VOLUME I:
INDEX

to
California Highways and Public Works
1937-1967

Compiled by:
Jill Hupp
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.

Dr. Kenneth Owens, head of the Capitol Campus Public History Program, CSU-Sacramento, who suggested one of his graduate students for the job, and served as the project’s research advisor.

Steve Dondero and Sheila Mone, who kept the contractual and financial end of the project running smoothly.

The Caltrans Transportation History Center librarians Laurel Clark and Edith Darknell Many thanks for their helpful comments during the development of the index.

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.

CALIFORNIA HIGHWAYS AND PUBLIC WORKS
INDEX 1937-1967

California Highways and Public Works Journal, 1912-1967:
A Brief History

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.

<table>
<thead>
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| California Highway Bulletin               | Oct. 15, 1912
                                             | May 1, 1913
                                             | July 1, 1914
                                             | Jan. 1, 1915
                                             | July 1, 1916

(Lapse of publication 1916--1923)

<table>
<thead>
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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.4 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.”5 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.6 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.7 Other politicians were accused of using California Highways to further their own careers.8

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
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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
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MOTOR VEHICLES--See also TRAFFIC

Main Subject Headings

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NATURAL DISASTERS--See also FLOODING
ORGANIZATION OF DEPARTMENTS--See DEPARTMENT OF PUBLIC WORKS
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SAFETY--See also ACCIDENTS
SCENIC HIGHWAYS
SIGNALS
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TECHNOLOGY--See also EQUIPMENT; PAVING
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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Orleans bridge (Humboldt Co.) wins national award Jun '41 p2#
San Francisco-Oakland Bay Br.

  wins ASCE “7 Civil Engineering Wonders of the U.S.” award M/A '58 p23#
S. Fork Eel River Br. at Dyerville (Humboldt Co.) wins award for beauty N/D '59 p25#
California Safety Council Awards conference held M/J '53 p51
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  M/J '54 p30#; M/J '55 p32; M/J '56 p49#; J/A '57 p25#; J/A '58 p48; M/J '61 p78
Crum, Roy W. Award won by UC engineer [research] M/A '55 p21
Emmons Award [Association of Asphalt Paving Technologists] M/A '64 p13
Engineer of the Year Award M/A '60 p62#
Golden Beaver Award [engineering] J/F '61 p75
Governor’s Design Award [transportation] J/F '67 p37#
Greeley, Samuel A. Award [American PW Assoc.] S/O '54 p59
Hewes, Dr. L.I. Award J/A '52 p19#; S/O '54 p33; M/A '62 p8#;
Highway Research Board Award J/F '50 p21;
Institute of Traffic Engineers (ITE) awards M/J '49 p33#; J/A '58 p54;
  N/D '58 p52; S/O '60 p63#; J/F '65 p71
Landscaping award for Los Angeles freeways J/F '54 p37#
Lincoln, James F. Award [welding] N '38 p16; Jan '43 p19; N/D '47 p34;
  M/A '62 p78
AWARDS, Continued

Literary prize won by research engineer N/D '59 p55
McDonald, Thomas H. Award [AASHO] J/F '59 p21
Medal of Valor Award for heroism J/F '65 p58
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J/A '53 p3#; J/A '54 p39; M/A '62 p78; J/A '62 p20#; S/O '64 p61#
Norman Metal awarded to Thos. E. Stanton, Jr. [research] J/F '44 p19
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Safety achievement awards won by Dist. 3 M/A '57 p66; J/A '59 p38#; M/A '65 p16
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Traffic Engineer’s award again won by California J/A '55 p22
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BRIDGES

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Aluminum alloys developed M/A ‘60 p64
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approves two new San Francisco Bay crossings N/D ‘47 p1
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Design; bridges
county road bridge designs, quality of increased M/A ‘55 p25
Manual of Bridge Design Practice issued M/J ‘60 p68
design course based on conducted J/F ‘61 p69
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“Strength and Beauty” used in M/A ‘58 p28
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BRIDGES, Continued
History of California bridges Jun ‘41 p6#; S/O ‘50 p114#
Lighting systems for J/F ’65 p34
Maintenance, structural, general M/A ’44 p12#; N/D ’61 p56
  bulkhead and abutment replacement M/A ’46 p20#
  concrete disintegration J/F ’45 p14#
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  floor maintenance J/F ’46 p23#
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  piling maintenance M/A ’45 p5#
  scour and settlement problems J/A ’45 p17#
  steel trusses, repair of M/J ’45 p4#
  timber trusses, maintenance problems on N/D ’45 p12#
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Number, length of bridges in state highway system, statistics N/D ’64 p56
Painting
  annual operations N/D ’61 p57; N/D ’62 p58; N/D ’64 p55
  corrosion resistant paint tested J/F ’62 p26#; M/A ’65 p60#
  green paint used on bridges J/A ’60 p70
  mobile units paint spans state-wide May ’42 p16#
Patrolled by armed guards as wartime security measure Jan ’42 p2
Pedestrian overcrossings—See SAFETY
Poem, “I am a Bridge” by W.A. MacDonald Apr ’41 p24
Postwar Construction Program, bridge reconstruction and J/A ’44 p13#
  Prefabricated steel decking used in bridge project J/A ’50 p26#
  Prestressed highway bridge (first) planned (Fresno Co.) J/A ’52 p40
Prestressed pedestrian bridge, first of type, built (L.A. Co.) J/F ’51 p58; M/A ’51 p1#
  Replacement of bridge by culvert and fill M/A ’47 p24#
Replacement of old bridges urged Mar ’37 p8#; Mar ’38 p4#
Research/special studies dept., annual operations N/D ’62 p58; N/D ’63 p53
Scrap Salvage
  donation of old farm machinery for scrap steel urged J/F ’47 p40
  bridge railing built from salvaged railroad rail J/A ’44 p10#
  railroad span refabricated as highway bridge M/A ’44 p19#
  steel scrap from old structures salvaged for new Jan ’43 p13#
  “Stages of Bridge Production,” illustrated M/A ’49 p38
  war surplus bridges used N/D ’47 p10#
Skidproofing operations J/F ’63 p44#
Steel beams; one of largest all-welded steel beams used M/A ’52 p33#
Steel welds, radiography, ultrasonic waves used in testing of J/F ’67 p11#
Swing bridge (San Leandro Bay Br.), oldest in state to be replaced M/A ’51 p55#
Taiwanese engineer’s view of California bridge building J/F ’54 p51#
Timber bridge survey of U.S. published M/A ’53 p64
Toll bridges, traffic and M/J ’60 p50; N/D ’61 p60
  Traffic on bridges increases statewide J/A ’59 p38
  Truss pre-assembled in shop N/D ’48 p46#
  World’s largest bridges, comparative sizes of J/A ’56 p4
Bridges By County

Alameda Co.

Alameda Creek Br. (I-680; Niles Canyon Rd.) built N '37 p18#

Alameda Creek Br. (I-680; Niles Canyon Rd.) [Rt. 21]
designed, constructed by F.W. Panhorst M/A '48 p10#

Arroyo De La Laguna Br., Sunol N '40 p8#; Jan '42 p10

Arroyo Del Valle Br. (Santa Rita Rd., Pleasanton) built S/O '59 p47#

Cypress St. Viaduct (I-880; Oakland) [Rt. 17]
first of kind in state, under construction J/F '57 p31#
dedicated and opened J/A '57 p43#

Dry Creek Br. (Alvarado-Niles Rd.) built using unusual method M/A '58 p46#

Dumbarton Br.
purchased by state S/O '51 p11
legal/right of way problems and N/D '54 p55
temporary toll plaza constructed J/A '60 p71

El Cerrito Overhead (I-80, Albany), deck of serrated J/F '63 p44#
I-580; Boehmer Hill-Castro Valley unit, bridges planned for J/A '57 p19
Mountain House underpass bridge (I-580) [US 50] planned M/A '53 p26#
Posey (Alameda) Tube Overcrossing built M/A '54 p5#

San Francisco-Oakland Bay Br. --See San Francisco Co.
San Leandro Bay Br. to be replaced; oldest swing span in state M/A '51 p55#
replacement span opened to traffic J/A '53 p46#
San Lorenzo Creek Channel Br. (Hayward) improved J/F '61 p64#
San Mateo-Hayward Br. --See San Mateo Co.

Amador Co.

Cosumnes River Br. (Rt. 49; Plymouth) built J/F '53 p18#

Cosumnes River Br. (Rt. 49; Plymouth) truss replaced M/A '44 p20#

Mokelumne River Br. (Rt. 49; south of Jackson) built J/F '52 p17#

Butte Co.

Bidwell Bar Br. (Rt. 70) [US 40-Alt.] under construction M/A '47 p1#
Butte City Br. across Sacramento River dedicated J/F '49 p46#
West Branch Bridge (Rt. 70, Feather River) planned M/J '57 p27#
completed M/J '62 p2#
opened S/O '62 p57

Calaveras Co.

N. Fork Calaveras River Br. (Rt. 49; San Andreas) built J/F '53 p19#

Contra Costa Co.

Antioch Toll Br.
state negotiates purchase of Jun '40 p1#
purchased by State; ceremony for S '40 p1#
operation of N '40 p25
Martinez-Benicia Ferry, bridge purchase and D '40 p12#; Jan '41 p15
tolls reduced Jan '41 p14; Jun '42 p1#
history of span Jun '42 p15#
becomes toll free J/A '45 p10#
repairs made to M/A '53 p30#

Benicia-Martinez Br. --See Solano Co.

Carquinez Toll Br.
state negotiates purchase of Jun '40 p1#
purchased by state; ceremony for S '40 p1#
operation of N '40 p25
Martinez-Benicia Ferry, bridge purchase and D '40 p12#; Jan '41 p15
tolls reduced Jan '41 p14; Jun '42 p1#

BRIDGES Contra Costa Co., Continued
history of span
becomes toll free

**parallel span proposed**
financing of
plans for
progress on
dedicated and opened
traffic on

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
pamphlet regarding available to motorists
five year anniversary
traffic on
made park of state highway system

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

wins 1962 AISC award
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
Chili Bar Br. (Rt. 193, Placerville-Georgetown) [Rt. 93]
emergency repairs to
Coloma 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
BRIDGES, Continued

Fresno Co.

- Firebaugh; bridges across San Joaquin River planned  M/A '47 p2
- Fresno; Tuolomne St., Stanislaus St. one-way bridges built  S/O '58 p62#
- Hot Springs Canyon Creek Br. (Rt. 198, Warthan Canyon) 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  J/A '52 p40
  bids for opened  N/D '52 p57
- White’s Br. (Kings Slough; Rt. 180) rebuilt  M/A '47 p15#

Glenn Co.

- Butte City; swing span across Sacramento River proposed  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  J/A '65 p27

North Scotia Br. (US 101, Eel River; Scotia-Rio Dell)

under construction  Mar '40 p14
  dedicated  Apr '41 p1#
  partially destroyed in 1964 flood  J/F '65 p6#
  restoration underway  S/O '65 i.cvr.#

Orleans Br. (Rt. 96, Klamath River) wins national award for beauty dedicated  Jun '41 p2#
  destroyed by flood  N '41 p22#
  Robinson Ferry Br. (US 101, Eel Rvr.; Scotia) under construction  J/F '65 p15#
  dedicated  Mar '40 p14
  damaged in 1964 flood  Apr '41 p1#
  South Scotia Br. (US 101, Eel River; Scotia), parallel span planned completed  N/D '59 p34
  M/A '61 p24#
  Sylvandale Br. (US 101, S. Fork Eel River) built  M/A '66 p16#
  Weitchpec Br. (Klamath River) truss assembled in shop  N/D '48 p46#
  completed  M/A '49 p37#

Imperial Co.

- Colorado River Br. (I-8) [US 80] proposed  N/D '54 p49
  nearing completion  M/A '56 p34#
  dedicated and opened  J/A '56 p55#
- New River Br. (Rt. 86; Brawley) [US 99] dedicated  S/O '53 p47#
- Tamarack Creek bridge planned  M/A '47 p4
BRIDGES, Continued

Kern Co.

- Caliente Creek Br. (Rt. 46) [US 466] built \ M/A '61 p35#
- Garces Circle Br. (Rt. 99, Bakersfield) built \ M/A '57 p58#
- Kern Ave. Ped. Overcrossing (Rt. 99, McFarland) wins design award \ N/D '60 p63#
- Kern River bridge near Bakersfield planned \ M/A '47 p4
- Poso Creek bridge railing built from salvaged railroad rail \ J/A '44 p10#
- Red Rock Canyon; bridge across main wash built (Rt. 14) \ M/A '60 p47#
- Rt. 58; Keene-Tehachapi Hwy., bridges built for \ S/O '47 p10#; \ N/D '48 p41#
- Tehachapi Creek Br. (Rt. 46) [US 466] built \ J/F '63 p22#

Kings Co.

- Kings River Br., Hardwick, proposed \ M/A '47 p4
- Kings River twin bridges built (Rt. 198) \ J/A '63 p46#

Lake Co.

- Kelsey Creek Br. (Rt. 175, Kelseyville) [Rt. 29] replaced \ J/F '47 p35#
- Lakeport-Upper Lake relocation compels replacement of bridges \ J/F '47 p21

Los Angeles Co.

- Aliso St. Br. under construction \ F '41 p13#
  in relation to I-10 [Ramona Fwy], I-5 [Santa Ana Fwy.] \ J/A '44 p2
  dedicated \ S/O '44 p18#
- Arroyo Seco Br. dedicated (Pasadena) \ N/D '53 p48#
- Arroyo Seco flood control channel carrying beams win PCI award \ J/A '64 p7#
- Arroyo Seco Pedestrian Br. (Arroyo Seco Park)
  pretressed construction of; first of type in state \ J/F '51 p58; \ M/A '51 p1#
  completed \ S/O '51 p50#
- Arroyo Seco Pkwy., bridges built for \ D '37 p10#; \ Jun '39 p10#; \ N '40 p14#
  Los Angeles River bridge under construction \ N/D '43 p4#
- Big Tujunga Wash Br. \ F '38 p10#
- Bridge Dept. of Los Angeles, general \ J/F '59 p39
- Cerritos Channel vertical bridge to be financed by Navy \ J/A '46 p9

Colorado Fwy. Br. [“Pasadena Pioneers Br.”]

- planned in addition to existing Colorado Blvd. span \ N/D '50 p1
  unusual design problems of \ J/F '51 p22#
  construction begins on \ M/J '51 p5#
  progress on \ M/A '52 p13#; \ M/A '53 P15#
  “sidewalk superintendents” and \ M/J '52 p17#
  arch construction on \ M/J '52 p35#
  westbound lanes opened to traffic \ J/A '54 p18
- Devil’s Gate Dam Br. (Arroyo Seco; I-210, Foothill Fwy.)
  under construction \ J/A '54 p49#
  completed \ M/J '55 p40#
- Elysian Viaduct (I-5, Golden State Fwy.)
  under construction \ J/F '61 p17#
  nears completion \ S/O '61 p11#
  girder design wins AISC award \ M/A '62 p78
- FAS Highway Program, bridges built for \ J/A '52 p1#
- Florence Ave. Br. over Los Angeles River Br. [FAS] planned
  completed \ M/A '47 p4
  M/J '49 p34#
- freeway bridges, general \ M/A '63 p27
- Grand Ave. Br. built over 4th St. open cut \ M/J '56 p18
  footings revised to clear obstruction \ J/A '52 p60
BRIDGES Los Angeles Co., Continued
I-5; Santa Ana Fwy.
Atlantic Blvd. bridge under construction completed bridges planned, built for, general Daniels Railroad Spur Underpass, construction of Los Angeles River Br., widening of Rio Hondo Br. under construction Simons Underpass built, temporary bridge removed

I-10; San Bernardino [Ramona] Fwy.
Almansor Ave. Overhead, Alhambra, built bridges planned, built for, general Evergreen Ave. pedestrian overcrossing built Pomona-Claremont unit, bridges built for

I-110; Harbor Fwy.
Dominguez Channel Br., construction of Figueroa St. bridge at 23rd. St. built 21st St. Pedestrian Overcrossing built Washington Blvd. Undercrossing built

I-710; Long Beach Fwy.
Compton Creek Br. under construction Del Amo Undercrossing under construction Leonis St. Pedestrian Undercrossing planned Los Angeles River bridge at Belhart St. built Triggs St. Undercrossing planned 223rd St.-Atlantic Ave. unit; five bridges planned for Washington Blvd. Undercrossing planned

Los Angeles River-Riverside Dr. bridge (I-5, Golden State Fwy.) Ocean Ave. Br. enlarged to provide yacht harbor Orange Grove Ave. Br. dedicated and opened Malibu Creek Br., widening operations on (US 101) Mulholland Drive Br. (Ventura Fwy., US 101) built

Rt. 10; Santa Monica Fwy.
Los Angeles River Br., ground-breaking held viaduct under construction, cast-in-hole piles used on

Santa Clara River Br. and overhead planned (Palmdale-Los Angeles) completed San Gabriel River Br. (US 101, Long Beach) raised Sunset Blvd. overcrossing (I-405; San Diego Fwy.) [Sepulveda Fwy.] ground-breaking held

Vincent Thomas Br. [San Pedro-Terminal Island Br.] plans for; funding for approved ground-breaking held bids for opened survey controls established bonds sold “San Pedro-Terminal Island Br.” renamed progress on toll schedule adopted cable spinning completed dedication held; not yet opened to traffic wins AISC Award of Merit
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 p6#

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 Jul ‘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 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#
Nepsonset 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 S/O ’59 p34
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) M/A ’63 p52#
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-Thomas 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.) J/A '51 p28
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, Walnut Grove) M/J '65 p22
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
construction 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#
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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.

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test borings started M/J '65 p16
Devil’s Canyon Br. (I-8) [US 80] under construction M/J '63 i.cvr.#
completed J/F '64 p43/
wins AICS award for beauty J/F '65 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.#
Penasquitos Creek Br. (I-15) [US 395] built N/D '50 p18#
parallel span built M/A '65 p64/
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BRIDGES San Diego Co., Continued
San Luis Rey River Br. (I-8) [US 80] to be widened N/D ‘51 p34#
San Mateo Creek Br. (US 101) under construction M/J ‘46 p22#; M/J ‘47 p4#
Sweetwater River Br. (I-5) [US 101] built J/F ‘51 p36#
Sweetwater River Br. (I-8, Descanso Junction) under construction S/O ‘51 p38#

San Francisco Co.
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Waldo Approach to—See ROUTES, Marin Co.
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Presidio Approach to—See ROUTES; TUNNELS, San Francisco Co.
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20th Anniversary of M/J ‘57 p39
San Francisco Bay Crossings, general
additional bridges urgently needed M/A ‘63 p78
Angel Island crossing, S.F.-Marin Co. proposed S/O ‘61 p5

second/parallel Bay bridge proposed
estimated location, cost of J/F ‘47 p1
pertinent facts concerning J/F ‘47 p4
foundation exploration in San Francisco Bay J/F ‘47 p8#
financing S/O ‘47 p1
two new Bay crossings, approval for given N/D ‘47 p1
problems of to be studied M/A ‘48 p35
consultants for project hired M/J ‘48 p18#
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Purcell recommends twin bridges M/A ‘49 p
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San Francisco-Oakland Bay Br.
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Andrew, Charles E. made Bay Bridge Engineer F ‘37 p18
anniversaries N/D ‘44 p26; N/D ‘46 p3#; N/D ‘56 p55#
twenty-fifth N/D ‘61 p61#
construction history F ‘37 p10#; N/D ‘44 p26; N/D ‘46 p3#; S/O ‘50 p82#, p99; N/D ‘56 p55#
description of J/A ‘45 p6
emergency assistance on Mar ‘37 p21; Mar ‘38 p24#
service charge for refueling motorists on span introduced M/A ‘46 p7
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insurance for assured Mar ‘42 p3
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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#
- 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: 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 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

California Aqueduct twin bridges planned (I-5)

Clements; posted bridge replaced (Mokelumne River, Rt. 88)

Delta-Mendota Canal bridges (I-205) [US 50] under construction

Grant Line Canal Br. (Tracy Rd.) replacement planned

double bascule span drawbridge built with FAS funds

wins design award

Jack Tone Rd. overcrossing (Rt. 99; Ripon-Manteca) planned

Mokelumne River Br. (Peltier Rd.) planned

completed

Mokelumne River Br. (Rt. 12, Lodi-Rio Vista) planned

opened

Mormon Slough twin bridges (Rt. 99; Stockton)

Mossdale Br. (San Joaquin River, I-205/Rt. 120) planned

Paradise Cut overflow bridge (Grant Line Rd./I-205) built

Rt. 99; Stockton expressway, highway bridges for

Stanislaus River Br. replaces flood-destroyed span

San Luis Obispo Co.

Arroyo Grande Creek twin bridges built (US 101)

Leffingwell Creek Br., corrosion-resistant paint tested

Salinas River Br., (US 101, Paso Robles) progress on

San Luis Obispo Creek bridge (US 101, Miles)

US 101; San Luis Obispo Bypass, bridges built for

San Mateo Co.

San Francisquito Br. [Alpine Rd. FAS project] built

Dumbarton Br. purchased by state

legal/right of way problems and

traffic on

Pescadero Creek Br. (Rt. 1) built

San Gregorio Br. (Rt. 1) built

San Mateo Creek Br. (I-280, Junipero Serra Fwy.) planned

design of

San Mateo-Hayward Br.

purchased by state

legal/right of way problems and

widenig of; fill work for begins

mole fill construction planned

traffic on

trestle construction planned

double-decked structure to replace lift span

design of approved

construction begins on

contract for substructure work awarded

progress on; plans for

unique lighting planned for

steel welds tested with radiography, ultrasonic waves

old span to be sold, removed

Stanford University linear accelerator bridge planned
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 M/J '59 p17#
  - wins design award N/D '60 p63#
- Robinson Br. (Rt. 246 [Rt. 149], Santa Ynez River) opens Jun '39 p22#
- Rt. 166; Cuyama Rd. welded bridges built S/O '58 p25
- Santa Maria River twin bridges (US 101) built J/F '63 p4#
- Santa Ynez River Br (US 101, Buellton) 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 May '40 p10#
  - 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#
  - 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 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 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]**
- N '39 p16
  - plans for construction of N '39 p4#
  - U.S., Southern Pacific Railroad to share operation of Jul '41 p22
  - construction progress on Mar '41 p14#
  - last span erected O '41 p1#
  - to open soon D '41 p12#
  - opened to traffic F '42 p13
  - described 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-Bassett’s) 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.
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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#
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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
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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
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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  N/D ’48 p18#
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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#
- Red Bluff Bridge (Red Bluff) dedicated S ’38 p10#
- Reeds Creek Br. [FAS] planned west of Red Bluff built N/D ’49 p8#
- Thomas Creek Br. [FAS] (Paskenta) planned built N/D ’49 p8#

Trinity Co.
- Weaver Creek Br. (Rt. 299) replacement under construction N/D ’53 p27#

Tuolumne Co.
- Moccasin Creek Br. (Rt. 49) built J/F ’53 p19
- Stanislaus River Br. (Rt. 49; Melones) planned M/J ’52 p43
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- 5 small bridge projects planned M/A ’47 p8
- Kings River Br. near Kingsburg proposed M/A ’47 p8
- St. Johns River bridges planned M/A ’47 p8
- Tule River bridge near Porterville planned M/A ’47 p8
- White River Br. proposed M/A ’47 p8

Ventura Co.
- Arroyo Calleguas Br. (US 101, Camarillo) built S/O ’53 p22
- Saticoy; prestressed span (Santa Clara River, Rt. 118) built J/A ’57 p26#
- Sespe Creek Br. (Rt. 126) completed; dedication held M/A ’55 p52#
- Willard Br. [FAS] (Santa Clara River, Santa Paula) opened S/O ’53 p43#

Yolo Co.
- Cache Creek Br. (Capay) under construction M/A ’47 p20
- Knights Landing Br., traffic signal used to control one-way traffic J/A ’49 p29
- Monticello Br. (Putah Creek, Monticello) S/O ’50 p122#
- Moody Slough Br. (Winters) under construction M/A ’47 p20
- Putah Creek bridges (I-80, Davis-Dixon) built S ’40 p26; F ’41 p24#
- Rumsey Br. (Cache Creek) opened Mar ’39 p28
- Pioneer Memorial Br. (Sacramento River) [W-X Street Br.]—See Sacramento Co.
  Yolo Causeway, redecking of Jun ’40 p16#
  parallel replacement structures under construction S/O ’61 p7
  progress on M/J ’62 p44#

Yuba Co.
- Best Slough Br. south of Marysville planned M/A ’47 p20
- Dry Creek Br. south of Marysville planned M/A ’47 p20
- Feather River Br., Marysville-Yuba City, progress on S/O ’46 p22#; M/J ’47 p20#
dedicated S/O ’47 p22#
- Yuba River Br. (Rt. 65) [US 99E] under construction J/A ’59 p28#
### BUDGETS & FUNDING

**Arterial Highway Financing Plan**  
S/O ’60 p17;  N/D ’60 p34

**Biennial Budget**

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**Bonds**

**Bay Bridge**

- $71,000,000 worth signed by Frank W. Clark  
  F ’40 p11#  
  to be retired  
  F ’41 p8  
  refinanced by bond sale at lower interest rate  
  M/J ’44 p1#  
  comments on bond sale by financial press  
  M/J ’44 p4  
  new bond issue would allow Bay Br. to finance second span  
  S/O ’47 p1  
  bond sale conducted, bridge refinanced  
  J/A ’52 p35  
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**Benicia-Martinez Br. bond issue**  
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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; S/O '58 p36
history, functions of S/O '50 p162#
wartime restrictions and

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 used on Jun '38 p24#
scraper made from converted grader Jun '38 p24#
screed adjusting device for concrete finishing machines improved 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) M/A '44 p6#;
J/F '60 p47#; M/A '60 p51#
road mixing machine, P&H Soil Stabilizer tested J/F '51 p54#
rock shaker-siever improved O '37 p26#
roller and truck, ca. 1913 J/A '56 p66#
Roughometer (measures roughness of surfaces) S '40 p12#
“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#
stripe marking machines

history of Jun '37 p22#
developments in O '39 p22#
O '37 p10#; M/J '47 p5#; M/A '50 p4#
N/D '55 p49#; J/F '60 p62#; J/A '61 p31#; S/O '62 p47#

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#

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
Gyrosopic 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)
- crib protects highway (Rt. 84, Humboldt Co.) from future erosion
- jetties 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
- 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 energy dissipater tested
- 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

EMBANKMENT 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

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EROSION CONTROL, Continued

Jetties/Levees

Humboldt Co.; Eel River jetties combat floods, erosion
Sandy Prairie Levee built
Los Angeles Co.; Alamitos Bay jetty built
Sonoma Co., Jenner; Russian River jetty project underway
completed

Methods of erosion control, general

Monterey Co., US 101; Bradley-King City unit
San Bernardino Co.; City Creek Rd.
Santa Barbara Co.; US 101, Arroyo Quemado-Arroyo Hondo unit

Sandy Prairie Levee built
Los Angeles Co.; Alamitos Bay jetty built
Sonoma Co., Jenner; Russian River jetty project underway
completed

Methods of erosion control, general

Monterey Co., US 101; Bradley-King City unit
San Bernardino Co.; City Creek Rd.
Santa Barbara Co.; US 101, Arroyo Quemado-Arroyo Hondo unit

Slides/Slipouts

buttress fill, drains stabilize slide in Grapevine Canyon. (I-5)
horizontal drains, drilling of with hydrauger method
horizontal drill, use of in “slump” landslide control
Humboldt Co.; slipouts a problem on US 101 job
Mendocino Co.; slide causes flooding on US 101
Monterey Co.; Rt. 1, huge slide south of Lucia
Orinda Slide (Rt. 24, Contra Costa Co.), repair work on
Pacific Palisades, Santa Monica-- (Rt. 1) [US 101-Alt]
prevention of slides as safety factor
slide occurs, maintenance superintendent killed
report made on possible solution to slides
rock slide hazard on US 50 at Echo Summit removed
Santa Clara Co.; slipout problem on Rt. 17
Siskiyou Co., Dunsmuir; slides pose problem on I-5 [US 99] job
Slipouts, causes, prevention methods studied
types, causes, and repair of
Sonoma Co.; Jenner-Fort Ross slide closes road
Soil compaction control test using nuclear gages
Soil subsidence, problems of (I-5, San Joaquin Valley)
Soil surveys and foundation explorations, borings for

EVENTS

American Assoc. of State Highway Officials (AASHO)
an annual meeting of
American Society of Civil Engineers (ASCE) national convention
Bonneroo Stag [best contracts]

33rd. annual meeting [Special AASHO edition issued]
topics discussed at
AASHO Award of Merit presented
highway improvement and PW concept
Puerto Rican, Hawaiian delegates attend
wives entertained at
problems, hopes of highway builders in review
radio communication demonstration given
AASHO-AMA Urban Planning seminar
American Society of Civil Engineers (ASCE) national convention
American Water Works Association to meet in S.F.
Bonneroo Stag [best contracts]
**EVENTS, Continued**

**California State Fair**
- Division of Highways exhibits at California State Fair: Aug '40 p24; Aug '41 p20; S/O '47 p26#; N/D '59 p46#; S/O '61 p72#; N/D '63 p61#
- Features of new routes to: J/A '47 p16#; J/A '49 p34#; J/A '50 p24#; J/A '51 p28#; J/A '52 p52#; J/A '53 p24#; J/A '55 p42#; J/A '56 p68#; J/A '57 p38#; J/A '58 p45#; J/A '60 p42; J/A '61 p57
- 100th Anniversary of J/A '54 p34#
- 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 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#
- 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#
- National Boy Scout Jamboree held in California S/O ’53 p38#
- National Highway Week observed M/J ’61 i.cvr.; M/A ’62 p68; M/J ’62 i.cvr.; M/A ’63 i.cvr.; J/A ’63 p42#; J/A ‘64 p54; S/O ’64 i.cvr.; M/J ’65 p23; J/A ’65 p31; S/O ’65 i.cvr.##; J/A ’66 p16#
- National Orange Show, San Bernardino M/A ’47 p16#
- National Shade Tree Conference held J/A ’46 p30#; M/A ’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#
- Safety Engineers Conference held S/O ’65 p54#

**Visits to State**
- Australia; highway official Dr. L.F. Loder M/A ’54 p39#
- Brazil J/A ’56 p65#; J/F ’65 p62#
- Canada M/J ’56 p72; M/J ’61 p22#
- Central America N ’40 p11#
- engineers; foreign, out-of-state S/O ’55 p51; J/F ’60 p57#
- foreign bitumen experts to study California roads S/O ’46 p32
- France J/F ’65 p62#
- Germany M/A ’57 p49#
- Great Britain M/A ’60 p65#; J/A ’60 p68#; S/O ’61 p69#; M/J ’64 p64#
EVENTS, Continued

Japan  S/O ’58 p34#; S/O ’59 p50#;  M/J ’65 p63#  
Philippines  J/F ’57 p36;  J/A ’60 p68#  
Rhodesia  S/O ’56 p50#  
Turkey  J/A ’49 p60#;  S/O ’51 p63#  
U.S. Congressmen  J/F ’61 p10#  
U.S. House Public Works Committee  N/D ’57 p3#;  J/F ’62 p2#  
Western Association of State Highway Officials (WASHO)  
annual meeting  Jun ’40 p28; M/J ’43 p18; M/A ’52 p20;  M/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  
resolutions adopted by  Mar ’39 p15#  
30th annual meeting held  J/A ’51 p31#  
convention management praised  J/A ’51 p42#  
Gov. Warren’s address a plea for safety  J/A ’51 p36#  
wives of delegates entertained  J/A ’51 p52  
meets with Assoc. General Contractors of America  J/A ’49 p12  
World Traffic Engineering Conference  M/J ’61 p51  
World’s Fair 1939-40—See Golden Gate International Exposition

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)  S/O ’45 p25#  
Division of Highways puts new ferry in service  J/F ’64 i.cvr.#  
“Real McCoy” ferry becomes free-running  M/A ’63 p74;  F ’39 p13#  
Carquinez Strait ferries, history of  J/A ’51 p42#  
Ferries remaining in highway system, status of  M/J ’52 p12#  
Ferry operations, annual  N/D ’61 p23;  N/D ’62 p23  
Gualala cable ferry (Mendocino Co.)  M/A ’59 p18#  
Martinez-Benicia Ferry  
cities take control of  D ’40 p12#;  Jan ’41 p15  
Benicia-Martinez Br. and  M/J ’60 i.cvr.#  
service ends after opening of toll bridge  S/O ’62 p5#  
Richmond-San Rafael Ferry service to be discontinued  N/D ’53 p4  
ferry goes out of service  S/O ’56 p14#  
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#  
levees saved  Mar ’38 p2#  
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#
FLOODING Damage Caused By, Continued

1941
storm damage will cost $600,000 in maintenance funds  Mar ‘41 p1#
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
$1,000,000 winter highway damage  M/J ‘43 p12#
Five-day storm sweeps California  F ‘43 p14#
1945
flooding in Imperial Valley closes highways  S/O ‘45 p22#
record storm hits Mojave-Lone Pine area  N/D ‘45 p24#
1950; storm, worst since 1937-38, causes $3,400,000 damages  J/F ‘51 p28#
1953; storm damage to highways in northern counties is $1.5 million  M/A ‘53 p34#
1955
storm damage sets new record  J/F ‘56 p1#
floods do property damage estimated at 200 million  J/F ‘56 p20#
damage to bridges  J/F ‘56 p34#;
official records salvaged from flood-swept maintenance shop  S/O ‘56 p27#
road restoration jobs in Dist. 1 flood areas  M/A ‘56 p39#
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
rains in Sierra Co. cause damage to bridges and roads  J/F ‘63 p32
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#
flood damage elsewhere in state  J/F ‘65 p10#;  M/A ‘65 p2#
highway workers praised  M/A ‘65 p26#
northwest roads, repair work nearly completed  M/J ‘65 p46#
employees donate funds to fellow employee flood victims  M/J ‘65 p49#
temporary gas tax to reconstruct roads ends  S/O ‘65 p48
1965; Southern California storm damage  J/F ‘66 p31#
1966; storm havoc in Dist. 6  J/F ‘67 p14#

Flood Control—See also EROSION CONTROL
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#
Napa Co. Cooperative Drainage Project  M/A ‘61 p56#
Sacramento Co.; 16th St. Subway gets new flood gate  O ‘37 p27#
Sacramento River Flood Control Projects, new survey of urged  Apr ‘40 p2#
Santa Clara Co.; Guadalupe River channel improved  M/J ‘61 p74#
Shasta reservoir operated for flood control  J/F ‘46 p6#
Sonoma Co.; Healdsburg Cooperative Drainage Project  M/A ‘61 p56
FLOODING, Continued

Flood Damage Repair
- county bridges, flood damage to repaired S/O '59 p27#
- Emergency Flood Relief Law and N/D '60 p35
- highway crews win praise for storm work Apr '41 p24
- levee breaks on Sacramento River, emergency repairs to Jun '40 p12#
- Mariposa Co.; Rt. 140 (Yosemite All-Year Hwy.) storm damage repaired Mar '39 p6#
- Riverside Co.; Temescal Canyon highway rebuilt on new alignment O '41 p12#
- State speeds program to restore levees damaged in storm Apr '40 p1#

FREEWAYS—See also ROUTES

AASHO committee makes freeway study J/F '60 p66#
- Airspace over and under freeways, use of S/O '65 p2#; S/O '66 p43#
- Beneficial aspects of freeways M/J '44 p5#; M/A '50 p55;
  J/A '55 p6#; S/O '55 p57; N/D '58 p17; N/D '59 p30;
  J/F '60 p60#; N/D '60 p5; N/D '61 p7; N/D '63 p7; N/D '64 p7
- California Freeway Law summarized N/D '49 p58
- Collier-Burns Hwy. Act of 1947, freeways and N/D '47 p14
- Coordinate methods, application of to freeway construction N/D '46 p12
- Costs of freeway construction M/J '50 p7; J/F '57 p30
- “Designing Better Freeways” report made S/O '60 p12
- Freeway agreements, history of J/F '66 p2#

Freeway-Expressway System for California
- development of J/F '46 p31#; S/O '50 p106#; S/O '64 p57
- legislation for adopted S/O '59 p1
- Long-range plan for established J/F '60 p31; N/D '60 p5
- progress on, annual N/D '63 p5
- Freeway Law of 1939 J/F '47 p28; J/F '48 p22#; J/A '50 p1; S/O '64 p51#
- “Freeway, “limited access freeway” defined N/D '47 p12
- Freeway policy explained, defended J/F '49 p47
- Freeway ramp construction S/O '55 p14
- Freeway plan report SCR 26 S/O '58 p1; J/F '59 p46
- Legislative report regarding available M/J '59 p26
- “Freeways Delicately Attuned,” editorial S/O '55 p29
- Future plans for freeways Jan '41 p9
- Guard rails, freeways and M/A '63 p58#
- Interchange structures—See GRADE SEPARATIONS
- Praise of freeways from veteran motorist M/J '60 p15
- Progress on freeway system statewide N/D '49 p6; M/J '50 p7

Public relations and—See INFORMATIONAL SERVICES
- Route adoptions, general J/A '61 p62; J/F '62 p66; M/A '62 p71;
  M/J '62 p32; J/A '62 p33; S/O '62 p49; J/F '63 p54; M/A '63 p71;
  M/J '63 p63; J/A '63 p64; J/F '64 p37; M/A '64 p66; M/J '64 p55;
  J/A '64 p57; S/O '64 p68; J/F '65 p60; M/A '65 p78; M/J '65 p59;
  J/A '65 p19; S/O '65 p51; J/F '66 p45
- Routes, adoption of—See RIGHT OF WAY
  “Talking freeways;” radio messages may supplement signs J/A '65 p20#
- Traffic flow on freeways, suggestions for controlling J/A '56 p5; J/A '61 p44
GASOLINE TAXES
Advertising campaign regarding
Appointments to cities
Benefits of gas tax expenditures within cities enumerated.
Collier-Burns Hwy. Act, gas tax and
Collier-Unruh Local Transportation Development Act and
Constitutional Amendment 28 approved; gas tax safeguarded.
Federal, increased by .5 cent for national defense
Gasoline, tire rationing causes reduction of gas tax revenues
How money for highways is collected and spent, illustrated
Increased 1-cent per-gallon by 1963 State Legislature
Laws and rulings regarding
Los Angeles gas tax projects, 1942
Petroleum industry, relation of to gas tax programs
Policies, practices governing distribution of gas tax
Protection of gas tax urged by H. R. Judah
Revenues show sharp downward trend
Temporary increase to reconstruct flood-damaged roads ends

GRADE CROSSINGS, SEPARATIONS & INTERCHANGES
Financing of, history
Grade crossing program, costs, safety problems of evaluated
Grade crossings closed, remaining on state highways, 1955-56
Grade separation projects, annual
Grade separation projects 1935-1939
Interchange structures
design of
models of, technique for building improved
WPA grade separation projects

By County
Alameda Co.
Davis St. 4-quadrant cloverleaf structure (I-880, San Lorenzo)
East Bay Distribution Structure reconstruction
Fifth Ave. Overhead started (I-880, Oakland)
First Ave. interchange (I-880, San Lorenzo)
Greenville overhead built (I-580, Altamont Pass)
I-880 (Nimitz Fwy.) [US 40, Eastshore Fwy.]
I-880/Rt. 238 [Rt. 228] junction separation structure
Moraga Ave. Interchange built (Rt. 13, Warren Blvd Fwy.)
Niles, Rt. 21; six grade separation projects completed
Powell St. separation structures under construction [I-80, Oakland]
Redmond overhead built (I-580, Altamont Pass)
Sunol underpass (Niles Canyon Rd., Rt. 84) [Rt. 107], progress on
University Ave. grade separation (Berkeley) planned

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GRADE CROSSINGS, Continued

Contra Costa Co.
- El Cerrito Overhead completed (I-80) [US 40] J/A ‘60 p57#
- Pinole grade crossing project under construction (I-80) [US 40] F ‘39 p20
- completed S ‘39 p22#
- Rt. 4 (Industrial Hwy.)
  - Willow Pass-Franklin Canyon unit, grade separation built O ‘39 p28#
  - Wilbur Ave. (Antioch) overcrossing built [FAS] J/A ‘59 p44#

El Dorado Co.
- US 50, Placerville; separation structures, planned J/F ’52 p32

Fresno Co.
- California Ave. overcrossing (Rt. 99; Fresno) M/A ‘49 p27#
- Monterey St. Overpass (Rt. 99; Fresno)
  - clearing site for J/F ’47 p24#; J/F ’47 p 29# built M/A ‘49 p27#

Kern Co.
- Minkler Spur underpass built (Bakersfield) J/F ‘49 p18#
- Oak St./Rt. 204 [Rt. 141] overpass completed (Bakersfield) N ’39 p20#
- Rt. 58 [Rt. 178]; Keene, Tehachapi overhead structures built N/D ‘48 p47#
- Rt. 99, Famosa; grade separation underpass completed Mar ’37 p21#
- overhead construction, improvement project underway J/A ‘57 p8#
- Rt. 99/Rt. 46 [US 466] separation under construction J/A ‘57 p8#

Los Angeles Co.
- Aliso St. grade separation project—See BRIDGES
- Colorado Ave. grade separation (Santa Monica, Rt. 187/Rt. 1 junct.) Aug ’39 p6
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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 '59 p12#
completed M/J '60 p27#
Caldecott Tunnel-Orinda unit, widening operations on M/J '64 p32#
completed M/J '65 p31
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#
  modernization of, overview S/O '64 p14#
US 199
  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
J/A '63 p15#
US 50 [Placerville-Lake Tahoe Hwy.; Lake Tahoe Wagon Rd.]
  Camino Bypass completed N/D '57 p13#
  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 D '37 p18#
  opened Jul '38 p10#
  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

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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 progress on J/F '54 p35;
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 M/J '46 p4#;
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.]
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 Coalinga; highway realigned Aug '42 p2#
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.**
Architect; US 101-Rt. 299 intersection improved
county roads, problems of
highway projects, general
Rt. 299
Arcata-Willow Creek route improved
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
Freshwater Lagoon Sandspit improvement to begin progress on
Fortuna-Fernbridge unit improved
Fortuna freeway completed
Little River-Trinidad unit, relocation underway
Loleta Bypass; Fernbridge-Beatrice unit, construction underway completed
McKinleyville bypass freeway completed
Michael J. Burns Memorial Fwy.

Redwood Parks Fwy.—See also BRIDGES, Eagle Point Viaduct
plans for
Dyerville-Englewood [first] unit, construction underway construction progress marks several firsts progress on completed
Myers Flat-Dyerville [second] unit, construction underway completed
Sylvandale-Maple Hills [third] unit planned
Dean Creek-Miranda [final] unit completed Scotia Bypass completed
Trinidad-McNeill’s Ranch link under construction

**Imperial Co.**
Dogwood Rd.; Heber-Brawley unit improved
highway projects, general
I-8 [US 80]
Mountain Springs Grade relocation, ground breaking ceremonies for problems regarding construction
Sand Hills desert highway (Yuma-El Centro) improvements made to history of route reconstruction to freeway standards underway
FAS highways improvement of projects budgeted, annual
Rt. 86 [US 99], improvement projects underway

**Inyo Co.**
Glacier Lodge Rd. [FAS Rt. 1069] improved
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#

ROUTE 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 S/O ‘47 p10#
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 N/D ‘62 p19#
completed S/O ‘63 p7#
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.
highway projects, general J/A ‘58 p35; N/D ‘59 p31
Rt. 20 [Leg. Rt. 15, “Blue Lakes Hwy.”]
Laurel Dell Lake-Blue Lake route reconstructed Aug ‘39 p8#
Laurel Dell-Tule Lake route; relocation underway J/A ‘55 p16#
Tule Lake fill; constructed to raise elevation, stabilize highway S/O ‘51 p46#
raising of necessitated by subsidence of foundation J/A ‘55 p16#
Rt. 29; Lakeport area realignment planned S/O ‘63 p49
Rt. 53; improvements underway, general J/A ‘58 p44#; N/D ‘59 p38
Cache Creek-Rt. 20 unit relocated N/D ‘59 p38#
Lassen Co.
highway projects, general J/F ‘57 p61; M/A ‘58 p6#; N/D ‘59 p12
Rt. 36; Susanville-US 395 junction unit relocated S/O ‘64 p44#
Rt. 44 [Leg. Rt. 20, Feather Lake Hwy.]
becomes part of state highway system S/O ‘61 p71
improvement completed; dedication held J/F ‘62 p33#
ROUTES Lassen Co., Continued
Rt. 147 [Leg. Rt. 183, Lake Almanor E. Side Rd.; Clear Creek Rd.]
becomes part of state highway system S/O ‘61 p71
Susanville-Adin Hwy. [FAS Rt. 988] improved S/O ‘56 p24#
US 395 [Leg. Rt. 73; Susanville-Reno Hwy.]
Doyle-Bird Flat unit built N/D ‘46 p10#
Ravendale-Madeline unit improved N/D ‘59 p17
Rt. 36 junction-Johnsonville unit relocated  S/O '64 p44#
Secret Valley unit, improvement completed  N/D '53 p40#
Viewland-Secret Valley unit resurfaced  S/O '46 p13#

Los Angeles Co.
access roads built for war effort  J/F '45 p2#
Arroyo Seco Parkway—See Rt. 110
Bishops Rd. disposal area; acquisition, advantages of  S/O '52 p17#
Colorado Blvd./Fwy.—See Rt. 134
FAS projects 1945-1952  J/A '52 p1#
Figueroa St. [Rt. 165] to be superseded by Harbor Fwy.  M/A '52 p10
Foothill Blvd.—See also I-210, Foothill Fwy.
Sunland link realigned  F '38 p10#
Claremont-San Bernardino, final link dedicated  Jul '38 p16#
Fourth St. open cut project completed and dedicated  M/J '56 p14#

Freeway System, Los Angeles Metropolitan Area
general  M/A '52 p11; M/J '52 p31; M/A '53 p11; J/F '54 p11;  J/F '55 p14#; J/F '56 p54#; J/F '57 p11; J/F '58 p11;  J/F '59 p23#; S/O '59 p11; J/F '60 p3#; M/A '61 p3; N/D '61 p13;  N/D '62 p14; M/A '63 p20; N/D '63 p14; M/A '64 p16;  N/D '64 p15; M/A '65 p30; N/D '65 p11; J/F '67 p8#;  M/A '62 p42#;
beneficial aspects of  J/A '55 p6#
call boxes installed on  M/A '63 p41#
development (business-residential and  S/O '61 p29#;  M/A '65 p32
embankment material stockpiled for  M/J '60 p22#
maintenance operations and  J/F '59 p41;
paintings of done by local artist  J/A '66 p17#

Garvey Ave. [Rt. 26; Los Angeles-Pomona Lateral]—See also I-10, San Bernardino Fwy.
“superhighway” built; origin of route  Apr '37 p4#
traffic congestion and  S/O '64 p51#

I-5 [US 99, Golden State Hwy.]
projects underway, general  N/D '48 p34
Burbank Blvd. truck route dedicated  J/F '50 p14#

Golden State Fwy.
Weldon Canyon unit, progress on  J/F '54 p38#
progress on, general  J/F '54 p11#; J/F '55 p22; J/F '56 p64#;
  S/O '57 p20#; J/F '58 p10#; J/F '59 p29;
  J/F '60 p9; M/A '61 p9#;  M/A '62 p47
extension of to metropolitan Los Angeles planned  S/O '56 p3
Glendale Blvd. (L.A.)-Ash St. (Burbank) unit, progress on  J/F '57 p9#
completed  S/O '57 p20#
Los Angeles Freeway Loop section, construction on; plans for  S/O '59 p11#
progress on  J/F '61 p13#
dedicated  M/A '62 p42#
traffic on  S/O '62 p16#
Lankershim Blvd.-Osborne St. extension underway  M/A '62 p47
completed  M/A '63 p32

ROUTES Los Angeles Co., Continued
Burbank-Western Channel and—See FLOODING, Flood Control
Mission Rd.-Pasadena Ave. unit completed  S/O '60 p36#
landscaping on  J/F '63 p21

Ridge Route-Grapevine Canyon section
Piru Gorge; Castaic-Frenchmans Flat unit under construction  M/A '48 p11#
progress on  J/A '49 p18#
blasting required  N/D '50 p30#
completed; history of project  J/F '52 p27#
progress on, general                                           J/A ‘49 p18#;  J/F ‘50 p29#
Pico Canyon Rd.-Saugus Rd. unit completed                        J/A ‘49 p22#
Gorman-Tejon Summit-Lebec unit completed                        J/F ‘52 p29#
Tunnel Station-Pico Canyon Rd. unit, progress on               J/F ‘52 p46#
L.A. area freeway system and                                    M/A ‘52 p13
last unit of completed                                         J/A ‘53 p4#
eight-lane widening project planned                           J/A ‘58 p10#
progress on                                                   S/O ‘59 p7#
completed                                                     S/O ‘60 p5#
Castaic-Ridge Rt. Maint. Station unit, relocation planned      M/J ‘62 p33
eight-lane freeway conversion planned                          M/A ‘64 p29
progress on                                                   M/A ‘65 p42#
construction history                                           S/O ‘65 p20#
realignment proposed; construction underway                    S/O ‘65 p20#
Gorman unit to be widened                                      J/F ‘67 p9

Santa Ana Fwy. [I-105; US 101]
proposed                                                       J/A ‘44 p2
construction underway                                          M/A ‘46 p25#
Aliso Street Br.-Soto St. unit completed                        J/A ‘48 p1#
Soto St.-Eastman Ave. unit under construction                 S/O ‘48 p41#
progress on                                                    N/D ‘48 p38
opens without fanfare                                          M/J ‘49 p44#
Atlantic Blvd.-Anaheim-Telegraph Rd. unit, progress on         M/J ‘49 p48#
La Verne Ave.-Eastland Ave. unit opened                       M/J ‘50 p32#
Norwalk-Miraflres unit, progress on                           N/D ‘50 p20#
Santa Ana; Broadway-First St. unit under construction          J/F ‘52 p61#
Norwalk Diagonal under construction                           N/D ‘52 p16#
progress on, general                                          J/F ‘52 p20#; M/A ‘52 p10; N/D ‘52 p16#;
                                                          M/A ‘53 p14#; J/F ‘54 p7#; J/F ‘55 p19#; S/O ‘55 p5#;
                                                          J/F ‘57 p7#
Camulos St.-Olympic Blvd. unit widened                        M/J ‘56 p58#
westbound lane added to L.A. River-Spring St. unit             S/O ‘59 p21#
widening operations, progress on                               J/F ‘60 p18;
                                                          M/A ‘61 p20#; M/A ‘62 p50; M/A ‘63 p38; M/A ‘64 p28;  M/J ‘65 p49
Disneyland; Santa Ana Fwy. development and
                                                          J/A ‘63 p21#

I-10. San Bernardino Fwy. [US 60-70-99, Rt. 26; Ramona Fwy.]—See also BRIDGES
proposed                                                       J/A ‘44 p2
rapid development for assured                                  S/O ‘49 p58
City Terrace area extension under construction                 M/J ‘50 p30#
pile-driving project underway                                  J/A ‘52 p57#
Pomona-Claremont unit under construction                       M/A ‘53 p18#
completed                                                     N/D ‘54 p7#
scenic aspects of                                             M/A ‘55 p24#
Fremont Ave.-Atlantic Blvd. (L.A.) unit dedicated              J/A ‘53 p15#

ROUTES Los Angeles Co., Continued
San Gabriel Ave.-Rosemead Blvd. unit dedicated                 M/A ‘54 p47#
progress on                                                   S/O ‘51 p12#; J/F ‘52 p17#; M/A ‘52 p10;
                                                          M/A ‘53 p14#; J/F ‘54 p9#; J/F ‘56 p60#;
                                                          J/A ‘56 p37#
Rosemead Blvd-San Gabriel River unit, ground-breaking for     S/O ‘54 p20#
renamed “San Bernardino Freeway”                               J/F ‘55 p20#
Kellogg Hills section, pipe jacking operations                S/O ‘55 p34#;
                                                          J/A ‘56 p46
El Monte unit dedicated                                       J/A ‘56 p52#
W. Covina-Ganesha Blvd. (Pomona) [final] unit                 J/F ‘57 p7
completed                                                     M/J ‘57 p24#
widening operations, progress on                               J/F ‘59 p34; J/F ‘60 p16;
M/A '61 p16#; M/A '62 p50; M/A '63 p37; M/J '65 p48

I-105; Century Fwy., plans for

M/A '61 p6

I-110; Harbor Fwy. [Rt. 11; US 6]
under construction

N/D '47 p17

all-over perspective study of

N/D '49 p52#

Temple St.-Third St. unit, ground-breaking held

J/A '51 p15#

dedicated and opened

S/O '52 p23

Figueroa St. to superseded by

M/A '52 p10#

helicopters land on

J/A '52 p58#

progress on

M/A '51 p11#; J/F '52 p16; M/A '52 p9; M/A '53 p7; J/F '54 p10#;

M/J '54 p1#; J/A '54 p46#; J/F '55 p21; J/F '56 p58#;

S/O '56 p19; J/F '57 p7#;

M/A '61 p10

Wilmington (Rt. 1)-San Pedro (Battery St.) unit

ground-breaking ceremony held for

S/O '54 p29#

progress on

J/A '55 p57#

dedicated and opened

J/A '56 p53#

23rd. St.-Santa Barbara Ave. unit dedicated

S/O '56 p19#

Santa Barbara Ave.-88th Pl. unit dedicated

M/J '57 p41#

88th Pl.-124th St. unit, progress on

M/J '57 p42; J/F '58 p9#

slip ramp built at Fifth St. south of the “Four-Level”

S/O '59 p21#

190th St.-124th St. unit nearing completion

J/F '60 p3

unit wins best contract of year award

M/J '61 p78

208th St.-Rt. 1 [final] unit under construction

M/A '61 p10

completed

M/A '63 p32

widening operations, progress on

M/A '63 p32; M/A '64 p32

extension to Rt. 7 (Long Beach Fwy.) junction planned

M/A '65 p43

I-210; Foothill Fwy.

Hampton Rd. (La Canada)-Montana St. (Pasadena) unit

under construction; plans for

J/A '54 p49#

progress on

J/F '55 p25; J/F '55 p25

completed

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[*In 1964 US 101-By became US 101 (Bayshore Fwy.); US 101 became Rt. 82]*

**Santa Barbara Co.**

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Rt. 1  
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**US 101 [Coast Hwy.]**  
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  construction history  
  Los Gatos Bypass planned  
  progress on  
  completed  
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  San Jose-Los Gatos widening completed  
  improvements made to  
  freeway connections to, plans for

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Bay Shore Hwy.; San Jose-Agnew Underpass [final] unit dedicated  
Coyote-Morgan Hill-Llagas Creek unit widened  
Gilroy divided highway improvements  
Gilroy-San Jose freeway route adopted  
Gilroy-Sargent unit widening completed  
Pajaro River-Sargent realignment completed  
history of new location  
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**Rt. 85; Stevens Creek Fwy.**

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progress on  
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San Luis Reservoir relocation, progress on

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**San Jose**

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**US 101; Bayshore Fwy. [US 101-By.*]**

plans for shown  
E. Santa Clara St.-US 101 link dedicated  
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efforts to remedy congestion, accident situation made  
Moffett Field section under construction  
San Jose; Sterlin Rd.-Morse Ave. unit underway  
San Jose; Morse Ave.-Brokaw Rd unit underway  
completed  
San Francisco-San Jose section completed; history of project  
landscaping, improvement projects planned  
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[*In 1964 US 101-By became US 101 (Bayshore Fwy.); US 101 became Rt. 82]*
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**Santa Cruz Co.**

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- M/J '61 p3; M/J '63 p45; M/J '64 p45;
- M/J '65 p41;
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Projects planned for 1950-51

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  - Davenport-Waddell Creek unit under construction
  - opened, dedication ceremonies for
  - Mt. Hermon Rd. improved [FAS project] N/D ’54 p31#
  - projects planned for 1950-51

Watsonville-Rob Roy Junction Hwy.
  - construction underway
  - nearing completion
  - opened
  - construction on as part of access road project
  - conversion of to freeway status planned

Rob Roy Junction-Santa Cruz Fwy.
  - under construction
  - nearing completion
  - dedicated
  - converted to freeway standards
  - Laguna Creek improvement project underway
  - Santa Cruz Bypass planned
  - completed
  - San Francisco-Santa Cruz unit, improvement plan adopted
  - Watsonville Bypass planned
  - progress on
  - Aptos Creek-Soquel Wharf Rd. unit; widening completed
  - Pajaro River-Roache Rd. unit improvement planned

Watsonville-Rob Roy Junction Hwy.
  - construction underway
  - opened
  - conversion of to freeway status planned

Rt. 17; Los Gatos-Santa Cruz Hwy.
  - construction of—See Santa Clara Co.
  - landscaping, improvement projects, progress on

Santa Cruz roads, early history of

**Shasta Co.**

Dersch Rd. [FAS Rt. 1350] improved

Forest Rt. 77 [Mt. Shasta-Mt. Lassen Nat. Forest Hwy.]
  - Sierra Way; Lake Britton-Burney Falls link completed
  - highway projects, general
  - Redding; one-way street program underway throughout city
  - Rt. 44 [Leg. Rt. 20; Feather Lake Hwy.]
  - becomes part of state highway system
  - reconstruction completed; dedication held
  - expressway completed on new alignment

I-5 [US 99; Rt. 3]
  - Castella-Dunsmuir freeway proposed
  - Cottonwood freeway unit completed
  - Cottonwood-Redding limited access freeway

Cottonwood-Redding limited access freeway
  - Cottonwood-Anderson unit
  - reconstruction underway
  - completed
  - Anderson-Redding unit completed
  - dedicated

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