/A '49 p20
- Ft. Moore Hill, portion of razed: M/J '49 p17#; J/F '51 p17#
- history of project to date; first concrete poured: J/A '50 p17#
- Glendale Blvd.-Virgil Ave. unit under construction: J/A '50 p17#
- Grand Ave.-Silver Lake Blvd. unit dedicated: J/F '51 p12#
- “extensive and varied” construction underway: M/J '51 p17#
- Silver Lake Ave.-Western Ave. link dedicated: S/O '51 p17#
- Spring St. (Civic Center)-Ventura Fwy. unit dedicated: J/F '52 p13#
- construction operations broadcast on local television: S/O '53 p27#
- progress on, general: Mar '41 p24#; M/J '49 p17#; J/F '54 p2#
- Hollywood Blvd.-Mulholland Br. [last] unit dedicated: M/J '54 p20#
- history, overview of entire project: S/O '54 p7#
- church benefits from [letter]: J/A '56 p64

**Ventura Fwy. [See also Rt. 134]**
- Calabasas-Sepulveda Blvd. unit completed: J/F '54 p12#
- progress on, general: J/F '55 p23; J/F '56 p63#; J/F '60 p19; M/A '61 p21
- Sepulveda Blvd.-Encino Ave. unit, progress on: J/A '57 p67#; J/F '58 p10#
- Encino Ave.-Kelvin Ave. unit, progress on: J/F '58 p10#; J/F '60 p19
  - dedicated: M/J '60 p2#
- Laurel Canyon Blvd.-San Diego Fwy. unit dedicated: M/J '60 p2#
- Hollywood Fwy.-Buena Vista St. (Burbank) unit
  - progress on: M/A '61 p75
  - completed: M/A '63 p39
- Willow St.-Katella Ave. divided highway dedicated: S/O '62 p28#

**Madera Co.**
- highway projects, general: S/O '59 p7#
- Rt. 41; south approach to Yosemite Valley realigned: D '39 p14#
- Rt. 99
  - Chowchilla-Merced divided highway under construction: O '41 p14#
  - Chowchilla Bypass (Califa-Merced Co. line), progress on: M/A '57 p61#
    - completed: S/O '58 p40#
  - Madera Bypass, construction of: S/O '58 p40#; J/F '59 p49#
    - reduces accidents, congestion: J/F '60 p60#
- Rt. 145 [Leg. Rt. 126]; Madera
  - Friant Dam approach road, improvement underway: Jan '40 p4
    - completed and officially dedicated: Jun '41 p4#

**Marin Co.**
- highway projects, general: M/A '54 p1; M/A '55 p1; M/A '56 p1;
  - M/A '57 p1; M/A '58 p1; M/A '59 p1#; M/A '60 p13;
  - M/J '61 p3; M/J '62 p17; M/J '63 p35#; M/J '64 p32; M/J '65 p32
  - Marin Access Road at Tiburon Peninsula completed: N/D '44 p2#
  - Nicasio Rd. [FAS Rt. 1278] relocation completed: J/A '61 p49#
  - Point Reyes Station-Novato Rd. project completed: M/A '49 p14#
ROUTES Marin Co., Continued

I-580 [Rt. 17]; Richmond-San Rafael Br. approach planned
progress on S/O '56 p17; M/A '57 p18
completed N/D '57 p29#

Rt. 37; Black Point Cut-off [Ignacio-Sears Point]
junction with Sears Point Cut-off improved
improved as freeway M/A '54 p7
progress on, general M/A '60 p30#

Rt. 131; Tiburon Blvd.
Alto Wye-Strawberry Dr. unit, widening underway M/J '64 p34#

Sir Francis Drake Blvd. [FAS Rt. 608] improved
US 101; Redwood Hwy.
Alto; Richardson-Bay Br. approach M/A '57 p16#
Hamilton AFB unit (Novato) improved S/O '45 p23#; M/J '63 p35
Forbes Overhead-Ignacio section completed J/A '52 p33#
Ignacio-Petaluma unit, widening operations on J/A '46 p14#
Marin-Sonoma Hwy.
San Rafael-Novato-Petaluma unit dedicated S/O '47 p5#
modernization of, overview S/O '64 p14#
Novato-Golden Gate Br. unit converted to full freeway M/J '65 p32#

San Rafael--See also BRIDGES
widening project though city underway Jul '41 p20
Greenbrae intersection project underway M/J '48 p20
improvements underway M/A '55 p15; M/A '57 p16#
nearing completion M/A '60 16#
third [final] unit nearing completion M/J '61 p6#
completed M/J '62 p17#
San Rafael-Ignacio Hwy., widening planned
project completed May '38 p11#

Waldo (Marin) Approach, Golden Gate Br.--See also TUNNELS, Waldo
grading nearing completion Jan '37 p2#
construction of May '37 p4#
dedicated Jun '37 p2#
dedication speeches for Jun '37 p12#
lighting system, experiments with D '37 p14#
freeway project planned J/A '53 p8#
ground breaking held; construction plans for S/O '53 p14#
excavation poses problem M/J '54 p55#
progress on M/A '54 p6#; M/A '55 p13#
dedicated and opened M/A '56 p19#
further improvements planned M/J '62 p18
natural restoration of M/J '65 i.cvr.#

Mariposa Co.
highway projects, general J/A '58 p16; J/A '59 p5
Mariposa (city) road relocation project completed Aug '41 p4#
road improvement underway M/J '54 p44#

Rt. 49; Mother Lode Hwy.
Bagby-Bear Valley unit improved J/A '59 p5#
Mariposa; improvement project underway M/J '54 p45#
ROUTES Mariposa Co., Continued
Rt. 120; Tioga Pass Rd.
repaving completed N/D ‘50 p3#
US public land funds allocated for improvement of M/J ‘64 p67
closed to traffic due to construction S/O ‘65 p55
Lee Vining Canyon section realigned, improved J/F ‘66 p6#
scenic, recreational aspects of J/F ‘66 p14#
Rt. 140 [Leg. Rt. 18; Yosemite All-Year Hwy.]
Bricceburg Grade section improved M/J ‘54 p42#
improvements made to J/A ‘58 p22#
redbud planting project underway J/F ‘66 p34#

Mendocino Co.
highway projects, general J/A ‘58 p35; N/D ‘59 p31
Rt. 1 [Rt. 56; Westport-Leggett Valley Rd.]
Westport-Leggett Valley (Hardy Creek) unit reconstructed M/J ‘58 p35#
Rt. 20; relocation around Russian River reservoir underway M/J ‘57 p1#
Rt. 128 [Rt. 28; McDonald-to-the-Sea Hwy.]
Boonville unit, realignment underway N/D ‘52 p54#
Flynn Creek-Navarro link to be realigned on lateral Aug ‘42 p16#
Rt. 253 becomes part of state highway system; history of route J/A ‘66 p26#
Ukiah-Boonville unit improved J/A ‘66 p26#
US 101; Redwood Hwy.
Eleven Oaks-Willits link realigned May ‘37 p6
Farmhouse Inn-Tan Oak Park unit, widening planned M/A ‘58 p52
Hopland-Crawford’s Ranch unit improved N/D ‘43 p16#
Laytonville realignment completed O ‘37 p14#
modernization of, overview S/O ‘64 p14#
Outlet Creek-Reeves Creek realignment completed May ‘37 p6#
Red Mountain Creek-Piercy unit completed N/D ‘48 p43#
Ridgewood Grade expressway [first 4-lane in county]
under construction N/D ‘53 p7#
dedicated and opened N/D ‘54 p34#
Tan Oak Park-Humboldt Co. line relocation planned M/A ‘62 p71
Ukiah Bypass completed M/A ‘66 p46#
Ukiah; improvement projects underway N/D ‘59 p31
Willits Bypass planned J/A ‘58 p40#
progress on N/D ‘59 p31

Merced Co.
Bellevue Rd. [FAS Rt. 1354] improved between Atwater-Castle AFB M/A ‘64 p53#
highway projects, general J/A ‘58 p16; J/A ‘59 p3#
Rt. 33; section south of Gustine improved M/J ‘54 p46#
I-5 [Westside Fwy.]
Rt. 152 junction-Stanislaus Co. line unit under construction J/F ‘65 p30
progress on M/A ‘66 p38#
Los Banos-Turlock Rd. [FAS Rt. 914], 17-mile road completed M/J ‘61 p43#
Merced (city); G St.-Santa Fe Dr. improved J/A ‘66 p44#
Rt. 99 [US 99; Rt. 4, Golden State Hwy.]
Atwater Bypass completed J/F ‘58 p46#
Livingston-Atwater unit, construction of M/A ‘49 p25#
Merced-Chowchilla divided highway under construction O ‘41 p14#
Merced; divided approach to city opened Jul ‘39 p16#; O ‘41 p14
Merced; Gerard Ave.-Buhach Rd. unit freeway completed J/A ‘64 p43#
progress on, general S/O ‘48 p29
ROUTES Merced Co., Continued
Rt. 140; Gustine-Merced Hwy., improvements made to M/J '54 p48#
Rt. 152 [Pacheco Pass Hwy.]
Los Banos; Pacheco Blvd. parking problem alleviated J/F '56 p46#
relocation around San Luis Reservoir underway completed M/A '63 p45#
J/A '65 p2#

Modoc Co.
highway projects, general J/F '57 p61; M/A '58 p6#
Surprise Valley Rd. improved M/J '47 p22#
Rt. 299 [Rt. 28]
Adin-Alturas expressway completed S/O '64 p11#
Alturas, approach to improved Mar '38 p12#
Alturas-Cedarville Rd.
Bonner Grade modernized; origin of route surfacing completed; plant-mix hauled long distance S/O '57 p26
Hot Creek-Alturas stretch completed May '38 p3
Rush Creek Canyon unit improved S/O '64 p11#
Susanville-Alturas Rd. improved M/J '56 p36#
US 395; Cedarville-New Pine Creek unit, progress on J/A '48 p29

Mono Co.
Bridgeport; Sweetwater Rd. [FAS Rt. 580] improved M/A '55 p40#
Bridgeport Wagon Rd. to be modernized S/O '53 p17#
Hawthorne; Pole Line Rd. modernized, dedicated N/D '57 p20#
Minarets Summit Rd. [FAS Rt. 1195] improved J/F '55 p41#
Rt. 89 [Markleeville-Coleville Hwy.]
Ebbetts Pass Hwy. (Alpine Co.)-US 395 junction unit dedicated and opened S/O '50 p28#
FAS road project underway N/D '54 p23#
Rt. 120; Tioga Pass Hwy. ["Great Sierra Wagon Road"] completed; construction history of route Jul '41 p4#
US public land funds allocated for improvement of M/J '64 p67
Rt. 168, description of route J/A '66 p34#
Rt. 203; Mammoth Lakes Hwy. completed D '37 p6#
Rt. 266 ["Oasis to state line"] becomes part of state highway system J/A '66 p34#
US 395 [Leg. Rt. 23, Sierra Hwy.]
Conway Summit unit, improvements made S/O '58 p8#; M/A '63 p16
description of route J/A '52 p39#
Sherwin Grade realigned; origin of route reconstruction of planned; construction history N/D '55 p14#
surfacing improvements made Apr '37 p18#

Monterey Co.
access road projects J/A '45 p21#
highway projects, general S/O '59 p31
Los Laureles Grade Rd. [FAS Rt. 660] reconstructed M/A '61 p69#
Rt. 1 [Monterey Coast Hwy.]
Cambria Bypass completed M/A '63 p51#
Cayucos-Cambria section improved M/A '63 p51#
Carmel-San Simeon Hwy. dedicated—See also BRIDGES construction history J/A '45 p8; S/O '50 p101
description of route J/A '45 p8
designated as first unit of state scenic highway system J/A '65 l.cvr.#
guard rail installed on N '40 p12#
Morro Bay-Cayucos unit improved M/A '63 p51#

ROUTES Monterey Co., Continued
Rt. 68; Salinas-Monterey Hwy., routing adopted J/A ‘61 p33; J/F ‘62 p66
Rt. 156; Castroville-Prunedale road improved F ‘43 p18#
Del Monte Junction-US 101 [Leg. Rt. 2] unit completed S/O ‘44 p10#
Rt. 198 [Sierra-to-Sea Hwy.]
  Mustang Ridge-Peachtree Valley unit realigned, dedicated O ‘41 p4#
Rt. 183 [Leg. Rt. 118]; Salinas-Castroville Hwy., route adopted J/F ‘62 p66
Toro Rd.-See Los Laureles Grade Rd.
US 101 [Leg. Rt. 2, Coast Hwy.]
  Bradley-King City route via Jolon improved M/A ‘43 p3#
    access roads constructed for war effort J/A ‘45 p21#
  Bradley-San Ardo unit improved to freeway standards M/J ‘65 p6#
  Bradley-San Miguel unit realigned D ‘39 p8#
  Chualar-Spence Underpass project completed; origin of route J/F ‘52 p53#
  Gilroy unit; improvement planned J/A ‘54 p4
  Gonzales-Chualar expressway completed J/A ‘54 p4#
  Gonzalez Bypass planned progress on M/A ‘58 p30
    progress on M/A ‘61 p52
  Greenfield Bypass planned M/A ‘58 p32
    progress on M/A ‘61 p52
  Greenfield-King City expressway completed S/O ‘58 p18#
    improvement projects, general J/A ‘58 p25#
  King City; Canal St.-Salinas River unit improved J/F ‘57 p26
  Prunedale Cut-off
    Santa Rita-Crazy Horse Summit unit, widening underway J/A ‘46 p6#
    completed J/A ‘47 p24#
  Salinas area bottleneck eliminated J/F ‘47 p30#
  Salinas Bypass planned M/J ‘52 p33
    progress on J/A ‘53 p38#; J/A ‘54 p4#
  Market St.-N. Main St. [first] unit opened M/A ‘54 p35#
  Salinas-King City route improved to freeway standards M/A ‘61 p52
  Soledad Bypass planned J/A ‘58 p30
    construction underway S/O ‘59 p34
    completed M/A ‘61 p52#
Napa Co.
  access road projects, progress on S/O ‘44 p8
  highway projects, general M/A ‘54 p1; M/A ‘55 p1; M/A ‘56 p1;
    M/A ‘57 p1; M/A ‘58 p1; M/A ‘60 p30; M/J ‘61 p3;
    M/J ‘62 p19#; M/J ‘63 p37; M/J ‘64 p34; M/J ‘65 p33
I-80 [US 40], American Canyon Cut-off; sections of widened D ‘41 p10#
Rt. 29
  improvement projects planned M/J ‘61 p19; M/J ‘62 p19
Rt. 121 [Rt. 37] and Rt. 29 become controlled access freeway M/A ‘54 p8
Napa; Old Sonoma Rd.-Trancas St. (Redwood Rd.) unit
  widening planned M/J ‘63 p37
  completed M/J ‘65 p33
Vallejo-Napa unit; military access road under construction S/O ‘44 p8#
Yount Rd.-Oakville unit widened M/J ‘64 p34
Yountville Bypass completed M/A ‘60 p30#
ROUTES Napa Co., Continued
Rt. 121 [Rt. 37]
linked with Rt. 29 as controlled access freeway M/A '54 p8
improvement near Sonoma Co. line underway M/A '55 p15
project completed M/A '56 p17
Vichey Ave. widening project completed M/J '65 p33
Silverado Trail Rd. [FAS Rt. 607] improved N/D '59 p27#

Nevada Co.
I-80 [US 40]
Soda Springs-Donner Summit units improved O '37 p1#
Donner Summit route, improvement underway J/A '48 p2#
Boca-Floristan-Nevada Co. line unit
widening of planned S/O '56 p40#
traffic delays due to construction M/J '57 p20#; N/D '57 p55
progress on N/D '57 p13, p43; J/A '58 p3#; J/A '59 p26
completed N/D '59 p2#
Truckee Bypass under construction J/A '59 p25
completed N/D '59 p2#
Hampshire Rocks-Soda Springs unit completed N/D '59 p2#
Rt. 20-Hampshire Rocks unit, progress on M/A '63 p2#
completed J/F '65 p44#
freeway conversion, progress on N/D '59 p2#; J/F '62 p8#; M/A '63 p2#
Donner Summit; split-level roadway relocation underway M/A '63 p2#
completed J/F '65 p42#
Emigrant Gap-Rt. 20 unit completed M/A '63 p2#
overview of project; history of route J/F '65 p42#
trans-Sierra route wins ASCE engineering achievement award M/A '66 p8
wins Governor’s Design Award J/F '67 p37#
Rt. 20 [Tahoe-Ukiah lateral], Parks Bar Bridge link completed S '37 p4#
Rt. 49; Mother Lode Hwy.
Auburn-Grass Valley unit realigned O '40 p20#
Grass Valley-Auburn highway improved M/J '49 p50#
Grass Valley-Nevada City unit, realignment planned J/A '52 p58
Nevada City-Downieville route improved M/J '46 p1#
Rt. 89 [Truckee-Quincy Hwy.]
Hobart Mills; relocation planned S/O '55 p43
intersection with I-80 (Squaw Valley turn-off) improved N/D '59 p2#
Rt. 267; Brockway-Truckee Shortcut
becomes part of state highway system M/A '66 p43#

Orange Co.
access roads built for war effort J/F '45 p2
arterial highways, financing of S/O '60 p17#
Brookhurst-Wright St. [FAS Rt. 747]
first section of arterial highway to beach completed M/J '52 p38#
freeways, general—See also Los Angeles Co. J/F '58 p47#; J/A '63 p21
Harbor Blvd. (Garden Grove) FAS project completed N/D '47 p9#
reconstruction completed S/O '64 p47#
Houston St. (Placentia) [Rt. 14; Houston Expressway]
Cypress Ave.-Santa Ana Cyn. Rd. unit dedicated J/A '56 p56#
 ROUTES Orange Co., Continued

1-5; Santa Ana Fwy. [US 101-By.]

Norwalk-Mirafloros [first] unit, progress on N/D ‘50 p20#
Browning Ave. (Santa Ana)-1st St. (Tustin) unit J/A ‘55 p51#
progress on, general S/O ‘55 p12#; J/F ‘57 p7#; J/F ‘59 p30
Anaheim-Buena Park unit, progress on J/F ‘58 p49#
Irvine (El Toro Rd.)-Laguna Canyon Rd. unit completed J/A ‘58 p23#
final link completed S/O ‘58 p13#
benefits of J/A ‘63 p21

1-405; San Diego Fwy.

progress on, general J/F ‘58 p12; J/F ‘59 p31#; J/F ‘62 p45
San Juan Capistrano unit under construction J/F ‘58 p47#
San Clemente unit completed N/D ‘58 p41#
San Juan Capistrano-San Clemente unit underway J/F ‘60 p16#
completed M/A ‘61 p18
Bolsa Chica Rd. unit under construction M/A ‘62 p44
community benefits from J/A ‘63 p21#
Costa Mesa; Beach Blvd.-Harbor Blvd. unit completed M/A ‘64 p28
embankment construction to begin J/F ‘67 p10
Katella Ave. divided highway dedicated; origin of name S/O ‘62 p28#
Manchester-Firestone Boulevard [Rt. 42; Leg. Rt. 174]
Anaheim unit dedicated; origin of route May ‘37 p18#
projects budgeted, annual N/D ‘63 p79; N/D ‘64 p79; N/D ‘65 p78; N/D ‘66 p37
Rt. 1; Pacific Coast Hwy. [US 101-Alt.]
Huntington Beach-Newport Beach unit, widening planned J/F ‘60 p14
**ROUTES Orange Co., Continued**

**Rt. 22: Garden Grove Fwy.**

- **route name**, routing for adopted: N/D '57 p56
- **progress on**
  - J/F '59 p33; M/A '61 p8; M/A '63 p31;
  - Los Cerritos Channel-Knott Ave. unit completed: J/F '60 p8
  - Knott Ave-Newland St. unit under construction: M/A '63 p31
  - completed: M/A '64 p31#
  - Haster St.-Manchester Ave unit completed: M/A '65 p42

- **Rt. 39; Beach Blvd. [Rt. 171]; Buena Park unit realigned:**
  - Jan '43 p16#

- **Rt. 55 [Leg. Rt. 43]**
  - Costa Mesa; limited access freeway project completed: N/D '53 p44#
  - Newport Blvd. expressway completed (Costa Mesa): N/D '53 p44

**Newport Fwy. [Santa Ana Canyon Fwy.]**

- **name, routing for adopted:** N/D '57 p56
- **plans for:** J/F '59 p33
- **progress on**
  - J/F '60 p13; M/A '61 p12;
  - Chapman Ave.-Santa Ana Fwy. unit under construction: M/A '61 p12
  - Santa Ana-Riverside Fwy. link opened: M/A '63 p35#
  - Warner Ave.-Bristol St./Palisades Rd. unit completed: J/F '67 p10

- **Newport overhead solves traffic problem:** Jan '37 p6

- **Rt. 57; Orange Fwy.**
  - plans for: M/A '61 p12; M/A '63 p36; M/A '65 p44

- **Rt. 73 [Rt. 184; Corona Del Mar Fwy.]**
  - Santa Ana-Corona del Mar link underway: Jun '41 p22#
  - improvement of planned: M/A '61 p6

- **Rt. 90; Imperial Hwy. [Rt. 176]**
  - Yorba Linda unit opened: Aug '37 p30
  - Yorba Linda Blvd.-Riverside Fwy. unit: J/F '60 p11; M/A '61 p11
  - Orangethorpe Ave.-Yorba Linda Blvd unit completed: M/A '64 p35#

- **Rt. 91; Artesia-Riverside Fwy. [Houston Fwy., Rt. 175 Fwy.]**
  - progress on: J/A '55 p51#; J/F '57 p13
  - Fullerton-Anaheim [last] unit completed: J/F '60 p15#
  - Lemon St. (Fullerton)-Rt. 55 unit converted to freeway: J/F '67 p10#

- **Rt. 133; Laguna Canyon Rd. [Laguna Blvd., Rt. 185]**
  - Laguna Canyon section widened: S/O '52 p6#
  - freeway route adopted: M/A '58 p50
  - relocation job completed: J/A '58 p23#
  - progress on, general: J/F '59 p32; J/F '60 p11
  - Laguna-Santa Ana Fwy. unit improved: M/A '61 p12
  - Santa Ana Canyon Rd. [Rt. 18]; last link of completed: J/A '52 p36#
  - US 101; railroad finances realignment of Trabuco Creek Br. unit: F '42 p8#

**Placer Co.**

- highway projects, general: J/A '58 p1#; J/A '59 p23#

**I-80 [US 40, Leg. Rt. 37]**

- Applegate-Auburn unit, improvement underway: J/A '49 p50#
  - project completed: M/A '51 p58#
  - extension east of Applegate planned: J/A '54 p6

- Auburn; realignment west of Nevada St. underway: N/D '46 p8#
  - nearing completion: S/O '47 p13#
  - summary of project: S/O '48 p2
  - precast reflective curbs tested: J/A '55 p35#
## ROUTES Placer Co., Continued

- Baxter-Emigrant Gap, realignment underway
  - J/A '59 p24#
- Colfax unit nearing completion
  - May '39 p18#
- Colfax-Heather Glen widening project, progress on completion, dedication held
  - J/A '57 p32#
- Magra-Monte Vista, freeway project underway completed
  - J/A '59 p24#
  - N/D '59 p2#
- Newcastle-Auburn (Elm St.) unit realignment nearing completion completed, dedication held
  - J/A '58 p2
  - O '37 p1
- Rocklin-Loomis unit, pavement replaced
  - Aug '37 p1#
- Roseville Fwy. [US 40-99E] relocation project proposed under construction
  - S/O '47 p16
  - J/A '53 p43
- Roseville-Newcastle unit planned completed
  - J/A '55 p28
  - N/D '59 p2#

## Plumas Co.

- Auburn-American River Br. route improved, dedicated
  - N/D '53 p38#
- Auburn-Grass Valley unit improved
  - M/J '49 p50
- Grass Valley-Nevada City freeway planned
  - J/A '63 p52#
- I-80 [US 40] junction; Auburn-Rock Creek units, progress on
  - S/O '47 p14
- Rt. 65 [US 99E, Leg. Rt. 3], Roseville; realignment through city planned
  - J/F '47 p12
- Rt. 96 [Mosquito Ridge Nat Forest Hwy.]
  - Forest Hill unit under construction
    - N/D '46 p29#

## Riverside Co.

- Alessandro; “Jack Rabbit Trail” replaced by new I-10 [US 60-70] unit
  - Aug '37 p16#
- Arlington-Mira Loma Expressway [FAS project] opened
  - M/J '55 p14#
- highway projects, general
  - N/D '58 p33; M/J '59 p3#
  - N/D '63 p13; N/D '64 p14; N/D '65 p12

I-10 [US 60-70-99, Leg. Rt. 26]

- Banning; San Gorgonio Pass Fwy. unit completed
  - S/O '56 p32#
- Banning-Palm Springs Jct. unit under construction
  - May '41 p10#
- Beaumont-Redlands unit improvements made expressway completed, history of route
  - Mar '38 p8#
  - M/J '50 p22#
  - M/J '51 p23#
- Beaumont-Banning unit, improvements made
  - Mar '41 p18;
  - J/F '62 p13#
- Box Springs-Badlands-Beaumont unit improved
  - Aug '37 p16#
- Indio-Thousand Palms (Edom) unit improvement of planned
  - M/J '59 p45
ROUTES Riverside Co., Continued
I-15; [Rt. 77, US 395; “Inland Route” Hwy.]
  Corona-Elsinore unit (Temescal Canyon) realigned O ‘41 p12#
  Escondido freeway, progress on N/D ‘58 p12; M/J ‘59 p27
  La Cadena freeway-Riverside unit M/J ‘52 p3
  modernization of planned N/D ‘46 p18
  Perris Bypass completed; history of region J/F ‘54 p31#
  Perris-March AFB unit, plans for M/J ‘52 p5
  Riverside-Perris unit widened N ‘42 p14#
  Temecula relocation; history of area J/F ‘49 p33#; M/J ‘52 p1
  Temecula-Perris Cut-off under construction M/J ‘52 p3#
  Mission Blvd.--See Rt. 60
  projects budgeted, annual N/D ‘63 p77; N/D ‘64 p78; N/D ‘65 p79;
  N/D ‘66 p35
Rt. 60 [Mission Blvd., US 60]
  Badlands expressway under construction M/J ‘59 p34#
  Mira Loma-Riverside route under construction J/A ‘46 p22#
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- 19th Ave. Fwy. planned  M/J '61 p16
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- San Francisco-Burlingame units under construction  J/A '47 p10#
- San Mateo-S. San Francisco; 9-mile section completed  M/J '49 p1#
- San Mateo (16th Ave.)-San Carlos unit under construction  M/A '54 p4
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- San Francisco-San Jose route completed; history of project  M/A '62 p5#
- Grand Ave.-Peninsular Ave. (Burlingame) unit widened landscaping, improvement projects underway  M/J '63 p42
- Whiskey Hill Rd. [FAS Rt. 1004] improvement completed  M/A '54 p40
- [*In 1964 US 101-By became US 101 (Bayshore Fwy.); US 101 became Rt. 82]

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[*In 1964 US 101-By became US 101 (Bayshore Fwy.); US 101 became Rt. 82]
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Greene, George, resident engineer on project retires M/A ‘63 p11
completed; dedication held M/A ‘63 p10#

Del Norte Co.

Randolph Collier Tunnel, US 199 [Hazelview Tunnel]
ground-breaking held S/O ‘60 p2#
construction underway M/J ‘61 p27#
“Hazelview Tunnel” renamed J/A ‘61 p33
progress on M/J ‘62 p33;
dedicated S/O ‘63 p2#
Lighting, tunnels and N/D ‘53 p37#; S/O ‘59 p43; M/J ‘62 p39#

Los Angeles Co.

eliminated; replaced by highway J/F ‘51 p17#
Fourth St. Tunnel planned M/A ‘51 p12
tunnel plan rejected in favor of open cut M/J ‘56 p14

Newhall Tunnel [Fremont Pass; San Fernando Pass]
to be eliminated Jan ‘38 p10#
progress on N ‘38 p4#
construction history of Jan ‘40 p16#
history of route S/O ‘54 p34#; M/A ‘64 i.cvr.#

Rt. 2, Angeles Crest Hwy. [Rt. 61]
two mountain tunnels to be constructed for Mar ‘41 p28
progress on D ‘41 p8#
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history of project J/F ‘46 p18#
construction work on resumed S/O ‘48 p6#
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Marin Co.
Waldo Tunnel (US 101) [Golden Gate Br. Fwy.]
under construction Jan '37 p2#; May '37 p4
widening project planned J/A '53 p8#
Gov. Knight makes inspection of N/D '54 p20#
completed and opened M/A '56 p19#

Monterey Co.; conveyor tunnel constructed under US 101 M/A '54 p43#

Plumas Co.; Grizzly Dome Tunnel opens (Rt. 70, Feather River Hwy.) Aug '37 p1#
San Bernardino Co.; old irrigation tunnel reconstructed (I-10) M/A '60 p3#
San Diego Co.
San Vicente Dam tunnel used during Rt. 67 [Rt. 198] relocation J/F '44 p14#

San Francisco Co.
BART tube beneath San Francisco Bay planned J/A '66 p37#
Presidio Approach Tunnel [to Golden Gate Bridge]
cut and backfill method used on Jun '39 p4#
progress on S '39 p21#
dedicated May '40 p2#
Yerba Buena Island tunnel, reconstruction planned S/O '60 p40
work nearing completion J/F '62 p36#

San Mateo Co.
Mussel Rock tunnel, Rt. 1; “first highway tunnel,” history of M/J '56 p12#
letter from San Mateo Co. historian regarding S/O '56 p37

Santa Barbara Co.
Gaviota Gorge Tunnel; US 101 M/A '51 p6#
construction planned N/D '51 p36#; J/F '53 p10#
progress on N/D '51 p36#
placing of lining; portals completed M/J '53 p27#
lighting for N/D '53 p37#

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Alamitos Bay/Ocean Park project (Los Angeles Co.) S/O '44 p14#
Cable relocation offers challenge on bridge job (Alameda Co.) J/F '61 p64#
Cable moving, skidding technique used J/F '62 p44#
Freeway clearance operations and utility lines M/A '58 p21#
Publicly owned utilities show net earnings N '41 p24
Relocation of a problem on San Diego project S/O '60 p13#
Telephone cable protected during construction job M/J '50 p25
Telephone cable relocated for freeway job (Los Angeles Co.) S/O '60 p36#
Texas-to-California gas line, relocation of J/F '50 p49#
“What’s under a highway: locating pipe lines and conduits” N/D '51 p40

WORLD WAR II-RELATED
Air Raid attacks, effect of on schools studied F '42 p17
Army engineers study foundation test methods for runway design May '42 p2
Blackout measures
luminescent paints for use in blackouts studied F '42 p6
traffic signal unit designed to meet blackout regulations Aug '42 p4#

Bridges
700 bridges deemed inadequate for defense needs D '40 p1#
patrolled by armed guards Jan '42 p2
truck lane added to Bay Bridge benefits vital war traffic J/A '45 p26#

WORLD WAR II-RELATED, Continued
Broken traffic stripe (“Victory stripe”) adopted Apr '42 p17

Budget/Funding
1941-43 budget revised by war emergency demands D '41 p1
expenditures as of Aug. 1, 1942
Federal defense road projects, funding for
Federal gas tax increased by .5 cent for national defense
funds voted to repair highways damaged by wartime traffic
second wartime budget adopted by Highway Commission
California signs mark island road in South Pacific

Carpooling
“Drive For Victory” campaign started among motorists
Highway Division car pool efforts, results of
regulations for pooling state-owned automobiles issued
speed restrictions and group riding urged
Central Valley Project, war effort and
Changes in highway activities caused by war
Department of Public Works, participation of in defense efforts
continued affects of war upon through 1945

Employees
Casualties
Blackwell, Robert Lee
Davis, Earl David
Davis, George R.
Evensen, Emil H., bridge dedicated to memory of
Greenwood, George H. dies as prisoner of war
Larson, Charles, bridge dedicated to memory of
Miller, Carl T.
Svedeen, Robert E.
enlistments
Grayson, H.L. cited for valor
Grumm, Fred J., made consultant on War Production Board
Harris, Milton, awarded Latheran Cross by Pope
highway men hold reunion in South Pacific
Kenfield, Keith, praised for heroic conduct
King, William H. promoted to Lt. Colonel
Jantzen, Herman R. wins citation for bravery
Williams, Claude L. invents bomb-loading device
Metal highway signs replaced by masonite to save war material

National Defense Highway Program
access roads built
designated military and naval access roads
demands of compel revisions, postponements of other projects
how Priorities Control System affects construction activities
need for evaluated
problems caused by
progress on as of Aug. 1, 1942
takes precedence over normal Public Works activities
## WORLD WAR II-RELATED, Continued

### Roads
- asphalt rationing, restrictions on highway work  
  M/A ‘43 p15
- broken glass on roads, increase of; deliberate sabotage suspected  
  Jan ‘43 p20
- effects of war emergency on highways  
  Jun ‘42 p13
- maintenance  
  - problems of due to war emergency  
    Mar ‘42 p12; N ‘42 p1;  
    S/O ‘43 p12#
  - roads damaged by wartime traffic to be repaired  
    Jun ‘42 p12
  - wartime maintenance, retrospective  
    S/O ‘50 p140
  - mountain highway improved to increase war-needed lumber output  
    J/F ‘44 p8#
  - road building program speeds up  
    F ‘42 p1

### Rubber conservation—See also Carpooling
- California strides ahead in rubber conservation  
  N ‘42 p2#
- Division of Water Resources saves 288,800 miles with tire usage plan  
  D ‘42 p16
- guayule shrubs planted to produce raw rubber  
  F ‘43 p12#

### Snow removal operations curtailed by war emergency needs  
- D ‘42 p17

### Traffic
- gas rationing and  
  Jan ‘43 p12
- congestion in vicinity of defense plants  
  F ‘41 p1#
- control of by short wave radio aids defense effort  
  F ‘42 p1
- wartime trends shown by survey  
  Jun ‘42 p4
- wartime truck traffic, volume, tonnage of increased  
  J/A ‘43 p1#

### Transportation problems in wartime discussed by WASHO  
- M/J ‘43 p18

### War surplus materials purchased by PW Dept.  
- M/J ‘47 p1#

### War surplus bridges used by Div. of Hwys.  
- N/D ‘47 p10#

### Women employed to work on highways  
- J/A ‘43 p17
EMPLEYES

A
Adams, John C.; retires J/A ‘60 p69
Adams, Kenneth C.; retires N/D ‘57 p25#
Aeppli, Ernest; retires J/A ‘61 p60#
Akers, Ray Spencer [obit] N/D ‘57 p54
Aldrich, Gladys Elizabeth [obit] S/O ‘57 p34
Allan, Rex J. [obit.] M/A ‘46 p31
Allen, Clifton M. [obit] M/A ‘54 p51
Allison, Bryan [obit] N/D ‘48 p56
Amesbury, H. Clyde; retires S/O ‘57 p48#
Andersen, Neal E.; promoted S/O ‘63 p48#
Anderson, A.L.; retires N/D ‘55 p45#
Andrew, Charles E.; made S.F.-Oakland Bay Br. Engineer F ‘37 p18
Aramayo, Luis; Tehama Co. street named for J/A ‘59 p56
Asbill, J.M.; promoted M/A ‘61 p23#
Ashcroft, Glenn B. [obit.] M/J ‘46 p29
Austgen, Frank R.; retires J/A ‘55 p48#
Avery, George B.; biographical sketch J/A ‘55 p48#
Axtman, William F.; retires M/A ‘66 p48#
Ayanian, Haig; promoted M/A ‘62 p70#; J/F ‘63 p59#

B
Badger, Richard S.; retires N/D ‘45 p36
Bagshaw, Fred; made assistant to Director of PW M/J ‘53 p50#
becomes Director of PW N/D ‘58 p9#
Baker, Francis R. [obit] O ‘42 p16
Baker, Louis O.; biographical sketch S/O ‘66 p44#
Balfour, Frank C. [ARWA founder]; given ARWA award J/A ‘58 p49#
retires J/F ‘61 p48#
retires from ARWA J/F ‘64 p42
Balloch, Roger T. [obit] M/J ‘56 p49
Banes, Walter M.; retires J/A ‘59 p20
Banks, Harvey O.; becomes head of DWR J/A ‘56 p70#
Barry, Richard [obit] D ‘40 p28
Batham, Lloyd A.; retires M/A ‘52 p29#
Baumgart, Walter M.; retires M/A ‘64 p67
Baxter, Frank E.; promoted N/D ‘54 p36#; J/A ‘56 p35#; J/F ‘62 p60# trades position M/J ‘64 p65
Beaton, John L.; promoted J/F ‘63 p57#; S/O ‘63 p48#
Beach, Oscar; retires J/F ‘64 p60
Beckley, C. Warren [obit] J/F ‘49 p60
Bedford, Thomas A.; retires Jul ‘39 p22#
activities of since retirement M/A ‘51 p21#
[obit] M/A ‘53 p59
Beer, Charles G.; promoted S/O ‘55 p51; M/A ‘62 p29#
named first Urban Planner J/A ‘62 p36
Belford, Herbert E.; retires M/A ‘62 p77#
B Continued

Belknapp, Fred R.; retires J/A ‘53 p48#
Bender, O.; wins honorable mention for bridge design S/O ‘66 p39#
Benedict, Charles K. [obit] J/F ‘58 p64
Benedict, H. W.; biographical sketch M/A ‘66 p48#
Berg, Carl E.; retires J/F ‘49 p26
Bergman, Rynard A.; retires J/A ‘51 p21
Bergren, Gustave N. [obit] N/D ‘47 p36
Bergroth, Rudolph; retires J/F ‘63 p56#
Bertken, Les; retires S/O ‘54 p62
Beuthel, Raymond L.; retires J/A ‘55 p47#
Beuzzone, A.P.; wins bridge design award honorable mention S/O ‘66 p39#
Bigelow, Howard Thayer (“Tom”); retires S/O ‘63 p63#
Biggs, Charles L.; retires J/F ‘64 p60
Birnie, A.C.; promoted M/A ‘62 p70#
Blacow, Mervyn R. [obit] S/O ‘63 p62
Block, William; retires J/F ’62 p35#
Blotter, Wayne M.; retires M/J ‘63 p58
Boggs, Wallace B.; honored J/A ‘52 p47
Bolin, Harry W.; retires M/A ‘54 p57
Bolstad, William L. [obit] S/O ‘60 p71
Booker, B.W.; promoted M/A ‘52 p25#
    [obit] J/A ‘60 p14; S/O ‘60 p68
Boren, Albert L. [obit] N/D ‘58 p30
Bosso, Oliver R.; becomes assistant, DBTC J/F ‘48 p3#
Boswell, Gladys; retires S/O ‘58 p63
Botts, Dr. E.D.; retires J/F ‘60 p59#
Boucher, Fred L.; awarded Medal of Valor J/F ‘65 p58#
Bovey, Clarence E.; promoted M/J ‘53 p50#
    [obit] N/D ‘58 p10#
Bower, Evan G.; killed on job [obit] M/J ‘64 p68
Bowers, H.; Dana cited as shade tree pioneer J/A ‘64 p54
    [obit] S/O ‘64 p60#
Boyd, Anson; named State Architect Jun ‘40 p11#
    [obit] M/A ‘62 p72#
Boyle, Charles K.; killed on job [obit] J/A ‘59 p56
Bradford, Robert B.; named Director of PW J/F ‘59 p13#
    made Hwy. Transportation Agency head S/O ‘61 p1#
Bradshaw, Marion; retires S/O ‘61 p79
Braker, William J.; retires N/D ‘58 p49
Brianas, Chistos; biographical sketch J/A ‘66 p48#
Briney, Albert C.; retires J/A ‘62 p54#
Brinkerhoff, O.B.; retires M/J ‘53 p48#
Bromm, George E. [obit] S/O ‘53 p51
Brown, Elbert C. [obit] J/A ‘63 p71
Brown, Paul; biographical sketch M/A ‘66 p48#
Brunk, George C.; sets safety record M/J ‘51 p42#
Bryan, Everett N. [obit] Jan ‘40 p28
B Continued
Buell, T.T.; retires S/O ’57 p49
Burke, Norris J. [obit] S/O ’59 p30
Burns, C.R. [Bob]; retires M/A ’62 p78#
Burnside, Frank E.; retires J/A ’53 p48#
Burrill, John C.; promoted M/A ’62 p69#
Burroughs, Spencer R. [obit] J/F ’49 p53
Busby, Forest N.; retires S/O ’56 p38#
Byroads, Harold; retires M/A ’58 p38#

C
Caffrey, Joseph A. [obit] S/O ’64 p71
Caine, Chester L. [obit.] M/J ’45 p26#
Call, James McCulloch [obit] F ’41 p28
Campbell, L.V.; retires M/J ’53 p48#
Cardwell, Mark L.; retires J/F ’60 p64
Carleton, C.C.; retires M/J ’62 p33#
Carlisle, Robert J.; retires J/F ’49 p23#
Carlstad, Edwin [obit] S/O ’57 p48#
Carr, Francis J.; becomes U.S. Navy Lieutenant N/D ’43 p20
Carter, Edward F.; retires J/F ’63 p57
Carter, F.M. ["Nick"]; honored by Traffic Institute M/J ’54 p59
Carter, Harry F. [obit] J/F ’57 p46
Carver, Arnold; wins Hewes Award for radio communication S/O ’54 p33#
Casey, Richard T.; promoted J/A ’63 p69#
Chaffee, John M.; promoted M/A ’55 p60
Chambers, Frank A.; made Chief Deputy Director N/D ’59 p19#
Chase, Ralph V.; retires J/F ’62 p25#
Chatters, Ford A.; appointed to State Personnel Board M/J ’47 p29
Cheeseman, Glenn H. [obit] M/J ’59 p40
Church, Hartley R. [obit] May ’41 p24
Clark, A.C.; retires S/O ’57 p49
Clark, Frank W.; named Director of PW Jan ’39 p3#
Cobb, Samuel A. [obit] Jun ’41 p18
Cobb, William R.; retires J/F ’58 p59#
Coghill, John W. ("Wes"); retires M/A ’64 p67
Collins, Ray; retires N/D ’58 p45#
Colwell, Brian T.; biographical sketch J/A ’66 p48#
Comly, Harry S. [obit] J/F ’50 p52
Compagnon, Henri; retires M/J ’63 p58
Conkling, Harold; resigns M/J ’45 p26
Cook, George N.; retires M/A ’62 p73#
Cooney, Russell J.; promoted N/D ’59 p19#
Cooper, Herbert L.; retires S/O ’52 p26#
and wife, [obit] J/F ’53 p33
Corey, Lester G. [obit] M/A ’51 p26
C Continued

Cortelyou, Spencer V. [“Father of the Freeways”]; early career of J/A ‘52 p46#
retires S/O ‘49 p19#;
Angeles Crest Hwy. (Rt. 2, L.A. Co.) and N/D ‘49 p46
[obit] N/D ‘56 p7
S/O ‘62 p46
Cotter, William N. [obit] N/D ‘57 p54
Cowgill, Paul; retires M/J ‘64 p70#
Craemer, Justus O ‘37 p16
Craig, Lloyd Dunbar [obit] J/F ‘58 p58
Cramer, I.F. (“Ferd”); retires J/F ‘61 p70#
Crandall, Richard R.; biographical sketch J/F ‘67 p46#
Cravens, Jethro J. killed on job [obit] J/F ‘65 p30
Crawford, Wayne H.; retires M/J ‘65 p63#
Crayton, George A. [obit] S/O ‘49 p58
Creed, John H.; retires M/J ‘62 p31#
Crespo, Zacharias [obit] J/A ‘47 p27
Cressy, Frank B.; retires M/A ‘63 p77#
Cruza, George F. [obit] N/D ‘58 p30
Cully, William S.; retires J/F ‘63 p58#
Curry, Joseph M. [obit] S/O ‘53 p51
Cushman, Freeman H.; retires J/A ‘49 p38#

D

Dahlquist, John; retires S/O ‘55 30
Dallas, Eli [obit] O ‘39 p28
Daniels, W. K.; retires J/F ‘55 p56#
Darby, Claud H.; wins welding foundation award N/D ‘47 p34#
Darling, Harry C.; retires M/A ‘51 p31#
Darling, W. V. Jan ‘37 p25
Darlington, Francis George [obit] F ‘37 p28
Datel, Robert J.; biographical sketch S/O ‘66 p44#
Daughey, Fred B.; retires M/A ‘55 p48#
Davenport, Berle Joy [obit] M/A ‘49 p59
Davidson, John B.; retires, honored at banquet N/D ‘53 p60#
Davies, Stewart R. [obit] J/A ‘60 p67
Davis, Chester Ross [obit] J/A ‘45 p27
Davis, Coral Porter; retires J/F ‘62 p79#
Davis, Earl David [obit] M/J ‘45 p26#
DeFeubeach, Richard; promoted J/F ‘63 p43#
De Haven, Harry W. [obit] J/F ‘50 p51
Dekema, Jacob; promoted S/O ‘55 p51#; J/A ‘62 p35#
Delaney, Ralph E.C. [obit] J/A ‘53 p38
Dennis, T.H.; retires S/O ‘49 p24#
Deuel, Norman B. [obit] J/F ‘64 p59
Devine, Patrick; retires M/J ‘63 p58
Dobbins, Wiliam E. [obit] M/A ‘46 p29
Dobrotin, Michael N. [obit] J/A ‘52 p8
Dobson, James B. [obit] M/J ‘47 p32
D Continued

Dolliver, William S.; retires J/A ‘60 p71#
D’Ooge, Leonard; made Administrative Assistant Apr ‘42 p9#
Dougherty, Clementine; retires M/A ‘59 p45#
Douglass, Walter A.; retires S/O ‘55 p47
Downes, Nate W.; retires J/F ‘55 p56#
Drew, Eldridge D.; retires M/J ‘64 p68#
DuCray, Justin J.; promoted M/J ‘61 p53
Dudman, Arthur F.; promoted N/D ‘59 p21#
Duffy, Raymond P.; retires S/O ‘55 p45#
Dunckhorst, Paul; retires J/F ‘54 p50#
Dunham, Neil; first computer systems engineer M/A ‘64 p69#
Dunn, Ruth K. [obit] J/A ‘50 p54

Durkee, Frank B.
  promoted M/J ‘48 p44
  named interim Director of PW J/A ‘51 p1
  career of M/J ‘56 p47;
  retires S/O ‘64 p51
  J/F ‘58 p41#
Dwyer, L. B.; biographical sketch M/A ‘66 p48#

E

Easterday, Ora T.; retires J/A ‘52 p28#
Eastman, Thomas [obit] M/A ‘51 p25
Ebberts, Alfred R. [obit] J/F ‘49 p53
Edmonston, A.D.; career of J/F ‘50 p11#
  retires S/O ‘55 p44#
  [obit] M/A ‘57 p45
Edwards, Raymond Phillip [obit] J/A ‘46 p29
Eggett, Robert J. [obit] May ‘40 p32
Eidson, Milo E. retires; honored at banquet N/D ‘53 p60#
Elliott, A.L.; promoted S/O ‘53 p49#
Enger, Arthur L. [obit] S/O ‘49 p42
Epperson, William H.; retires M/J ‘52 p28#
Eremin, Anatol A.; gives advice to Hawaii [T.H.]
  retires S/O ‘54 p31#
  J/F ‘61 p71#
Erreca, John; appointed to CHC J/F ‘61 p37#
  appointed Director of PW M/A ‘63 p42#
Escobedo, Frank J.; returns to PW S/O ‘54 p32
  made Deputy Director of PW J/A ‘56 p65#
  [obit] J/F ‘57 p62
Eslick, Charles L. [obit] S/O ‘56 p36
Estep, Alvord C.; promoted J/A ‘64 p55#
Evans, Edward L.; retires J/A ‘52 p27#
Evans, Don G.; promoted M/J ‘51 p12
  retires N/D ‘54 p37#
Evensen, Emil H.; bridge dedicated to memory of N/D ‘48 p32#
Everitt, F.L.; promoted N/D ‘58 p18
Ewing, Merle E.; promoted J/A ‘63 p69#
F
Fahey, William L.; retires
Fahey, Leo S. [obit]
Farnsworth, George; retires
Faustman, William F.; retires
Fenton, Harry S.; appointed legal head
Fite, Preston L.; retires
Flack, Charles L. [obit]
Fletcher, Austin B. [pioneer road builder]
reprint of 1928 tribute to
Fluter, George; biographical sketch
Foley, E.R.; promoted
transferred
made head, DBTC
Forschler, Homer T.; retires
Fosgate, Marc C.; retires
Fraleigh, Douglas M.; wins bridge design award
Frankland, Bamford; promoted
Freeman, Harry D.; promoted
Frykland, Basil; retires
Fulton, Rex H. [obit]
Funk, L.L.; to head photogrammetry unit
G
Gallagher, Bernard M.; retires
Gallagher, James; retires
Gallagher, John D. [obit]
Garcia, Kenneth M. [obit]
Garrigan, Elred G. [obit]
Garrison, Fred R.; retires
Gatoura, N.G.; promoted
Gay, Harvey P.; retires
George, Abram N. [obit]
German, Art; biographical sketch
Gibson, Lester H. [pioneer road builder]; retires
Gilbert, A.K.; retires
Gillis, Lyman R.; promoted
made Deputy State Hwy. Engineer
retires
Gillis, R.M.; promoted
N/D '55 p44#
S/O '60 p71
M/A '54 p60#
N/D '50 p32#
S/O '63 p42#
M/A '50 p32
S/O '54 p30
S/O '50 p81
M/A '56 p48#
J/A '56 p35#
M/J '61 p31#
N/D '63 p57#
J/A '62 p54#
J/A '56 p59#
N/D '59 p45#
J/A '64 p56#
N/D '59 p19#
J/A '58 p51#
J/F '61 p74
M/J '56 p46#; J/F '57 p51
N/D '59 p20#
J/A '63 p67#
S/O '57 p51#
S/O '54 p60#
J/A '56 p56
N/D '58 p30
J/A '49 p33
M/A '62 p77#
J/A '63 p69#
S/O '52 p27#
J/A '46 p29
J/F '67 p46#
N/D '49 p15#
J/A '56 p64#
J/F '60 p2#
Apr '38 p27#
N/D '50 p10#
N/D '55 p42#
**G Continued**

**Gilliss, C.M. (Max)**

assumes post with PW
made deputy director of PW
drafted into new job by Gov. Knight
returns to PW post
becomes Director of PW
resigns

- J/F '53 p49#
- S/O '55 p51; J/F '56 p19
- J/F '57 p45
- S/O '57 p39
- J/F '58 p41#
- N/D '58 p9#

**Glenn, Michael G. [obit]**

- M/A '52 p20

**Gloe, Robert [obit]**

- J/F '49 p45

**Godwin, Merle H. [obit]**

- N/D '50 p63

**Good, Clifford David [obit]**

- N '42 p9

**Goodwin, James H.;**

- S/O '55 p45#

**Gough, William J.;**

- M/A '53 p44#

**Graham, Clyde A. [obit]**

- J/A '47 p27

**Grant, Eric P.; biographical sketch**

- S/O '66 p44#

**Grant, Frederick N. [obit]**

- N/D '49 p28

**Grayson, H.L.;**

- N/D '44 p22

**Greeley, Douglas Hunter [obit]**

- Apr '41 p23

**Green, Clifton F.;**

- J/F '63 p59#

**Green, Everett R. [obit]**

- S '42 p20

**Green, Frank F.;**

- J/A '62 p54#

**Green, John D. [obit]**

- J/A '43 p17

**Green, John W.;**

- M/A '60 p63#

**Green, P. Renwick;**

- M/A '53 p45

**Greene, George A.;**

- M/A '63 p11#

**Greenwood, George H.;**

- S/O '45 p27
- S/O '45 p32

**Griffin, A. D.;**

- J/A '60 p69#

**Gripper, Edward S.;**

- S/O '49 p23#
- N/D '52 p57#
- J/A '58 p50

**Grohman, George J.;**

- J/F '65 p75

**Grumm, Fred J.**

- loaned to WPB as priority consultant
- promoted
- retires
- honored by Engineer Council of Sacramento Valley

- Aug '42 p18
- F '43 p13#
- J/A '50 p21#
- M/A '57 p51#
- J/F '58 p52

**Gunston, George T.;**

- Mar '41 p31

**Gustafson, Charles F.; biographical sketch**

- J/A '66 p48#

**H**

**Haight, William Taft [obit]**

- M/A '50 p54

**Haley, John J., Jr.**

- O '37 p23

**Halstead, Wade O.;**

- S/O '59 p50#

**Halsted, Helen;**

- M/A '62 p18

**Hamblin, W.H.;**

- N/D '50 p49#

**Hamilton, Carl S. [obit]**

- M/A '58 p50

**Hampton, Earl W.;**

- J/A '55 p22; N/D '59 p21#
- S/O '63 p62
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1937-1967

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Ellis, James W.; teen appointed mock Director of PW J/A ‘56 p66#
Evans, Don G. [veteran engineer]; made Asphalt Institute Dist. Engineer. J/A ‘55 p63
Graham, John R. [pioneer roadbuilder] [obit] M/J ‘55 p39
Hadley, George C. [L.A. Deputy Chief Council] retires J/F ‘64 p27#
Hale, Hal H. [AASHO] resigns N/D ‘54 p33
Hendee, Clare; named Assistant Chief of Forest Service S/O ‘55 p31
Heslep, Edward A.; named aid to Bridge Authority M/J ‘59 p44
Hewes, Dr. L.I. [veteran road builder] [obit] M/A ‘50 p33
Hislop, John K.; gets post with state Chamber of Commerce N/D ‘51 p35
**Historical Figures**

Anza, Don Juan Bautista de  
Beckwourth, James P.; Beckwourth Pass and  
Donner party survivors  
Fremont, John C.; Gaviota Pass and  
Marlette, S.H. (first Surveyor General)  
Serra, Junipero  
Hoberg, George; California Safety Council president  
Johnson, Alfred E.; assumes post with AASHO  
Judah, H. Ray [former State Senator] [obit]  
Kelleher, Dennis J. [Bay Bridge employee] [obit]  
Knudsen, Mrs. Valley M.; Los Angeles Beautiful founder  
MacDonald, Thomas H. [U.S. BPR] [obit]  
MacLachlan, Kenneth A. [pioneer highway economist]; retires  
Mattson, Joe O.; named president ASF  
McCormack, Sen. Thomas [good roads leader] [obit]  
Merrill, Gen. Frank D.; dies two days after election to AASHO  
Mickle, D. Grant; appointed Deputy FHA  
    named director, NAS-NRC  
Monahan, Robert M.; named BHIF executive  
Moore, Edwin S.; elected secretary and general manager of CSAA  
Morrisey, N.J.; named State Director of PVS  
Morrison, D.L. [project manager for Guy F. Atkinson Co.] [obit]  
O’Neill, J.E.; elected head of AAA  
Penn, Hamilton P. [Portland, Oregon]; sudden death of  
Pegram, Reginald B.; made L.A. Deputy Chief Council  
Polk, Martin C. [pioneer engineer]; recalls early road-building days  
    [obit]  
Prentiss, Gen. Louis W.; becomes Executive VP of ARBA  
S.F. Bay Second Crossing Project Consultants  
    Freeman, George L.  
Pirkner, Herbert R.  
Porter, O.J.  
Smillie, Ralph  
Stewart, Bert; made general manager of National Auto Club  
Tallamy, Bertram D.; named Federal Hwy. Administrator  
Teichert, Adolph A., Jr. [well-known contractor]; memory of honored  
Thacher, James F.; appointed to Toll Br. Authority  
Vanderlip, Loran C.; promoted by State Chamber  
Watkins, D.E.; retires from CSAA  
Whitton, Rex M. [Missouri]; becomes president of AASHO  
    appointed FHA

**S.F. Bay Second Crossing Project Consultants**

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- Pirkner, Herbert R.  
- Porter, O.J.  
- Smillie, Ralph  
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