

**INDEX**  
AND  
**LIST OF ILLUSTRATIONS**

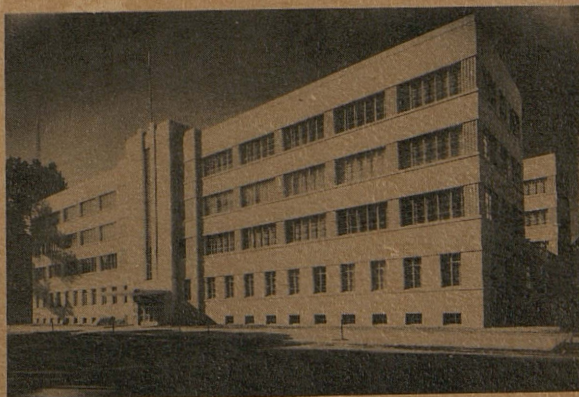
FOR

**California Highways and Public Works**

**EARL LEE KELLY**  
Director of Public Works

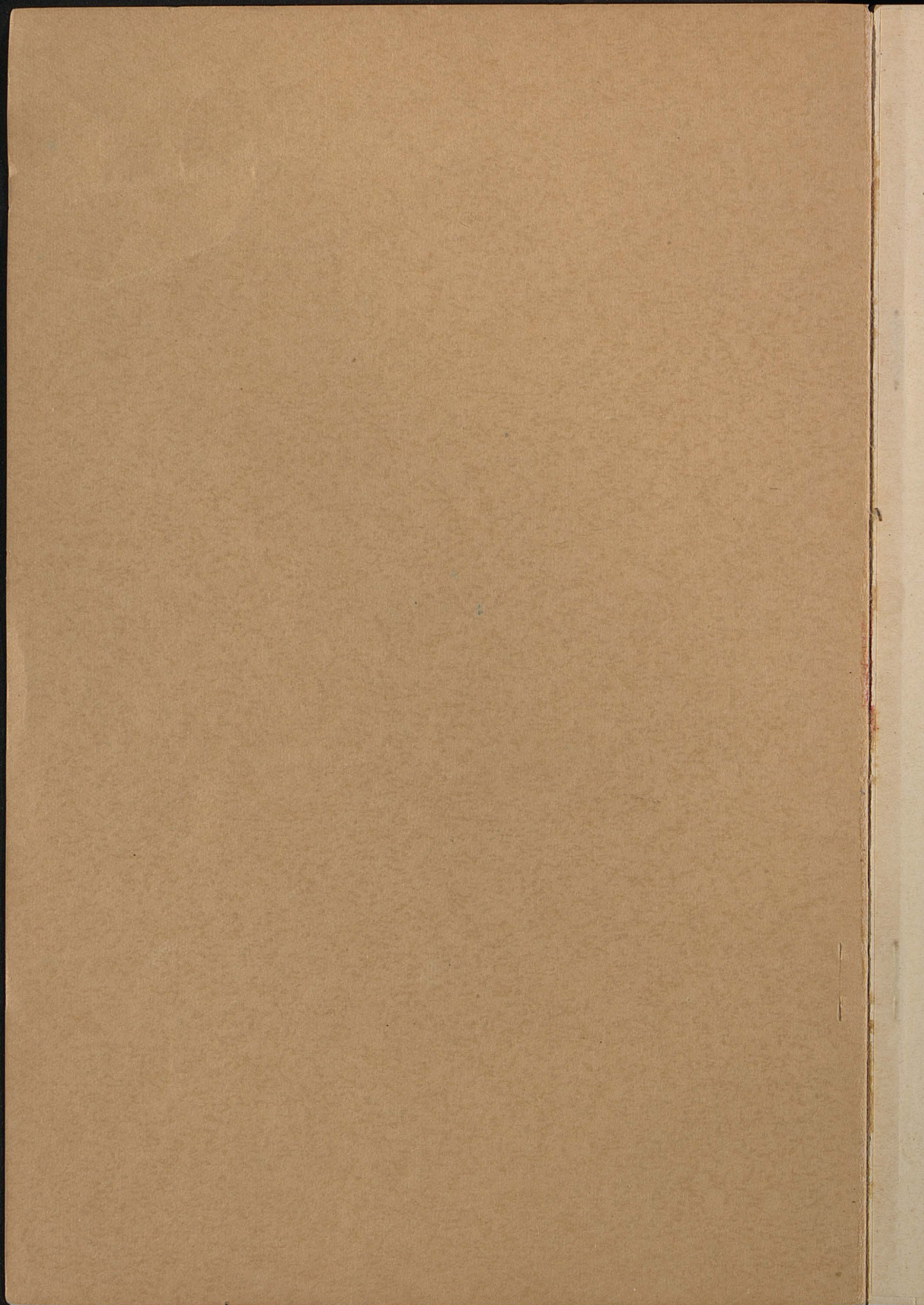
**JOHN W. HOWE**  
Editor

OCTOBER, 1912, to DECEMBER, 1936



Public Works Building, Sacramento, California

CALIFORNIA STATE PRINTING OFFICE  
GEORGE H. MOORE, STATE PRINTER  
SACRAMENTO, 1937



## FOREWORD

Because of many requests which reach this office for information concerning the date when certain articles were published in CALIFORNIA HIGHWAYS AND PUBLIC WORKS, the official monthly publication of the Department of Public Works, it has been found advisable to have compiled an index of the contents of the various bulletins published by the State Highway Commission and later the Department of Public Works dating back to 1912.

Originally the publication was known as THE CALIFORNIA HIGHWAY BULLETIN, published by the California Highway Commission, then as CALIFORNIA HIGHWAYS, issued by the California Highway Commission, and, since November, 1927, it has been CALIFORNIA HIGHWAYS AND PUBLIC WORKS, published by this Department.

It is hoped that this index will prove of value to public libraries and schools, engineers, contractors and others who regularly receive it.

EARL LEE KELLY, Director,  
State Department of Public Works.



## TABLE OF CONTENTS

---

	Page
I. Contents, October, 1912, to December, 1935-----	5
II. Cuts and Illustrations, October, 1912, to December, 1935-----	137
III. Contents, 1936-----	201
IV. Cuts and Illustrations, 1936-----	223

TABLE OF CONTENTS

Table	5
I. Contents October 1912 to December 1936	5
II. Contents and Illustrations October 1912 to Decem- ber 1936	137
III. Contents 1936	201
IV. Contents and Illustrations 1936	228

---

I

CONTENTS

October, 1912, to December, 1935

---

CONTENTS

October 1915 to December 1915



## CONTENTS

—A—

	Year	Month	Page
Accident Compensation			
Percentage Higher in Country-----	1931	Feb	13
Prison Road Workers Given Decision by Supreme Court-----	1927	Feb.	11, 12
Statistics			
California System of Compiling Motor Vehicle,			
By Victor W. Killick, Statistician, Division of Motor Vehicles and California Highway Patrol -----	1931	Jan.	13-15
Accidents			
Reduced on State Highways-----	1928	Nov.-Dec.	11, 28
Selfish Driving Held Cause of-----	1931	July	36
Accounting System			
Malm Completes Revision of-----	1926	Dec.	6
Recent Changes In The,			
By H. B. Weaver, Chief Accountant -----	1924	Nov.	3, 5
Acting Engineers Promoted			
F. W. Haselwood, Div. III-----	1926	April	15
E. Q. Sullivan, Div. VIII-----	1926	April	15
Advertising Signs Along Highways			
Advertising Program Planned			
Million-Dollar-a-Week -----	1933	Sept.	15-17
California's Experience in Regulating,			
By J. M. Call, Outdoor Advertising Assistant-----	1934	Nov.-Dec.	10, 14, 26
New Law Regulates,			
By Morgan Keaton, Assistant Deputy Director of Public Works -----	1933	July-Aug.	6-7, 29
Aerial Photography			
Tests for Topographic Mapping,			
By E. N. Bryan, Supervising Hydraulic Engineer -----	1933	March	6
"AESOP Said"			
By Fred J. Grumm, Engineer of Surveys and Plans-----	1925	July	5
Ainley, C. N., Resident Engineer			
Building a Highway While 6000 Automobiles Move Along the Road -----	1927	Dec.	10, 11
Akron, Dirigible, Welcome to Sunnyvale. Division of Highways			
Takes Active Part-----	1932	May	2, 29
Alameda-Contra Costa Low Level Tunnel Project,			
By W. B. Boggs, District Engineer, Joint Highway District Number 13-----	1934	May	16-17, 19, 31-32

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Alemanay Boulevard Extension Completed,			
By Colonel J. H. Skeggs, District Engineer -----	1935	Nov.	20, 22
American Association of State Highway Officials -----	1924	Oct.	11
Back Employment Measures, By C. C. Carleton, Chief, Division of Contracts and Rights of way -----	1931	Oct.	8, 26, 27, 30
Tenth Annual Convention -----	1924	Nov.	11
American Canyon Cut-off Involves Excavating 1,166,000 Cubic Yards,			
By R. E. Pierce, District Engineer	1933	Dec.	2, 12
Slides Raise Total Excavation, By R. E. Pierce, District Engineer	1934	Sept.	2, 13
Surveys Completed, By R. E. Pierce, District Engineer	1933	March	18
American River Bridge, The Reconstructed			
Opened and Dedicated, Governor Merriam Officiating -----	1935	April	2, 19, 32
Anderson, R. J., Secretary Shasta County Promotion and Development Association			
Highway and Empire Developer ---	1914	July	7
Andrew, C. E., Bridge Engineer, Bridges on California State Highways -----	1928	July-Aug.	2-4
Consultant Engineer Board Approves Transbay Bridge Plans -----	1931	Oct.	12-13
Angeles Crest Highway Will Open Recreation Mountain Area, By S. V. Cortelyou, District Engineer -----	1934	July	2, 29, 31
Anti-Road Sign Movement -----	1912	Oct.	14
Approach to Schools "School Slow" to be Painted on State Highways -----	1927	Dec.	18
Architects at Work Speeding Up State Building Activities -----	1931	Feb.	9
Named to Prepare Plans for Institution Buildings -----	1931	March	33
Architecture, Division of Awards (chronologically listed) ---	1929	Sept.	24
Also -----	1929	Oct.	36
Also -----	1929	Nov.	40
Also -----	1929	Dec.	41
Also -----	1930	Jan.	40
Also -----	1930	Feb.	38
Also -----	1930	March	41
Also -----	1930	April	24, 25
Also -----	1930	July-Aug.	35

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Architecture, Division of—Continued.			
Awards (chronologically listed)			
Also-----	1930	Sept.	25-26
Also-----	1930	Oct.	33
Also-----	1930	Nov.	29
Also-----	1930	Dec.	26
Also-----	1931	Jan.	29
Also-----	1931	Feb.	34
Also-----	1931	March	39
Also-----	1931	April	32
Also-----	1931	May	40
Also-----	1931	June	8
Also-----	1931	July	35
Also-----	1931	Aug.	27
Also-----	1931	Sept.	30
Also-----	1931	Oct.	36
Also-----	1931	Nov.	29
Also-----	1931	Dec.	39
Also-----	1932	Jan.	44
Also-----	1932	Feb.	34, 40
Also-----	1932	March	34
Also-----	1932	May	30
Also-----	1932	July	30
Also-----	1933	March	24
Also-----	1933	May-June	32
Construction			
School, Safe Building Law, How State Is Enforcing			
By C. H. Kromer, Principal Structural Engineer-----	1934	July	14, 15, 16
How to Build \$41,000,000 of State Structures,			
By George B. McDougall, Chief, Division of Architecture-----	1931	Aug.	6, 26-27
Report (chronologically listed)----			
Also-----	1929	Nov.	33
Also-----	1929	Dec.	25
Also-----	1930	Jan.	21
Also-----	1930	June	24
Also-----	1930	Sept.	21
Also-----	1930	Oct.	28
Also-----	1930	Dec.	26
Also-----	1931	Jan.	29
Also-----	1931	May	29
Armory Building for San Jose,			
By P. T. Poage, Assistant Chief Architect-----	1933	April	5, 25
Arroyo Honda to Gaviota			
Coast Route Improvement-----	1934	Sept.	10, 13
Arroyo Seco Emergency Relief Camp			
Operating Full Quota-----	1932	Dec.	2, 20
Arterial			
Los Angeles-Pomona, Will Save \$876,000 Annually,			
By S. V. Cortelyou, District Engineer-----	1934	March	2, 16-17, 28

	Year	Month	Page
Asphalt			
Concrete			
By A. E. Loder, Division Engineer, Division IV	1915	Jan.	14, 15
Concrete Pavement			
Mechanical Spreading, Raking, Finishing,			
By C. S. Pope, Construction Engineer, Division of Highways	1928	Feb.-March	16-17
Concrete Pavements, Finishing Warped Surfaces			
By C. S. Pope, Construction Engineer	1935	Oct.	26
Discoveries Prove Ancient Tribes Used	1933	April	14, 15
Patcher			
Used in Division II	1926	Nov.	12
Surfacing			
Beach Sand Successfully Used for,			
By F. W. Haselwood, District Engineer	1932	Jan.	8, 29
At the Second Pillar of Architecture,			
By F. M. Green, Assistant Structural Engineer	1931	Dec.	28
Attorney General			
Rules on Contents of Journal	1928	May-June	16
Automobile			
Registrations for 1927	1928	May-June	23
Road Distance Effect on Automobile Costs,			
By W. D. Douglas, Assistant Engineer, Division of Highways	1928	Sept.-Oct.	5-7, 21
Automobiles (See Motor Vehicles)			
California Autos Averaged 601 Gallons of Gasoline in 1934	1935	April	20
California Autoists Pay Lower Car Fees Than in Other States	1930	Oct.	13, 18
California Car Owners Average 7250 Miles Per Year	1935	May	25
California's Rank Among States in Auto Fee Costs	1928	Nov.-Dec.	36
Avery, H. T., Office Engineer, Division V			
Evolution of the Highway of the Missions	1924	Oct.	12, 13
Awards			
High Points in October	1929	Nov.	24-26
November Highway Awards Described	1929	Dec.	26-27
September Awards Assure Heavy Major Improvements for State Highways	1929	Oct.	20

B			
	Year	Month	Page
Badger, R. S., District Construction Engineer			
Bakersfield By-pass Improvement Opened with Ceremonies-----	1934	June	4, 22, 31
Bakersfield By-pass Improvement Opened with Ceremonies By R. S. Badger, District Construction Engineer-----	1934	June	4, 22, 31
Banks, A. L., Assistant Deputy Director, Department of Public Works			
Appointed Assistant to Mr. Herz--	1931	Feb.	6
State Snow Fighters Win Victory in Sierras-----	1932	Jan.	2-4
Bangert, Nelson T., Assistant Maintenance Engineer			
Twenty Day Storm; Roads Kept Open-----	1935	Feb.	2, 28
Barham, Dr. W. W.			
Appointed California Highway Commissioner-----	1933	Jan.-Feb.	8
Barnes, F. M., Associate Designing Engineer of Bridges			
Ventura Overhead Will Eliminate Dangerous Underpass-----	1934	May	24, 26
Bartlett Springs Road Opened-----	1931	Sept.	22
Bascule Bridge at Knights Landing Dedicated-----	1933	Dec.	20-21
Bassett, E. J., Resident Engineer, Division II			
Difficulties Overcome on Sacramento Canyon Project-----	1927	March	7-8
Trinity Lateral Hazard Removed by Relocation-----	1932	July	12-13, 28-29
Bathing Beach at Santa Monica Engineers Make Ocean Build a Mile	1934	May	12
Baumgartner, J. P.,			
Appointed California Highway Commissioner-----	1927	Jan.	5
California's Message to Arizona---	1928	April	5, 25
State Highways Need Vision-----	1928	Jan.	3-4, 29
Bayshore Highway			
Construction Proves Gigantic Project-----	1929	Jan.-Feb.	16
Construction Work Under Way--- Dedication,	1925	Feb.	6
By Col. John H. Skeggs, District Engineer-----	1929	Nov.	9-10, 26
Huge Road Project Under Way-----	1928	Sept.-Oct.	4
New Link Completed, By Col. John H. Skeggs, District Engineer-----	1933	July-Aug.	24-26

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Huge Road Project Under Way— Continued.			
New Unit Opened by Governor Rolph			
By Col. John H. Skeggs, District Engineer-----	1931	May	2, 40
Presents 35 Mile Ribbon of High- way,			
By Col. John H. Skeggs, District Engineer-----	1933	July-Aug.	24-26
South San Francisco Underpass Widened-----	1935	May	21
Beaches			
Save the Beaches, By C. C. Young, Governor of California-----	1927	Dec.	7
Beautification			
Select Typical Highway Sections for	1929	March-April	3
Beautiful Highways A Plea for By Ray Lyman Wilbur, Secretary of the Interior-----	1929	Oct.	24
Bedford, T. A., Division Engineer			
Retires as District Engineer-----	1928	May-June	19
Some Ideas on Road Building-----	1924	July	12
Bell Springs			
Eliminating the Terrors of the Grade-----	1916	July	5
Berg, Carl E., Engineer of Estimates and Costs, Division of Archi- tecture			
California Plans Its Hospitals----	1929	Nov.	14-15, 26
Lake Almanor Fish Hatchery----	1931	April	9-10
Beuthel, W., Assistant Highway Engi- neering Draftsman			
Building North Shore Road Along Salton Sea-----	1934	April	4, 19, 32
Fresno Traffic Circle-Subway Improvement-----	1932	July	2, 27
Realignment in Bakersfield Elim- inates Five Grade Crossings--	1933	July-Aug.	4, 14
Tehachapi Flood Wrecked Highway and Bridges-----	1932	Oct.-Nov.	4, 38
Bevans, Russell			
Chief Cato and Bevans Have New Titles-----	1931	Aug.	13
Bid Opening—Weekly-----	1931	Oct.	41, 45
Bidders, Prequalifications of-----	1929	Oct.	23
Bids			
Director Kelly Opens First in South	1934	June	20-21
Work Offered for Bids in April----	1932	April	19
Also in May-----	1932	May	17
Also in June-----	1932	June	19
Also in July-----	1932	July	23
Also in August-----	1932	Aug.	9
Also in October-----	1932	Oct.-Nov.	25
Also in November-----	1932	Dec.	19

Bids—Continued.	<i>Year</i>	<i>Month</i>	<i>Page</i>
Also in December.....	1932	Jan.-Feb.	17
Also in March.....	1933	March	15
Also in May.....	1933	May-June	15
Also in Sept.....	1933	Sept.	16-17
<b>Bids and Awards, Highway (chronologically listed)</b> .....	1927	Nov.	35-38
Also.....	1927	Dec.	37-41
Also.....	1928	Jan.	42-43
Also.....	1928	Feb-March	38-39
Also.....	1928	April	42-43
Also.....	1928	May-June	32-33
Also.....	1928	July-Aug.	32, 33
Also.....	1928	Sept.-Oct.	28-29
Also.....	1928	Nov.-Dec.	36-38
Also.....	1929	Jan.-Feb.	37
Also.....	1929	March-April	28-29
Also.....	1929	May-June	36-37
Also.....	1929	July-August	32-33
Also.....	1929	Sept.	23-24
Also.....	1929	Oct.	34-35
Also.....	1929	Nov.	37-40
Also.....	1929	Dec.	40-41
Also.....	1930	Jan.	36-37
Also.....	1930	Feb.	37-38
Also.....	1930	March	20, 40
Also.....	1930	April	24
Also.....	1930	May	36-37
Also.....	1930	June	36-37, 38
Also.....	1930	July-Aug.	30-31
Also.....	1930	Sept.	24-25
Also.....	1930	Oct.	32
Also.....	1930	Nov.	28
Also.....	1930	Dec.	29-30
Also.....	1931	Jan.	37-38
Also.....	1931	Feb.	33-34
Also.....	1931	March	38-39
Also.....	1931	April	31-32
Also.....	1931	May	35-37
Also.....	1931	June	32-33, 34
Also.....	1931	July	34-35
Also.....	1931	Aug.	41-42
Also.....	1931	Sept.	40-41
Also.....	1931	Oct.	36
Also.....	1931	Nov.	36
Also.....	1931	Dec.	30
Also.....	1932	Jan.	30
Also.....	1932	Feb.	40
Also.....	1932	March	30
Also.....	1932	April	30
Also.....	1932	May	26-27, 38
Also.....	1932	June	26-27
Also.....	1932	July	30
Also.....	1932	Aug.	29
Also.....	1932	Sept.	28, 39
Also.....	1932	Oct.-Nov.	32
Also.....	1932	Dec.	27

Bids and Awards, Highway—Continued.	Year	Month	Page
(Chronologically listed)			
Also-----	1933	Jan.-Feb.	23
Also-----	1933	March	24
Also-----	1933	April	18
Also-----	1933	May-June	31-32
Also-----	1933	Sept.	22
Also-----	1933	Oct.-Nov.	30-32
Also-----	1933	Dec.	29-30, 32
Also-----	1934	Jan.	30-31
Also-----	1934	Feb.	30, 32
Also-----	1934	March	32
Also-----	1934	April	30
Also-----	1934	May	30, 32
Also-----	1934	June	30, 32
Also-----	1934	July	30, 32
Also-----	1934	Aug.	30
Also-----	1934	Sept.	32
Also-----	1934	Oct.	32
Also-----	1934	Nov.-Dec.	32
Also-----	1935	Jan.	36-37
Also-----	1935	Feb.	32
Also-----	1935	March	32
Also-----	1935	April	29, 32
Also-----	1935	May	29
Also-----	1935	June	34
Also-----	1935	July	31
Also-----	1935	Aug.	22, 32
Also-----	1935	Sept.	31-32
Also-----	1935	Oct.	31
Also-----	1935	Nov.	31, 32
Also-----	1935	Dec.	31-32
<b>Biennial Budget</b>			
Adopted by State Highway Commission-----	1930	Dec.	14
Major Highway Construction Projects Allotted \$26,498,980, By H. A. Hopkins, Chairman, California Highway Commission-----	1935	Jan.	1, 23-35
<b>Biennium</b>			
Highway Program During-----	1928	Sept.-Oct.	18
Program 96 Per Cent Completed by June 1st, By Geo. T. McCoy, Assistant State Highway Engineer---	1935	June	1, 14, 29
<b>Big Sur Contract Completed,</b> By L. H. Gibson, Division Engineer, San Luis Obispo-----	1924	Nov.	10, 11
<b>Billboard Solution</b> Sale of "Right to View" Proposed---	1931	May	9, 11
<b>Billboards</b> Massachusetts Will Tax-----	1929	Oct.	22
<b>Bixler Pavement Marker Constructed</b>	1925	May	10, 11
Blaney, Charles D. Chairman California Highway Commission Building The State Highway-----	1914	July	3, 4



	<i>Year</i>	<i>Month</i>	<i>Page</i>
Blind, How California Cares for Them By P. T. Poage, Assistant Architect -----	1930	March	6-8, 34
Boggs, W. B., District Engineer, Joint Highway District No. 13 Alameda-Contra Costa Low Level Tunnel Project-----	1934	May	16-17, 19, 31-32
Bond Issue Program Will Give 4705 Jobs-----	1935	July	8-10
Purchase State Highway Makes Profit for Solano County-----	1927	Feb.	12
Bonds			
San Francisco-Oakland Bay Bridge, Signed by Earl Lee Kelly, Director, Department of Pub- lic Works-----	1933	Dec.	25
State Treasurer Reports-----	1912	Oct.	10
Bonner, F. E., District Engineer, U. S. Forest Service The Forest Road System of California -----	1924	Sept.	6, 7
Booker, B. W., Office Engineer, Division I Discussion of Cost Accounting on Day Labor Jobs-----	1927	Feb.	3-5
Bovey, C. E., District Maintenance Engineer West End of Yolo Causeway Low- ered; How Job Was Accom- plished -----	1928	July-Aug.	14-15
Metal Crib Retaining Walls Built on Oak Flat Road-----	1932	Dec.	32
Modern Highway Now Over His- toric "Priests Grade"-----	1927	April	8, 9
Bowers, H. Dana Beautification of Roadside in South- ern California-----	1932	Sept.	2, 32
Doctors Operate on "Hangman's Tree" -----	1933	March	35
Frost-bitten Trees Show Signs of Life -----	1933	May-June	14
Roadside Landscaping -----	1935	Dec.	14, 28
Roadside Planting Projects for 1935	1935	April	6-7, 24
Box Canyon Highway Rebuilt in 42 Days By H. S. Comly, District Main- tenance Engineer -----	1935	Nov.	6
"Braided" Crossing, Latest Phase in the Evolution of Express Highways, By Col. John H. Skeggs, District Engineer-----	1930	Dec	5-7, 20
Brake Testing Policy Is Announced--	1930	March	19
Breed Bill, Provisions Cement State Unity -----	1927	June	8

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Bridge			
Concrete, Results of Field Tests, By Harlan D. Miller, Bridge Engineer-----	1925	April	7
Dedications			
American River Bridge Recon- structed and Opened			
Governor Merriam Formally Opens -----	1935	April	2, 19, 31
Bixby Creek			
By G. A. Tilton, Jr., District Construction Engineer-----	1932	Dec.	6, 21
Douglas Memorial-----	1926	April	15
Geyserville, Officially Opened----	1932	Dec.	39
Herndon Bridge-----	1929	May-June	18
Hiouchi Bridge Over Smith River Governors Young of California and Patterson of Oregon, Join in Dedication-----	1929	July-Aug.	2-4
Klamath River Bridge Memorial to Assemblyman Douglas on Redwood Highway, Chairman Harvey M. Toy of the High- way Commission Presiding--	1926	May	8, 9, 14, 15
Mark West Bridge on Redwood Highway Dedicated with Col- orful Ceremony-----	1931	Aug.	10-11
Monte Rio Bridge Over Russian River -----	1935	April	16
Napa Bridge. New "G. M. Francis" Bridge Over Napa River Formally Opened with Cere- monies, Earl Lee Kelly, Chairman California High- way Commission, Officiating--	1932	May	34-35
Orange County Bridge Opened, California Highway Commis- sioner Phil Stanton Offi- ciating -----	1934	Nov.-Dec.	31
Pacific Highway Bridge Over Cot- ton Wood Creek. Earl Lee Kelly, Chairman of Califor- nia Highway Commission, Representing Governor James Rolph, Jr.-----	1931	Feb.	7, 19
Richardson Bay Bridge on Alto- Waldo Unit of Route 1 Offi- cially Opened, Earl Lee Kelly Presiding-----	1931	Dec.	38
Rio Vista Bridge Is Opened to Traffic -----	1928	Feb.-March	28
Riverside Bridge Dedicated by Governor Rolph-----	1932	March	22-23
Russian River Bridge at Jenner--	1931	Oct.	38
Russian River Bridge at Monte Rio Dedicated, Governor Merriam Officiating -----	1935	April	16-18

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Bridge—Continued.			
Santa Ana River Bridge Opened by Highway Commissioner Stanton -----	1934	Nov.-Dec.	31
Santa Clara River Bridge, Long- est Steel Bridge in State, Opened By V. A. Endersby, Construction Engineer, Bridge Department	1932	May	39
Tuolumne Bridge at Modesto Opened by Governor Rolph, By R. E. Pierce, District Engi- neer -----	1933	July-Aug.	30-31
Department			
Chart Gives Personnel -----	1924	April	6
Construction Started Over Klamath River -----	1924	April	5
Over Van Duzen River -----	1924	April	5
On Rincon Causeway -----	1924	April	5
Drives Concrete Pile Twenty-four Hours After Casting, By Harlan D. Miller, Bridge Engineer -----	1925	Oct.	4
Manual of Instructions Issued ----	1925	Sept.	10
New Type of Bank Protection Used	1925	Nov.	8
Organization and Chart -----	1927	Sept.-Oct.	12-13
Report -----	1927	May	12
Report -----	1927	June	12
Report -----	1927	July	12
Report -----	1927	Aug.	12
Engineer, Harlan D. Miller Ap- pointed -----	1924	Dec.	14
Models, Value Proven, By F. W. Panhorst, Acting Bridge Engineer -----	1932	Aug.	25
Bridges			
Acceptance of County Bridges, By Walter C. Howe, Division Engineer -----	1914	July	9
Alamitos Bay Span -----	1924	July	6
Bixby Creek Bridge Completed By W. A. Douglass, Assistant Bridge Construction Engineer	1932	Oct.-Nov.	12
Bixby Concrete Arch Longest in State By H. D. Stover, Designing Engi- neer, Bridge Department ----	1932	May	4
Bixby Creek to Be Longest Con- crete Arch By James Gallagher, Assistant Bridge Engineer -----	1931	Nov.	34
Butte County Bridge to Aid Drain- age Problem -----	1925	Jan.	15
California State Highway Bridges--	1916	July	2
California State Highway Bridges By C. E. Andrew, Bridge Engi- neer -----	1928	July-Aug.	2-4

Bridges—Continued.	Year	Month	Page
California State Highway Bridges Are Inspected,			
By F. W. Panhorst, Construction Engineer-----	1928	Nov.-Dec.	4-5, 25
Carquinez Bridge-----	1927	May	13
Coast Traffic Compels Wider Span Over Santa Ana River-----	1932	April	43
Dolan Creek New Type of Timber Arch			
By Stewart Mitchell, Assistant Bridge Engineer-----	1935	Feb.	26-27
Doney Creek Arch Bridge Now Open to Traffic-----	1927	Jan.	8
Eel River Bridge Repaired with Redwood Blocks-----	1925	Sept.	11
Eel River Steel Girder Bridge Wins Award in National Beauty Contest-----	1935	June	2
Feather River Gateway Bridge----	1930	Nov.	4
Graphic Charts and Their Use in Bridge Designing,			
By Harvey D. Stover, Office Engineer, Bridge Department----	1927	Feb.	6-7
Herndon Bridge in Service Since 1903-----	1927	April	4
Los Angeles Engineer Says California State Highway Bridges Equal Nation's Best-----	1926	Jan.	14
M Street, Sacramento, Construction to Be Under Way in Spring,			
By F. W. Panhorst, Acting Bridge Engineer-----	1934	Jan.	12, 13, 27
Progress			
By W. A. Douglass, Assistant Construction Engineer of Bridges-----	1935	May	4, 18, 32
Spans 95 Per Cent Completed			
By G. W. Thompson, Resident Engineer-----	1935	Sept.	4, 22
Mad River Bridge Relocation Abolishes Four Grade Crossings,			
By Gene Welch, Assistant Designing Engineer-----	1933	March	10-11
Making Bridges Safe for Pedestrians-----	1925	July	8
Malpaso Creek Concrete Arch Span Completed-----	1935	Sept.	13
Modern Bridge Practice-----	1927	April	12
Monte Rio, Ground Breaking for Bridge-----	1934	May	20-21
Mother Lode Highway County Bridge Rebuilt by State----	1926	Nov.	10
New Bridge Design-----	1924	Oct.	13
Number Necessary on Highway----	1924	April	16

Bridges—Continued.	Year	Month	Page
Old Bridge Modernized by Turning Upside Down, By L. C. Hollister, Associate Bridge Designing Engineer	1932	Dec.	22
Orleans Bridge Built in Record Time by Division II	1926	Oct.	9
Planning and Construction By Everett L. Walsh, Engineer of Investigation	1933	May-June	28-30
Plans for \$2,000,000 in New Bridges Approved	1924	July	10
Pulga Bridge a Spectacular Project	1932	Jan.	4
Rattlesnake Creek an Unusual Design	1934	Oct.	28
Reeds Creek Has State's Longest Girder Spans	1927	Jan.	12
Ridge Alternate Bridges Typify Latest Engineering Advances, By W. B. James, Assistant Construction Engineer, Bridge Department	1933	March	4, 17
Rocky Creek Span on Monterey Coast	1933	March	31
Rogue River Links Entire Pacific Coast	1931	June	30
Romance in the Life of a Bridge By James Gallagher, Assistant Bridge Engineer	1932	March	43
Roosevelt Highway Has Ten Bridges Under Construction	1934	May	15
Russian River Bridge Lowered by Six Ice Cakes, By Gordon L. Long, Resident Engineer	1932	Aug.	16
Salinas Bridge Has Novel Widening Features, By H. E. Fearnall, Resident Engineer	1932	April	34-35
San Diego's New Bridge Entrance	1931	Feb.	10
San Gabriel River Bridge Has Unusual Feature, By H. D. Stover, Designing Engineer, Bridge Department	1933	Dec.	26-27
San Joaquin River to Have New Bridge Soon	1928	Jan.	21
San Juan Bridge Job in South	1926	June	10
San Luis Rey Span	1930	Dec.	15
Secondary Roads, \$3,000,000 Needed to Make Safe for Legal Loads, By Stewart Mitchell, Constructing Engineer of Bridges	1935	Jan.	2, 14, 18
Serious Problems, By Harlan D. Miller, Acting Bridge Engineer	1924	April	3, 6
Shasta Canyon Bridged	1931	Feb.	3-5, 24

Bridges—Continued.	Year	Month	Page
Shasta River Gorge Highway Boasts Five Bridges in Five Miles By F. W. Haselwood, District Engineer-----	1932	March	2, 42
Sorrento Overhead Involved Problems, By M. J. Dwyer, Assistant Bridge Designing Engineer-----	1932	Oct.-Nov.	39
Southern Coast Cities Linked by New Bridge and Highway--	1925	April	6, 8
Southern Line Change Has Hand- some New Bridges-----	1926	May	10
State Built 100 Bridges During Biennium, By F. W. Panhorst, Acting Bridge Engineer-----	1935	July	16, 18
Steel Bridge Replaces Cable Ferry Over the Colorado River----	1928	Feb.-March	20, 26
Strength Is Determined by Actual Tests-----	1929	Jan.-Feb.	19
Traffic Continues While Bridge Is Moved to New Position-----	1926	Oct.	10, 11
Trestles and Culverts-----	1912	Oct.	3
Tunnels on Feather River Highway, By F. W. Haselwood, District Engineer-----	1935	Dec.	20
Ventura River Bridge Part of Coop- erative Plan By M. A. Koontz, Designer, Bridge Department-----	1932	April	28
Whittier Boulevard, Los Angeles County, New Bridge Com- pleted-----	1926	March	5
Willits Has New Reinforced Con- crete Bridge Over Broaddus Creek-----	1927	Jan.	12
Bryan, Everett N., Hydraulic Engineer Division of Water Resources Mapping 75,000 Miles of California	1931	Nov.	8, 18
Bryan, E. N., Deputy Chief, Division of Water Rights Outstanding Water Issues in State as They Developed in Past Year-----	1928	Jan.	1-2, 28
Bryan, E. N., Supervising Hydraulic Engineer, Tests of Aerial Photography for Topographic Mapping-----	1933	March	6
Budget For Two Years Highway Work----	1927	April	3
Keeping Books on the Highway Budget, By E. R. Higgins, Chief Account- ant, Department of Public Works-----	1928	May-June	11-12

Budget—Continued.	<i>Year</i>	<i>Month</i>	<i>Page</i>
Plan Has Reduced Overhead Costs, By C. H. Purcell, State Highway Engineer-----	1929	Oct.	1-13
Requests of Governor Young Are Met by Department-----	1928	Sept.-Oct.	18
Revised and Tabulated-----	1935	Sept.	9-12
Revised Highway Budget Allows \$21,545,370 for Construction, By Julien D. Roussel, Secretary, California Highway Commis- sion -----	1935	Sept.	1, 8-12
Supplementary Budget Is Adopted--	1928	Sept.-Oct.	8, 22
Tabulations, 87th-88th Biennial----	1935	Jan.	23-35
<b>Budget and Program</b>			
California's First Complete High- way -----	1928	Jan.	8, 38-41, 42
Projects for Highways Tabulated--	1933	Sept.	7, 28-32
<b>Budgeting—Issues Involved in Traffic Pressure or Political Pres- sure—Which?</b>			
By C. C. Young, Governor-----	1928	Jan.	9
<b>Budgets</b>			
Two Highway Budgets, Governor Young and That of the High- way Commission, By Ralph W. Bull, Chairman, California Highway Commis- sion -----	1929	Jan.-Feb.	1, 36
<b>Building Construction</b>			
Ten-Year Program for State Institutions, By George B. McDougall, State Architect-----	1930	Dec.	10-13, 26
<b>Buildings</b>			
<b>Dedications</b>			
California Institute, at Tehach- api, for Women, Dedicated by Governor Rolph-----	1932	May	28, 40
Edifices in South Dedicated, with Governor Rolph Chief Speaker-----	1931	March	5-6, 28
Long Beach Armory, Governor James Rolph, Jr., Chief Speaker-----	1931	March	5
Los Angeles State Office Building Opened -----	1932	July	24-25
Marysville New Highway Office Opened -----	1935	May	22, 28
National Guard Armory at Po- mona Opened, Governor Rolph Officiating, By A. T. Richardson, Chamber of Commerce Road Committee	1933	July-Aug.	18, 20
Printing Plant Addition Opened, Governor Rolph Officiated--	1932	Dec.	17

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Buildings: Dedications—Continued.			
San Diego Office Building, By E. E. Wallace, District Engineer-----	1935	Aug.	12
Also By E. E. Wallace, Dis- trict Engineer-----	1935	July	29
Stockton, District X, New Office Building Opened-----	1935	March	24
Bull, Ralph W., Appointed California Highway Commissioner-----	1927	Jan.	5
Bull, Ralph W., Chairman, California Highway Commission State Highways—Past, Present, Future-----	1927	Nov.	6
Two Highway Budgets-----	1929	Jan.-Feb.	36
Bulletin			
Eric Cullenward appointed Editor of Bulletin and Secretary of California Highway Commis- sion -----	1931	May	9
Foreword, California Highway Bulletin -----	1912	Oct.	2
Goes to Eleven Foreign Countries--	1926	Mar.	9
Hall, J. P., New Editor, Vice F. B. Durkee -----	1927	April	4
Howe, John W., New Editor, Vice Cullenward -----	1931	Sept.	21
Burch, A. N., Division of Water Resources, Irrigation in California-----	1930	Nov.	3, 18-19
Burney-Fall River Mills Celebration	1934	May	6, 32
Butler, Frank J., Chief, Blue-print Room How a Good Barber Became a Bet- ter Blue-print Maker-----	1931	Dec.	43
Old Blue-Printer Retires, By C. S. Pope, Construction Engineer-----	1935	June	35
Buying Power of Public Works Is Fac- tor in Business Restoration By James I. Herz, Deputy Di- rector, Department of Public Works-----	1931	Feb.	1-2

## C

Cables			
Huge Steel Bridge, Will Be spun Across San Francisco Bay, By C. H. Purcell, Chief Engineer, San Francisco-Oakland Bay Bridge-----	1935	April	12, 15, 24
Cadillacs Crushing Rock Highway Equipment from Surplus War Stocks -----	1924	May	5



	<i>Year</i>	<i>Month</i>	<i>Page</i>
Cajon-Lancaster Desert Link Construction Work Started, By E. Q. Sullivan, District Engineer-----	1934	Feb.	20-21
Highway Link Nearing Completion-----	1934	July	12
Cajon Pass Realignment Develops "Magnetic Hill"-----	1932	Aug.	12
Involves Moving a Creek, By E. Q. Sullivan, District Engineer-----	1931	Dec.	4-5
Calhoun, John C., House of Representatives, 1817 Bind the Republic Together with a Perfect System of Roads-----	1925	June	3
California Build Together, For, By Col. Walter E. Garrison, Director of the Department of Public Works-----	1931	Jan.	2-3
Joins Oregon in Dedication of Redwood Highway Sector-----	1935	Sept.	2, 18
Playground of the World-----	1930	Feb.	31
Ruts Can Not Hold, By M. B. Harris, Member of the California Highway Commission-----	1928	Feb.-March	1-2
Tells Story of State's Growth-----	1927	Dec.	9
California Highway Construction Protects Against the Forces of Nature, By C. S. Pope, Construction Engineer-----	1930	July-Aug.	5-7, 24, 25
"California Highways" 4000 Copies Distributed-----	1927	April	2
Distribution of-----	1924	May	9
Goes to Eleven Foreign Countries--	1926	March	9
Durkee, Frank B., Resigns as Editor. (Appointed Nov. 1, 1923)-----	1927	April	4
Foreign Publications in Africa and China Print Articles from "The Bulletin"-----	1927	Feb.	15
Howe, John W., Appointed New Editor, Vice Eric Cullenward	1931	Sept.	21
Official Bulletin of California Highway Commission Inaugurated	1924	Jan.	9
Policy of Commission-----	1924	Jan.	9
Purposes of the-----	1924	Jan.	9
Sent to Employees by Division Engineers-----	1924	Jan.	9
California Institution for Women, By George B. McDougall, State Architect-----	1930	Sept.	2-4
Dedicated by Governor Rolph-----	1932	May	28, 40
California Highway Commission Approves Routes in System of United States Highways-----	1926	Jan.	13

	<i>Year</i>	<i>Month</i>	<i>Page</i>
California Highway Commission—Continued.			
Asks Congress for \$400,000,000 Highway Grant	1934	April	14-15
Barham, Dr. W. W., Appointed to California Highway Commission. Vice Earl Lee Kelly, Resigned to Become Director of Public Works	1933	Jan.-Feb.	8
Biennial Report	1926	Dec.	3-4, 5
Blaney, Charles D., Elected Chairman	1914	July	11
Bull, Ralph W., Appointed to California Highway Commission	1927	Jan.	5
Conference with Rindge Estate Corporation	1927	May	4
Confronted with Many Big Problems	1927	May	3
Created	1912	Oct.	7
Department Purchases Cover Wide Field, By Lowell R. Smith, Purchasing Agent, California Highway Commission	1924	Dec.	8
Employees Appointed Solely on Merit; on Payroll for September	1912	Oct.	9, 10
Engineers on Highway Body Committees	1926	Feb.	9
Financial Statement Presented	1913	May	3
Hamilton, Charles D., Takes Office	1935	Aug.	10
Harris, M. B., Appointed Member	1927	April	3
Holds Meeting in San Diego	1931	Nov.	37
Howe, John W., Appointed Secretary, Vice Eric Cullenward	1931	Sept.	21
Ingels, Ray, Former Senator, Appointed to California Highway Commission	1935	June	10
Inspects Kings River Canyon Road Project	1931	June	17
Joins U. S. Forest Service Fighting Fires	1924	May	12
Meet the Commissioners and New Engineer	1924	Jan.	4
Meeting at Lakeport	1934	Aug.	15
Los Angeles	1931	Dec.	6, 21
Meetings at Riverside and San Luis Obispo	1932	April	26, 44
Moody, Fred S., Appointed a Member	1927	Aug.	2
New Color for Vehicles	1926	Jan.	15
New Members of, Harry A. Hopkins, Taft Earl Lee Kelly, Redding Timothy A. Reardon, San Francisco Phillip A. Stanton, Anaheim Frank A. Tetley, Riverside	1931	Jan.	5, 7, 12
Organization Chart	1912	Oct.	16

California Highway Commission—			
	<i>Year</i>	<i>Month</i>	<i>Page</i>
Continued.			
Paving Projects Report-----	1926	March	5
Personnel-----	1914	July	2
Policies of the Commission,			
By Harvey M. Toy, Chairman----	1924	Jan.	3, 6
Policies Outlined,			
By Earl Lee Kelly, Chairman----	1931	Nov.	28-29
Proposed Improvements for 1933-35			
Biennial Budget-----	1933	Jan.-Feb.	1, 31-36
Recommends 31 Additions to Road			
System,			
By Harry A. Hopkins, Member--	1932	Sept.	1, 10-11
Roster-----	1912	Oct.	2
Roster-----	1913	May	2
Roster-----	1914	July	2
Roster-----	1916	July	2
Roussel, Julien D., Appointed			
Secretary-----	1935	Feb.	8
Schenck, Joseph M., Appointed a			
Member-----	1927	Aug.	2
Secondary Roads Recommended to			
Legislature-----	1933	April	1, 17, 26-32
Seminar of Department Heads----	1914	July	11
Speeds Up Governor Rolph's Build-			
ing Program-----	1931	Feb.	20-21
Stern, Charles F., Appointed Mem-			
ber California Highway Com-			
mission, Vice Burton A.			
Towne-----	1914	July	11
Towne, Burton A., Resigns-----	1914	July	11
Upholds Action of Solano County			
Supervisors-----	1925	Sept.	10
Workings of the Commission,			
By Harry A. Hopkins, Member--	1931	July	17-19
Young, C. C., Governor, Appoints			
Joseph M. Schenck of Los			
Angeles and Fred S. Moody,			
San Francisco, as Members--	1927	Aug.	2
California Highway Policies,			
By C. C. Young, Governor of			
California-----	1929	Jan.-Feb.	10-13
California's			
Buildings,			
By George B. McDougall, Chief,			
Division of Architecture----	1927	Nov.	8, 30
Contribution to Highway Building			
Lauded by U. S. Engineer,			
By L. I. Hewes, Deputy Chief			
Engineer, U. S. Bureau of			
Public Roads-----	1928	Nov.-Dec.	12-13, 27
Future Presses the Present-----	1927	Nov.	14
Highway Standing Analyzed,			
By C. H. Purcell, State Highway			
Engineer-----	1931	June	4

	<i>Year</i>	<i>Month</i>	<i>Page</i>
California's—Continued.			
Message to Arizona, By J. P. Baumgartner, State High- way Commissioner (Address at dedication ceremonies of the Mecca-Blythe Bridge)---	1928	April	5, 25
State Highway Policy-----	1913	May	3
Call, J. M. Regulating Highway Signs-----	1934	Nov.-Dec.	10, 14, 26
Callahan, Walter M., Electrical Engi- neer, Division of Architecture Capitol Flood Lighting-----	1930	April	5-6, 25
Electrical System in State Insti- tutions-----	1931	Feb.	11-12
Camarillo State Hospital Ground Breaking Ceremonies-----	1933	Sept.	20
Plans-----	1932	Oct.-Nov.	14-15, 40
Cameron, E. M., District Construction Engineer Redwood Highway Realignment, Between Jordan Creek and South Scotia Bridge-----	1934	Feb.	8, 15
In Humboldt County-----	1934	June	18
Camp, Workmen's Modern, at Shingle Springs-----	1914	July	14
Campbell, L. V., Engineer of Cities and Cooperative Projects Gas Tax Funds Allocated to Cities--	1935	June	8-9, 26, 27 33, 36
Standard Specifications for Future Construction-----	1925	June	9
State Cooperating with 276 Cities on Street Improvements-----	1934	May	1, 10-12, 22
Tax, Gasoline, How Cities May Use	1935	Aug.	20-21
Capitol Park and Its Wonders-----	1932	June	8
Car Tracks Removed from San Pablo Arterial-----	1934	Feb.	24
Carleton, C. C., Appointed Chief, Con- tracts and Rights of Way---	1928	Feb.-March	14-15
American Association of Highway Officials Back Unemployment Measure-----	1931	Oct.	8, 26, 27, 30
Building Bridges by Revenue Bonds	1931	May	6-7
Catechism of the State Highway System-----	1932	March	6-7, 18
Court Okehs Bonds Issued under Joint Highway District Act--	1931	Feb.	26-27
How Land Is Secured for New Roads-----	1931	July	32-33
Land for Highways-----	1935	Aug.	16-17
New State Highway Legislation Covers Many Important Subjects-----	1929	May-June	1, 28-29
Questionnaire Answers Inquiries Concerning Highway Com- mission-----	1934	May	8-9, 27

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Carleton, C. C.—Continued.			
Securing Rights of Way for State Roads -----	1913	May	23
State Highway Organization Passes Its 20th Birthday -----	1932	Jan.	14-15
Zoning the Highways -----	1935	Jan.	8-9, 16-17, 19
Carpinteria			
Reconstruction of Highway Begun --	1926	Feb.	11
Carter, H., Resident Engineer, Bridge Department,			
Lassen County Bridges Surfaced with Emulsified Concrete ----	1925	Oct.	8
Cato, E. Raymond, Chief,			
Has New Title -----	1931	Jan.	12
Heads Highway Patrol (Department of Motor Vehicles Separated from Department of Public Works by Legislative Action 1931 Session — In effect August 14, 1931) ----	1931	Jan.	12
Causeway, New Lake Almanor, Plumas County -----	1927	Dec.	19, 30
Cement Concrete, Winter Experiments in Curing,			
By C. S. Pope, Construction Engineer -----	1934	March	6-7, 24-25
Perpetual Fog Maintained to Cure By F. D. Maddocks, Senior Physical Testing Engineer --	1934	Feb.	26-28
Central Valley Water Project Financial Setup -----	1933	Oct.-Nov.	20-22-28
Supreme Court Decision Aids -----	1935	Feb.	9
U. S. Engineers Investigate -----	1932	Dec.	12-15
Charter Way, Stockton, Grade Separation, a WPA Project ----	1935	Dec.	6-7
Chief Accountant for Public Works Department, E. R. Higgins -----	1928	April	40
Christmas Party, Department of Public Works "Family" -----	1931	Dec.	21
Christmas Trees: Outdoor, for California's Highways -----	1930	Nov.	16-17
Civil Engineer, Romance for the,			
By Fred J. Grumm, Engineer of Surveys and Plans. -----	1931	March	32, 33
Civil Service Candidate as the "Examiner" Sees Him,			
By C. S. Pope, Construction Engineer -----	1929	Sept.	10, 15
Civilization Moulded by Highways			
By Leo G. Hauck, Economist, Washington, D. C. -----	1931	Jan.	32
Clippings, Letters and Comments (chronologically listed) ----	1929	July-Aug.	16-18
Also -----	1929	Sept.	7-9
Also -----	1929	Oct.	16-18
Also -----	1929	Nov.	16-18

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Clippings, Letters and Comments—Continued. (Chronologically listed)			
Also-----	1929	Dec.	16-17
Also-----	1930	Jan.	17-18
Also-----	1930	Feb.	16-18
Also-----	1930	March	12-13
Also-----	1930	April	12-13
Also-----	1930	May	12-13
Also-----	1930	June	17-19
Also-----	1930	July-Aug.	17-18
Cloudburst, Road Crew Fights-----	1931	Feb.	18-19
Cloverdale-Hopland Project Started---	1932	Feb.	28
Coachella Valley Dips and Washes Eliminated, By E. Q. Sullivan, District Engineer-----	1932	Aug.	6-7
Coast Boulevard Reconstructed Through Laguna Beach By R. C. Meyers, Assistant Dis- trict Office Engineer-----	1935	Aug.	18, 31
Highway Tunnel of Unusual Design Constructed Through Santa Monica, By C. W. Jones, Senior Bridge Engineer, Southern Office---	1935	July	6, 10
Route Improvement Between Arroyo Hondo and Gaviota, By L. H. Gibson, District Engi- neer, District V-----	1934	Sept.	10, 13
Progress of Highway Project Summarized-----	1931	Oct.	18
Colfax-Gold Run Section Involves Heavy Grading, By F. W. Haselwood, Acting Division Engineer-----	1926	Jan.	4
College at Santa Barbara By Alfred Eichler, Architectural Designer-----	1930	Oct.	4-7
Colorado River, Tetrahedrons Taming, at Ehrenburg-----	1932	June	12
Colton Bill Apathy Must Not Defeat, By Harvey M. Toy, Chairman, California Highway Commis- sion-----	1925	Jan.	3
Comly, H. S., Division Engineer, Division II Box Canyon Highway Rebuilt in 42 Days-----	1935	Nov.	6
Features of the Reconstruction of the Pacific Highway-----	1925	July	3, 4
Hygroscopic Salts a Dust Pre- ventative-----	1925	Jan.	7, 9
Success of Convict Camps Depends on Superintendents-----	1924	June	7, 9
Widening and Straightening Pacific Highway-----	1924	Oct.	6

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Common Possession of Every Californian -----	1927	Dec.	14, 15
Concrete			
Aggregate Plant			
By W. D. Eaton, Resident Engineer -----	1924	Nov.	8, 9
Bases,			
By J. B. Woodson, Division Engineer -----	1914	July	13, 14
Better, Use of,			
By D. C. Willett, Bridge Department -----	1924	April	10
Contribution of Highway Building Lauded by U. S. Engineer,			
By L. I. Hewes, Deputy Chief Engineer, U. S. Bureau of Public Roads -----	1928	Nov.-Dec.	12-13, 27
Control of,			
By C. S. Pope, Construction Engineer and C. L. McKesson, Materials and Research Engineer -----	1925	Dec.	10, 11
Curing by Recent California Experiments,			
By C. L. McKesson, Materials and Research Engineer -----	1926	Jan.	5-7, 9
With Calcium Chloride,			
By C. L. McKesson, Research Engineer, Construction Department -----	1925	Feb.	5
Investigation of Reasons for Difference in Strength From Two Paving Projects,			
By C. L. McKesson, Testing and Research Engineer -----	1925	Oct.	5
Laboratory Develops Quick Hardening,			
By C. L. McKesson, Materials and Research Engineer -----	1925	Nov.	6-7, 8
Los Angeles Strives to Equal State's Record -----	1926	Jan.	11
Relation of Voids in Aggregate to Strength,			
By C. L. McKesson, Materials and Research Engineer -----	1926	Aug.	7-8, 9
Specimens Fractured Show Increased Strength When Re-tested,			
By F. F. Maddocks, Testing Engineer -----	1925	Aug.	11
Concrete Construction			
Chart Presentation of Elements Affecting,			
By C. S. Pope, Construction Engineer -----	1926	March	6, 7

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Concrete Construction—Continued.			
Highway Bridge			
Mixing Tests—Time and Capacity Studies,			
By C. L. McKesson, Materials and Research Engineer-----	1926	Feb.	5-7
Pavement			
Engineers Perfect Device to Support Reinforcing Steel, in Division VII -----	1926	Nov.	11
Engineers Invent Repositioning Jack,			
By I. S. Voorhees, District Maintenance Engineer -----	1933	Sept.	26-27
Labor Gets 91 per cent of every \$1,000 Spent -----	1933	Jan.-Feb.	20
Waterproofing a Reinforced,			
By E. T. Scott, Maintenance Superintendent, Division VII	1925	March	8, 9
Pile			
Bridge Department Drives Twenty-four Hours After Casting-Road in California,	1925	Oct.	4
By James B. Woodson, Division Engineer, Division VI-----	1915	Jan.	12
Slope Paving Conquers Valona Slide -----	1927	Sept.-Oct.	6
Testing Machine Designed by Highway Engineers -----	1927	May	10
Condemnation Claims, Juries Protect State Against High-----	1934	Sept.	19
Condemnation Proceedings Started by San Luis Obispo County---	1912	Oct.	10
Conejo Grade Realignment Project,			
By Justus F. Craemer, Assistant Director of Public Works---	1935	Nov.	10, 14, 22
Congress			
Legislation Affecting Highways Before the 68th-----	1925	May	11
Conkling, Harold, Chief, Division of Water Rights			
Putting the "Right" into Water Rights -----	1927	Nov.	7, 31, 39
San Gabriel Water Problems-----	1927	Dec.	6, 42-43
Water and Uses-----	1930	Sept.	8
Construction			
Experience in Placing Riprap Reported by Division VII-----	1926	Oct.	11
Safeguarded through Supervision in the Field,			
By J. W. Dutton, General Superintendent, Division of Architecture -----	1930	Feb.	8-9, 26-27
Construction Department, Purposes of the,			
By C. S. Pope, Construction Engineer-----	1924	Feb.	7, 8



Construction Department—Continued.	<i>Year</i>	<i>Month</i>	<i>Page</i>
Program, Analysis of Governor's \$5,000,000,			
By W. K. Daniels, Deputy Chief, Division of Architecture-----	1931	Oct.	10, 15
Projects, Twenty-one Advertised----	1932	March	14, 34
Records			
Detailed Figures for 1933-----	1934	Sept.	26, 27
Made During 1929 on State High- way System			
By Earl Withycombe, Assistant Construction Engineer -----	1930	May	4-5, 20-24
Made in 1930 on California State Highway System			
By Earl Withycombe, Assistant Construction Engineer -----	1931	May	22-23, 30-34
Made in 1931-1932,			
By Earl Withycombe, Assistant Construction Engineer -----	1933	May-June	10-13, 22, 32
Contractors			
Approve Use of Prisoners on Roads	1926	Feb.	9
Bidding Below Estimated Cost----	1928	Jan.	14, 15
Licensing Forms are Now Available	1929	Oct.	21
Must Stamp Name and Date on Pavement -----	1924	July	7
Report of Registrar-----	1929	Nov.	5
Rice Hulls Prove Help in Handling Wet Material -----	1928	Jan.	27
Told of Rolph's Labor Program----	1931	April	8
Warned to Renew Licenses-----	1934	June	16
Contractors' License Fee Reduced by Legislature -----	1933	May-June	32
Contracts			
Awarded by California Highway Commission -----	1924	April	11
Awarded in October-----	1933	Oct.-Nov.	26, 30-32
Big Sur Completed-----	1924	Nov.	10-11
Completion of -----	1930	Feb.	23-24
Also -----	1930	Mar.	20-21
Also -----	1930	April	23-24
Also -----	1930	May	36
Freight and Material-----	1912	Oct.	2
Information Published -----	1925	May	9
Modification of, during 1923,			
By R. M. Morton, State Highway Engineer -----	1924	Jan.	5
Number "One" Rebuilt-----	1926	May	6, 7
Provide Improvements of Major Character -----	1930	Jan.	40
Provide Jobs for More Men-----	1933	Dec.	28
Relation Between Contractor and the Division of Architecture, By C. Pierson, Specification Writer, Division of Archi- tecture -----	1929	Dec.	10-11, 28
Road Improvement Secured by Au- gust Contracts -----	1929	Sept.	11-12

Contracts—Continued.	Year	Month	Page
Spectacular Grading Contract is Accepted (Hauser)-----	1925	Sept.	4, 5
Also (chronologically listed)-----	1924	Feb.	12
Also -----	1924	July	8, 9
Also -----	1925	April	10-11
Also -----	1925	May	14
Also -----	1925	June	14
Also -----	1925	July	14
Also -----	1925	Aug.	14
Also -----	1925	Sept.	14
Also -----	1925	Oct.	14
Also -----	1925	Nov.	16
Also -----	1925	Dec.	16
Also -----	1926	Jan.	16
Also -----	1926	Feb.	16
Also -----	1926	March	16
Also -----	1926	April	16
Also -----	1926	May	16
Also -----	1926	June	16
Also -----	1926	July	16
Also -----	1926	Aug.	16
Also -----	1926	Sept.	16
Also -----	1926	Oct.	16
Also -----	1926	Nov.	16
Also -----	1926	Dec.	16
Also -----	1927	Jan.	16
Also -----	1927	Feb.	16
Also -----	1927	March	16
Also -----	1927	April	16
Also -----	1927	May	16
Also -----	1927	June	16
Also -----	1927	July	16
Also -----	1927	Aug.	16
Also -----	1927	Sept.-Oct.	16
Wage Decision Releases \$2,000,000 of Highway Contracts			
By F. B. Durkee, General Right of Way Agent-----	1934	Mar.	12, 26, 27
Contracts Accepted	1929	July-Aug.	14
Also -----	1929	Sept.	23
Also -----	1929	Oct.	20-21
Also -----	1929	Dec.	27-28
Also -----	1930	Jan.	37
Also -----	1930	Feb.	22-23
Also -----	1930	June	23-24
Convention and Road Shows; Impressions of the Chicago,			
By R. H. Stalnaker, Equipment Engineer-----	1925	Feb.	7
Convict			
Camps (See Prison Road Camps)			
New Camps Planned-----	1924	June	9
Regulation of,			
By B. B. Meek, Director of Public Works-----	1927	Dec.	25

	Year	Month	Page
Convict: Camps—Continued.			
Success Depends on Superintendents,			
By H. S. Comly, Acting Division Engineer, Dunsmuir-----	1924	June	7, 9
Transferred-----	1924	May	13
Labor			
Building Highway Into Yosemite	1924	June	5, 6
On Mountain Laterals-----	1916	July	7
On State Highways-----	1928	May-June	17
Pay Law Reviewed-----	1924	June	3-4, 5
Wage, Four Years Experience With,			
By Ben H. Miliken, Superintendent of Prison Road Camps-----	1927	Aug.	3, 6
Cooper, H. L., Acting District Office Engineer,			
Realignment of Highway Over Santa Ynez Mountains via San Marcos Pass-----	1935	Feb.	4, 15
Cooperation of State and Cities in Improvement of Highways and Streets,			
By Earl Lee Kelly, Director of Public Works-----	1935	Oct.	10-11, 22-23
Cooperative Highway Funds Shared by 33 Cities-----	1933	May-June	2, 17, 31
Plan Highway Links Through Cities	1932	Feb.	14-15, 20-21
Cordelia-Fairfield Relocation Reduces Curves and Mileage-----	1932	Dec.	39
Cortelyou, S. V., District Engineer			
Angeles Crest Highway Will Open Recreation Mountain Area--	1934	July	2, 29, 31
Appointed Division Engineer of Division VII-----	1924	Jan.	11
Breaking the Newhall Bottleneck--	1928	May-June	7-8
Firestone Boulevard Bottleneck in Graham Abolished-----	1934	Oct.	6, 28
Foothill Boulevard Cut-off Relieves San Fernando Traffic-----	1934	Nov.-Dec.	20, 27
Groyne System Adopted in Widening Coast Highway-----	1932	April	2, 16
Highway Improvements in Four Southern Counties-----	1932	Jan.	16, 44
Highways Suffer Only Slight Damage in Earthquake-----	1933	April	2, 10, 24
Los Angeles-Pomona Arterial Will Save Traffic \$876,000 Annually-----	1934	March	2, 16-17, 28
Mountain Springs Grade-----	1927	July	6
Ridge Relocation Means \$1,369,000 Annual Saving-----	1932	July	4, 16, 26-27
Counties			
For Southern Counties; Highway Improvements-----	1931	Nov.	31

Counties—Continued.	Year	Month	Page
Highway Work Under Way and Completed in Four Coast Counties-----	1932	Feb.	8
Improvements on Highways in Four Southern Counties, By S. V. Cortelyou, District Engineer-----	1932	Jan.	16, 44
State Highway Work in Counties--	1928	May-June	27, 31
Will Build the Highways-----	1913	May	20
County Highways, California Leads in State Aid to-----	1929	Oct.	8
Pavement Through Montecito Rebuilt by State-----	1926	April	3
Reports on State Highway Projects--	1930	Sept.	14, 22-24
Also-----	1930	Oct.	30-32
Also-----	1931	July	27
Craemer, Justus F., Assistant Director of Public Works			
International Pacific Highway Means a Great Trade Channel-----	1935	Feb.	16-17, 29
New Assistant Director of Public Works-----	1935	March	21
Realignment Project for Conejo Grade-----	1935	Nov.	10, 14, 22
Crest Drive, The New Road Into San Bernardino Mountains-----	1928	Nov.-Dec.	15
Crossing Warnings, Division IV Tries New, By H. W. Schreiber, Maintenance Superintendent, Division IV--	1924	Nov.	14
Crushed Rock and Gravel, Sizes By G. R. Winslow, Assistant Construction Engineer-----	1929	March-April	19
Cullenward, Eric, Appointed Deputy Director, Department of Public Works-----	1932	Oct.-Nov.	17
Editor Bulletin and Secretary California Highway Commission-----	1931	May	9
Highway Slogan "50,000 Men at Work by Christmas"-----	1933	Sept.	1, 6-7, 28-32
Resigns as Secretary of Highway Commission, Becomes Chief of Bureau of Publications and Documents-----	1931	Sept.	21
Resigns, Deputy Director of Department of Public Works-----	1934	April	9
Culvert Job, Unusual By E. T. Scott, Assistant District Maintenance Engineer--	1928	Nov.-Dec.	19
Culverts, Research Engineers to Inspect 5000-----	1925	Sept.	5
Curve Widening Program Is Adopted--	1929	Sept.	6, 9
Cuyama Forest Highway-----	1924	Dec.	10

D			
Dam	Year	Month	Page
Applications and Approvals (chronologically listed)-----	1930	Feb.	38-42
Dam and Water Statistics-----	1931	July	28-30
Also -----	1931	Aug.	31, 36-38
Also -----	1930	March	42-52
Also -----	1930	April	33-36
Also -----	1930	May	40-41
Also -----	1930	June	39-40
Also -----	1930	July-Aug.	33-34
Also -----	1930	Oct.	34-36
Also -----	1930	Nov.	29-31
Also -----	1930	Dec.	31-32
Also -----	1931	Jan.	39-40
Also -----	1931	Feb.	35-36
Also -----	1931	March	39
Also -----	1931	April	32-33
Also -----	1931	May	38-40
Also -----	1931	June	37-38
Building Program in Southern California Proposes Expenditure of \$31,904,000,			
By Edward Hyatt, State Engineer	1932	Aug.	1, 10, 14, 15
Construction, Vital Statistics (chronologically listed)-----	1931	Aug.	28
Also -----	1931	Oct.	34, 44
Also -----	1931	Nov.	30, 38
Also -----	1931	Dec.	33
Also -----	1932	Jan.	21
Also -----	1932	Feb.	32
Also -----	1932	March	41
Also -----	1932	April	40
Also -----	1932	May	36
Also -----	1932	June	36
Also -----	1932	July	38
Also -----	1932	Aug.	27-28
Also -----	1932	Sept.	36-38
Also -----	1932	Dec.	34
Also -----	1933	Jan.-Feb.	30
Also -----	1933	March	28
Also -----	1933	May-June	26
Disaster			
How State Highway Forces Met Emergency -----	1928	April	3-4, 22, 25
Report to Governor Young on St. Francis Dam Failure-----	1928	April	6-7, 22, 25
Law: Validity of 1929 Law Is Upheld -----	1929	Nov.	27-28, 31
Sites, Legislators View Northern-----	1927	Nov.	16, 18-19
Daniels, W. K.			
Analysis of Governor's \$5,000,000 Construction Program for 1931-----	1931	Oct.	10, 15
Caring for the Dangerous Insane--	1928	Feb.-March	11-12, 29
Making the Prisons Safe at Night--	1930	Jan.	7-8, 16
San Quentin Building Providing 683 Additional Cells to Be Built--	1932	Sept.	20

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Darlington, W. D., Member, California Highway Commission			
Features of the State Highway----	1914	July	9
Deadman's Curve in Grapevine Canyon Abolished,			
By R. M. Gillis, District Engineer	1935	Aug.	2
Death Valley Roads Taken Into Highway System,			
By J. W. Vickrey, District Engineer-----	1933	Sept.	4, 8
Death Valley Toll Road Purchased by State,			
By S. W. Lowden, Acting District Engineer-----	1935	Jan.	4, 22
<b>Dedications</b>			
<b>Bridges</b>			
American River Bridge Reconstructed and Opened			
Governor Merriam Formally Opens-----	1935	April	2, 19, 31
Bascule Bridge at Knights Landing-----	1933	Dec.	20-21
Bixby Creek			
By G. A. Tilton, Jr., District Construction Engineer-----	1932	Dec.	6, 21
Douglas Memorial-----	1926	April	15
Geyserville, Officially Opened----	1932	Dec.	39
Herndon Bridge-----	1929	May-June	18
Hiouchi Bridge Over Smith River			
Governors Young of California and Patterson of Oregon Join in Dedication-----	1929	July-Aug.	2-4
Klamath River Bridge Memorial to Assemblyman Douglas on Redwood Highway, Chairman Harvey M. Toy of the Highway Commission Presiding--	1926	May	8, 9, 14, 15
Mark West Bridge on Redwood Highway Dedicated with Colorful Ceremony-----	1931	Aug.	10-11
Monte Rio Bridge Over Russian River-----	1935	April	29
Napa Bridge. New "G. M. Francis" Bridge Over Napa River Formally Opened with Ceremonies, Earl Lee Kelly, Chairman California Highway Commission, Officiating--	1932	May	34-35
Orange County Bridge Opened, California Highway Commissioner Phil Stanton Officiating-----	1934	Nov.-Dec.	31
Richardson Bay Bridge on Alto-Waldo Unit of Route 1 Officially Opened. Earl Lee Kelly Officiating-----	1931	Dec.	38
Rio Vista Bridge Is Opened to Traffic-----	1928	Feb.-March	28

Dedications—Continued.	<i>Year</i>	<i>Month</i>	<i>Page</i>
Riverside Bridge Dedicated by Governor Rolph-----	1932	March	22-23
Russian River Bridge at Jenner	1931	Oct.	38
Russian River Bridge at Monte Rio Dedicated, Governor Merriam Officiating-----	1935	April	16-18
Santa Ana River Bridge Opened by Highway Commissioner Stanton-----	1934	Nov.-Dec.	31
Santa Clara River Bridge, Longest Steel Bridge in State, Opened By V. A. Endersby, Construction Engineer, Bridge Department	1932	May	39
Tuolumne Bridge at Modesto Opened by Governor Rolph, By R. E. Pierce, District Engineer-----	1933	July-Aug.	30-31
<b>Buildings</b>			
California Institute at Tehachapi for Women Dedicated by Governor Rolph-----	1932	May	28, 40
Edifices in South Dedicated, with Governor Rolph Chief Speaker-----	1931	March	5-6, 28
Long Beach Armory, Governor James Rolph, Jr., Chief Speaker-----	1931	March	5
Los Angeles State Office Building Opened-----	1932	July	24-25
Marysville New Highway Office Opened-----	1935	May	22, 28
National Guard Armory at Pomona Opened, Governor Rolph Officiating, by A. T. Richardson, Chamber of Commerce Road Committee-----	1933	July-Aug.	19, 20
Printing Plant Addition Opened, Governor Rolph Officiates---	1932	Dec.	17
San Diego Office Building, By E. E. Wallace, District Engineer-----	1935	July	29
Also By E. E. Wallace, District Engineer-----	1935	Aug.	12
Stockton, District X, New Office Building Opened-----	1935	March	24
<b>Highways</b>			
Alto-Waldo Unit of Route No. 1 Redwood Highway Over Richardson Bay, Officially Opened, Earl Lee Kelly, Chairman California Highway Commission, Presiding--	1931	Dec.	38
Anaheim Improved Link Officially Opened, Governor Rolph Officiating-----	1934	March	20

Highways—Continued.	Year	Month	Page
Bakersfield By-Pass Relocation Opened With Ceremonies---	1934	June	4, 22, 31
Ben Bow-Garberville Link of Redwood Highway -----	1935	June	6, 18
Burney-Fall River Mills Sector of of Redding-Alturas Highway Opened. Earl Lee Kelly, Director of Public Works Representing Governor Rolph	1934	May	6, 32
Cloverdale-Hopland Project opened	1934	Aug.	4-6, 26
Foothill Boulevard Highway in Claremont, Los Angeles County, Opened With Celebration	1931	Feb.	28
Long Beach-Huntington Beach and Newport Beach Coast Highway Link Opening Cele- brated in the South-----	1925	March	10
Los Gatos-Santa Cruz Cut Off, Earl Lee Kelly, Director of Public Works, Led Caravan Over New Route-----	1934	Oct.	12, 26
Maricopa-Ventura Link Comple- tion Celebrated by Barbecue-	1933	Oct.-Nov.	6, 28
Pacific Highway Span Over Cot- tonwood Creek. Earl Lee Kelly, Chairman, California Highway Commission, Repre- senting Governor Rolph, Offi- ciated -----	1931	Feb.	7, 19
Pickford, Mary, and Fairbanks, Douglas, Help Dedicate open- ing of Newport-Laguna Unit of Oxnard-San Juan Capis- trano Highway -----	1926	Nov.	4, 5
Point Loma (El Camino Cabril- lo) Officially Opened, Earl Lee Kelly, Director of Public Works, Officiating for Acting Governor Merriam By W. L. McFadden, Associate Highway Engineer -----	1934	Aug.	10
Pomona Links of New Highway, and Armory By A. T. Richardson, Chamber of Commerce Road Com- mittee -----	1933	July-Aug.	18-20
Prunedale "Cut-off" Opening Cere- monies Conducted by Earl Lee Kelly, Chairman Cali- fornia Highway Commission	1932	Aug.	2, 22
Redlands and Beaumont Cele- brate Opening of Unit on Im- perial Valley Trunk High- way -----	1925	Aug.	6
Redwood Highway Sector, Two States Join In Opening Cere- monies -----	1935	Sept.	2, 18



Highways—Continued.	Year	Month	Page
Rumsey-Clear Lake Highway Officially Opened by Governor Merriam -----	1934	Aug.	28
San Bernardino Viaduct on Mount Vernon Avenue Completed and Opened -----	1934	June	6
Sand Hills Project, Spectacular, Opened to Traffic -----	1926	Aug.	4, 5
San Juan Grade Project (Prunedale Cut-off) Opened to Public, By L. H. Gibson, District Engineer -----	1935	Sept.	16
Sausalito-Waldo Point, Great Caravan Officially Opens -----	1934	Aug.	4-6, 26
Sepulveda Boulevard Link Opened Officially by Governor Merriam -----	1935	Nov.	4, 18, 30
Smith River Highway Opened (Crescent City-Grants Pass) -----	1925	Apr.	8
Sutter Basin Dedicated -----	1931	Nov.	16
Taft Highway Relocation Celebrated -----	1935	June	20
Truckee River Highway to be Dedicated in June -----	1926	May	5
Truckee River Highway to be Dedicated to Memory of Pioneers -----	1926	June	3
Waterman Canyon Road (San Bernardino Mountains Rim-O' The World Drive to Lake Arrowhead) Opened -----	1933	Oct-Nov.	10, 27
DeHaven, Harry W., Chief, Architectural Draftsman The Architect's Part in State Work -----	1930	June	8, 16
Dennis, T. H., Maintenance Engineer Aims of the Maintenance Department -----	1933	Dec.	4, 19, 24
Annual Battle With Snow -----	1930	Feb.	3-4, 25
Battling Snow On State Highways -----	1932	May	1, 9-10, 12
California State Highways Have Earned \$54,000,000 on investment -----	1929	Oct.	13
Experimental Road Surface Construction -----	1931	Dec.	2, 16-17, 38
Fighting Snow on Mountain Highways -----	1928	Jan.	5, 15, 17
Highway Right of Way. How wide Should It Be and How Should the Width Be Utilized -----	1928	July-Aug.	7-8, 22-23
July Traffic Count -----	1930	Sept.	1, 28-36
Midsummer Traffic Census On State Highways Shows Normal Increase -----	1927	Aug.	5
New Method for Checking Maintenance Work -----	1930	Mar.	1-2, 24
Reducing the Fire Hazard Along State Highways -----			

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Dennis—Continued.			
Reflectorizing Signs at Important Intersections -----	1932	March	8-9, 29
Semi-Annual Traffic Count Taken July 12-13 -----	1931	Addendum to	August
Snow			
Equipment Opens Trans-Sierra Road -----	1934	April	20, 32
Plows Ready to Keep Roads Clear -----	1934	Oct.	20, 27
Removal Pays Dividends to Motorists and State -----	1933	Jan.-Feb.	6, 21
State's Snow Fighters Keep 4000 Miles of Highway Open -----	1935	Dec.	5, 22, 30
Weeds			
Spraying and Burning 2300 Miles of Roadside -----	1932	Feb.	6
State Highways to Be Numbered and Signed -----	1934	Aug.	20, 32
Stripe on California Highways -----	1930	Oct.	17-18
Traffic Count for July Shows Decrease -----	1932	Aug.	30
Count for Summer -----	1935	Sept.	28
Count Shows Increase -----	1934	Sept.	12-13
Truck Traffic on California State Highways as Shown by Joint Survey -----	1932	June	2, 14-15
Winter Traffic Count on State Highways -----	1931	April	25, 36-44
Shows Marked Increase -----	1934	March	22, 30
Shows Slight Gain -----	1935	April	14-15
Department Purchases Cover Wide Field,			
By Lowell R. Smith, Purchasing Agent, California Highway Commission -----	1924	Dec.	8, 9
DeSaules, Corning, Department of Public Works, Highway "Finance" Puts on Long Pants.-----	1928	Feb.-March	18
Desert Cloudburst Tamed -----	1929	Oct.	7-8
Desert Highway Destroyed by Flood, Now Rebuilt,			
By Almon Coonrod -----	1928	May-June	18
Desert Perils are Conquered by State Highways,			
By J. P. Baumgartner, Member of California State Highway Commission -----	1929	May-June	2, 30
Devil's Head Rock Profile Discovered in Sierras,			
By E. M. Muse, Delineator, Highway Department -----	1932	July	17
Diesel and Aeroplane Fuel, Western Officials Urge Imposts On,			
By H. H. Baldock, State Highway Engineer of Oregon -----	1934	Aug.	8-9, 31

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Director, Message From, By B. B. Meek, Director of the Department of Public Works	1930	Dec.	1
Dirigible Akron Welcomed by Division of Highways -----	1932	May	2, 29
District Engineers Paid Tribute by Director Kelly, By Earl Lee Kelly, Director of Public Works -----	1934	Oct.	4, 22
Organization Worth While, By L. B. Reynolds-----	1929	July-Aug.	15, 31
VI. Moves Into Permanent Home Road Improvement Report, By E. E. Wallace, District Engineer -----	1926	Dec.	13
X. New Office Buildings at Stock- ton Opened -----	1931	Dec.	44
III. New Office Buildings at Marysville Opened -----	1935	Mar.	24
Division Reports on Highways (chronologically listed) ----	1935	May	22, 28
Also -----	1924	Feb.	13-15
Also -----	1924	March	14-15
Also -----	1924	April	15
Also -----	1924	June	12-13
Also -----	1924	July	13
Also -----	1924	Aug.	12, 13
Also -----	1924	Sept.	12, 13
Also -----	1924	Oct.	16, 17
Also -----	1924	Nov.	12, 13
Also -----	1924	Dec.	12-13
Also -----	1925	Jan.	12, 13
Also -----	1925	Feb.	12, 13
Also -----	1925	March	12, 13
Also -----	1925	April	12
Also -----	1925	May	12, 13
Also -----	1925	June	12, 13
Also -----	1925	July	12, 13
Also -----	1925	Aug.	12, 13
Also -----	1925	Sept.	12-13, 15
Also -----	1925	Oct.	12-13
Also -----	1925	Nov.	12-14, 15
Also -----	1925	Dec.	12-13, 14
Also -----	1926	Jan.	12, 14
Also -----	1926	Feb.	12-13, 14
Also -----	1926	March	12-14, 15
Also -----	1926	April	12, 13
Also -----	1926	May	12-13
Also -----	1926	June	12-15
Also -----	1926	July	12-13
Also -----	1926	Aug.	12-13
Also -----	1926	Sept.	14-15
Also -----	1926	Oct.	14-15
Also -----	1926	Nov.	14-15
Also -----	1926	Dec.	14-15
Also -----	1927	Jan.	14-15
Also -----	1927	Feb.	14-15

Division Reports on Highways—  
 Continued.

(Chronologically listed)	Year	Month	Page
Also -----	1927	March	14-15
Also -----	1927	April	14, 15
Also -----	1927	May	14-15
Also -----	1927	June	14, 15
Also -----	1927	July	13-15
Also -----	1927	Sept.-Oct.	14
Dodge, R. E., Office Engineer of the Highway Commission Acceptance of (county) Bridges---	1914	July	9
Donner Grade, New Highway Ends Terrors -----	1924	Nov.	5
Donner Summit Bridge Marks Evolution of Overland Trail-----	1926	Sept.	3, 4
Crew Carry On Service Traditions.	1934	Feb.	29
Douglass, W. A., Assistant Bridge Construction Engineer			
Bixby Creek Bridge Completed----	1932	Oct.-Nov.	12
"M" Street Bridge Progress-----	1935	May	4, 18, 32
New Pulga Bridge Over Feather River a Spectacular Project-----	1932	Jan.	4
Solomon Canyon Cut-off to Save Thousands for Motorists----	1932	April	24-25
Steel Bridge Over Eel River in Humboldt County, Wins National Award -----	1935	June	2, 19
Dowell Bill Passes The Congress----	1926	April	5
Drainage Sumps.			
By E. Evers, District Maintenance Engineer -----	1930	Nov.	10
Drilling Efficiency, Light Welded Air Pipe Adds to-----	1934	July	8-9
Drinkhall, F. N., Locating Engineer, District I			
Kennett Dam Project-----	1935	June	16-17, 30
Redwood Highway Improvement Contrasts Old and New Standards -----	1932	Oct.-Nov.	18-19
Duffy, R. P., Maintenance Engineer, Division IV			
Battles With Dust-----	1926	Sept.	13
Dunkhorst, Paul			
Grade Crossings Eliminated (Seventeen) -----	1934	Jan.	24, 27
Union Avenue Grade Separation in Bakersfield Completed -----	1935	Aug.	4
Durkee, F. B. Editor "California Highways"			
California's Federal Aid Balance--	1924	Aug.	7-8
Federal Control of Interstate Highway Traffic-----	1925	May	3
Resigns as Editor of "Bulletin" (Appointed Nov. 1, 1923)---	1927	April	4

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Durkee, Frank B., General Right of Way Agent			
Highway Contracts, Wage Decision Releases \$2,000,000	1934	March	12, 26-27
Highway Rights On School Lands Secured -----	1931	Dec.	7, 36
Pioneer Days Linked to Present Day Road Building-----	1931	Aug.	9, 24-25
Dust Preventive			
Hygroscopic Salts Used on Northern California State Highways -----	1925	Jan.	7, 9
Problem, Division IV Tells of Battles with, By R. P. Duffy, Maintenance Engineer, Division IV-----	1926	Sept.	13
Dutton, J. W., General Superintendent, Division of Architecture			
State Safeguards Its Construction by Thorough Supervision in Field -----	1930	Feb.	8-9, 26-27
Dwyer, M. J., Assistant Bridge Designing Engineer			
Sorrento Canyon Overhead Grade Separation Involved Problems	1932	Oct.-Nov.	39

## E

Earth and Earthwork in Highway Construction, By C. S. Pope, Construction Engineer -----	1932	Sept.	16-17-26
Earth Mover, Unique One Used on Peninsula Highway -----	1927	Feb,	10, 11
Earthquake			
Lessons From the-----	1925	July	5
Long Beach, Slight Damage to Highways -----	1933	April	2, 10, 24
Earthquake-Proof Buildings Possible By C. H. Kromer, Principal Structural Engineer -----	1933	July-Aug.	21-23, 32
East Bay Highway and Tunnel, Preliminary Work Begins-----	1932	Jan.	10
East-of-the-Sierras Gap Closed, By F. G. Somner, District Engineer, District Nine-----	1931	March	9-12, 18
Eaton, W. D., Resident Engineer			
Concrete Aggregate Plant-----	1924	Nov.	8, 9
Edmonston, A. D., Deputy State Engineer			
Financial Aspects of Sacramento-San Joaquin Water Plan---	1931	Dec.	18-20
Also -----	1932	Jan.	18-20
Important Developments in State Water Plan -----	1932	March	4-5, 16-17

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Eichler, Alfred, Architectural Designer The Hillside College at Santa Barbara -----	1930	Oct.	4-7
El Camino Real, The Modern By Col. John H. Skeggs, District Engineer -----	1930	May	6-7, 32-33
Story of The Rebuilding, By A. E. Loder, Division Engi- neer, Division IV -----	1913	May	21-22
Electrical System in State Institu- tions, By Walter M. Callahan, Electrical Engineer, Division of Archi- tecture -----	1931	Feb.	11-12
Employment Measures Signed -----	1931	Jan.	10-11
Emulsified Asphalt, Lassen County Bridges Surfaced With, By H. Carter, Resident Engineer, Bridge Department -----	1925	Oct.	8
Endersby, V. A., Construction Engi- neer, Bridge Department Longest Steel Bridge in State Opened to Traffic (Over Santa Clara River, Ventura County) -----	1932	May	39
Engineer, State, Submits Biennial Report -----	1926	Dec.	3, 7-9
Engineering Department -----	1912	Oct.	7
Engineers			
Bathing Beach, Engineers Make Ocean Build a Mile -----	1934	May	12
California Highway Engineers At- tend Denver Convention ----	1927	Sept.-Oct.	4
Discuss Western Problems -----	1931	July	38
Highway District Engineers Hold Annual Conference -----	1931	Nov.	22-23
Job, By Governor Al Smith of New York -----	1926	March	4
U. S. and Western States Confer on Road Materials, By Thos. E. Stanton, Jr., Mate- rials and Research Engineer	1934	Nov.-Dec.	16, 28-29
Western States, Convention in Sac- ramento -----	1931	Nov.	6
Equipment			
Additional, Purchased for Mainte- nance of New Roads -----	1926	Jan.	9
Department to Finance Experiments By R. H. Stalnaker, Equipment Engineer -----	1926	Feb.	11
Functions Outlined By R. H. Stalnaker, Equipment Engineer -----	1924	May	3, 4
Headquarters Shop, Sprinklers Delivered -----	1924	May	13

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Equipment—Continued.			
Light Welded Air Pipe Adds Drilling Efficiency-----	1934	July	8-9
Made for State Use at Highway Shops-----	1929	Dec.	2
New Sprinklers for Highway-----	1924	Aug.	13
Report for 78th Fiscal Year, By R. H. Stalnaker, Equipment Engineer-----	1927	Aug.	11
Results of Tests of Air Blowers on Trucks in Service, By R. H. Stalnaker, Equipment Engineer-----	1925	April	3-5, 13
Up to Date Business Methods Bring About Complete Change, By R. M. Morton, State Highway Engineer-----	1926	Nov.	3, 9
Erosion of Fill Prevented by Inverted Pavement Section-----	1927	Feb.	13
Excavation by Means of Tunnel and Trapping, By B. H. Henry, Superintendent of Convict Camp 12-----	1928	Nov.-Dec.	20-21
Excavator Tried Out-----	1925	April	14
Expansion Joints, Divisions Try New Devices for Making-----	1926	Jan.	10-11
Expenditures Proposed for 1925, Listed-----	1925	May	9
Explosives Used in Highway Excavation, By C. S. Pope, Construction Engineer-----	1932	April	6-8
Exposition, California's Highways Invite Visitors-----	1927	June	5, 7
Nevada Transcontinental Highways	1927	June	3

## F

Fearnall, H. E., Resident Engineer New Salinas Bridge Has Novel Widening Features-----	1932	April	34-35
Feather River Canyon Blasting 100,000 Cubic Yards of Rock per Mile By Perry R. Lowden, Assistant District Construction Engineer-----	1935	March	2, 15, 30
Building Bridges and Tunnels on Highway By F. W. Haselwood, District Engineer-----	1935	Dec.	20
Lateral, Progress Made on, By H. S. Comly, District Engineer-----	1930	May	14-15

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Feather River Canyon—Continued.			
Routing Report, Complete Text of	1928	April	36-40
Three Tunnels Necessary on Route			
By F. W. Haselwood, District			
Engineer	1934	Aug.	2, 22, 31
“Federal Aid”			
American Banker's Body Endorses	1926	Feb.	2
Catechism, by U. S. Bureau of			
Public Roads	1925	Oct.	7, 9
Congress Urged to Appropriate			
\$125,000,000			
By Harry A. Hopkins, Chair-			
man, California Highway			
Commission	1934	Feb.	1, 10-11
Continuance of	1925	Oct.	3
Endorsed by W. M. Jardine, Secre-			
tary of Agriculture	1925	Sept.	3
For Highways Should Be Continued			
By Thomas P. Henry, President			
A. A. A.	1925	March	3
For Roads, Not Charity	1926	March	2
Funds Assured for Bay Bridge	1932	Oct.-Nov.	6-7
Highway Officials Stand Firm for	1925	Dec.	2
Highways	1927	Nov.	29
House Committee Favorable to New			
Bill	1926	March	7
Legislature Paves Way for State			
Water Plan	1933	April	12-13, 15
Legislature Urges More, for Public			
Land Roads	1929	May-June	26
Money for Highways Paid When			
Work Is Done	1931	Sept.	8
Projects Tabulated	1934	Oct.	9
Projects Totaling \$2,800,000 Under			
Way	1932	Sept.	14, 27
Report	1925	July	7
Resolutions Urge Bills	1932	Feb.	25
Road Funds: “Federal Aid”	1929	Jan.-Feb.	15
Routes in San Francisco Widened			
by State			
By Col. John H. Skeggs, District			
Engineer	1935	July	4, 11
San Pablo Improvement Project	1934	Feb.	24
Senator Oddie, Nevada, Urges More			
Aid for Roads	1927	Dec.	20, 21, 41
State Real Estate Men Favor	1925	Nov.	11
Victory Insures National Progress	1926	July	3
West Joins Nation in Demanding			
Continuance	1925	Nov.	3, 10
“Federal Aid” Balance in California			
By F. B. Durkee, Editor, “Calif-			
ornia Highways”	1924	Aug.	7-8
“Federal Aid” System			
Gravel Roads in	1928	Jan.	28
Gravel Roads Predominate	1927	June	11
Support, Congressional Committee			
Report	1926	March	8



	<i>Year</i>	<i>Month</i>	<i>Page</i>
Federal Emergency Relief Projects Tabulated-----	1935	Nov.	1, 8-9
Federal Fund Restrictions Holding Up Construction Program, By R. H. Wilson, Office Engineer	1935	July	26
Federal Funds Highway Program State Getting Under Way with \$15,234,290, By C. H. Purcell, State Highway Engineer-----	1935	Aug.	1, 6-7
Federal Highway Funds, California Gets \$7,932,206 for 1934-35, By Earl Lee Kelly, Director of Public Works-----	1934	June	1, 10-11
Federal Relief Funds Used for Fifty Highway Projects, By H. A. Hopkins, Chairman, California Highway Commis- sion -----	1935	Nov.	1, 8-9
Federal Road Policies-----	1927	Dec.	21
Fees Apportioned, Motor Vehicle---	1925	Sept.	8
Fence, New Guard, Tried in South---	1924	Sept.	10
Fire			
Barriers, Highways Become-----	1931	July	4-5
Brush Cleared from Highways Aid Prevention in the South----	1924	Oct.	7
Engines for Field and Forest-----	1929	July-Aug.	5, 25
Fight, State Crew Praised for----	1928	Nov.-Dec.	18, 24
Funds for Prevention-----	1932	March	21
Hazard, Reduced Along State High- ways By T. H. Dennis, Maintenance Engineer-----	1930	March	1-2, 24
Highway Department Removes Roadside Vegetation-----	1931	Sept.	23
Program, State Agencies Unite on Protecting Property Along State Highways from Fire-----	1931	July	2-3
Reduction Noted on State High- ways -----	1929	May-June	10
Roadside Clearing on State High- ways Pays Big Dividends, By M. B. Pratt, State Forester--	1931	Aug.	39
Throwing Fire from Moving Vehi- cles Prohibited; Governor Young Warns the Public---	1930	Nov.	11-12, 13
Toll: State Highway Prevention Work Reduces-----	1929	July-Aug.	14
	1931	Oct.	4
Fires			
Road Workers Unite to Fight-----	1931	June	6-7
State Forces Cooperate in Sup- pressing; Convicts Volunteer	1924	Sept.	5
Firestone Boulevard Bottleneck in Graham Abolished, By S. V. Cortelyou, District Engineer-----	1934	Oct.	6, 28

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Fiscal Agency Too Long Delayed----	1913	May	20
Fish			
Building Homes for the State's, By P. T. Poage, Assistant Archi- tect, Division of Architecture	1927	Dec.	4-5, 30
Hatchery at Lake Almanor, By Carl E. Berg, Engineer of Estimates and Costs, Divi- sion of Architecture-----	1931	April	9-10
Fletcher, A. B., State Highway Engineer			
Permanent Road Construction----	1914	July	12, 13
Problems of Highway Construction	1914	July	10, 11
Rights of Way (Read at Fourth American Road Congress, At- lanta, Ga., November 9-14, 1914) -----	1915	Jan.	7-8, 15
Types of Highway Construction---	1914	July	20
Flood			
Control: for Sacramento and San Joaquin Rivers -----	1929	Sept.	13
System Described in Sacramento By R. L. Jones, Deputy Engi- neer for Flood Control-----	1932	March	10, 28
In Imperial Valley, Inundates State Highway-----	1928	Sept.-Oct.	20
Lighting the State Capitol, By Walter M. Callahan, Electri- cal Engineer, Division of Architecture-----	1930	April	5, 6, 25
State Highway Defy Worst in Fif- teen Years, By R. C. Myers, Assistant Engineer-----	1934	Feb.	2, 14-15
Floods			
Division VIII Meets Emergency Caused by-----	1927	Jan.	10, 11
Fighting with Sacked Concrete, By C. H. Whitmore, District Engineer-----	1929	March-April	13-14
How California Prepares for By R. L. Jones, Deputy Engineer in Charge of Flood Control and Reclamation-----	1930	Jan.	1-2, 25-27
Flowers Planted by Road Foreman Win Acclaim -----	1935	Aug.	11
Fog, Perpetual, Maintained in Con- crete Curing Room, By F. T. Maddocks, Senior Physi- cal Testing Engineer-----	1934	Feb.	26-28
Foothill Boulevard Cut-off Relieves San Fernando Traffic, By S. V. Cortelyou, District Engineer-----	1934	Nov.-Dec.	20, 27
Foreign Publications in Africa and China Print Articles from "The Bulletin" -----	1927	Feb.	15

Foreign Publications in Africa and China Print Articles from "The Bulletin"—Continued.			
	<i>Year</i>	<i>Month</i>	<i>Page</i>
Control Project for Sacramento Proved Its Efficiency During April Storm-----	1935	May	6, 14, 15, 25
<b>Forest</b>			
Contract Let in District I, Redwood Highway Northern Link----	1924	July	7
Highway Projects in California Tabulated_	1924	Sept.	7
System in California Approved----	1925	July	6-7
Project to Open Smith River to Motorists-----	1925	Jan.	11
Road Reports-----	1924	Oct.	7
Road Systems of California By F. E. Bonner, District Engi- neer U. S. Forest Service---	1924	Sept.	6, 7
Service Officials-----	1924	Sept.	10
Forests, Highways Needed to Develop California's By Paul G. Redington, U. S. For- est Service-----	1924	Sept.	3, 4
Foreword. California Highway Bul- letin-----	1912	Oct.	2
Fratessa, Paul F., Attorney, Cali- fornia Highway Commission State Wins Important Lawsuits---	1924	Aug.	10
Fresno Traffic Circle-Subway Improve- ment, By Walter Beuthel, Assistant District Engineer-----	1932	July	2, 27

## G

<b>Gallagher, J. J., Assistant Bridge Engineer</b>			
Ben Ali Subway Construction-----	1927	Aug.	12
Bixby Creek Bridge to Be Longest Concrete Arch-----	1931	Nov.	34
Romance in the Life of a Bridge---	1932	March	43
Garden at Boulder Creek Attracts At- tention-----	1931	Sept.	35
<b>Garrison, Colonel Walter E., Director of the Department of Public Works</b>			
Asks U. S. Permit for San Fran- cisco-Oakland Bay Bridge---	1931	Jan.	12
Build Together for California-----	1931	Jan.	2-3
Department of Public Works Shows Record Breaking Year-----	1931	Dec.	1, 12-29
Don't Tamper With Gasoline Tax Money-----	1931	Feb.	8-9
Explains Building Policy-----	1931	June	11
Four Months Progress Under the Ten-year Plan-----	1932	April	1, 16

Garrison, Colonel Walter E., Director of the Department of Public Works—Continued.			<i>Year</i>	<i>Month</i>	<i>Page</i>
Highway Division Construction Program for 1932-----			1932	Jan.	1, 12-13, 43
Review of Half Year's Work-----			1932	July	1, 8
Gas Masks for Trucks					
Tests of Air Cleaners-----			1924	May	5
Gasoline Motor Vehicles, U. S. Su- preme Court Okehs Cali- fornia Tax Laws On-----			1930	Jan.	11, 13
Gasoline Tax					
Average in Nation-----			1928	May-June	26
Collection Laws Signed by Gov- ernor Rolph-----			1931	April	14
Don't Tamper With Gas Tax Money,					
By Colonel Walter E. Garrison, Director of the Department of Public Works-----			1931	Feb.	8-9
Funds Amounting to \$5,291,693 Al- located to Cities,					
By L. V. Campbell, Engineer of Cities and Cooperative Pro- jects-----			1935	June	8-9, 26, 27, 33, 36
Future,					
By F. G. Crawford, Professor of Political Science in Syracuse University-----			1928	May-June	22
How Cities May Use Additional \$3,000,000					
By L. V. Campbell, Engineer of Cities and Cooperative Pro- jects-----			1935	Aug.	20-21
Income Shows Loss for Biennium,					
By E. R. Higgins, Comptroller of the Department of Public Works-----			1933	Dec.	9
Increase for 1928 Shows 5.58%-----			1928	July-Aug.	17
Loss for 1933-----			1934	Feb.	18
Missouri Plans Gas Tax Fund-----			1924	Oct.	18
Popular Because Painless-----			1924	Oct.	15
Returns Show Sudden Drop-----			1935	May	20
Revenue-----			1927	Dec.	44
Revenues					
Continued Downward Trend-----			1933	Jan.-Feb.	9
Down for November-----			1935	Jan.	12
Dropped \$1,043,611 Since January First,					
By E. R. Higgins, Comptroller, Department of Public Works			1932	Sept.	19
Increased 6.8 per cent-----			1935	Sept.	19
States Levying-----			1924	Jan.	9
Memorializing Congress to Abol- ish June 30, 1935-----			1935	May	29

Revenues—Continued	<i>Year</i>	<i>Month</i>	<i>Page</i>
Tabulation of Income Prorated to Counties -----	1926	Sept.	9
To Make Possible Improved Sacramento Entrance -----	1924	Dec.	10
U. S. Reports on Collections-----	1929	May-June	25
Gasoline Tax Diversion			
Breeding Revolt,			
By C. M. Upham, Engineer-Director, American Road Builders Association-----	1935	Oct.	23
Warning Against, From U. S. Department of Agriculture-----	1935	Jan.	18
Will Deplete Highway Funds,			
By Earl Lee Kelly, Director of Public Works -----	1934	Nov.-Dec.	1, 12-13
Would Stop Highway Construction for Two Years,			
By Earl Lee Kelly, Director of Public Works -----	1935	May	1, 10-11
Gaviota Pass Widened and Paved,			
By G. A. Tilton, Jr., District Construction Engineer-----	1932	March	26
Geological and Laboratory Department	1912	Oct.	10
George, A. N., Resident Engineer Division VII			
Line and Grade Changes Important Factors in Reconstruction of Southern Highways -----	1925	Jan.	3-5
Germany Building Five Thousand Miles of Express Highway,			
By Ernest Zube, Junior Physical Testing Engineer -----	1935	March	26-28, 31
Geyserville Bridge Officially Opened--	1932	Dec.	39
Gibson, L. H., Division Engineer, San Luis Obispo			
Big Sur Contract Completed-----	1924	Nov.	10, 11
Building Truck Artery Through Santa Barbara -----	1934	July	4, 32
Coast Highway Project in Four Counties -----	1931	Dec.	22
Coast Route Improvement Between Arroyo Hondo and Gaviota--	1934	Sept.	10, 13
Nojoqui Grade Completion Eliminates Thirty-three Curves---	1935	Nov.	12, 22
Ortega Hill Relocation to Be Paved	1927	Aug.	4, 5
Realignment Nojoqui Grade-----	1935	April	10, 28
Relief Results From Relief Employment -----	1931	May	10
Rock Fill for Highway Built by Blast in Partington Canyon on San Simeon-Carmel Link of Roosevelt Highway-----	1935	Aug.	28
San Juan Bautista New Highway Opened -----	1935	Sept.	16
Santa Barbara "Through Traffic" Boulevard Officially Opened--	1934	Nov.-Dec.	6, 28

	Year	Month	Page
Gillis, R. M., District Engineer, District VI			
Deadman's Curve in Grapevine Canyon Abolished -----	1935	Aug.	2
Grapevine Relocation Opened to Public -----	1934	Sept.	8-9
Making Our Highways Smooth----	1930	June	2, 30
Trans-Sierra Highway Scouted----	1934	April	26-28
Glendenning, W. E., State Highway Arboriculturist			
Puncture Vine Control on the State Highways -----	1927	July	3
Gold, Tablet Marks Location of Discovery in Shasta County----	1932	Sept.	39
Gold Run-Airport Improvement on Victory Highway, By C. H. Whitmore, District Engineer -----	1934	Feb.	16-17, 22, 24
Golden State Highway, By E. E. Wallace, District Engineer -----	1930	July-Aug.	10-12, 28, 29
Tuolumne River Bridge Dedicated, By R. E. Pierce, District Engineer -----	1933	July-Aug	30-31
Governor's Interest in Highways, By W. F. Mixon, Secretary California Highway Commission--	1924	Jan.	6
Grade Crossing			
Accidents			
Decrease 6% in 1930-----	1931	March	26
Record for 1929-----	1930	April	27
Report -----	1928	May-June	19
Barstow Overhead, By A. H. Stover, Designing Engineer of Bridges-----	1930	June	3-4
Costs			
Data Is Asked on Distribution Practices in Other States---	1931	March	29
Formally Allocated -----	1928	May-June	23
Decision			
Epochal One Rendered by State Railroad Board -----	1930	January	12-13
San Juan Decision Is Announced	1930	April	8-9, 26
Driving Law Be More Vigorously Enforced -----	1931	Feb.	9
Eliminated, By Paul Dunckhorst, Assistant Bridge Construction Engineer	1934	Jan.	24, 27
On Old Trails Highway-----	1925	March	9
With Federal Funds, By George T. McCoy, Assistant State Highway Engineer---	1935	Oct.	1-2, 6-7
Study is Inaugurated-----	1931	May	21
Warning			
By J. G. Hunter, Transportation Engineer, California Railroad Commission -----	1930	March	11, 14
New, Tried in Joaquin County--	1924	July	6

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Grade Crossings			
Authority to Close, Upheld-----	1934	April	18
Carlsbad (Overhead) Grade Cross- ing -----	1927	Aug.	7
Dangerous Ones Eliminated by New Highway -----	1925	June	6
Elimination, a Grave Problem, By J. B. Woodson, Division Engi- neer, Fresno -----	1924	Aug.	9
Estimated Cost of Abolishment \$140,499,000, By Stewart Mitchell, Construction Engineer of Bridges-----	1933	March	32, 34
Gold Run to Airport Relocation Abolishes, By C. H. Whitmore, District Engineer -----	1932	Aug.	4, 17
McConnell Subway Has Largest Plate Steel Girders in State-----	1934	Sept.	30
Pismo, Elimination Planned-----	1925	Jan.	11
Progress In Separation-----	1928	May-June	12
Made on Elimination By L. D. Packard, Bridge De- partment -----	1926	April	3-4, 5
Requests for Railroad-----	1927	Dec.	27
Grade Separations			
Bakersfield, Union Avenue, Com- pleted, By Paul Dunckhorst, Assistant Bridge Construction Engineer	1935	Aug.	4
Charter Way at Stockton, a \$400,- 000 Project -----	1935	Dec.	6-7
Double Bridge on Super-Highway, By Charles W. Jones, Engineer, Bridge Department -----	1932	Jan.	22-23, 35
Salinas Subway Model-----	1935	March	4
Serra Grade, By L. M. Lawson, Assistant Dis- trict Engineer -----	1928	Sept.-Oct.	11-12
Agreement Approved -----	1927	Jan.	13
Sorrento Canyon Overhead, By M. J. Dwyer, Assistant Bridge Designing Engineer -----	1932	Oct.-Nov.	39
Sunset-Glendale Boulevard Com- pleted -----	1934	Oct.	24
Tabulation of Projects-----	1935	Oct.	4
Ventura Overhead Will Eliminate Dangerous Underpass By F. M. Barnes, Associate De- signing Engineer of Bridges-----	1934	May	24, 26
Grapevine Grade Relocation on Ridge Route -----	1932	Jan.	24
Opened to Public September 11th By R. M. Gillis, District Engi- neer, District VI-----	1934	Sept.	8-9

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Gravel and Crushed Rock Surfacing, Tests of Binder Materials For, By C. L. McKesson, Materials and Research Engineer-----	1926	Oct.	7
Green, F. M., Assistant Structural Engineer At Second Pillar of Architecture---	1931	Dec.	28
Griffin, A. D., Assistant Office Engi- neer Accidents Ended by Improved High- ways -----	1933	July-Aug.	16
Experimental Pavement Sections on Oxnard Route -----	1927	March	9-11
Spectacular Hauser Contract-----	1924	Oct.	10
Ventura County Reconstruction Project Completed -----	1926	Sept.	6-7
Grizzly Dome Drops 75,000 Yards of Rock Into Feather River, By F. W. Haselwood, District Engineer -----	1935	April	4, 28
Grumm, Fred J., Engineer of Surveys and Plans "And Aesop Said"-----	1925	July	5
By-Pass Routing Through Cities---	1931	Dec.	14, 26-27
Romance for the Civil Engineer---	1931	March	32, 33
Sight Distance as a Safety Factor in Highway Design-----	1926	Nov.	6-8, 9
Typical Road Sections-----	1929	May-June	4-8, 31
"You Have to Move Dirt to Build a Road"-----	1924	Feb.	5, 6
Guard Rail and Drainage Control Provided by Logs-----	1925	May	8
New, Saves Lives and Building, Authorized by R. M. Morton-----	1924	June	8
Gunston, George T., Duties as a Disbursing Officer-----	1931	Nov.	9

## H

Haley, J. J., Jr., Deputy Chief, Di- vision of Engineering and Irrigation The Story of California's Change to Irrigation from Dry Farming	1928	Jan.	10-12
Hamilton, Charles D., New Highway Commissioner -----	1935	Aug.	10
Harding, Paul O., Senior Bridge Field Engineer San Francisco-Oakland Bay Bridge Approach: Distribution ----	1935	March	16-17
Harnessing the Tides to Open a Bridge; Los Alamitos Span -----	1924	July	6



	Year	Month	Page
Harris, M. B., Member California Highway Commission, Appointed Member of California Highway Commission -----	1927	April	3
Ruts Can Not Hold California-----	1928	Feb.-March	1-2
Haselwood, F. W., District Engineer Beach Sand Successfully Used for Asphalt Surfacing -----	1932	Jan.	8, 29
Colfax-Gold Run Section Involves Heavy Grading -----	1926	Jan.	4
Feather River Highway: Bridge and Tunnels -----	1935	Dec.	20
Goodbye Water Break-----	1925	Oct.	10
Grizzly Dome Drops 75,000 Yards of Rock Into Feather River--	1935	April	4, 28
Improved Highways Aid Development at Lake Tahoe-----	1928	Nov.-Dec.	8-9, 25
Maintenance Program in Division III Shows Results -----	1925	Feb.	11
Promoted -----	1924	Aug.	11
Reconstruction Problems and Projects on Redwood Highway--	1931	May	16-18
Romance of Transportation--Part I -----	1927	April	6-7
Concluded -----	1927	May	6, 8
Shasta River Gorge Highway Boasts Five Bridges in Five Miles--	1932	March	2, 42
Something Different in Final Cross Sectioning -----	1924	Nov.	9
Three Tunnels Necessary on Feather River Canyon Route-----	1934	Aug.	2, 22, 31
Washing Away a Mountain in Path of Highway-----	1934	May	3, 28-29
"Hauser" Contract, The Spectacular, By A. D. Griffin, Resident Engineer -----	1924	Oct.	10
Hawley, George W. Deputy in Charge of Dams-----	1929	Oct.	5-6, 23
State Supervision of Dams-----	1930	June	5-6, 19
Henderlong, Carl A., Division of Architecture Science of Mechanical Ventilation--	1930	May	11, 34
Henry, Thomas P., President A. A. A. Federal Aid for Highways Should Be Continued -----	1925	March	3
Herz, James I., Deputy Director of the Department of Public Works Department of Public Works Spends \$66,000,000 to Relieve Unemployment Situation -----	1931	Nov.	1, 12
Knows His California-----	1931	Jan.	9
Hewes, Dr. L. I., Chief Engineer U. S. Bureau of Public Roads California's Highway Leadership--	1931	May	4-5

Hewes, Dr. L. I., Chief Engineer U. S. Bureau of Public Roads—Continued.			
	<i>Year</i>	<i>Month</i>	<i>Page</i>
Signs and Roadside Structures; Necessity and Methods of Control -----	1929	Oct.	9-10, 12
Higgins, E. R., Chief Accountant, Department of Public Works			
Gasoline Tax Income Shows Loss for Biennium -----	1933	Dec.	9
Revenues Dropped \$1,043,611 Since January First -----	1932	Sept.	19
Keeping Books on the Highway Budget -----	1928	May-June	11-12
Highway			
Accidents, Cause of Analyzed by U. S. Road Body -----	1928	Sept.-Oct.	19
Alignment			
Cloverdale -----	1926	Nov.	10
Alternate Ridge Route Completion Means Saving of \$1,369,000 Annually -----	1932	July	4, 16, 26-27
Bad Driving Shown as Big Cause of Accidents -----	1925	July	8
Beautification Aims Are Announced Bid Opening	1931	Feb.	36
Director Kelly Inaugurates Policy in Southern California -----	1934	June	20, 21
Board of Control Announces Plan for New Building to House Department in Sacramento --	1926	June	6
Bonds			
Sales of Highway, by State Treasurer -----	1913	May	2
Sold to Counties -----	1916	July	8
Boulevard Beautiful, Near Hopland	1913	May	20
Breaking San Francisco's State Highway Bottleneck -----	1927	Sept.	3, 5, 9
Broken Cut Slopes Save Grading Quantities -----	1926	Nov.	13
Budget			
For 1931-33 Biennium, Presented to the Legislature -----	1931	Jan.	8, 33-36
Projects for Next Biennium Total \$61,700,000 -----	1933	Jan.-Feb.	31-36
Budgeting			
Principles and Problems -----	1928	Jan.	14
Building,			
By C. D. Blaney, Chairman California Highway Commis- sion -----	1914	July	3, 4
Fund: Congress Adds Over \$6,- 000,000			
By Thos. E. Stanton, Jr., As- sistant State Highway Engi- neer -----	1928	July-Aug.	11
Methods, New and Old -----	1930	Sept.	11

Highway—Continued.	Year	Month	Page
While 6000 Automobiles Move Along the Road By C. N. Ainley, Resident En- gineer, Division of Highways	1927	Dec.	10, 11
Chiefs			
C. C. Carleton, Contracts and Rights of Way-----	1928	Feb.-March	14-15
C. H. Purcell, State Highway Engineer -----	1928	Feb.-March	14-15
Clear Lake Highway Completed-----	1930	Jan.	14
Coast Boulevard, Engineers Make Ocean Build Mile of Bathing Beach in Los Angeles County	1934	May	12
Construction			
Build Roads Now While Cost Is Low and Men Need Work----	1931	Sept.	25
Coachella Valley Dips and Wash- outs to be Eliminated by Modern Pavements, By E. Q. Sullivan, District Engineer -----	1932	Aug.	6-7
Designs In, New-----	1930	April	1-2, 22
New Problems By C. S. Pope, Chief Construc- tion Engineer -----	1928	May-June	9, 24-25
Problems of, By A. B. Fletcher, State High- way Engineer -----	1914	July	10, 11
Selection of Rock and Gravel-----	1926	April	6-10, 11
Through Famous Malibu Rancho By C. P. Montgomery, Resident Engineer, Division VII-----	1927	Jan.	6-7, 12
Types of, By A. B. Fletcher, Highway Engineer -----	1914	July	20
Ventura Coast, Building Steel Seawalls On, By R. C. Myers, Assistant En- gineer, District VII-----	1934	Sept.	4, 20
Where Are We Drifting? By R. M. Morton, State High- way Engineer -----	1924	Aug.	3, 4-6
Construction Program			
Cooperative Plan State Highway Being Built Through Cities	1932	Feb.	14-15, 20-21
Development Discussed at Annual Conference -----	1931	Dec.	35
Figures Tell Story of Year's Work -----	1931	Nov.	13
For 1932, By Col. Walter E. Garrison, Director, Department of Pub- lic Works -----	1932	Jan.	1, 12-13, 43
Heavy Work On Southern Roads Joint District Cooperation. Mari- copa-Ventura Highway	1929	Nov.	11-12
Largest -----	1932	April	4, 17
Next Ten Years in Building-----	1930	Dec.	3-4, 17

	Year	Month	Page
Highway—Continued.			
Of the State,			
By C. H. Purcell, State Highway Engineer -----	1928	Nov.-Dec.	2-3
State to Spend More for Highways in 1930 -----	1930	April	15
Ten Year Plan Involves Large Savings -----	1932	Feb.	1, 29
What Is Done With the California Dollar -----	1931	Sept.	32-33
Convention Secured for California, By Harvey M. Toy, Chairman California Highway Commission -----	1924	June	8
County Cooperation Speeds Jobs in Counties -----	1924	Oct.	11
Cross-section of Thought on Problems Affecting All States, ---	1930	Jan.	23-24
Dedications			
Alto-Waldo Unit of Route No. 1 Redwood Highway Over Richardson Bay, Officially Opened, Earl Lee Kelly, Chairman California Highway Commission, Presiding -----	1931	Dec.	38
Anaheim Improved Link Officially Opened, Governor Rolph Presiding ---	1934	March	20
Bakersfield By-Pass Relocation Opened With Ceremonies ---	1934	June	4, 22, 31
Ben Bow-Garberville Link of Redwood Highway -----	1935	June	6, 18
Burney-Fall River Mills Sector of the Redding-Alturas Highway Opened. Earl Lee Kelly, Director of Public Works Representing Governor Rolph -----	1934	May	6, 32
Cloverdale-Hopland Project Opened -----	1934	Aug.	4-6, 26
Foothill Boulevard Highway in Claremont, Los Angeles County, Opened With Celebration -----	1931	Feb.	28
Long Beach-Huntington Beach and Newport Beach Coast Highway Link Opening Celebrated in the South -----	1925	March	10
Los Gatos-Santa Cruz Cut-Off Earl Lee Kelly, Director of Public Works, Led Caravan over New Route. -----	1934	Oct.	12, 26
Maricopa-Ventura Link Completion Celebrated by Barbecue -----	1933	Oct.-Nov.	6, 28
Montgomery Pass, Between Nevada and Bishop, California, S. W. Lowden, District Engineer, Officiating -----	1935	Nov.	30

## Highway—Continued.

	Year	Month	Page
Pacific Highway Span Over Cottonwood Creek. Earl Lee Kelly, Chairman, California Highway Commission, Representing Governor Rolph, Officiated -----	1931	Feb.	7, 19
Pickford, Mary, and Fairbanks, Douglas, Help Dedicate Opening of Newport-Laguna Unit of Oxnard-San Juan Capistrano Highway -----	1926	Nov.	4, 5
Point Loma (El Camino Cabrillo) Officially Opened, Earl Lee Kelly, Director of Public Works, Officiating for Acting Governor Merriam, By W. L. McFadden, Associate Highway Engineer	1934	Aug.	10
Pomona Links of New Highway, and Armory, By A. T. Richardson, Chamber of Commerce Road Committee -----	1933	July-Aug.	18, 20
Prunedale "Cut-off" Opening Ceremonies Conducted by Earl Lee Kelly, Chairman California Highway Commission -----	1932	Aug.	2, 22
Redlands and Beaumont Celebrate Opening of Unit On Imperial Valley Trunk Highway -----	1925	Aug.	6
Redwood Highway Sector, Two States Join in Opening Ceremonies -----	1935	Sept.	2, 18
Rumsey-Clear Lake Highway Officially Opened by Governor Merriam -----	1934	Aug.	28
San Bernardino Viaduct on Mount Vernon Avenue Completed and Opened -----	1934	June	6
Sand Hills Project, Spectacular, Opened to Traffic -----	1926	Aug.	4, 5
San Juan Grade Project (Prunedale Cut-off) Opened to Public, By L. H. Gibson, District Engineer -----	1935	Sept.	16
Sausalito-Waldo Point. Great Caravan Officially Opens ---	1934	Aug.	4-6, 26
Sepulveda Boulevard Link Opened Officially by Governor Merriam -----	1935	Nov.	4, 18, 30
Smith River Highway Opened (Crescent City-Grants Pass)	1925	April	8
Sutter Basin Dedicated, Governor Rolph Formally Opens	1931	Nov.	16

Highway—Continued.	<i>Year</i>	<i>Month</i>	<i>Page</i>
Taft Highway Relocation Celebrated -----	1935	June	20
Truckee River Highway to be Dedicated in June-----	1926	May	5
Waterman Canyon Road (San Bernardino Mountains Rim-O-The-World Drive to Lake Arrowhead) Opened -----	1933	Oct.-Nov.	10, 27
Deficit Threatened by Gas Tax Shrinkage, By George T. McCoy, Assistant State Highway Engineer-----	1934	Mar.	1, 10-11
Desert Conquered to Give Imperial Valley Roads, By Ira G. Thomas, Maintenance Engineer -----	1932	Jan.	38-39
Desert Trail Becomes a Modern Highway -----	1933	March	22-23, 30
Development			
Evolution of the Highway of the Missions By H. T. Avery, Office Engineer, Division V-----	1924	Oct.	12, 13
Present Status in California, By C. H. Purcell, State Highway Engineer -----	1928	May-June	3-4, 22
Typical Case, By E. J. Bassett, District Office Engineer -----	1929	Dec.	8-9, 32, 34
Dixon Rerouting to Be Done This Summer, By R. E. Pierce, Acting Division Engineer, District X--	1927	June	15
Dollar			
Ninety Per Cent Goes to Workers Spreading to 50,000 Californians Through 12,000 Workers, By Morgan Keaton, Assistant Deputy Director of Public Works -----	1933	Jan.-Feb.	2, 18
Donner Summit Snow Crew Carries on Traditions of the Highway Service -----	1934	Feb.	29
Empire Highway Developer, By R. J. Anderson, Secretary of the Shasta County Promotion and Development Association	1914	July	7
Europe, Super Highway By C. L. McKesson, Material and Research Engineer, Division of Highways -----	1928	April	11-12, 24
Expenditures as Compared With Other States, By C. H. Purcell, State Highway Engineer -----	1929	March-April	1-3
Farm Tractor Causes Damages On Feather River Lateral Route Decision -----	1934	Nov.-Dec.	14
	1928	Feb.-March	24-25

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Highway—Continued.			
Features of the State, By N. D. Darlington, Member, California Highway Commis- sion -----	1914	July	9
Final Cross Sectioning, Something Different, By F. W. Haselwood, Acting Di- vision Engineer -----	1924	Nov.	9
“Finance” Puts on Long Pants, By Corning DeSaules, Deputy Director of Public Works---	1928	Feb.-March	18
Flooding, San Joaquin Farmers Pay Fines For -----	1925	Aug.	8
Forest Funds Builds Truckee-Tahoe Highway -----	1927	Jan.	9
Funds to Provide 4,510,100 Man- Days Work, By Governor Frank F. Merriam---	1934	July	1, 10
Good Roads in California, Eighteen Years of -----	1927	Dec.	14
Graders Purchased Wholesale-----	1924	May	7
Grading, Additional, Finished on Southern Coast Route-----	1925	June	4
Groyne System Adopted in Widen- ing Coast Highway, By S. V. Cortelyou, District En- gineer -----	1932	April	2, 16
Headquarters Shop and Maintenance Yard Work Appraised By Adjutant General-----	1924	May	12
Heads, Seminar of-----	1914	July	11
History, Twenty Years of, By Earl Lee Kelly, Chairman, California Highway Commis- sion -----	1932	July	6, 14-15
Improvements			
Aid Development at Lake Tahoe, By F. W. Haselwood, Dis- trict Engineer -----	1928	Nov.-Dec.	8-9, 25
Billion Dollars Spent-----	1927	July	11
Consisting of 2950 Miles Built in Nineteen Months, By George T. McCoy, As- sistant Highway Engineer---	1935	Feb.	1, 10-11, 14
Ends Accidents, By A. D. Griffin, Assistant Office Engineer-----	1933	July-Aug.	16
General's Highway-----	1925	Oct.	3, 6
Noted in Southern Counties---	1935	Oct.	32
Put Under Way in October---	1935	Nov.	15
Quality and Design Increase Strength of Pavements, By R. M. Morton, State Highway Engineer -----	1925	Dec.	3, 12
Income for Reconstruction and Maintenance for 1924-----	1924	Dec.	5

Highway—Continued.	Year	Month	Page
Inspection of Highways by Surveyor, By W. L. Luning, County Surveyor of Tehama County	1914	July	7
International Pacific, Means Great Trade Channel, By Justus F. Craemer, As- sistant Director of Pub- lic Works-----	1935	Feb.	16-17, 29
Inyo County Development, By F. G. Somner, District Engineer-----	1929	Jan.-Feb.	3, 17
Jobs in 1933 Provided Livelihood for 4,000,000 People-----	1933	March	20
Junipero Serra Boulevard Com- pleted, District IV-----	1934	Oct.	2, 16
Kings River Canyon Highway Being Constructed -----	1932	June	4
Kit Carson Trail Oiled-----	1932	April	12
Line and Grade Changes Import- tant Factors in Reconstruc- tion of Southern Highway. By A. N. George, Resident Engineer, Division VII---	1925	Jan.	3-5
Links Through Cities Under Cooperative Plan -----	1932	Feb.	14-15, 20-21
Materials-----	1915	Jan.	6
Metal Crib Retaining Walls Built on Oak Flat Road, By C. E. Bovey, Maintenance Engineer, District X-----	1932	Dec.	32
Monterey County Reconstruction on Twenty Miles of Road	1933	March	13
Monuments Make Permanent Boundaries -----	1914	July	13
Mother Lode Highway, Lore and Beauty Made More Easily Accessible, By R. E. Pierce, District Engineer-----	1932	Sept.	8, 23, 40
Mountain Springs Grade, By S. V. Cortelyou, Division Engineer, Division VII---	1927	July	6
"Not an Ugly Highway in California," By Frank A. Tetley, Mem- ber, California Highway Commission -----	1931	April	1-2, 19
Office Building in San Diego Nearing Completion -----	1935	June	19
Officials of the Nation to Be Entertained by California November 17 to 20-----	1924	Oct.	3-4
Organization Passes Its 20th Birthday, By C. C. Carleton, Chief, Divi- sion of Contracts and Rights of Way-----	1932	Jan.	14-15



Highway—Continued.	Year	Month	Page
Plans Prepared -----	1914	July	15
Policies			
In California,			
By B. B. Meek, Director of			
Public Works-----	1928	April	18-19
Law Changes-----	1925	June	3, 4, 5
Officials Express Views on----	1928	Nov.-Dec.	23-24
Pronouncement Made by Asso-			
ciation of State Highway			
Officials-----	1930	Dec.	18-20
Poor Roads and Their Cost-----	1927	July	10
Problems of Reconstruction En-			
countered on the Sacra-			
mento-Stockton Road,			
By J. C. McLeod, Division			
Engineer-----	1924	Sept.	8, 11
Program with \$15,234,290 Federal			
Funds Getting Under Way,			
By C. H. Purcell, State			
Highway Engineer-----	1935	Aug.	1, 6-7
Projects			
Division V Commended-----	1926	Jan.	15
Fourteen Major Ones Adver-			
tised-----	1932	July	22
Grade Crossings—Thirty-nine			
Crossings to Be Eliminated			
with Federal Funds,			
By Geo. T. McCoy, Assistant			
State Highway Engineer--	1935	Oct.	1, 6, 7
In Four Coast Counties,			
By L. H. Gibson, District			
Engineer-----	1931	Dec.	22
Put Under Way in November			
Provided 8,000,000 Man-			
Hours Work,			
By Earl Lee Kelly, Director			
of Public Works-----	1935	Dec.	1, 12
Spring Work (Seventeen Proj-			
ects) Under Way-----	1933	March	14-16
Tabulations in Revised Budget	1935	Sept.	9-12
Protection from			
Moving Equipment-----	1914	July	2
Ocean Waves-----	1924	Aug.	4
Overloads-----	1932	July	9
Puncture Vine,			
By W. E. Glendenning, State			
Highway Aboriculturist----	1927	July	3
Realignment			
Cajon Pass Develops a "Mag-			
netic Hill" Curiosity-----	1932	Aug.	12
Reconstruction			
Coast Route Improvement Be-			
tween Arroya Honda and			
Gaviota-----	1934	Sept.	10, 13

Highway—Continued.	Year	Month	Page
Relocation			
Grapevine Grade Unit of Ridge Route, By E. E. Wallace, District Engineer-----	1932	Jan.	24
Half Moon Bay Reduces Curves and Distance, By A. W. McCurdy, District Office Engineer -----	1935	Dec.	2, 18
Kennett Dam Project, Highway and Railroad, By F. N. Drinkhall, District Locating Engineer-----	1935	June	16-17, 30
Ortega Hill-----	1926	Feb.	3
Paving, By L. H. Gibson, District Engineer, District V-----	1927	Aug.	4, 5
Redwood Puncheons Used for Fills on Redwood Highway, Del Norte County, By J. W. Vickrey, District Engineer-----	1934	March	4, 19, 29
Santa Ana Canyon Sulphur Slide Eliminated by New Highway-----	1935	Aug.	26
Santa Barbara, Truck Artery Being Built Through, By L. H. Gibson, District Engineer, District V-----	1934	July	4, 32
Torrey Pines Grade Eliminated by Relocation, By R. C. Myers, Assistant Engineer, District VII---	1932	Dec.	10, 16
Reorganization			
Recent Work, By R. M. Morton, State Highway Engineer -----	1924	Feb.	3, 4
What It Means to the Highway Research Board Reports on Study of Low Cost Roads-----	1927	July	3
Resigning, Not Contemplated---	1928	Jan.	26, 27
Resolution Is Important Step Forward (Text of Resolution), By B. B. Meek, Director of the Department of Public Works-----	1925	Sept.	10
Resources for 1934-----	1929	March-April	5, 10
Review of Half Year's Work, By Walter E. Garrison, Director of Public Works---	1933	Dec.	17
Rights of Way Kept Free from Billboards -----	1932	July	1, 8
Rights on School Lands: How Secured, By Frank B. Durkee, General Right of Way Agent--	1928	July-Aug.	12
	1931	Dec.	7, 36

Highway—Continued.	Year	Month	Page
“Rim-of-the-World” Drive; Improvements for, By E. Q. Sullivan, Division Engineer, Division VIII—	1927	May	7
Road Completed Through Heavy Redwood Timber in Humboldt County, By M. H. Hubbs, Resident Engineer-----	1928	Nov.-Dec.	16-17
Road Development in California in 1928, By C. H. Purcell, State Highway Engineer-----	1929	Jan.-Feb.	4, 13
Rock Guard Rail for Mountain Roads-----	1924	July	5
Ruling by U. S. Webb, Attorney General, Aids Highway Work-----	1927	April	11
Safety Devices on Highway, State Expends \$220,699 Annually, By W. A. Smith, Maintenance Engineer-----	1932	July	36
San Simeon-Carmel Bixby Bridge Completed-----	1922	Oct.-Nov.	12
Malpaso Creek Arch-----	1935	Sept.	13
Santa Ana River Bank Protection Work-----	1928	May-June	10, 25
Santa Barbara, Truck Artery Being Built Through By L. H. Gibson, District Engineer, District V-----	1934	July	4, 32
Separating Highways and Railroads; How California Is Solving the Problem, By Harry McClelland, Right of Way Agent, Division of Highways-----	1929	Nov.	3, 4, 5
Shasta Gorge Highway Boasts Five Major Bridges in 4.5 Miles, By F. W. Haselwood, District Engineer-----	1932	March	2, 42
Sight Distance as a Safety Factor in Highway Design. By Fred J. Grumm, Engineer of Surveys and Plans-----	1926	Nov.	6-8, 9
Sign Law Enforcement Campaign Begins, By Morgan Keaton, Assistant Deputy Director of Public Works-----	1934	Feb.	12, 21
Slide of 200,000 yards on Highway, By Col. J. H. Skeggs, District Engineer-----	1935	April	22

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Highway—Continued.			
Slogan is "500,000 Men at Work by Christmas,"			
By Eric Cullenward, Deputy Director of Public Works---	1933	Sept.	1, 6-7, 28-32
Speed-Up Program Under Way, By Earl Lee Kelly, Director of Public Works -----	1934	April	1, 10-11
System			
California's Greater, By H. A. Hopkins, Chairman, California Highway Commis- sion -----	1933	July-Aug.	1, 10-11, 17
Catechism,			
By C. C. Carleton, Chief, Di- vision of Contracts and Rights of Way-----	1932	March	6-7, 18
Cost to the Average Motorist---	1929	July-Aug.	1, 18
Improvements Through March Contracts -----	1930	April	23
Synopsis of Report on Orderly Additions -----	1930	July-Aug.	3-4, 27
Total 382,668 Miles With 32 Per Cent Pavement-----	1935	Jan.	40
Tehachapi Flood Damage to High- way and Bridges \$45,000.			
By Walter Beuthel, Assistant District Engineer-----	1932	Oct.-Nov.	4, 38
"The Why" of Coordination, By C. C. Young, Governor of California -----	1927	Nov.	2, 4
Torrey Pines Grade Eliminated, in San Diego Coast Road Im- provement,			
By R. C. Myers, Assistant En- gineer, District VII-----	1932	Dec.	10, 16
Trans-Sierra Highway Scouted to Join Owens and San Joaquin Valleys,			
By R. M. Gillis, Acting District Engineer -----	1934	April	26-28
Trees Planted by Santa Barbara, 20 Miles of-----	1928	April	21
Washing Away a Mountain in Path of Highway,			
By F. W. Haselwood, District Engineer -----	1934	May	3, 28-29
Weed Mowing Improves Appear- ance of Highway-----	1925	June	15
Whittier Boulevard, California's Most Costly One-----	1924	Nov.	4
Widening, in Alameda County, By A. W. McCurdy, Assistant Division Engineer, Division IV -----	1925	Jan.	10
Work			
During May -----	1930	June	21-23
In California Counties-----	1927	Dec.	31-36

Highway—Continued.	<i>Year</i>	<i>Month</i>	<i>Page</i>
In California for 1933, By Earl Lee Kelly, Director of Public Works-----	1934	Jan.	2-3, 14-15
In County-----	1912	Oct.	2
Over State-----	1929	Oct.	28-34
Put Under Way During July--	1935	Aug.	23
Highways			
Advisory Committee Organized--	1924	March	5
Arboriculturist Employed by Highway Commission -----	1924	March	6
Are California's Arteries, and Water Is Its Life Blood, By Edward Hyatt, Jr., State Engineer of California-----	1927	Nov.	10-11, 34
Bridges Needed On System-----	1924	April	16
Budgeting Is Urged For-----	1931	March	31
Building With General Maintenance Funds, By F. G. Somner, Division Engineer, Bishop-----	1926	Jan.	3, 11
California's Highways -----	1915	Jan.	10, 11
Safety in Motor Roads-----	1927	May	2
Into State Highways, By B. B. Meek, Director of the Department of Public Works	1929	July-Aug.	9-10, 29
Calcium Chloride Tests for Curing Concrete Pavements-----	1924	June	10
Civilizing Influence, By Sam Tate, Chairman of Highway Board, State of Georgia -----	1930	June	31
Closing the Gaps, By Thomas H. MacDonald, Chief of the U. S. Bureau of Public Roads -----	1927	July	8
Construction Work in 1933 Tabulated -----	1934	Jan.	3
Convention Inspiration to West--	1924	Dec.	3
Convicts Pioneer Road Building in Mendocino County-----	1924	June	9
Earned \$54,000,000 on Investment, By T. H. Dennis, Maintenance Engineer -----	1932	May	1, 9-10, 12
Earthquake Does Slight Damage, By S. V. Cortelyou, District Engineer -----	1933	April	2, 10, 24
East Bay Important Progress on, By Colonel John H. Skeggs, District Engineer -----	1930	July-Aug.	14, 23
Equipment in the Divisions-----	1924	May	13
Purchased For -----	1924	May	6
Four Hundred Sixty-four Miles Constructed in 1932-----	1932	Dec.	1, 8-9
Fires On; Commission Joins U. S. Forest Service Fighting--	1924	May	12

Highways—Continued.	Year	Month	Page
“Forgotten Man” Employed on Highways,			
By Earl Lee Kelly, Director, Department of Public Works	1933	Dec.	1, 8
Grades of Mountain,			
By F. G. Somner, Division Engineer	1914	July	14
Headquarters Shop and Maintenance Yard; Amount Invested In	1924	May	7
How Land Is Secured	1935	Aug.	16-17
Interstate Connections and Other Major Projects	1926	Aug.	3
Legislation Analyzed	1935	Sept.	14-15, 22
Maintenance Budget	1924	March	4
Making Safe for Traffic	1924	April	7
Money Invested in Streets and Highways, Forty Billions	1933	April	16
Mountain Highways in California, By Fred S. Moody, Member of the California Highway Commission	1927	Dec.	1-2, 24
Municipalities and State Cooperate in Building,			
By C. H. Purcell, State Highway Engineer	1931	Oct.	5, 32-33
New			
Law Big Aid in Keeping Highways Attractive	1929	Oct.	23
Specifications For,			
By R. M. Morton, State Highway Engineer	1924	Jan.	8
News of California	1927	Nov.	20-22
Nine Added to System	1925	June	5
Numbered and Signed,			
By T. H. Dennis, Maintenance Engineer	1934	Aug.	20, 32
Past, Present, Future,			
By Ralph Bull, Chairman Highway Commission	1927	Nov.	6
Price We Pay for Highways	1929	May-June	9
Reasons for Creations of New Divisions,			
By Thos. E. Stanton Jr., Assistant State Highway Engineer	1924	Feb.	9
Rebuilding	1927	Feb.	3
Report on State Highways,			
By B. B. Meek, Director of the Department of Public Works	1930	July-Aug.	2
Roster of	1924	Feb.	2
Routes 1-9 Surveyed	1912	Oct.	11
Safety Increased,			
By R. M. Morton, State Highway Engineer	1926	May	3-4, 5
Scarifying Oil Macadam Surfaces in Los Angeles County	1924	Oct.	18

Highways—Continued.	Year	Month	Page
Seawalls Replace Wooden Trestles on Ventura Coast-----	1926	Nov.	5
Silica to Be Used-----	1927	Aug.	13
Six thousand Six hundred Miles of Additional Roads Recommended to Legislature-----	1933	April	1, 17, 26-32
Slurry Base Construction on Desert Roads, By C. S. Pope, Construction Engineer -----	1930	Sept.	7
Smoothing Our Highways, By R. M. Gillis, Assistant Construction Engineer -----	1930	June	2, 30
Special Advisory Committee Appointed by Governor Richardson -----	1924	Feb.	5
State Aid by Joint County Highway Districts -----	1925	June	5
Leads in Use of Prison Labor on Roads-----	1924	June	3-5
Storms Damage Highways in August -----	1935	Sept.	6-7, 26-27
Study Launched, Special Highway -----	1929	July-Aug.	19
Traffic Census Planned-----	1924	March	5
Starts -----	1924	April	4
Tree Maintenance -----	1924	Feb.	6
Maintenance on -----	1924	March	6
Trees, Care of-----	1924	June	16
Typical Road Sections, By Fred J. Grumm, Engineer of Surveys and Plans -----	1929	May-June	5-8, 31
Vision on Highways Needed, By J. P. Baumgartner, Member of California Highway Commission -----	1928	Jan.	3-4, 29
Weed Control-----	1928	Jan.	32
What Are Our State Highways Worth, By Earl Lee Kelly, Chairman of the California Highway Commission -----	1931	March	1
When Bowling Along Highways He Gives Cheers for Builders, By J. A. Gregory, Right of Way Agent, District VIII-----	1931	July	26
Widening and Thickening of State Highways, By R. M. Morton, State Highway Engineer -----	1925	Nov.	4, 5
Wider Pavement Policy-----	1927	April	10
Rights of Way-----	1924	June	8
Work on Highways Amounting to 12,900,000 Man Days Assured for Next Three Years-- By Governor Frank F. Merriam -----	1934	Oct.	1, 8

	Year	Month	Page
Hillesoe, George F., Assistance Maintenance Engineer			
Twenty Day Storm: Roads Kept Open -----	1935	Feb	2, 28
Hodges, J. B. District Construction Engineer,			
Redding-Alturas Lateral Realignment -----	1934	Jan.	16, 28
Holiday Greetings to All, By B. B. Meek, Director of Department of Public Works---	1928	Nov.-Dec.	Inside cover
Hollister, L. C., Associate Bridge Designing Engineer			
Old Bridge Modernized by Turning Upside Down -----	1932	Dec.	22
Hopkins, H. A.			
Appointed Member, California Highway Commission -----	1931	Jan.	5
Attends National Convention: Problems Discussed-----	1933	Oct.-Nov.	8-9, 25-27
Biennial Budget and Major Highway Construction Projects Allotted \$26,498,980 -----	1935	Jan.	1, 23-35
Chairman of Highway Commission-California's Greater Highway System -----	1932	Oct.-Nov.	3, 21
"Federal Aid": Congress Urged to Appropriate \$125,000,000 ---	1933	July-Aug	1, 10-11, 17
Federal Relief Funds Used for Fifty Highway Projects -----	1934	Feb.	1, 10-11
Given Appreciation Banquet-----	1935	Nov.	1, 8-9
Officials of State Highways in Convention Urge Reforms-----	1934	April	31
Recommends 31 Additions to Road System -----	1934	Nov.-Dec.	8-9, 19, 22
Workings of Highway Commission	1932	Sept.	1, 10-11
Hopland, A Beautiful Boulevard Near	1931	July	17-19
Hornitos, "Ghost Town" Gets \$70 Gas Tax,	1913	May	20
By R. E. Pierce, District Engineer	1935	Jan.	10
Hospitals			
Comparative Data Shows California Building Costs Reasonable---	1931	May	15
How California Plans Them, By Carl E. Berg, Engineer of Estimates and Costs, Division of Architecture -----	1929	Nov.	14-15, 26
Plans for New State Hospital Near Camarillo, By George B. McDougall, State Architect -----	1932	May	20-21
Howe, John W., Appointed Secretary to California Highway Commission, and New Editor Bulletin to Succeed Eric Cullenward -----	1931	Sept.	21



	Year	Month	Page
Howe, Walter C., Division Engineer Acceptance of (County) Bridges---	1914	July	9
Humboldt Bay Pavement Leads State for Strength, By H. C. Ingle, Resident Engi- neer -----	1925	May	4, 5
Huntington Beach to Newport, New Coast Highway Breaks Trail Along Ocean, By C. P. Montgomery, Resident Engineer -----	1924	Dec.	4, 5
Hutchins Oak Majestic Oak Signally Honored----	1928	Nov.-Dec.	7
Hveem, F. N., Assistant Testing Engi- neer, Research Department, Determination of Oil Content for Road-mixes -----	1932	Oct.-Nov.	8-11, 22-23, 28
Hyde, Arthur M., Secretary, U. S. Department of Agriculture, Offers Three Definite Sugges- tions for Billboard Curb----	1929	Nov.	12
Hyatt, Edward, State Engineer, Dam Building Program in Southern California Proposes Expendi- ture of \$31,904,000-----	1932	Aug.	1, 10, 14-15
General Water Supply Conditions Best Since 1927-----	1932	April	14-15, 20-21
Highways are California's Arteries, and Water Its Life Blood---	1927	Nov.	10-11, 34
Map Containing 7000 Miles for Topographic Program With--	1932	Oct.-Nov.	29
Maximum Conservation of Water With Reference to the Cali- fornia Plan -----	1930	May	1-2, 17-19, 25-26
Hydraulic Cutting Costs 2.26 Cents Per Yard, By F. W. Haselwood, District Engineer -----	1935	May	8, 16-17, 25

## I

In Memoriam			
Araujo, Edward A., Construction Department -----	1924	July	9
DeSaules, Corning, Deputy Director, Department of Public Works	1930	Dec.	1
Fearnall, Harry E., Resident Engi- neer, Bridge Department----	1934	Feb.	32
Fletcher, Austin B., State Highway Engineer, Highway Builder, By C. C. Carleton, Chief of the Division of Contracts and Rights of Way-----	1928	April	1, 2
Miller, Harlan D., Chief of the Bridge Department -----	1926	Oct.	13

In Memoriam—Continued.	Year	Month	Page
Pettus, Jesse, District VII, Maintenance Foreman -----	1928	April	24
Rais, Frank E., Division II, Employee in Maintenance Department -----	1926	April	13
Rolph, Governor James, Jr.-----	1934	June	2
Schmuck, Albert W., Highway Foreman, Division VII-----	1927	April	13
White, Henry C., Assistant Operator of Plow -----	1935	July	32
Incendiarism—Secret Service Corps to War On -----	1931	Sept.	2
Indio Cut-off Completed and Opened, By W. L. McFadden, Resident Engineer -----	1935	July	20
Link Begun-----	1934	Sept.	14-15, 17
Ingels, Ray, Former Senator, Becomes Highway Commissioner-----	1935	June	10
Made Director of Motor Vehicles---	1935	Aug.	10
Ingle, H. C., Resident Engineer, Humboldt Bay Pavement Leads State for Strength-----	1925	May	4, 5
Insane, Caring for The, By W. K. Daniels, Deputy Chief, Division of Architecture---	1928	Feb.-Mar.	11-12, 29
International Road Congress; Californians to Report for-----	1925	May	2
International Roads—World Peace Through -----	1927	April	11
Interstate Route Completion Urged by Secretary Jardine-----	1927	Jan.	4-5
Irrigation District Financing and Refinancing Recommendations-- In California, By A. N. Burch, Division of Water Resources-----	1931	Feb.	16-17, 27
	1930	Nov.	3, 18-19

## J

James, W. B., Assistant Construction Engineer, Bridge Department Bridges of Ridge Alternate Typifying Latest Engineering Advances-----	1933	March	4, 17
Jardine, W. M., Secretary of Agriculture			
Coordinating Transportation Facilities-----	1926	Dec.	9
Endorses Federal Aid for Highways	1925	Sept.	3
Thanks Chairman for Cooperation in Road Construction-----	1926	Jan.	2
Urges Completion of Interstate Routes -----	1927	Jan.	4-5

	Year	Month	Page
Johnson, Governor Hiram W., Hears the Complaining Contractors	1913	May	11-12
Joint Highway District No. 8 Con- tributes \$30,000	1928	Sept.-Oct.	12
Jones, C. W., Bridge Construction Engineer, Southern District			
Building Sunset-Glendale Viaduct	1934	June	14, 29
Coast Traffic Compels Wider Span Over Santa Ana River, Orange County	1932	April	43
Double Bridge Grade Separation on Super-Highway	1932	Jan.	22-23, 35
Santa Monica Tunnel	1935	July	6, 10
Jones, R. L., Deputy State Engineer in Charge of Flood Control and Reclamation			
Flood Control in Sacramento	1935	May	6, 14-15, 25
How California Prepares for Floods One Hundred Thousand Dollars U. S. Participation Approved for River Bank Protection	1930	Jan.	1-2, 25-27
Sacramento Flood Control System Described	1933	Jan.-Feb.	14-15, 24
Water Conditions in December	1932	March	10, 28
1930	1930	Jan.	28
Junipero Serra Boulevard; Com- pletes New Link, By John H. Skeggs, District Engineer	1934	Oct.	2-15
K			
Keaton, Morgan			
Advertising Signs Along Highways Regulated by New Law	1933	July-Aug.	6-7, 29
Highway Dollar Spreading to 50,000 Californians Through 12,000 Workers	1933	Jan.-Feb.	2, 18
Made Deputy Director of Public Works	1934	April	8
New Assistant Deputy Director	1932	Oct.-Nov.	12
Out-door Advertising Act: Court Upholds	1934	June	8-9
Sign Law Enforcement Campaign Begins	1934	Feb.	12, 21
Kelly, Earl Lee,			
Appointed Director of Public Works by Governor Rolph	1932	Oct.-Nov.	2, 17
California Highway Commissioner, Chairman	1931	Jan.	5
Bay Bridge Bonds Amounting to \$61,400,000 Sold to U. S.	1933	May-June	1, 4-5, 21
Signed by Earl Lee Kelly, Direc- tor of Public Works	1933	Dec.	25
Burney-Fall River Mills Section of Redding-Alturas Highway Opened	1934	May	6, 32

Kelly, Earl Lee—Continued.	Year	Month	Page
California Gets \$7,932,206 Federal Highway Funds for 1934-35	1934	June	1, 10-11
Donner Summit Snow Crew Carries on Traditions of the Highway Service	1934	Feb.	29
Employment on Highways for the Forgotten Man	1933	Dec.	1, 8
Gas Tax Diversions Would Stop Highway Construction for Two Years	1935	May	1, 10-11
Governor's Road Plan	1935	April	1, 8-9, 18
Highway Commission Policies Outlined	1931	Nov.	28-29
Highway Speed-Up Program Under Way	1934	April	1, 10-11
Highway Work in 1933 Shows Expenditure of \$29,483,000	1934	Jan.	2-3, 14-15, 19
How Gas Tax Diversion Will Deplete Highway Funds	1934	Nov.-Dec.	1, 12-13
Los Gatos-Santa Cruz Cut-off heads Caravan Over New Route	1934	Oct.	12, 26
Napa Bridge Formally Opened With Ceremonies	1932	May	34-35
New Honor for Chairman Kelly of Highway Commission, Appointed Director State Tax Research Bureau, To Continue on California Highway Commission	1932	March	21
New Years Greeting: Facsimile of Employees of District VII	1933	Jan.-Feb.	19
Opens First Highway Bids in South Pacific Highway Bridge Over Cottonwood Creek Opened	1934	June	20-21
Pays Fine Tribute to Headquarters Staff	1931	Feb.	7, 19
Tribute to District Engineers	1934	May	4, 14-15
Point Loma (El Camino Cabrillo) Officially Opened	1934	Oct.	4, 22
Presentation of Gavel to Earl Lee Kelly by Riverside Junior High School	1934	Aug.	10
Projects Under Way in November	1931	July	11
Prunedale "Cut-Off" Opening Ceremonies	1935	Dec.	1, 12
Relief Allocation of \$1,000,000 Assures 12,000 Californians Through Winter	1932	Aug.	2, 22
Relief Labor, State Not Confined to Use of on Roads by New U. S. Ruling	1934	Sept.	1, 16
Richardson Bay Bridge On Alto-Waldo Unit of Route 1 Officially Opened	1935	Sept.	8
Signs San Francisco-Oakland Bay Bridge Bonds	1931	Dec.	38
	1933	Dec.	25

	Year	Month	Page
Kelly, Earl Lee—Continued.			
State Cooperation in Improvement of Highways and Streets in Cities -----	1935	Oct.	10-11, 22-23
The Task Before the Highway Commission -----	1931	Jan.	4-5
Travels All Over State, as Highway Commission Chairman---	1931	Sept.	8
Twenty Years of California Highway History -----	1932	July	6, 14-15
Unemployment Relief; Appeal to Contractors -----	1933	Dec.	31
What Are Our Highways Worth?--	1931	March	1
Kennett Dam Project: Highway and Railroad Relocation,			
By F. N. Drinkhall, District Locating Engineer-----	1935	June	16-17, 30
Kern Canyon Project			
Convict Labor -----	1925	June	10
Killick, V. W. Statistician, Division of Motor Vehicles			
The California System of Compiling Motor Vehicle Accident Statistics	1931	Jan.	13-15
The Ideal Traffic Patrol Schedule--	1930	Oct.	11-12
Kit Carson Trail			
I. O. O. F. Lodge to Mark Historic Spot-----	1931	July	42
Kings River Blast: Thirty-seven Tons of Dynamite Fired,			
By L. D. Packard, Resident Engineer-----	1934	Nov.-Dec.	4, 24
Kings River Canyon: Building Highway in-----			
	1932	June	4
Kings River Highway,			
By R. L. Beuthel, District Office Engineer-----	1930	Oct.	8-9, 21
Klamath River Bridge			
Dedication Ceremonies-----	1926	May	8
Department Supplies Data About Structure -----	1926	May	9
History of Project-----	1926	May	8, 14
What Klamath Bridge Means to Engineer,			
By R. M. Morton, State Highway Engineer-----	1926	May	9, 15
Kromer, C. H., Structural Engineer, Division of Architecture			
A Whole Town in One Institution--	1928	April	10
Earthquake-proof Buildings Possible	1933	July-Aug.	21-23, 32
How State Is Enforcing Safe School Building Law-----	1934	July	14-15, 26
Termites Causing Great Loss in California-----	1931	Sept.	5, 27-28

L			Page
	Year	Month	
Labor Gets 91 Per Cent of Every \$1,000 for Concrete Paving--	1933	Jan.-Feb.	20
Laboratory Research, Forced to Extend Its Building,			
By Thos. E. Stanton, Jr., Materials and Research Engineer	1934	Oct.	14-15
Takes Guess Work Out of Highway Building,			
By C. S. Pope, Construction Engineer-----	1925	Aug.	3-5, 6
Testing Work,			
By C. B. Osborne, Chief Geologist	1913	May	14, 15
Tests Determine Qualities of Shoulder Materials-----	1925	June	7, 8
Laboratorying California's Highways,			
By Thos. E. Stanton, Jr., Materials and Research Engineer	1929	Dec.	18-21, 31
Laguna-Beach Boulevard Reconstructed-----	1935	Aug.	18, 31
Land			
How Secured for Highways,			
By C. C. Carleton, Chief, Division of Contracts and Rights of Way, Department of Public Works-----	1935	Aug.	16-17
For New Roads			
By C. C. Carleton, Chief, Division of Contracts and Rights of Way, Department of Public Works-----	1931	July	32-33
Landmark:			
Highway Moved to Save Historic,			
By L. E. McDougal, District Office Engineer-----	1931	March	17
Landscaping, Seven Years of Highway	1928	Sept.-Oct.	15-16
Landslides, Teaching Them to Be Good-----	1928	Jan.	13, 20
Lateral Road Problems-----	1915	Jan.	6
Laterals, Studying Mountain-----	1915	Jan.	4
Lawsuits, State Wins Important----	1924	Aug.	10
Leadership, California's Highways,			
By L. I. Hews, U. S. Bureau of Public Roads-----	1931	May	4-5
League of California Municipalities;			
Excerpts from Address by Earl Lee Kelly, Director of Public Works, September 24, 1935--	1935	Oct.	10, 22, 23
Legislation, New,			
Affecting the Highway System; Department of Public Works Created-----	1927	June	9
Analysis of,			
By Robert E. Reed, General Right of Way Agent, Department of Public Works-----	1935	Sept.	14-15, 22

Legislation, New—Continued.	<i>Year</i>	<i>Month</i>	<i>Page</i>
Analysis of, By A. L. Banks, Assistant Deputy Director -----	1931	June	14-15, 20-21, 24
Many Important Subjects Covered, By C. C. Carleton, Chief Division of Contracts and Rights of Way -----	1929	May-June	1, 28-29
Legislature, Vehicle Laws Changed by License Plate, The "Why" of Your By B. A. Travis, Assistant Chief Clerk Division of Motor Vehicles -----	1931	June	18
Renewal Period for Automobiles, Approaches By Frank G. Snook, Chief of the Division of Motor Vehicles---	1930	Jan.	3-4
Lighting Experiment at McConnell Subway, By H. D. Stover, Designing Engineer of Bridges-----	1930	Nov.	9-10
Lights: Watch Automobile -----	1935	Feb.	30
Line Change: Bids Asked for Important Ones in South -----	1931	Sept.	29
Important Ones Perfected-----	1925	April	9
Santa Barbara, Under Way-----	1928	Jan.	18-20
Little, Walter B., Acting Resident Engineer Hydraulic Highway Cut Through Mountain Cost 2.26 cents per yard-----	1933	March	11
Loder, A. E., Division Engineer, Division IV Asphaltic Concrete -----	1935	May	8, 16-17, 25
Story of the Rebuilding of Historic El Camino Real-----	1915	Jan.	14, 15
Lodge, I. O. O. F., to Mark Historic Spot on Kit Carson Trail With Markers -----	1913	May	21-22
Long, Gordon L., Resident Engineer Six Cakes of Ice Lower Sixty Ton Bridge -----	1931	July	42
Looking Backward By Col. Jno. H. Skeggs, District Engineer, District IV-----	1932	Aug.	16
Los Angeles: Highway Bid Opening for the First Time-----	1927	Aug.	7
Los Angeles-Pomona Link Completed: Monterey Park Celebrates---	1934	June	20-21
Los Angeles State Building; Departments Occupy New-----	1935	June	12, 30
Los Gatos-Santa Cruz Cut-off Dedicated -----	1932	March	32-33
	1934	Oct.	12, 26

	Year	Month	Page
Los Gatos-Santa Cruz Cut-off. Dedicated—Continued. Link Eliminates 130 Curves, By Col. John H. Skeggs, District Engineer -----	1934	July	20, 21
Slides Fill Route of -----	1935	Oct.	20
Lowden, Perry R., Assistant District Construction Engineer			
Blasting in Feather River Canyon-	1935	March	2, 15, 30
Lowden, S. W., District Maintenance Engineer			
Death Valley Toll Road Purchased by State -----	1935	Jan.	4, 22
Montgomery Pass Dedicated-----	1935	Nov.	30
Mountain Roads of Northern Coun- ties: Open Despite Snow---	1928	Feb.-March	28
Luning, W. L., County Surveyor, Te- hama County Surveyor In- spects Highway -----	1914	July	7
Mc			
McConnell Subway Has Largest Plate Steel Girders in State By H. D. Stover, Designing Engi- neer of Bridges-----	1934	Sept.	30
Sodium Vapor Type Light-----	1935	Feb.	30
McCoy, George T., Assistant State Highway Engineer			
All Roads Lead to California for Tenth Olympiad -----	1931	Sept.	15-17, 28
Biennium Program -----	1935	June	1, 14, 29
Deficit Threatened by Gas Tax Shortage -----	1934	March	1, 10-11
Grade Crossing Being Eliminated With Federal Funds-----	1935	Oct.	1, 6-7
Highway Improvements -----	1935	Feb.	1, 10-11, 14
National State Highway Body Con- firms Value of Relief Work--	1933	Jan.-Feb.	10-11, 22
McCurdy, A. W., Assistant Division Engineer			
Half Moon Bay Relocation-----	1935	Dec.	2, 18
New Section Adds 12.3 Miles to Skyline Boulevard -----	1925	Dec.	9
Widening The State Highway in Alameda County -----	1925	Jan.	10
McDonald, P. A., Assistant Office Engineer			
Sepulveda Boulevard Link Dedi- cated -----	1935	Nov.	4, 18, 30
McDougall, George B., Chief, Division of Architecture			
Building California's Buildings----	1927	Nov.	8, 30
California Institution for Women--	1930	Sept.	2-4
How to Build \$41,000,000 of State Structures -----	1931	Aug.	6, 26-27
New Women's Penitentiary-----	1928	Jan.	6, 31, 32



	Year	Month	Page
McDougall, George B., Chief, Division of Architecture—Continued.			
Plans for New State Hospital Near Camarillo -----	1932	May	20-21
Also -----	1932	Oct.-Nov.	14-15, 40
San Diego Teachers' College Shows How State Is Planning for Future -----	1929	Oct.	14-15, 19
School Construction: State Assures Safe -----	1933	April	8-9, 11
Ten-Year Building Construction Program for State Institutions -----	1930	Dec.	10-13, 26
McFadden, W. L., Associate Highway Engineer			
Indio Cut-Off Completed and Opened New Highway to Point Loma Officially Opened -----	1935	July	20
	1934	Aug.	10
McKesson, C. L., Materials and Research Engineer			
Concrete Mixing Tests -----	1926	Feb.	5-7
Control of Concrete -----	1925	Dec.	10, 11
Curing Concrete, with Calcium Chloride -----	1925	Feb.	5
Recent California Experiments -----	1926	Jan.	5-7, 9
Investigation of Reasons for Difference in Strength of Concrete -----	1925	Oct.	5
Laboratory Develops Quick Hardening Concrete -----	1925	Nov.	6-7, 8
Relation of Voids in Aggregate to Strength of Concrete -----	1926	Aug.	7-8, 9
Selection of Rock and Gravel for Highway Construction -----	1926	April	6-10, 11
Solano Lateral Subgrade Experiments -----	1925	Aug.	9
Super Highway in Europe -----	1928	April	11-12, 24
Tests of Binder Materials for Gravel and Rock Surfacing -----	1926	Oct.	7
Tests of Oil for Desert Sand Treatment -----	1926	June	9
McKevitt, Hugh K., Named Attorney for Highway Commission ---	1931	Jan.	11
McLeod, J. C., Division Engineer, Highway Reconstruction Problems Encountered on the Sacramento-Stockton Road -----	1924	Sept.	8, 11
Reconstruction Projects in Division X -----	1925	Feb.	3-4
Resigns as Engineer, District X ---	1926	March	11

## M

MacDonald, Thomas H., Chief of the U. S. Bureau of Public Roads			
Construction Equalling Six Transcontinental Highways Built by Public Works Funds ----	1934	Feb.	6-7

MacDonald, Thomas H., Chief of the U. S. Bureau of Public Roads— Continued.			
	Year	Month	Page
Closing the Gaps.....	1927	July	8
Transportation Must Look Forward in Spirit of Cooperation.....	1935	Dec.	8-9, 18
Urges Beautification Work in Re- covery Program.....	1933	Dec.	18
Machinery Is Playing Larger Role in Road Building, By C. H. Purcell, State Highway Engineer.....	1931	Feb.	25, 28
Machines Perfected by State Road Men.....	1928	Jan.	17
Madera County's State Highway....	1913	May	20
Maddocks, F. T., Senior Physical Testing Engineer Fog, Perpetual, Maintained in Con- crete Curing Room.....	1934	Feb.	26-28
Fractural Concrete Specimens Show Increased Strength When Retested .....	1925	Aug.	11
Mail Boxes: Movable Stand Is Designed.....	1930	March	11
Rural, Uniform Stands, Help Clean Up Roadside .....	1926	June	15
Maintaining the State Highways, By W. A. Smith, Assistant Main- tenance Engineer.....	1928	July-Aug.	9, 10
Maintenance Aims of the Department, By T. H. Dennis, Acting Mainte- nance Engineer .....	1926	Oct.	5
Crew Keep Donner Pass Open.....	1931	Nov.	29
Crews Report.....	1924	March	8, 9
Department Joins Fight on Punc- ture Vine .....	1925	Sept.	6, 7, 9
Division VI Drags Prove Effective Aid.....	1926	Aug.	10
Engineers Discuss Problems.....	1930	Feb.	13-14
Field Study to Coordinate Work By R. M. Morton, State Highway Engineer.....	1925	Oct.	3
Funds Will Repair South Coast Highway.....	1926	March	10
Kern County Prepares for Mainte- nance.....	1925	Aug.	10
Mileage Under Maintenance Gains..	1925	Feb.	13
New Method for Checking Work, By T. H. Dennis, Acting Mainte- nance Engineer .....	1927	Aug.	5
Of Highways .....	1914	July	2
Permanent Stations Established...	1924	March	7
Practicability of Desert Road Demonstrated .....	1926	July	7, 8
Problems of.....	1912	Oct.	16

Maintenance—Continued.	Year	Month	Page
Problems, The			
By Benjamin Ide Wheeler, University of California-----	1913	May	20
Program in Division III Shows Results,			
By F. W. Haselwood, Acting Division Engineer, Division III-----	1925	Feb.	11
Shops Establish Enviably Record,			
By A. L. Banks, Assistant Deputy Director-----	1931	Sept.	6, 24
State Cares for 130,000 Trees-----	1931	Dec.	34
Owned Maintenance Stations Bring Results,			
By J. B. Woodson, Division Engineer-----	1924	May	10, 11
Takes Over 722 Miles of Road for Maintenance-----	1931	Aug.	4, 20-21
Station Site Purchased in Santa Barbara-----	1925	Jan.	13
Strenuous Work of Maintenance Forces Keeps Highway Open	1925	March	6
Superintendent Builds Pavement Marker-----	1924	Sept.	11
Ten Miles of Elms Planted on Highways,			
By W. A. Smith, Assistant Maintenance Engineer-----	1932	March	31
Tree Planting and Public Utilities, By the Maintenance Department	1927	Nov.	5, 30, 39
Trees Planted in San Joaquin Valley	1925	Feb.	13
With the Maintenance Crew-----	1924	April	14
Major Projects for 1932—Tabulated---	1932	Jan.	26-27
Malibu Fire: Highway Crew Does Heroic Work-----	1935	Nov.	26, 32
Malpas Creek, Concrete Arch Span Completed-----	1935	Sept.	13
Mansfield, George C. Editor "California Highways"			
Passing of "Passing the Buck"-----	1928	Feb.-March	5-6, 19
Manual: New Construction, Outlines Duties of Field Men-----	1925	May	6-7
Map: New Official State Map Completed-----	1932	May	8
Maps Are Prepared of "Federal Aid" Roads-----	1928	Nov.-Dec.	30
Mapping 75,000 Miles of California, By Everett N. Bryan, Hydraulic Engineer, Division of Water Resources-----	1931	Nov.	8, 18
New California Road Map Is Published-----	1934	May	18
Road Map for 1933 Published-----	1933	March	19
Topographic Program, Covering 7000 Miles			
By Edward Hyatt, State Engineer	1932	Oct.-Nov.	29
U. S. and State Signed Route, New	1935	Oct.	19

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Maricopa-Ventura Highway Largest Cooperative Project -----	1932	April	4, 17
Marking System, Uniform, for U. S. Highways Considered -----	1925	May	15
Marsh, Will H., Chief, California Division of Motor Vehicles Estimates Road Revenue -----	1924	Feb.	6
McKevitt, Hugh K., Named Attorney for California Highway Commission -----	1931	Jan.	11
Meehan, A. J., Associate Designing Bridge Engineer Welded Steel Viaduct Ends Crossing Perils -----	1932	Feb.	34-35
Meek, B. B. Appointed Director of Public Works	1927	July	4
A Message from the Director ----	1930	Dec.	1
A Report on State Highways -----	1930	July-Aug.	2
Building Safety Into State Highways -----	1929	July-Aug.	9-10, 29
Distribution of State Highway Moneys -----	1928	July-Aug.	5-6, 24
Holiday Greetings to All -----	1928	Nov.-Dec.	Inside Cover
Highway Policies in California ----	1928	April	18-19
Making the Highways of California Safe (Radio Address) -----	1928	Nov.-Dec.	10, 29-30
Our Job -----	1927	Nov.	3-4
Regulation of Convict Camps -----	1927	Dec.	25
Resigns -----	1930	Dec.	9
Resolution Is Important Step Forward (Text of Resolution) --	1929	Mar.-April	5, 10
The State Highway Patrolman ----	1930	Jan.	15-16
Toll Roads and Bond Issues Discussed -----	1928	Feb.-March	13
Merriam, Governor Frank F. Breaks Ground for Alameda-Contra Costa Tunnel -----	1934	July	16, 22
Cable Spinning Operations Starts on Bay Bridge -----	1935	July	1-2
Dedicates New Benbow-Garberville Link of Redwood Highway --	1935	June	6, 18
Dedicates Rumsey-Clear Lake Highway -----	1934	Aug.	28
Highway Funds Will Provide 4,510,000 Man-days Work -----	1934	July	1, 10
Highway Unification Plan to Save Taxpayers. (Introduced as Identical Bills in Legislature SB 323 and AB 807, Defeated) -----	1935	March	8-10
Opens Reconstructed American River Bridge -----	1935	April	2, 19, 32
Tahoe-Ukiah Link in Snowstorm Power Development Must Not Be Divorced From State Water Plan -----	1934	Nov.-Dec.	2, 25
	1934	Aug.	1, 14

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Merriam, Governor Frank F.—Continued.			
Praises Bay Bridge Chiefs on Completion of Deep Water Structures -----	1935	April	16-18
Russian River Bridge at Monte Rio Dedicated -----	1934	Oct.	19
Sepulveda Boulevard Link Opened Officially -----	1935	Nov.	4, 18, 30
Signs "Bay Bridge Trains" Bill-----	1935	June	11
Takes Office as Governor of California -----	1934	June	3, 12
Work On Highway Assured for Next Three Years-----	1934	Oct.	1, 8
Yerba Buena Tunnel, Governor Merriam Heads First Party Through -----	1934	Aug.	16
Miles, Roderick, Architectural Designer			
Modern Gymnasism for Teachers' College at San Jose-----	1931	June	22-23
Miles, Ruth			
Girl In London Tells of English Pavement Methods -----	1926	Aug.	9
Miliken, Ben H. Superintendent of Prison Road Camps			
Four Years Experience With Convict Wage -----	1927	Aug.	3, 6
Miller, Harlan D., Bridge Engineer			
Bridge Department Drives Concrete Pile 24 Hours After Casting Problem Serious -----	1925	Oct.	4
Results of Field Tests of Bridge Concrete -----	1924	April	3
Ventura Seawall Tests Show High Quality Concrete -----	1925	April	7
Ventura Seawall Tests Show High Quality Concrete -----	1925	Aug.	7
Minor Improvement": "Why Not a By H. A. Waterman, Assistant Construction Engineer -----	1931	Dec.	24
Mitchell, Stewart, Assistant Bridge Engineer			
Dolan Creek Bridge New Type of Timber Arch -----	1935	Feb.	26-27
Estimated Cost of Abolishment of Grade Crossings \$40,499,000-----	1933	March	32, 34
Three Millions Needed to Make Secondary Road Bridges Safe -----	1935	Jan.	2, 14, 18
Mixon, W. F., Secretary State Highway Commission			
Governor's Interest In Highways-----	1924	Jan.	6
Moneys, Distribution of State Highway, By B. B. Meek, Director of Public Works -----	1928	July-Aug.	5-6, 24

	Year	Month	Page
Montgomery, C. P., Resident Engineer, Division VII			
Highway Construction Through Famous Rancho Malibu-----	1927	Jan.	6-7, 12
New Coast Highway Breaks Trail Along the Ocean Front-----	1924	Dec.	4, 5
Montgomery, C. R., Los Angeles Attorney, Named to Right of Way Post-----	1931	Aug.	25
Montgomery Pass Dedication of U. S. No. 6 Link, By S. W. Lowden, Acting District Engineer -----	1935	Nov.	30
Monterey Coast, Seven New Projects Under Way On-----	1934	Jan.	19
Monterey Park Celebrates Los Angeles-Pomona Link Completion, By R. C. Myers, Assistant District Office Engineer-----	1935	June	12, 30
Montfort, Harry L., Superintendent, Honored -----	1926	Jan.	14
Moody, Fred S., Member California Highway Commission			
Appointed -----	1927	Aug.	2
California's Mountain Highways---	1927	Dec.	1-2, 24
California's Next Big Job Is Parking Our State Highways-----	1928	Sept.-Oct.	1-4
Mormon Trail, Old, Marked by Monument -----	1932	Dec.	40
Morton, R. M., State Highway Engineer			
Contributions of Real Merit to Be Printed in "California Highways" -----	1924	Jan.	7
Field Study to Coordinate Maintenance Work -----	1925	Oct.	3
Improved Quality and Design Increase Strength of California Highway Pavements -----	1925	Dec.	3, 12
Increasing the Safety of State Highways -----	1926	May	3-4, 5
Message to Employees of California Highway Commission -----	1924	Jan.	7
Modification of Contracts During 1923 -----	1924	Jan.	5
New Specifications -----	1924	Jan.	8
Recent Reorganization of State Highway Work -----	1924	Feb.	3
Straight From the Chief-----	1926	May	2
Up-to-date Business Methods Bring About Complete Change in Equipment Department ----	1926	Nov.	3, 9
What Klamath Bridge Means to Engineers, By R. M. Morton, State Highway Engineer -----	1926	May	9, 15

	Year	Month	Page
Morton, R. M., State Highway Engineer—Continued.			
Where Are We Drifting in Highway Construction?-----	1924	Aug.	3, 4-6
Widening and Thickening of State Highways -----	1925	Nov.	4, 5
Mother Lode Highway-----	1926	June	7, 8
Motor Trucking, Marketing of Fruits and Vegetables Increased by-----	1933	March	13
Motor Vehicle Laws: National Analysis of -----	1931	Aug.	42
Motor Vehicles			
Accident Record of Young Drivers Alarmingly High -----	1931	March	18
Analysis of Accidents Occurring During March in California-----	1931	May	24
Autos to Create New Type of City-----	1929	Nov.	22
Brake Testing Activities			
By Andrew J. Ford, Inspector in Charge of Brakes-----	1930	July-Aug.	13, 29
California Has 5.68 Per cent of World's Motor Vehicles-----	1926	Feb.	15
Careless Faults of Careful Drivers. By Eugene Biscailluz, Supt. of Highway Patrol -----	1929	Nov.	6-7, 23
Codification of Act Recommended--	1932	March	19
Department of, Ray Ingels Made Director -----	1935	Aug.	10
Division Reports (chronologically listed) -----	1929	Oct.	27-28
Also -----	1929	Nov.	33
Also -----	1929	Dec.	24-25
Also -----	1930	Jan.	22
Also -----	1930	Feb.	21-22
Also -----	1930	March	19
Also -----	1930	April	21
Also -----	1930	May	31
Also -----	1930	June	29
Also -----	1930	Sept.	20-21
Also -----	1930	Oct.	27-28
Also -----	1930	Nov.	27
Also -----	1930	Dec.	25-26
Also -----	1931	Jan.	29
Also -----	1931	Feb.	36
Also -----	1931	May	29
Law Information for Nonresident Motorists -----	1927	June	6
License Plate Form Is Approved--	1930	Sept.	15
Nonresident Car Owners to Tour In California			
By F. G. Snook, Chief of the Division of Motor Vehicles-----	1930	May	10, 16
Ratio of Deaths to Gasoline Consumption Is Told-----	1931	Jan.	21
State's Auto Death Toll Takes Jump -----	1931	June	44

	Year	Month	Page
Motor Vehicles—Continued.			
Teaching Californians to Drive By F. P. Williams, Head of Bureau of Drivers Licenses---	1930	Dec.	16-17
Fees			
Apportioned for 1932-----	1933	March	36
Apportioned to States and Coun- ties -----	1925	Sept.	8
Apportionment Throughout State Registration	1931	Aug.	29
Announced by Class and Counties for 1929 -----	1930	Feb.	18
Fees Apportioned to State and Counties -----	1926	Sept.	11
Increase by Counties-----	1928	May-June	31
Keeping Tab on Automobile Reg- istration, By B. A. Travis, Assistant Chief Clerk, Department of Motor Vehicles -----	1931	Aug.	2, 14
Shows Three Per Cent Gain in 1930 -----	1931	Feb.	22
State Shows Big Increase in Automobile Registration ---	1930	July-Aug.	9
U. S. Registration-----	1927	Nov.	28
Motor Violators' Record to Be Kept by Highway Patrol-----	1931	March	25
Motoring: Growth in California, By Marshall A. Page, Chief Clerk of the Division of Motor Vehicles -----	1929	Oct.	2-4, 23
Motorists' Fees Remedy Roads-----	1931	July	24
Law is Cited of Responsibility for Children -----	1931	April	19
What They Should Know-----	1931	Aug.	40
Mountain Grade			
Modern Cuesta Grade-----	1924	Oct.	14
Roads Located, By Francis G. Somner, Divi- sion Engineer -----	1914	July	4
Moving Finishing Machine: Con- tractor Solves Problem-----	1928	July-Aug.	22
Municipal League Committees Report, Comments On, By Austin B. Fletcher, Highway Engineer -----	1912	Oct.	12, 13
By Chris. P. Jensen, S. J. Van Ornum and J. J. Jessup, Members of Committee-----	1912	Oct.	13, 14
Munson, S. M., Assistant Snow Supervisor			
Perilous Adventures of Snow Sur- veyors -----	1932	March	38-39
Murray, Miss Myrtle, Secretary to Director of Public Works---	1931	Oct.	6
The Indispensable Woman-----	1932	Oct.-Nov.	21



	Year	Month	Page
"My Highway Creed," By James Rolph, Jr., Governor of California-----	1931	Jan.	1
Myers, R. C., Assistant Engineer, Dis- trict VII			
Flood Worst in Fifteen Years: State Highways Defy-----	1934	Feb.	2, 14-15
Installing Sheet-steel Piling on Ventura Coast-----	1934	Sept.	4, 20
Laguna Beach Boulevard Recon- structed-----	1935	Aug.	18, 31
Monterey Park Celebrates Los An- geles-Pomona Link Comple- tion-----	1935	June	12, 30
Piru Creek Moved Into New Con- crete Channel-----	1933	Jan.-Feb.	4, 18
Ramona Boulevard, Los Angeles County-----	1935	Feb.	6, 20, 24
Ridge Route Opened with Impres- sive Ceremonies-----	1933	Oct.-Nov.	2, 15-17, 28
San Gabriel Canyon Highway Proj- ect; State Cooperating-----	1933	May-June	8-9, 18, 23
Torrey Pines Grade Eliminated by Relocation-----	1932	Dec.	10, 16

## N

Napa-Monticello Highway Opening Celebrated-----	1934	July	19
National Guard, How California Is Developing an Adequate Encampment, By W. H. Rockingham, Engineer of Architecture-----	1929	Sept.	18-21
National Highway Body Adopts Resolution-- State Highway	1933	Oct.-Nov.	9
Body Confirms Value of Relief Work, By George T. McCoy, Principal Assistant Engineer-----	1933	Jan.-Feb.	10-11, 22
Officials Adopt Important Resolutions-----	1931	Oct.	27
Neron, Edward J. Appointed Deputy Director of Pub- lic Works-----	1934	Aug.	19
San Diego International Exposition: State Exhibit-----	1935	May	2, 24
New Women's Penitentiary at Tehachapi, By George B. McDougall, Chief of the Division of Archi- tecture-----	1928	Jan.	6, 31, 32
New Years Unique Greeting to Earl Lee Kelly, Director, Depart- ment of Public Works-----	1933	Jan.-Feb.	19

	Year	Month	Page
Newhall Bottleneck, Breaking the, By S. V. Cortelyou, District Engineer-----	1928	May-June	7-8
Newman-Crows Landing Realignment Completed and Opened, By Robert E. Pierce, District Engineer-----	1935	Nov.	16, 22
Nojoqui Grade Completion Eliminates Thirty-three Curves, By L. H. Gibson, District Engineer-----	1935	Nov.	12, 22
North, A. C., Assistant Bridge Con- struction Engineer Drilling Machine Developed for Bridge Foundation Tests----	1932	June	16
N. R. A. Project on Sloat Boulevard Completed, By Col. John H. Skeggs, District Engineer-----	1935	Jan.	6
O			
Oak Flat Road, Metal Crib Retaining Walls Built on-----	1932	Dec.	32
Office Man in the Field; Impressions of-----	1935	July	15
Oil			
Content for Road Mixes Determined, By F. N. Hveem, Assistant Test- ing Engineer, Research De- partment-----	1932	Oct.-Nov.	8-11 22-23, 28
Fields: New Menace to Highway Develops in-----	1930	Sept.	11
"Oil Mix" Method			
By Thomas E. Stanton, Jr., As- sistant Highway Engineer--	1927	Nov.	12-13, 31, 33
Rock Surface Projects Tabulated--	1935	Oct.	18
Rock Surface Tabulation for 1933--	1934	Sept.	29
Spray Devised by E. L. Stump, Division II Maintenance Su- perintendent-----	1925	Sept.	7
Stained Glassware: Apparatus for Washing-----	1935	Sept.	29
Tests for Desert Sand Treatment, by C. L. McKesson, Materials and Research Engineer----	1926	June	9
Oiling			
Dust Oiling Program for 1933----	1933	April	11
Excellent Results Obtained on State Highways-----	1927	June	4
Gratifying Results Obtained on State Highways-----	1927	July	5

	Year	Month	Page
Oiling—Continued.			
Maintenance Department Prepare Motoring Public for Highway Oiling Program-----	1927	April	12
May Solve Dust Problem on Un-paved Highway-----	1926	July	9
Results Bring Demand for more--- State Highway Oiling Program for 1929-----	1926	Dec.	5
“Surface Treatment” Method of Oiling Roads, By Thos. E. Stanton, Jr., Assistant Highway Engineer---	1929	May-June	20-22
The Kit Carson Trail-----	1927	Dec.	13, 28, 29, 30
Traffic Control During Oiling Operations, By W. A. Smith, Assistant Maintenance Engineer-----	1932	April	12
Oils: Highway Interests Seek Uniformity in Specifications For Asphalt Road, By Thos. E. Stanton, Jr., Research Engineer, Division of Highways-----	1932	May	14-15
Old Timers' Card Competition Appointment Card Found, Cameron, E. M., of Quincy-----	1931	Feb.	29
Card Competition Bassett, E. J.-----	1935	July	31
Dennis, T. H.-----	1935	Dec.	29
Honor Passes to M. E. Tozer-----	1935	Nov.	29
Olympiad All Roads Clear for the-----	1935	Oct.	32
All Roads Lead to California for Tenth Olympiad By George T. McCoy, Principal Assistant Highway Engineer---	1932	June	34, 39-40
Opening Napa-Monticello Highway Celebrated-----	1931	Sept.	15-17, 26
Operating Costs for Motorists: Investigations Show Improved Highways Bring Remarkable Saving to Motorists-----	1934	July	19
Orange Tree, State Honors First Navel-----	1925	July	9
Orchards, Rice and Crops Saved by Cooperation, By H. M. Stafford, Sacramento-San Joaquin Water Supervisor-----	1933	March	21, 36
Organization, Chart of, California Highway Commission-----	1931	Aug.	18-19
Ortega Hill: Relocation of Highway Over-----	1912	Oct.	16
	1926	Feb.	3

	Year	Month	Page
Osborne, Clarence B., Chief Geologist			
Road Oil Specifications and Tests---	1914	July	6, 7
Work of the Testing Laboratory---	1913	May	14-15
Our Job,			
By B. B. Meek, Director, Department of Public Works-----	1927	Nov.	3, 4
Outdoor Advertising Act: Court Upholds,			
By Morgan Keaton, Deputy Director of Public Works-----	1934	June	8-9
California's Experience in Regulating Advertising Signs			
By J. M. Call, Outdoor Advertising Assistant -----	1934	Nov.-Dec.	10
Enforcement Campaign Begins-----	1934	Feb.	12, 21
Outdoor Christmas Trees for California's Highways,			
By Jean Scott Trickelton-----	1930	Nov.	16-17
"Overhead," California Highway Commission -----	1916	July	2
Overhead, The Carlsbad, in San Diego County -----	1927	Aug.	7
Owens Valley, Opening Up the-----	1925	Jan.	13
Oxnard Route: Experimental Pavement Sections on,			
By A. D. Griffin, Resident Engineer, Division VII-----	1927	March	9-11
Oyster Shell an Economic Self-Cementing Road Material---	1927	July	13

## P

Pacheco Pass, Improvement of Curves and Grades,			
By R. E. Pierce, District Engineer -----	1934	April	6
Pacific Highway			
A Dream Come True-----	1925	July	2
Bridge Over Cottonwood Creek Dedicated. Earl Lee Kelly, Chairman Highway Commission, Representing Governor Rolph -----	1931	Feb.	7, 19
Features of the Reconstruction Of,			
By H. S. Comly, Division Engineer, Div. II-----	1925	July	3, 4
High Arch Bridges Part of Relocation -----	1926	July	11
International, Means a Great Trade Channel,			
By Justus F. Craemer, Assistant Director of Public Works---	1935	Feb.	16-17, 29
Widening and Straightening,			
By H. S. Comly, Division Engineer -----	1924	Oct.	6

	Year	Month	Page
Packard, L. D., Assistant Engineer, Bridge Department			
Keeping Traffic Moving on the Red- wood Highway -----	1924	Nov.	6, 7
Kings River Canyon Blast on State Highway Route 41 -----	1934	Nov.-Dec.	4, 24
New Type of Bank Protection -----	1925	Nov.	8
Page, Marshall A., Chief Clerk of the Division of Motor Vehicles			
Growth of Motoring in California -- Vehicle Laws Changed by the Legis- lature -----	1929	Oct.	2-4, 23
	1931	June	18
Palisades Beach Bottleneck Elim- inated on Santa Monica Coast Highway -----	1934	Aug.	12, 26
Panhorst, F. W., Construction Engi- neer,			
Bridges Built During Biennium ----	1935	July	16, 18
How Highway Bridges are Inspected	1928	Nov.-Dec.	4-5, 25
"M" Street Bridge, Sacramento, To Be Under Construction in Spring -----	1934	Jan.	12-13, 27
Value of Bridge Models Proven ----	1932	Aug.	25
Parking Our State Highways, Cali- fornia's Next Big Job,			
By Fred S. Moody, Member Cali- fornia Highway Commission	1928	Sept.-Oct.	1-4
Parks and Highway Department Saving Coast Area,			
By William E. Colby, California State Park Commissioner --	1933	Jan.-Feb.	12-13, 21
Pasadena Dam: Consulting Board Is Named to Advise On ----	1930	Oct.	19
"Passing The Buck," The Passing of, By George C. Mansfield, Editor "The Bulletin" -----	1928	Feb.-Mar.	5-6, 19
Patch, W. W. Division Engineer of Division VII Resigns -----	1924	Jan.	11
Patrol, State Highway			
Arizona Models After State Patrol	1931	July	37
Governor Inducts Highway Patrol Into New Duties -----	1930	Feb.	6
Highway Patrol Aids Motorists. ----	1930	Sept.	9-10
Squad to Compete in Lowering California Motor Death Rate	1931	March	7-8
Its All in the Life of a Traffic Officer -----	1930	April	14
Night Patrol Being Organized			
By Roy Youngblood, Assistant Su- perintendent, California Highway Patrol -----	1930	Feb.	5-6
Patrol Officers' Duties -----	1930	Nov.	8, 19
Quick Thinking of Officer Saves Fishermen -----	1931	July	34
Seek to Establish Radio Communi- cation for Highway Patrol --	1930	Dec.	15

	Year	Month	Page
Patrol, State Highway—Continued.			
Sending the Highway Patrol to School,			
By James J. Borree, Head of the Bureau of Schools and Education of California Highway Patrol -----	1930	March	3-4
State Highway Patrol Organized--	1929	Dec.	3-4, 29
Veteran Highway Patrol Inspector Attends School,			
By F. G. Yoder, District Inspector and Senior Instructor	1931	June	27
Patrolman, The State Highway,			
By B. B. Meek, Director, Department of Public Works-----	1930	Jan.	15-16
Patrolman's Heroism Nets Auto Thief	1931	July	8
Patrolmen, California Association of Highway -----	1930	Oct.	20-21
Pavement			
How Use of "Vialog" During Construction Is Influencing Smoothness,			
By Earl Withycombe, Assistant Engineer, Construction Department -----	1926	Dec.	10, 11
Machine Finishing for Hot-Mixed Highway Pavement in California,			
By C. S. Pope, Construction Engineer -----	1930	Feb.	10-12, 28-30
Progress Made on Pavement Construction During the Year, 1927,			
By Earl Withycombe, Assistant Construction Engineer -----	1928	May-June	5-6, 20-21
Summary of 1928 Pavement Construction,			
By Earl Withycombe, Assistant Construction Engineer -----	1929	May-June	11-14, 22
Pavement Marker Built,			
By R. E. Pierce, Assistant Division Engineer in Charge of Maintenance -----	1925	May	10, 11
Built by Maintenance Superintendent -----	1924	Sept.	11
Bixler Pavement Marker Constructed -----	1925	May	10, 11
Pavement Methods			
Girl in London Tells of English Methods,			
By Ruth Miles-----	1926	Aug.	9
Reconstruction Studies as Conducted by the Construction Department,			
By C. S. Pope, Construction Engineer -----	1926	Sept.	5

	Year	Month	Page
<b>Pavements</b>			
Completed Under the 1924 Program, By Earl Withycombe, Assistant Engineer -----	1925	March	5, 7
Increase in Surface Smoothness is Most Important Improvement in 1926 in California, By Earl Withycombe, Assistant Engineer -----	1927	March	5-6, 13
Review of Strength Record for 1925, By Earl Withycombe, Assistant Engineer -----	1926	March	3-4
"Roughograph" Invented to locate Bumps on New, By E. L. Seitz, Resident Engi- neer, District VII-----	1934	June	24
<b>Paving</b>			
Construction During 1931, New Records, By Earl Withycombe, Assistant Construction Engineer -----	1932	Feb.	10, 37
New Type of Machine Exhibited at Road Builders Show, By R. H. Stalnakar, Equipment Engineer -----	1932	Feb.	8
Patents Are Questionable-----	1912	Oct.	2
<b>Peninsula Highway</b>			
Traffic Lanes on Peninsula Highway Help to Speed Up Traffic----	1925	Nov.	11
Widening of the Peninsula Highway to Be Continued-----	1925	Feb.	9
<b>Permits</b>			
New Order Governs Heavy Hauling	1928	July-Aug.	19
<b>Personnel</b>			
Appointments Are Announced On Highway Staff -----	1928	July-Aug.	21
<b>Pierce, R. E., District Engineer, Dis- trict X</b>			
American Canyon Cut-off Involves Excavating 1,166,000 Cubic Yards -----	1933	Dec.	2, 12
Appointed Engineer, Division X----	1926	March	11
Beautiful Tree Spared in Careful Paving Operation -----	1931	Nov.	2
Hornitos Paid Gas Tax-----	1935	Jan.	10
Maintenance Foreman Builds Pave- ment Marker -----	1925	May	10-11
Mother Lode Highway. Lore and Beauty Made More Easily Accessible -----	1932	Sept.	8, 23, 40
New Highway Link in Romantic Mother Lode District-----	1932	Sept.	8, 23, 40
Newman-Crows Landing Completed and Opened -----	1935	Nov.	16, 22
Pacheco Pass, Improvement of-----	1934	April	6
Pavement Marker Built-----	1925	May	10, 11
Slides Raise Total Excavation on American Canyon Cut-off---	1934	Sept.	2, 13

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Pierce, R. E., District Engineer, District X—Continued.			
Spreader Box Improved for Oil Rock Borders -----	1935	Sept.	25, 30
Surveys Completed for American Canyon Cut-off-----	1933	March	18
Tuolumne Bridge at Modesto Opened by Governor Rolph-----	1933	July-Aug.	30-31
Vacaville-Fairfield Relocation Abolishes Seventeen Curves-----	1935	Dec.	10, 17
Work On Dixon Rerouting to Be Done This Summer-----	1927	June	15
Pierson, C., Specification Writer, Division of Architecture			
Relation Between Contractors and the Division of Architecture--	1929	Dec.	10-11, 28
Pioneer Days Linked to Present Day Road Building,			
By Frank B. Durkee, General Right of Way Agent-----	1931	Aug.	9, 24-25
Pioneer Trail Now State Highway,			
By Eleanor Lee Reading-----	1928	Sept.-Oct.	13-14
Pipe Culvert Extension Economical,			
By E. T. Scott, Maintenance Superintendent, Division VII--	1924	July	3, 4
Piru Creek Moved Into New Concrete Channel,			
By R. C. Myers, Assistant Engineer, District VII-----	1933	Jan.-Feb.	4, 18
Plank Road			
New Plank Road Is Under Way Across Sand Dunes; Road Built in Sections-----	1924	Oct.	9, 15
Old Plank Road to Be Preserved,			
By E. Q. Sullivan, District Engineer -----	1930	June	10
Old Sand Hills Plank Road Becomes Museum Exhibit			
By I. G. Thomas, Office Engineer, District IX -----	1934	Sept.	20
Planning			
We Have City, Why Not State Planning -----	1927	March	3-4
Poage, P. T., Assistant Architect, Division of Architecture,			
Armory for San Jose-----	1933	April	5, 25
Building Homes for the State's Fish	1927	Dec.	4-5, 30
How California Cares for the Blind	1930	March	6-8, 34
Receiving Tourists to California---	1930	July-Aug.	8-9
Poems			
"Its Moving Day,"			
By Gladys Craig Potter-----	1935	Dec.	23
"The Bay Bridge,"			
By Peter W. Maurer, Jr., Junior Construction Engineer-----	1935	Feb.	21



Poems—Continued.	Year	Month	Page
“The Bridge” Used by Earl Lee Kelly at Dedication of Cottonwood Creek Bridge-----	1931	Feb.	7
“The Maintenance Man” By Gladys Craig Potter-----	1934	June	13
Point Loma Highway Officially Opened (El Camino Cabrillo) By W. L. McFadden, Associate Highway Engineer -----	1934	Aug.	10
Point Mugu; Building the Highway Around; Construction Methods Used -----	1924	Oct.	5
Policeman's Life, Just One Day in a, By Russell Bevans, Chief Inspector, Division of Motor Vehicles -----	1931	July	16
Pomona-Los Angeles New Arterial By S. V. Cortelyou, District Engineer -----	1934	March	2, 16-17, 28
Pope, C. S., Construction Engineer, Chart Presentation of Elements Affecting Concrete Construction -----	1926	March	6, 7
Civil Service Candidate as the Examiner Sees Him-----	1929	Sept.	10, 15
Concrete Mixing Tests-----	1926	Feb.	5-7
Control of Concrete-----	1925	Dec.	10, 11
Earth and Earthwork in Highway Construction -----	1932	Sept.	16-17, 26
Field Tests for Determination of Adverse Soils -----	1925	Nov.	9
In Memoriam, Edward A. Araujo--	1924	July	9
Laboratory Takes Guess Work Out of Highway Building-----	1925	Aug.	3-5, 6
Machine Finishing for Hot-mixed Highway Pavement in California -----	1930	Feb.	10-12, 28, 30
Mechanical Spreading, Raking, Finishing of Asphaltic Concrete--	1928	Feb.-March	16-17
New Construction Problems-----	1928	May-June	9, 24-25
Old Blue-Printer Retires,-----	1935	June	35
Pavement Reconstruction Studies--	1926	Sept.	5
Pavements, Asphalt Concrete: Finishing Warped Surfaces-----	1935	Oct.	26
Protection Against the Forces of Nature in California Highway Construction -----	1930	July-Aug.	5-7, 24, 25
Purposes of Construction Department -----	1924	Feb.	7, 8
Slurry Base Construction on Desert Roads -----	1930	Sept.	7
Soil Treatment in Highway Construction -----	1932	Oct.-Nov.	20, 33
Spreader Box Improved for Oil Rock Borders -----	1935	Sept.	25, 30

	Year	Month	Page
Pope, C. S., Construction Engineer—			
Continued.			
Traffic Control and Highway Efficiency -----	1928	July-Aug.	4
Use of Explosives in Highway Excavation of Shasta Canyon---	1932	April	6-8
Winter Experiments in Curing Cement Concrete -----	1934	March	6-7, 24-25
Postal Laws Should Be Amended----	1913	May	2
Power			
Development Must Not Be Divorced From State Water Plan,			
By Governor Frank F. Merriam-	1934	Aug.	1, 14
Fees			
California Wins Large Power Fees -----	1930	June	7
Of the Press-----	1912	Oct.	16
Pratt, M. B., State Forester			
Roadside Clearing on State Highways Pays Big Dividends in Fire Protection -----	1930	Nov.	11-12, 13
Prehistoric Civilization Along the Lower Colorado,			
By E. Q. Sullivan, District Engineer, District VIII-----	1928	Feb.-March	21, 29
"Priests Grade," Historic, Now Modern State Highway,			
By C. E. Bovey, Maintenance Engineer, District X-----	1927	April	8, 9
Printing Plant Addition			
Governor Rolph Officiates at Ground Breaking Ceremony-----	1931	Dec.	42
Prison Road Camps			
Governor Richardson Visits-----	1924	June	5
Kern Canyon Camp-----	1925	June	10
New Plan-----	1925	July	5
Prisoners Escaping, Penalties for--	1924	Nov.	9
Work Coordinated, by Ben H. Miliken -----	1924	June	11
Value of Camps Outlined,			
By Fred R. Seymour, Supervisor, Prison Road Camps-----	1931	July	43-44
Prisons Safe at Night, Making the.			
By W. K. Daniels, Deputy Chief of the Division of Architecture -----	1930	Jan.	7-8, 16
Progressive California Counties-----	1913	May	20
Projects			
Advanced to Bids-----	1933	April	23
Also-----	1933	July-Aug.	15
Also-----	1934	July	27
Advertised for Bid (chronologically listed)-----	1932	March	15
Also-----	1932	April	18, 21, 44
Also-----	1932	May	30

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Projects—Continued.			
Also-----	1932	June	18, 27
Also-----	1932	July	22
Also-----	1932	Aug.	8, 18
Also-----	1932	Sept.	15
Also-----	1932	Oct.-Nov.	24, 32
Also-----	1932	Dec.	18, 28
Also-----	1933	Jan.-Feb.	16, 22
Also-----	1934	June	17
Monterey Coast, Seven New on-----	1934	Jan.	19
Sand Hills, Spectacular, Open to Traffic-----	1926	Aug.	4, 5
Seventeen Projects on Spring Pro- gram Under Way-----	1933	March	14, 16
State Offers 23,192 Road Projects for President's Work Fund-----	1935	March	14
State Street in Long Beach Area Completed (Eight Contracts), by Julien D. Roussel, Secre- tary California Highway Commission-----	1935	July	12-14, 29
Under Way in Monterey County-----	1933	March	13
Under Way on Monterey Coast-----	1934	Jan.	19
Progress Reports (chronologically listed)-----	1914	July	16-19
Also-----	1915	Jan.	2
Also-----	1927	Nov.	23-26, 39
Also-----	1928	Jan.	36-37
Also-----	1928	Feb.-March	36-37
Also-----	1928	April	40-42
Also-----	1929	Jan.-Feb.	20-31
Also-----	1929	July-Aug.	24-25
Also-----	1929	Nov.	34-37
Also-----	1929	Dec.	35-39
Also-----	1930	Jan.	31-36
Also-----	1930	Feb.	33
Also-----	1930	Feb.	34-37
Also-----	1930	March	35-40
Also-----	1930	April	28-30
Also-----	1930	May	35-36
Also-----	1930	June	32-36
Also-----	1930	Sept.	12-14
Also-----	1930	Oct.	29-30
Also-----	1930	Nov.	25-27
Also-----	1930	Dec.	27-29
Also-----	1931	Jan.	30-31
Also-----	1931	March	37-38
Also-----	1931	April	30-31
Also-----	1931	May	29
Also-----	1934	March	13
From Counties-----	1928	Sept.-Oct.	24-27
Also-----	1928	Nov.-Dec.	32-35
Also-----	1929	May-June	32-36
Also-----	1929	Mar.-April	27-28
Also-----	1929	Jan.-Feb.	33-36
Also-----	1929	Sept.	16-17, 22, 23

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Protect			
Methods Discussed to Protect Roads Against Landslides -----	1928	Nov.-Dec.	30-31
Protecting the Public in Connection with State Highway contracts	1915	Jan.	3, 4
Prunedale Cut-off			
Opened With Ceremony,			
By G. H. Tilton, Jr., District Construction Engineer -----	1932	Aug.	2, 22
To Be Opened in July -----	1932	April	17
Public Buildings			
Started by Governor Rolph -----	1932	Jan.	34-35
Public Work and Prosperity,			
By T. A. Reardon, Member Cali- fornia Highway Commission	1931	May	1, 7
Public Works			
Department's Activities Analyzed,			
By James I. Herz, Deputy Di- rector of Public Works -----	1931	July	9-10
Employees Benefit by Full Pay Work -----	1933	July-Aug.	8
Shows Record Breaking Year,			
By Col. Walter E. Garrison, Di- rector, Department of Public Works -----	1931	Dec.	1, 12, 29
Puncture Vine			
Aid of Public in Fight Is Welcomed	1926	Sept.	4
State Aiding the Control of -----	1928	July-Aug.	24
Waging War On -----	1932	May	24
Purcell, C. H., State Highway Engi- neer			
Appointed State Highway Engineer	1928	Feb-March	14-15
Budget Plan Has Reduced Overhead Costs -----	1929	Oct.	1, 13
Cables Spun Across San Francisco Bay -----	1935	April	12, 15, 24
California Highway Expenditures as Compared With Other States	1929	March-April	1-3
California's Highway Standing Analyzed -----	1931	June	4
Highway Program Underway With Federal Funds -----	1935	Aug.	1, 6-7
Honored by National Body -----	1932	Dec.	21
How State Cooperates in Building Highways Through Municipi- palities -----	1931	Oct.	5, 32-33
Interrelation of Airway and High- way Transportation -----	1929	Dec.	5-6, 30-31
New Designs in Highway Construc- tion -----	1930	April	1-2, 22
Next Ten Years in Highway Build- ing -----	1930	Dec.	3-4, 17
Present Status of State Highway Development in California --	1928	May-June	3-4, 22
Receives Honors from Alma Mater	1935	June	28
Record Breaking Plans for Trans- bay Bridge Tunnel -----	1932	Jan.	6-7, 17

	Year	Month	Page
Purcell, C. H., State Highway Engineer—Continued.			
Road Developments in California for 1928 -----	1929	Jan.-Feb.	4, 13
Road Machinery is Playing Larger Role in Road Building -----	1931	Feb.	25, 28
San Francisco-Oakland Bay Bridge Progress and Schedule -----	1935	Jan.	20
State Highway Construction Program -----	1928	Nov.-Dec.	2-3
Vehicle Miles Traffic on Highway, Survey Shows 7,802,000,000 -----	1935	March	6-7, 11

## Q

Questionnaire Answers Inquiries Concerning Highway Commission,			
By C. C. Carleton, Chief, Division of Contracts and Rights of Way -----	1934	May	8-9, 27

## R

Radio			
Station KPO. Making the Highways of California Safe (Address Given by B. B. Meek, Director of Public Works, Monday, Dec. 3, 1928) -----	1928	Nov.-Dec.	10, 29-30
Stream Gage (Automatic) Broadcasts Flood Warnings -----	1935	March	12, 29
Telephones for San Francisco-Oakland Bay Bridge -----	1933	Oct.-Nov.	29
Worth in Crime Prevention, By James Roche, Bureau of Communications Inspector -----	1931	July	6
Ramona Boulevard, a 6-Mile "Airline" Route Without Grade Crossings, By R. C. Myers, Assistant Engineer, District VII -----	1935	Feb.	6, 20, 24
Ranch Owner Thanked for Dedicating Right of Way -----	1926	Feb.	8
Ranson, L. M., Assistant Division Engineer			
New Bridge and Highway Link Southern Coast Cities -----	1925	April	6, 8
Rattlesnake Grade Loses 89 Kinks, By I. G. Thomas, Officer Engineer, District I -----	1932	Sept.	12, 18
Realignment			
Bakersfield Eliminates Five Grade Crossings, By Walter Beuthel, Assistant Highway Engineering Draftsman -----	1933	July-Aug.	4, 14

	Year	Month	Page
Realignment—Continued.			
Conejo Grade Project, By Justus F. Craemer, Assistant Director of Public Works----	1935	Nov.	10, 14, 22
Dublin Canyon Multi-lane Arterial, By John H. Skeggs, District Engineer-----	1934	Feb.	4, 19
Highway Over Santa Ynez Range via San Marcos Pass, By H. L. Cooper, Acting District Office Engineer -----	1935	Feb.	4, 15
Newman-Crows Landing Completed and Opened -----	1935	Nov.	16, 22
Nojoqui Grade, Santa Barbara County -----	1935	April	10, 28
Redding-Alturas Lateral Realign- ment, By J. B. Hodges, District Con- struction Engineer -----	1934	Jan.	16, 28
Redwood Highway in Humboldt County, By E. M. Cameron, District Con- struction Engineer -----	1934	Feb.	8, 15
Sausalito Saves 460,000 Vehicle Miles Daily, By Col. John H. Skeggs, District Engineer -----	1934	April	2, 22
Victory Highway Cuts Out Curves--	1934	April	12, 22
Reardon, Timothy A.			
Appointed Member California High- way Commission -----	1931	Jan.	6
Public Works and Prosperity-----	1931	May	1, 7
Reconnaissances Ordered -----	1913	May	3
Reconstruction Projects			
Completed on Redwood Highway--	1926	Oct.	8
New Methods Used on Important Projects in Division X, By J. C. McLeod, Division Engi- neer, Division X-----	1925	Feb.	3-4
Record			
Of 1924 -----	1925	Jan.	13
Progress of the State Highway----	1915	Jan.	17-23
Records, Pavement and Construction			
For 1933 on California Highways, By Earl Withycombe, Assistant Construction Engineer ----	1934	Sept.	6-7, 24, 28
Made in 1934, By Earl Withycombe, Assistant Construction Engineer ----	1935	Oct.	12-15
Tabulated for 1934-----	1935	Oct.	16-17
Recovery Act Code, Building Execu- tives Confer On-----	1933	July-Aug.	20
Red Menace Stop, by Preventing Fires	1931	June	1, 16
Red Rock Canyon Highway, By E. K. Guion, District Office Engineer -----	1931	Jan.	16

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Redington, Paul G., U. S. Forest Service			
Highway Needed to Develop California's Forests -----	1924	Sept.	3, 4
Redwood Empire Association, Annual Meeting -----	1931	Oct.	29
Report of Camp Sites and Park Sites -----	1924	April	5
Redwood Highway			
Benbow-Garberville Link Dedicated, By J. W. Vickrey, District Engineer -----	1935	June	6, 18
Big Lagoon Trestle Cuts Distance on Route -----	1926	Sept.	8
Curves Reduced by Realignment, By E. M. Cameron, District Construction Engineer -----	1934	Feb.	8, 15
Eel River Bridge Repaired With Redwood Blocks -----	1925	Sept.	11
"Hauser" Contract Awarded for Redwood Highway Unit -----	1927	May	4
Improvement Contrasts Old and New Standards, By F. N. Drinkhall, Locating Engineer -----	1932	Oct.-Nov.	18-19
Job Progressing Under Difficulties --	1927	July	8
Realignment in Humboldt County, By E. M. Cameron, District Construction Engineer -----	1934	June	18
Realignment in Humboldt County, By E. M. Cameron, District Construction Engineer -----	1934	Feb.	8, 15
Reconstruction Problems and Projects on the Redwood Highway, By F. W. Haselwood, District Engineer -----	1931	May	16-18
Section Relocated -----	1929	Nov.	13
Redwood Grove in Del Norte County Saved by League -----	1928	Feb.-March	15
Park Adorns State Highway -----	1930	April	3-4
Puncheons Used for Fills on Relocation, By J. W. Vickrey, District Engineer -----	1934	March	4, 19, 29
Russian River Will Be Open to Public This Summer, By Col. John H. Skeggs, District Engineer -----	1934	March	8, 29
Redwoods to Be Preserved -----	1931	July	25
Reed, Robert E.			
Legislation, New: Analysis Of ----	1935	Sept.	14-15, 22
Refrigeration, Ancient and Modern, By C. A. Henderlong, Assistant Engineer -----	1931	July	30-31
Relics, Interesting Ones Unearthed by Maintenance Crew -----	1925	March	15

	Year	Month	Page
Relief: Allocation of \$1,000,000 Assures 12,000 Californians Through Winter, By Earl Lee Kelly, Director of Public Works -----	1934	Sept.	1, 16
Camp			
Arroyo Seco Employment Camp in Operation -----	1932	Dec.	2, 20
Two Highway Camps Prove Successful -----	1932	March	12, 42
Employment			
Highway Jobs for 9000 Men Under Relief Employment-----	1932	Oct.-Nov.	1, 16
Relief Results From, By L. H. Gibson, District Engineer -----	1931	May	10
State Pays \$10,000 Daily in Wages to 4400 Road Workers	1932	Feb.	16
Relocation			
Abolishes Seventeen Curves Between Vacaville-Fairfield --- Grapevine Grade on Ridge Route, By E. E. Wallace, District Engineer -----	1935	Dec.	10, 17
Grapevine, Opened Sept. 11, 1934, By R. M. Gillis, District Engineer -----	1934	Sept.	8-9
Through Taft, Dedicated-----	1935	June	20
Report Forms, New, For Resident Engineers Issued, By H. A. Waterman, Construction Department -----	1925	April	14
Reports, Highway Divisions, I to VIII	1924	Jan.	11-15
Research			
Eastern Editors Republish Articles Highway Built, Testing Portland Cements	1926	April	2
By Thos. E. Stanton, Jr., Materials and Research Engineer-----	1932	Dec.	4, 24-25
Highway Research in the United States, By Thos. E. Stanton, Jr., Materials and Research Engineer-----	1929	Jan.-Feb.	8-9, 36
Supervisors Are Invited to Use Data -----	1925	Sept.	5
Revenue Bonds			
Building Bridges, From Sale of, By C. C. Carleton, Chief Division of Contracts and Rights of Way, Department of Public Works -----	1931	May	6-7
Court Okehs Bonds Issued Under Joint Highway District Act_	1931	Feb.	26-27
Ridge Route			
Alternate, Opened With Impressive Ceremonies, By R. C. Myers, Assistant Engineer -----	1933	Oct.-Nov.	2



	<i>Year</i>	<i>Month</i>	<i>Page</i>
Ridge Route—Continued.			
Eliminating Curves On-----	1925	Nov.	10
Means \$1,369,000 Annual Saving, By S. V. Cortelyou, District En- gineer -----	1932	July	4, 16, 26-27
New Location Unsurpassed for Mountain Alignment -----	1930	Jan.	9-10
Palm Leaf Fossil Unearthed on Relocation Through Grapevine Can- yon -----	1932	Jan.	39
	1935	Jan.	12
Right of Way			
Agents Appointed -----	1931	Jan.	29
Agents Form Association in South- ern California -----	1935	May	31
Development of the Right of Way. By H. D. Jerrett, Right of Way Agent, District III-----	1928	Sept.-Oct.	9-10, 23
How Wide Should It Be and How Should the Width Be Util- ized, By T. H. Dennis, Acting Mainte- nance Engineer -----	1928	Jan.	5, 15, 17
Men Discuss Problems-----	1932	Jan.	10
Rights of Way			
(Read at Fourth American Road Congress, Atlanta, Georgia, November 9-14, 1914), By A. B. Fletcher, State High- way Engineer -----	1915	Jan.	7-8, 15
Counties Provide Rights of Way and Bridges -----	1912	Oct.	8
In Eminent Domain-----	1926	Nov.	2
Securing Rights of Way for the State Roads, By C. C. Carleton, Attorney-----	1913	May	23
"Rim o' World" Road Partly Com- pleted -----	1931	Aug.	15
Rindge Ranch Conference Between California Highway Commis- sion and Rindge Corporation	1927	May	4
Rivett, A. I., Assistant to Maintenance Engineer			
Tragedy Springs -----	1933	Dec.	10-11
Road			
Boosters of 1911 Hooked Up Pana- ma Canal in Propaganda-----	1934	April	24-25
California Scores for Economy of Road Expenditures -----	1932	March	1, 18
Engineers From All Parts of World Meet at Washington, D. C.	1930	Oct.	22, 28
Improvements Secured Through New Contracts -----	1929	July-Aug.	21-22, 25
Inter-American Road Progress Out- lined -----	1931	July	19
Keeping Pace With Road Improve- ments -----	1931	Aug.	22, 30

	Year	Month	Page
Road—Continued.			
Permanent Road Construction, By A. B. Fletcher, State Highway Engineer -----	1914	July	12, 13
Problems in Road Building That California Is Now Investigating, By Thos. E. Stanton, Jr., Materials and Research Engineer -----	1930	Jan.	5-6, 27
Problems of Other Days, By Phil A. Stanton, Highway Commissioner -----	1931	June	13, 24
Road Hogs and Highways-----	1925	Aug.	10
Sinking of Road Fill Stopped by Dynamite, By Col. John H. Skeggs, District Engineer -----	1931	Nov.	10-11
Some Ideas on Road Building, By T. A. Bedford, Division Engineer -----	1924	July	12
State-County Road Mileage Study-- "You Have to Move Dirt to Build a Road," By F. J. Grumm, Engineer Surveys and Plans-----	1931	April	15
	1924	Feb.	5, 6
Oil			
California Highway Commission's Specifications for ----- Specifications and Tests, By Clarence B. Osborne, Geologist for California Highway Commission -----	1915	Jan.	16
1914	July	6, 7	
Plan			
Governor's Plan Would Have Cut Taxes \$60,000,000 in Last Five Years, By Earl Lee Kelly, Director of Public Works -----	1935	April	1, 8-9, 18
New Road Reveals New Standards, By C. H. Whitmore, District Engineer -----	1929	Dec.	7, 25
Revenue: Marsh Estimates, By Will H. Marsh, Chief, California Division of Motor Vehicles -----	1924	Feb.	6
Roads			
"Bind the Republic Together With a Perfect System of Roads," By John C. Calhoun, House of Representatives 1817 -----	1925	June	3
List of Roads in 6600 Mile Program of the Future Being Evolved, By Thos. E. Stanton, Jr., Materials and Research Engineer-----	1933	April	1, 26-32
1932	July	18, 20-21	
Roman Roads and the American "Federal Aid" System-----	1927	April	7
Savings From Good Roads-----	1915	Jan.	11
Temporary Roads -----	1915	Jan.	2

	Year	Month	Page
<b>Roadside</b>			
Advertising Regulations Reported on by U. S. Road Bureau-----	1929	May-June	23-24
Beautification Report Sent to Legis- lature-----	1933	April	6, 25
Landscaping Program for 1936, By H. Dana Bowers, Landscap- ing Engineer-----	1935	Dec.	14, 28
Planting Projects for 1935, By H. Dana Bowers, Landscape Engineer-----	1935	April	6-7, 24
Planting to Improve Main Highways	1928	Nov.-Dec.	28
Protecting Trees in Cooperation with Public Utilities, By E. S. Whitaker, Assistant State Arboriculturist-----	1934	Oct.	10-11, 17, 24, 26
<b>Roadsides</b>			
Beautification of Roadsides in Southern California, By H. Dana Bowers, Landscape Engineer-----	1932	Sept.	2, 32
Also-----	1932	Oct.-Nov.	34
Massachusetts' Plan for Beautifying Its Roadsides-----	1929	Oct.	22
New Deal in Slope Treatment, By E. S. Whitaker, Assistant State Arboriculturist-----	1934	July	6, 11
Spraying and Burning 2300 Miles, By T. H. Dennis, Maintenance Engineer-----	1932	Feb.	6
<b>Roadways, Mountain-----</b>	1915	Jan.	2
<b>Roche, James, Bureau of Communi- cation Inspector</b>			
Radio's Worth in Crime Prevention	1931	July	6
<b>Rock Fill for Highway Built by Blast, By L. H. Gibson, District Engineer-----</b>	1935	Aug.	28
<b>Rockingham, W. H., Engineer, Divi- sion of Architecture</b>			
How California Is Developing an Adequate Encampment for the National Guard-----	1929	Sept.	18-21
<b>Roller Skating on the State Highway</b>	1913	May	23
<b>Rolph, James, Jr., Governor</b>			
Call Puts 3600 Men to Work, By A. L. Banks, Assistant Deputy Director of Public Works---	1931	Oct.	1, 16
Completes Visit to 58 County Seats	1931	Nov.	4, 44
Dedicates			
Bridge at Riverside-----	1934	March	20
California Institution for Women near Tehachapi-----	1932	May	28, 40
Highway Link in Anaheim-----	1932	March	22-23
Dedication and Ground Breaking Program-----	1932	Feb.	24, 55

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Rolph, James Jr., Governor—Continued.			
Governor's Water Commission Reports Plan to Solve State's Great Problem.....	1932	June 1, 10-11, 24-25,	36
Letter to the Building Industries... To Mayors Requesting Job Quotas .....	1932	April	11
"My Highway Creed".....	1931	Oct.	17
Orders Full Pay Week.....	1931	Jan.	1
Outlines Policies Governing Public Works Program.....	1933	July-Aug.	9
Signs Bills Providing Orderly Additions to State Highways.....	1931	Jan.	17-20
Signs Gasoline Tax Collection Laws	1931	April	3-6, 20-24
Starts Four Public Buildings.....	1931	April	14
State Printing Plant Addition, Ground Breaking Ceremonies.....	1932	Jan.	34-35
State Water Plan Negotiations; Progress with United States..	1931	Dec.	42
Tells Legislature Progress of Public Works Program.....	1934	Jan. 1, 8-10, 20-21	
Tuolumne Bridge Opened at Modesto .....	1931	March	19-22, 25
Urges Voters to Support State Water Plan .....	1933	July-Aug.	30-31
Writes Letter to Thos. E. Stanton, Jr., Relative to State Employees .....	1933	Oct.-Nov. 1, 12-13, 20-22	
Roster of Highway Commissioners and Engineers (chronologically listed).....	1931	April	16
Also.....	1916	July	2
Also.....	1924	Jan.	2
Also.....	1924	Feb.	2
Also.....	1924	March	2
Also.....	1925	Jan.	2
Also.....	1925	Sept.	2
Also.....	1926	Jan.	2
Also.....	1926	April	2
Also.....	1927	Jan.	2
Also.....	1927	Feb.	2
Also.....	1927	April	2
Also.....	1927	May	2
Also.....	1927	July	
Also.....	1927	Aug.	2
Also.....	1927	Nov.	41
Also.....	1927	Dec.	45
Also.....	1928	Sept.-Oct.	24
Also.....	1929	May-June	17
Also.....	1930	Jan.	41
Also.....	1931	Jan.	41
Also.....	1931	Dec.	45
Also.....	1932	July	41
Also.....	1933	Dec.	33
Also.....	1934	Aug.	33
Also.....	1934	Dec.	33
Also.....	1935	May	33
Also.....	1935	Dec.	33

	Year	Month	Page
"Roughograph" Invented to Locate Pavement Bumps, By E. L. Seitz, Resident Engi- neer, District VII-----	1934	June	24
Roussel, Julien D. Appointed Secretary of Highway Commission-----	1935	Feb.	8
Budget, Revised-----	1935	Sept.	1, 8-12
Eight Contracts Completed on State Street Projects, in Long Beach Area-----	1935	July	12-14, 29
Routes Controversies Over Routes Reviewed	1913	May	7, 10-11
Principal Highway-----	1915	Jan.	24
Routing By-Pass Routing Through Cities, By Fred J. Grumm, Engineer of Surveys and Plans-----	1931	Dec.	14, 26-27
Complete Text of Feather River---	1928	April	36-40
Improved Routing Is Formally Adopted for State Highway Route No. 1-----	1930	June	13
The State Highway, By Attorney General U. S. Webb	1912	Oct.	4-6, 7
Rubidoux Bridge at Riverside Under Construction-----	1931	May	11
Rumsey-Clear Lake Highway Dedicated by Governor Merriam---	1934	Aug.	28
Russian River Route Mountain Barrier Eliminated by New Route, By Col. J. H. Skeggs, District Engineer-----	1932	Feb.	2, 12-13
Nearing Completion-----	1934	March	8, 29

## S

Safety A Factor-----	1914	July	5
Built Into Monumental Southern Projects in San Diego County	1926	Oct.	3-4, 5
Devices on State Highway, By W. A. Smith, Assistant Main- tenance Engineer-----	1932	July	36
Few Thoughts on Speed and Safety	1927	Nov.	15
First-----	1914	July	2
Offer Trophy for Safety Work, By Helen Lucile Holt, Safety Conference, California State Chamber of Commerce-----	1930	April	20
Statistics Teach "Safety First" Les- son-----	1931	April	35
Salinas Subway and Grade Separ- ations Shown by Model, By H. D. Stover, Designing Engi- neer of Bridges-----	1935	March	4
Salinity Studies in the Delta-----	1929	Sept.	12

	Year	Month	Page
Salton Sea: Building North Shore Road Along, By W. Beuthel, Assistant Highway Engineering Draftsman	1934	April	4, 19, 32
San Bernardino			
Dangerous Viaduct to Be Replaced, By Glenn L. Enke, Associate Bridge Designing Engineer	1933	Oct.-Nov.	4, 19
Division Headquarters Credit to State	1927	Feb.	8-9
Mt. Vernon Avenue Viaduct Opened	1934	June	6
San Diego			
Celebrates Completion of Million Dollar Highway, By E. E. Wallace, District Engineer	1934	Jan.	6, 32
International Exposition: State Exhibit, By E. J. Neron, Deputy Director of Public Works	1935	May	2, 24
More Improvements for San Diego Coast Route	1925	Feb.	8
Teachers' College Shows How State Is Planning for Future, By George B. McDougall, Chief Division of Architecture	1929	Oct.	14-15, 19
San Fernando Pass, Historic and Forgotten, By Ben Blow, Field Secretary, N. A. C.	1929	July-Aug.	11-12
San Francisco-Oakland Bay Bridge			
Bay Borings; Progress Report On "Bay Bridge Trains" Bill Signed by Governor Merriam	1930	May	8
Bells to Warn Mariners	1935	June	11
Bells to Warn Mariners	1935	Oct.	8, 29
Bid Opening in Joint Session of Legislature in Assembly Chamber	1933	March	1
Bonds Amounting to \$61,400,000 Sold to United States	1933	May-June	1, 4-5, 21
Bridge Cable; Hugh Shuttling Wheels Will Spin	1935	Feb.	12, 21
Cable Spinning Operations on Bridge Started by Governor Merriam	1935	July	1-2
Cables Across San Francisco Bay By C. H. Purcell, Chief Engineer	1935	April	12, 15, 24
Center Anchorage World's Largest Box Camera	1935	Aug.	8, 29
Ceremonies Initiate Transbay Bridge Work	1932	Feb.	22-23, 39
Compacting Begun on Bridge Cables	1935	Oct.	8, 20
Contract to Be Let for Bay Bridge Foundation Borings	1931	Sept.	14
Contracts Amount to \$45,000,000	1933	March	1, 8-9
Deep Water Structure Celebrated; Completed	1934	Oct.	19

	Year	Month	Page
San Francisco-Oakland Bay Bridge— Continued.			
Distribution Structure Plan for Approach,			
By Paul O. Harding, Senior Bridge Field Engineer-----	1935	March	16-17
Engineer Board Approves Transbay Bridge Plans,			
By C. A. Andrew, Engineer for San Francisco-Oakland Bay Bridge -----	1931	Oct.	12-13
Federal Financing Possible for San Francisco-Oakland Bay Bridge	1932	July	10-11
Permit to Build Presented to Governor Rolph by Admiral Cole at Official Start of Work on Transbay Bridge--	1932	Feb.	23, 39
Final Plans Adopted for San Fran- cisco-Oakland Bay Bridge--	1932	April	22-23, 42
First Annual Report-----	1934	Jan.	4, 26
Fiscal Advisory Board for San Fran- cisco-Oakland Bay Bridge---	1932	June	6, 35
Foundation Tests; Drilling Machine Developed For,			
By A. C. North, Assistant Bridge Construction Engineer-----	1932	June	16
Garrison, Colonel, Director of Pub- lic Works, Asks United States for Permit to Build--	1931	Jan.	12
Ground Breaking			
Ceremonies Officially Dedicating Construction -- Governor Rolph in Charge-----	1932	Feb.	24, 25
Plans for -----	1933	May-June	6
Hard Rock Miners Boring Bay Bridge Tunnels -----	1934	Feb.	31
Hundred to Work on San Fran- cisco-Oakland Bay Bridge; Governor Rolph Starts-----	1933	July-Aug.	2, 12-13, 26
Mastodon Bones Found Under Pier	1934	March	31
May Be Completed by July, 1937--	1931	June	2-3, 5
Models to Decide Bridge Safety---	1931	June	5
Monolith Pier for No. 2 San Fran- cisco-Oakland Bay Bridge Completed -----	1933	Dec.	14-15
New Cable Spinning Feature for Bay Bridge -----	1935	June	24
Nine Million Savings in San Fran- cisco-Oakland Bay Bridge Bids -----	1933	April	4, 15
Novel Caisson Methods Used for Bay Bridge -----	1933	Oct.-Nov.	14-15, 27
Photograph: First, of Model-----	1931	Nov.	24-25
Progress and Schedule for San Francisco-Oakland Bay Bridge -----	1935	Jan.	20
Project: Conclusions on San Fran- cisco-Oakland Bay Bridge Announced by Hoover-Young Commission -----	1930	Dec.	8, 20

	Year	Month	Page
San Francisco-Oakland Bay Bridge— Continued.			
Radio Phone Connects San Francisco-Oakland Bay Bridge Projects -----	1933	Sept.	18
San Francisco End Described -----	1934	April	16-17
Six Months Ahead of Schedule on San Francisco-Oakland Bay Bridge -----	1934	July	24
Sodium Vapor Lights for Bay Bridge -----	1935	June	28
Steel Erection Starts on Bridge Pier II -----	1934	March	14
Submarine Battle of Bay Bridge Won -----	1934	June	27
Suits Test Validity of Bonds -----	1933	April	4, 15
Supreme Court Decision in San Francisco-Oakland Bay Bridge Case -----	1931	May	19-20, 21
Testimonial Award-Facsimile, San Francisco-Oakland Bay Bridge -----	1933	May-June	7
Toll Houses, Sixteen -----	1935	May	12
Transbay Bridge Tunnel, Record Breaking Plan For, By C. H. Purcell, Chief Engineer, San Francisco-Oakland Bay Bridge -----	1932	Jan.	6-7, 17
Yerba Buena Tunnel:			
Core Completely Removed -----	1935	Dec.	26
Governor Merriam Heads First Party Through -----	1934	Aug.	16
Safety Method of Boring -----	1935	Sept.	20
San Francisco's Road Problems, Solving			
By Col. J. H. Skeggs, District Engineer, Dist. IV -----	1928	April	8-9, 31
San Gabriel Canyon Highway Project; State Cooperating in			
By R. C. Myers, Assistant Engineer, District VII -----	1933	May-June	8-9, 18, 23
San Gabriel Dam			
Report -----	1929	Dec.	14-15, 33-34
To Be the World's Largest -----	1927	May	8
San Joaquin County Second Project Completed -----	1926	Feb.	8
San Juan Bautista New Highway Opened, By L. H. Gibson, District Engineer -----	1935	Sept.	16
San Juan Grade Cut-Off, Building The, By L. H. Gibson, District Engineer -----	1931	Oct.	14-15
San Julian Cut-Off Officially Opened -----	1933	May-June	16
San Marcos Pass Realignment -----	1935	Feb.	4, 15



	<i>Year</i>	<i>Month</i>	<i>Page</i>
San Simeon-Carmel Route Not Open to Public -----	1935	Oct.	7
San Quentin, Women Prisoners of San Quentin Building, Providing 683 Additional Cells, By W. K. Daniels, Administrative Assistant, Division of Architecture -----	1928	Jan.	7, 12
1932	Sept.	20	
Sand Hills Road, By E. Q. Sullivan, District Engineer, District VIII -----	1928	Nov.-Dec.	14
Santa Ana River Report Ready for Distribution -----	1930	March	23
Santa Barbara Through Traffic Boulevard Officially Opened, By L. H. Gibson, District Engineer -----	1934	Nov.-Dec.	6, 28
Santa Maria Trestle, Interesting Bridge Project -----	1927	March	12, 13
Santa Monica Bathing Beach—Engineers Make Ocean Build a Mile -----	1934	May	12
Building Last Unit of Coast Project -----	1935	June	4, 22-23
Magnificent Highway Is Formally Opened -----	1929	July-Aug.	6-8, 27
Tunnel Built in Open Cut on Concrete Piles, By P. R. Watson, Resident Engineer -----	1935	Nov.	2, 28, 32
Sausalito Abolishing Bottleneck, By Col. John H. Skeggs, District Engineer -----	1933	March	2, 12
Cloverdale-Hopland Project; Great Caravan Officially Opens -----	1934	Aug.	4-6, 26
Shows the Way; Municipal Bonds for Good Roads -----	1913	May	20
Scenic Highways and Billboards, By Frank H. McKee, Director of Highways, California Chamber of Commerce -----	1929	Dec.	12-13
Keep Highways Scenic, By Mrs. Charles N. Felton, Chairman California Committee for Restriction of Outdoor Advertising -----	1930	Feb.	15, 27
Skyline Boulevard, By Col. John H. Skeggs, District Engineer -----	1930	Oct.	14-16, 19
Schenck, Joseph M., Appointed to California Highway Commission -----	1927	Aug.	2

	Year	Month	Page
School Building Law, How State Is Enforcing Safe			
By C. H. Kromer, Principal Structural Engineer-----	1934	July	14-15, 26
School Construction, State Control Assures Safe			
By George B. McDougall, Chief, Division of Architecture----	1933	April	8-9, 11
"School—Slow" to Be Painted on State Highways at Approach to Schools-----	1927	Dec.	18
Schreiber, H. W., Maintenance Superintendent, Division IV			
Division IV Tries New Crossing Warning-----	1924	Nov.	14
Scott, E. T., Maintenance Superintendent			
Economical Pipe Culvert Extension	1924	July	3-4
Six-legged Tetrahedron-----	1928	Feb.-March	3-4, 15
Slow Truck Traffic on Narrow Highways Costly to the Motoring Public-----	1927	May	11
Waterproofing a Reinforced Concrete Highway Bridge-----	1925	March	8-9
Seal (new) Adopted by California Highway Commission-----	1924	Dec.	14
Secondary Road			
Bridges Require Expenditure of \$3,000,000 to Make Them Safe,			
By Stewart Mitchell, Bridge Construction Engineer-----	1935	Jan.	2, 14, 18
Requests Greatly Exceed Quota---	1932	May	23
Secret Service Corps to War on Incendiarism-----	1931	Sept.	2
Seitz, E. L., Resident Engineer, District VII,			
"Roughograph" Invented to Locate Pavement Bumps-----	1934	June	24
Sepulveda Boulevard Link Dedicated by Governor Merriam,			
By P. A. McDonald, Assistant Office Engineer-----	1935	Nov.	4, 18, 30
Seymour, Fred R., Supervisor Prison Road Camps			
Value of Prison Camps-----	1931	July	43-44
Sheet Steel Piling; Installing on Ventura Coast,			
By R. C. Myers, Assistant Engineer, District VII-----	1934	Sept.	4, 20
Sign Vandal Punished-----	1927	Dec.	17
Signboard Menace, Abatement of, Along Roads-----	1928	Nov.-Dec.	6

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Signs			
Cautionary-----	1915	Jan.	4
Laboratory Tests Efficiency of Reflectorized Buttons, By Thos. E. Stanton, Jr., Materials and Research Engineer	1933	Dec.	6-7, 16, 22
"Men and Equipment" Mean Protection to Crews-----	1932	May	8
New Signs Reduce Hazard at Road-Railroad Crossings-----	1929	March-April	15
Reflectorizing at Important Intersections, By T. H. Dennis, Maintenance Engineer-----	1932	March	8-9, 29
Roadside Structures; Necessity and Method of Control, By Dr. L. I. Hewes, Chief Engineer, U. S. Bureau of Public Roads-----	1929	Oct.	9-10, 12
Speed Signs on Dangerous Spots-----	1932	Dec.	25
State Highways to Be Signed and Numbered. List of State Route Sign Numbers, By T. H. Dennis, Maintenance Engineer-----	1934	Aug.	20, 32
State Route, First One Is Installed at Carmel-----	1934	Oct.	31, 33
Warning Signs on State Highways Revamped-----	1931	Aug.	7
Skeggs, Col. John H., District Engineer			
Abolishing Sausalito Bottleneck-----	1933	March	2, 12
Aleman Boulevard Extension Completed-----	1935	Nov.	20, 22
Bay Shore Highway Dedication-----	1929	Nov.	9-10, 26
Bay Shore Highway Link Completed "Braided" Crossing, Latest Phase in the Evolution of Express Highways-----	1933	July-Aug.	24-26
East Bay Highways; Important Progress on-----	1930	Dec.	5-7, 20
El Camino Real, A Modern Highway	1930	July-Aug.	14, 23
Engineers Save Highway in 200,000 Yard Slide-----	1930	May	6-7, 32-33
"Federal Aid" Routes in San Francisco Widened by State-----	1935	April	22
Los Gatos-Santa Cruz Link Eliminates 130 Curves-----	1935	July	4, 11
Looking Backward-----	1934	July	20, 31
New Russian River Route Eliminates Mountain Barrier-----	1927	Aug.	7
Realignment Dublin Canyon, a Multi-Lane Arterial-----	1932	Feb.	2, 12-13
Rolph, Governor James, Jr., Opens New Unit of Bayshore Highway-----	1934	Feb.	4, 19
Russian River Highway Nearing Completion-----	1931	May	2, 40
	1934	March	8, 29

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Skeggs, Col. John H., District Engineer—Continued.			
Sausalito Realignment Saves 460,000 Vehicle Miles Daily-----	1934	April	2, 22
Scenic Skyline Boulevard-----	1930	Oct.	14-16, 19
Sinking of Road Fill Stopped by Dynamite-----	1931	Nov.	10-11
Sloat Boulevard, State Completes NRA Project-----	1935	Jan.	6
Solving San Francisco's Road Problems-----	1928	April	8-9, 31
State Completes New Link of Junipero Serra Boulevard-----	1934	Oct.	2, 16
Skyline Boulevard, New Section Adds 12.3 Miles to,			
By A. W. McCurdy, Assistant Division Engineer-----	1925	Dec.	9
Slides and Surface Failures Caused by Abnormal Winter,			
By C. F. Woodin, Assistant Maintenance Engineer-----	1935	July	24-25, 30, 32
Sloat Boulevard Completed,			
By Col. John H. Skeggs, District Engineer-----	1935	Jan.	6
Slogans, Awards Offered for Statewide Safety Campaign-----	1930	Dec.	14
Slope Treatment, New Deal,			
By E. S. Whitaker, Assistant State Arboriculturist-----	1934	July	6, 11
Smith, Al, Governor of New York			
An Engineers Job-----	1926	March	4
Smith, Jediah, 100 Years After,			
By Thos. E. Stanton, Jr., Assistant State Highway Engineer-----	1928	May-June	13-15, 23
Smith, Lowell R., Purchasing Agent, California Highway Department			
Department Purchases Cover Wide Fields-----	1924	Dec.	8, 9
Smith, W. A., Assistant Maintenance Engineer			
Cost of Snow Removal from State Highways-----	1927	Sept.-Oct.	8
Maintaining the State Highways--	1928	July-Aug.	9, 10
Safety Devices on State Highway--	1932	July	36
Ten Miles of Elms Planted on Highways-----	1932	March	31
Traffic Control in Oiling Operations	1932	May	14-15
Traffic Lane Stripe on State Highways-----	1927	Sept.-Oct.	9, 10
Traffic Striping Machine, New-----	1935	July	22, 29
Snow			
Annual Battle with,			
By T. H. Dennis, Maintenance Engineer-----	1933	Dec.	4, 19, 24

Snow—Continued.	<i>Year</i>	<i>Month</i>	<i>Page</i>
Area, Winter Traffic Count Reveals Increase on Highway-----	1932	Feb.	9
Battling on State Highways, By T. H. Dennis, Maintenance Engineer-----	1930	Feb.	3-4, 25
Clearing the Highways of, By J. W. Vickrey, District Maintenance Engineer, District III-----	1931	May	12-14
Conditions, Study of on State Roads Is Undertaken-----	1925	March	4
Conquest, In Mono an Epic of Heroic Effort, By F. G. Somner, District Engineer, (Retired)-----	1932	June	28-30
Crews Cleared 4500 Miles of Highway Last Winter-----	1935	Aug.	30
Equipment Opens Trans-Sierra Road, By T. H. Dennis, Maintenance Engineer-----	1934	April	20, 32
Fighters Keeping 4000 Miles of Highway Open, By T. H. Dennis, Maintenance Engineer-----	1935	Dec.	4, 22, 30, 32
Fighters Win Victory in Sierras, By A. L. Banks, Deputy Director, Department of Public Works	1932	Jan.	2-4
Fighting Forces All Ready for Battle-----	1935	Oct.	29
Fighting, on Mountain Highways, By T. H. Dennis, Maintenance Engineer-----	1931	Dec.	2, 16-17, 38
Mountain Roads of Northern Counties Open Despite of, By S. W. Lowden, District Maintenance Engineer-----	1928	Feb.-March	28
Pack Blast to Open Inyo-Mono, By F. G. Somner, Division Engineer, Division IX-----	1927	May	9
Precipitation Above Normal for February, By Harlowe M. Stafford, Supervising Hydraulic Engineer----	1932	Feb.	4-5
Plows Highway Shops Build Two Largest-----	1933	Sept.	8
One Hundred fifty-five in Number Ready to Keep Road Clear By T. H. Dennis, Maintenance Engineer-----	1934	Oct.	20, 27
Removal Cost of, from State Highways, By W. A. Smith, Assistant Maintenance Engineer-----	1927	Sept.-Oct.	8

Snow—Continued.	Year	Month	Page
Pays Dividends to Motorists and State, By T. H. Dennis, Maintenance Engineer -----	1933	Jan.-Feb.	6, 21
Severe Winter Emphasizes Importance of -----	1927	Feb.	5
Removing From Mountain Roads -----	1928	Jan.	24, 28
Improvements Made in Road Machinery For -----	1928	Nov.-Dec.	31
Report March 1st Report Shows Light on Mountain Courses -----	1931	March	28
Slide Kills Highway Worker -----	1935	May	30-31
Sports, Roads Make Possible in California -----	1928	Jan.	15
Survey April Bulletin of, and Precipitation Data -----	1931	April	7, 24
Data Announced, First 1931 -----	1931	Feb.	23-24
January Bulletin of, and Precipitation Data -----	1930	Feb.	33
Run-off Predictions From -----	1930	April	10-11
Shows Extent of Melting -----	1930	June	7
Shows Increasing Danger of Water Shortage -----	1931	May	14
Surveyors, Perilous Adventure of, By S. M. Munson, Assistant Snow Supervisor -----	1932	March	38-39
Tunnel, Story of -----	1932	Sept.	35
Snows, Heavy, Still Block Sierra Highway -----	1927	April	9
Soil Treatment in Highway Construction, By C. S. Pope, Construction Engineer -----	1932	Oct.-Nov.	20, 33
Soils, Field Tests for Determination of Adverse, By C. S. Pope, Construction Engineer -----	1925	Nov.	9
Solano County Profits by State Highway Bond Purchase -----	1927	Feb.	12
Lateral Subgrade Experiments, By C. L. McKesson, Research Engineer -----	1925	Aug.	9
Solomon Canyon Cut-off to Save Thousands for Motorists ----- By N. D. Douglas, Assistant Engineer, Surveys and Plans	1932	April	24-25
Sömner, F. G., Division Engineer, Division IX Blast to Open Inyo-Mono Snow Pack -----	1927	May	9
Building Highways With General Maintenance Fund -----	1926	Jan.	3, 11

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Somner, F. G., Division Engineer, Division IX—Continued.			
Closing the East-of-the-Sierras Gap	1931	March	9-12, 18
Grades of Mountain Highways----	1914	July	14
Locating Mountain Roads-----	1914	July	4
Sonora Pass Road Gets Repairs-----	1926	Aug.	15
Special Advisory Committee			
Inspection of Highways Started---	1924	April	10
Organize; Discuss Plans-----	1924	March	5
Reports -----	1924	May	7
Spectacular Job at Bottom of Sea, Moving Telephone Cables---	1931	July	12
Spreader Box Improved for Oil Rock Borders,			
By C. S. Pope, Construction En- gineer -----	1935	Sept.	25, 30
Stability, Durability and Economy in Its Buildings,			
How the State Secures,			
By D. C. Willett, Assistant Structural Engineer, Division of Architecture -----	1930	Nov.	6, 13
Stafford, Harlowe M., Hydraulic En- gineer, Division of Water Resources			
Measuring the Water Crop in Cali- fornia's Snow Fields-----	1929	Nov.	1-2, 19-21
Orchards, Rice and Other Crops Saved by Cooperation-----	1931	Aug.	18-19
Report on Five Seasons Study of Sacramento-San Joaquin Water Area -----	1930	Sept.	5-6, 26-27
Sacramento-San Joaquin Water Problems -----	1928	Feb.-March	7-8, 30-32
Snow Pack and Precipitation Above Normal for February-----	1932	Feb.	4-5
State's Water Shortage a Grave Problem -----	1931	June	25-26
Stage Driving Pioneer Compares With Modern Ways,			
By Almon Coonrod, Engineer District VIII -----	1928	July-Aug.	25
Stalnaker, R. H., Equipment Engi- neer,			
Equipment Department Functions Outlined -----	1924	May	3, 4
Equipment Department to Finance Experiments for Devices for Highway Equipment-----	1926	Feb.	11
Impressions of the Chicago Con- vention and Road Show-----	1925	Feb.	7
New Type of Paving Machine Ex- hibited at Road Builders Show -----	1932	Feb.	8
One-Man Tree Watering Outfit----	1925	July	9
Results of Tests of Air-cleaners on Trucks in Service-----	1925	April	3-5, 13

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Standard Specifications For Future Construction, By L. V. Campbell, Office Engineer -----	1925	June	9
New, By R. M. Morton, State Highway Engineer -----	1924	Jan.	8
Revised Edition of, By L. V. Campbell, Office Engineer -----	1927	June	10, 11
Revised Highway -----	1930	March	9-10
Stanton, Philip A., Appointed Member California High- way Commission -----	1931	Jan.	7, 12
Dedicates New Concrete Buaro Bridge Over Santa Ana River	1934	Nov.-Dec.	31
Recovering From Severe Illness---	1935	March	29
Road Problems of Other Days-----	1931	June	13, 24
Stanton's, Commissioner, "Official Car" Wrecked -----	1932	Aug.	19
Stanton, Thos. E. Jr., Assistant State Highway Engineer, (now Materials and Research Engi- neer.)			
Congress Adds Over \$6,000,000 to California Highway Building Fund -----	1928	July-Aug.	11
Highway Interests Seek Uniformity in Specifications for Asphalt Road Oils -----	1931	Feb.	29
Highway Research in the United States -----	1929	Jan.-Feb.	8-9, 36
Laboratory, Research Forced to Extend Building -----	1934	Oct.	14-15
Laborator-ing California's Highways Letter to, From James Rolph Jr., Governor, re State Employees	1929	Dec.	18-21, 31
"Oil Mix" Method-----	1931	April	16
One Hundred Years After Jedediah Smith -----	1927	Nov.	12-13, 32-33
Pioneer District Engineer Somner Resigns From Service-----	1928	May-June	13-15, 23
Problems in Road Building that California Is Now Investi- gating -----	1932	April	38-39
Reasons for Creations of New Di- visions -----	1930	Jan.	5-6, 27
Reflectorized Sign Buttons Tested-	1924	Feb.	9
Research Highway Built in Testing Portland Cement -----	1933	Dec.	6-7, 16, 22
Roads of the Future Being Evolved	1932	Dec.	4, 24-25
State Research Experts Develop Durable Traffic Line (White)	1932	July	18, 20-21
Paint Formula -----	1931	Dec.	8, 11
"Surface Treatment" Method of Oiling Roads -----	1927	Dec.	13, 28, 29, 30
U. S. and Western States Engineers Confer on Road Materials---	1934	Nov.-Dec.	16, 28-29



	Year	Month	Page
State			
Building in Los Angeles Dedicated Cooperate With Cities on State Improvements,	1932	July	24-25
By L. V. Campbell, Engineer City and Cooperative Projects----	1934	May	1, 10-11, 22
Edifices in South Dedicated With Governor James Rolph, Jr., Chief Speaker -----	1931	March	5-6, 28
Fair Attendance, How Highway De- velopment Increases -----	1934	Aug.	24, 27
Department Exhibit Attracts Crowds at -----	1931	Sept.	18
Promises to Be Most Colorful in History -----	1931	Aug.	32
Public Works Department Exhibit At -----	1932	Sept.	24
Forces Cooperate in Suppressing Fires,			
Convicts Volunteer to Assist----	1924	Sept.	5
Highway			
And the Cities-----	1913	May	2
Construction Severely Tested----	1913	May	14
Plotting Plans and Profiles for Layouts For -----	1913	May	24
Highway Engineer, A Message From the, To Employees of the California Highway Commis- sion,			
Contributions of Real Merit to Be Printed in "California Highways"			
By R. M. Morton, State Highway Engineer -----	1924	Jan.	7
Highway Officials National Con- vention, Problems Discussed			
By Harry A. Hopkins, Chairman, California Highway Commis- sion -----	1933	Oct.-Nov.	8-9, 25, 27
Highway System, Maintenance of The			
By A. J. Wagner, Maintenance Engineer -----	1924	March	3, 4, 6
Highway Trust, Administration of.	1913	May	4-5, 6
Highway Work, Detailed Progress Report of -----	1913	May	16-19
Institutions, Progress Work at----	1929	Sept.	14
Official Marker First, to Designate an Historical Landmark, (First Orange Tree) -----	1933	March	21, 36
Printing Office Reorganized-----	1912	Oct.	14
Printing Plant Addition, Governor Rolph Dedicates -----	1932	Dec.	17
Research Experts Develop Durable Traffic Line (White) Paint Formula,			
By Thos. E. Stanton, Jr., Ma- terials and Research Engineer	1931	Dec.	8, 11

	Year	Month	Page
State—Continued.			
Road Work Authorized-----	1927	May	4
Route Marker: First New, Erected at Carmel-----	1934	Oct.	31-32
Signs: New, Southland Routes Marked-----	1935	Feb.	18
Supervision of Dams, By George W. Hawley, Deputy in Charge of Dams-----	1930	June	5-6, 19
Water Plan: Important Develop- ments In, By A. D. Edmonston, Deputy State Engineer-----	1932	March	4-5, 16-17
Water Plan Negotiations With United States: Progress, By James Rolph, Jr., Governor of California-----	1934	Jan.	1, 8-10, 20-21
Work, The Architect's Part in the By Harry W. DeHaven, Chief Architectural Draftsman---	1930	June	8, 16
State's Highway Officials in Conven- tion Urge Reforms, By Harry A. Hopkins, Chairman, California Highway Commis- sion-----	1934	Nov.-Dec.	8-9, 19, 22
Steel Bridge Over Eel River in Hum- boldt County in California Wins National Beauty Con- test Award, By W. A. Douglass, Assistant Con- struction Engineer of Bridges	1935	June	2, 19
Stern, Charles F., Appointed to Cali- fornia Highway Commission vice Burton A. Towne-----	1914	July	11
Stover, Harvey D., Engineer, Bridge Department, Barstow Overhead Crossing-----	1930	June	3-4
Building Longest Concrete Arch in State at Bixby Creek-----	1932	May	4
Graphic Charts and Their Use in Bridge Designing-----	1927	Feb.	6-7
Lighting Experiment at McConnell Subway-----	1935	Feb.	30
McConnell Subway Has Largest Plate Steel Girders in State	1934	Sept.	30
Salinas Subway Model-----	1935	March	4
San Gabriel River Bridge: Unusual Features-----	1933	Dec.	26-27
"Straight From the Chief," By R. M. Morton, Chief Highway Engineer-----	1926	May	2
Stream Banks, Plan for Protecting Successful in Division V-----	1925	Feb.	10
Striping the Highways-----	1929	Mar.-April	3
Structural Engineers Now Licensed---	1932	Jan.	28
Structures: Three Large Ready for Contract-----	1924	April	5

	Year	Month	Page
Stump, E. L., Maintenance Superintendent, Division III			
Oil Spray Devised -----	1925	Sept.	7
Subway			
Ben Ali Construction, By J. J. Gallagher, Assistant Bridge Engineer -----	1927	Aug.	12
McCormell Has Largest Plate Steel Girders in State, By H. D. Stover, Designing Engineer of Bridges -----	1934	Sept.	30
Sullivan, E. Q., District Engineer, District VIII			
Cajon-Lancaster Desert Link Construction Work Started -----	1934	Feb.	20-21
Cajon Pass Realignment Involves Moving a Creek -----	1931	Dec.	4-5
Coachella Valley, Dips and Washes Eliminated -----	1932	Aug.	6-7
Improvements for "Rim-of-the- World" Drive -----	1927	May	7
Old Plank Road in Imperial Valley to Be Preserved -----	1930	June	10
Prehistoric Civilization Along the Lower Colorado -----	1928	Feb.-March	21, 29
Sandhills Road -----	1928	Nov.-Dec.	14
Waterman Canyon Improvements Eliminates Switchbacks -----	1932	June	20
Sulphur Slide in Santa Ana Canyon Eliminated -----	1935	Aug.	26
Superior Highways are Making Californians a Superior People, By Joseph M. Schenck, Member of California Highway Commission -----	1928	May-June	1-2
Supreme Court Decision			
Aids Central Valley Water Project Gives Prison Road Workers Accident Compensation -----	1935	Feb.	9
1927	Feb.	11, 12	
Surface Construction Experimental Road, By T. H. Dennis, Maintenance Engineer -----	1929	Oct.	13
Surfacing to Lessen Skidding, New Type Used on Stanislaus Project -----	1926	Dec.	6
Surveying Under Difficulties, By A. D. Hunting, Chief of Party	1930	Oct.	1-2
Surveys and Plans Manual; Cut Red Tape, Appeal of -----	1925	Sept.	11

## T

Tahoe-Ukiah Link Opened in Snow- storm by Governor Frank F. Merriam -----	1934	Nov.-Dec.	2, 25
---	------	-----------	-------

	Year	Month	Page
Task Before the California Highway Commission, By Earl Lee Kelly, Chairman of the California Highway Commission -----	1931	Jan.	4-5
Teacher's College at San Jose; Modern Gymnasium For, By Roderick Miles, Architectural Designer -----	1931	June	22-23
Tehachapi Flood Wrecked Highway and Bridges, By Walter Beuthel, Assistant District Engineer -----	1932	Oct.-Nov.	4, 38
Mountains; The Great Short Cut Over -----	1916	July	3-4
Telephone Cables for Bay Bridge; Three Shifts Rush Work of	1931	Sept.	12-13
Telephone System for Highway Patrol, to Help Traffic-----	1931	June	10
Ten-Year Plan; Four Months Program Under, By Col. Walter E. Garrison, Department of Public Works	1932	April	1, 10
Termites Causing Great Loss in California, By C. H. Kromer, Chief Structural Engineer, Division of Architecture -----	1931	Sept.	5, 27-28
Tetley, Frank A. Appointed Member California Highway Commission -----	1931	Jan.	6, 7
"Not an Ugly Highway in California" -----	1931	April	1-2, 19
Tetrahedron, The Six Legged, By E. T. Scott, Assistant District Maintenance Engineer -----	1928	Feb.-Mar.	3-4, 15
Thomas, Ira G., Assistant Division Engineer Desert Conquered to Give Imperial Valley Roads -----	1932	Jan.	38-39
Famous Rattlesnake Grade Loses 89 Kinks -----	1932	Sept.	12, 18
Logs Provide Cheap Guard Rail and Drainage Control -----	1925	May	8
Old Plank Road of Sand Hills Becomes a Museum Exhibit---	1934	Sept.	20
Thompson, G. W. "M" Street Bridge Spans 95 Per Cent Complete -----	1935	Sept.	4, 22
Tilton, G. A. Jr., District Construction Engineer Bixby Creek Bridge Formally Dedicated -----	1932	Dec.	6, 21
Historic Gaviota Pass Widened and Paved -----	1932	March	26

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Tilton, G. A., Jr., District Construction Engineer—Continued.			
Prunedale Cut-off Opened With Ceremony -----	1932	Aug.	2, 22
Timber Arch: Dolan Creek Bridge New Type of -----	1935	Feb.	26-27
Timber, Native, Should be Saved ----	1913	May	2
Toll Bridge			
New State Policy Inaugurated by Governor Young -----	1929	May-June	15-16
Report Submitted to Legislature by Highway Commission -----	1929	Jan.-Feb.	5-6, 17
Will Buy Interstate Highway ----	1931	March	13
Toll Bridges			
Investigation Into Financing Asked in U. S. Senate -----	1929	Jan.-Feb.	7
On Roads of Nation -----	1928	July-Aug.	25
Toll Road; Death Valley, Purchased by State -----	1935	Jan.	4, 22
Toll Roads and Bond Issues Are Discussed,			
By B. B. Meek, Director of Public Works -----	1928	Feb.-March	13
Torrey Pines Grade Eliminated by Relocation,			
By R. C. Myers, Assistant Engineer -----	1932	Dec.	10, 16
Tourist Crop; California Prepares For,			
By Frank G. Snook, Chief, Division of Motor Vehicles ----	1931	May	8, 9
Tourists, Receiving, to California,			
By P. T. Poage, Assistant Architect -----	1930	July-Aug.	8-9
Tourist's Dollar; U. S. Analysis Shows Distribution of ----	1931	Sept.	41
Towne, Burton A., Resigns -----	1914	July	11
Toy, Harvey M., Chairman, California Highway Commission,			
Apathy Must Not Defeat Colton Bill	1925	Jan.	3
Policies of the Highway Commission	1924	Jan.	3, 6
What I Got Out of the San Francisco Meeting -----	1924	Dec.	6-7, 11
Trade Channels, Millions Turned Into, by State -----	1931	June	28-29
Traffic			
Census, State			
Highway, Starts On -----	1924	April	4
Increase -----	1924	July	4
Intpreting The,			
By T. H. Dennis, Maintenance Engineer -----	1929	March-April	7-12

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Traffic—Continued.			
Census, State—Continued.			
Midsummer, on State Highways Shows Normal Increase,			
By T. H. Dennis, Maintenance Engineer -----	1930	Sept.	1, 28-36
San Joaquin County's Report, by Highway Maintenance Department -----	1913	May	24
Table -----	1925	Dec.	5
Census Bureau			
Report Shows Increased Danger in Auto Traffic -----	1931	Jan.	22
Control; Highway Efficiency,			
By C. S. Pope, Construction Engineer -----	1928	July-Aug.	4
On State Highway System, Aids In -----	1928	July-Aug.	18
Count -----	1926	Oct.	6
Also -----	1928	Feb.-March	22, 32-35
Also -----	1928	July-Aug.	7-8, 22-23
Also -----	1929	March-April	24-26
Also -----	1930	March	5, 25-34
Also -----	1931	April	25, 36-44
Also -----	1931	Addendum to Aug.	
Also -----	1932	Aug.	30-40
Also -----	1933	Sept.	14, 22
Also -----	1934	March	22, 30
Also -----	1934	Sept.	12-13
Also -----	1935	April	14-15
Also -----	1935	Sept.	28
Densities on State and County System Reported -----	1935	April	30
Enforcement Must Be Consistent If It is to Be Effective -----	1931	Feb.	14-15
Federal Control of Interstate Highway,			
By F. B. Durkee, Editor "California Highways" -----	1925	May	3
Increase, Shown by July, 1927, Count on State Highway -----	1927	Aug.	8-9, 10
Investigation in "Up-hill and Down-hill,"			
By Earl Withycombe, Assistant Construction Engineer -----	1927	July	4
Keeping Traffic Moving on the Redwood Highway			
By L. D. Packard, Assistant Engineer, Bridge Department --	1924	Nov.	6, 7
Lane Marker, New, Division VII Develops,			
By I. S. Voorhies, Assistant Maintenance Engineer -----	1926	Feb.	10, 11
Lanes: Value Is Shown,			
By Almon Coonrod -----	1928	Sept.-Oct.	17
Laws, Uniform, Termed Problem for States and Cities -----	1930	June	11-12, 40
On California Highways, Continues to increase -----	1926	Sept.	10

	Year	Month	Page
Traffic—Continued.			
Officers, Highway Patrol			
Go to School-----	1930	June	1, 40
Have Perilous Job-----	1930	Sept.	4
Schedule, The Ideal,			
By Victor W. Killick, Statistician, Division of Motor Vehicles-----	1930	Oct.	11-12
Recommendations of Supervisors--	1928	April	32-35
Safety Campaign Program for 1931 Stripe	1930	Oct.	36
Line Stripe on State Highways,			
By W. A. Smith, Assistant Maintenance Engineer-----	1927	Sept.-Oct.	9, 10
On California Highways,			
By T. H. Dennis, Maintenance Engineer-----	1930	Oct.	17-18
Thirty-five Hundred Miles Placed in Year-----	1933	May-June	23
Stripes on Highway's Edge-----	1929	Jan.-Feb.	14
Striping Machine, New, Paints Eighteen Miles in a Day,			
By F. A. Smith, Assistant Maintenance Engineer-----	1935	July	22, 29
Study			
California State Highways,			
By G. R. Winslow, Maintenance Engineer-----	1925	Dec.	4-7
U. S.-California Join In-----	1919	Oct.	11
Survey			
State-wide-----	1934	Jan.	29
Traffic Views of Public Asked In Traffic Circle—Subway Improvement Completed at Fresno--	1930	March	21, 24
1932	July	2, 27	
Tragedy Springs,			
By A. I. Rivett, Assistant to Maintenance Engineer-----	1933	Dec.	10-11
Trailers Replacing Trucks on Highways: State Survey Shows--			
1935	July	32	
Transportation			
Airway and Highway: Interrelation of,			
By C. H. Purcell, State Highway Engineer-----	1929	Dec.	5-6, 30-31
Coordinating Facilities,			
By W. M. Jardine, Secretary of Agriculture-----	1926	Dec.	9
Men Must Look Forward in Cooperation,			
By T. H. MacDonald, Chief U. S. Bureau of Public Roads-----	1935	Dec.	8-9, 18
Romance of Transportation in California,			
By F. W. Haselwood, Division Engineer, Division III-----	1927	April	6-7
Concluded in-----	1927	May	6, 8

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Trans-Sierra Highway Scouted, By R. M. Gillis, District Engineer	1934	April	26-28
Trask, J. W. Resident Engineer Tunnel Under Town Abolishes Grade Crossings -----	1932	Feb.	18
Travel Cost, Good Roads vs. Bad Roads Reflected In-----	1931	Oct.	6
Travel Count Indicates Double Present Highway Traffic by 1940---	1929	Sept.	1, 28-36
Travis, B. A., Keeping Tab on Auto Registration	1931	Aug.	2, 14
Tree "Hangman's Tree": Doctors Oper- ate On By H. Dana Bowers, Landscape Engineer -----	1933	March	35
"Hospital Oak" Removed at Duarte Planting; Many Problems Involved in Highway -----	1926	Dec.	11
Watering Outfit; Shops Turn Out One-Man, By R. H. Stalnaker, Equipment Engineer -----	1925	April	9
	1925	July	9
Trees Beautiful, Spared in Careful Paving Operation, By R. E. Pierce, District Engi- neer -----	1931	Nov.	2
"Contented Trees," Stanislaus County -----	1927	Dec.	18
Frost Bitten, Show Signs of Life, By H. Dana Bowers, Landscape Engineer -----	1933	May-June	14
Giant of Forest Laid Low, on Big Bear Road, San Bernardino County -----	1932	June	35
Native, Along the Highway Should Be Saved -----	1912	Oct.	3
Preserving the Roadside----- Shape, Are Saved in Highway Widening Operations -----	1928	Sept.-Oct.	7
	1931	Feb.	13
For California State Highways, By W. E. Glendenning, State Highway Arboriculturist ---	1927	May	5, 8
Trees and Shrubs, Along State Road- sides, to Save-----	1928	Nov.-Dec.	22
Trinity Lateral Hazard Removed by Relocation, By E. J. Bassett, District Office Engineer -----	1932	July	12-13, 28-29
Truck Artery: Building Through Santa Barbara City, By L. H. Gibson, District Engi- neer -----	1934	July 4,	32



Truck. Traffic	Year	Month	Page
On California State Highways, By T. H. Dennis, Maintenance Engineer -----	1932	June	2, 14-15
Slow, On Narrow Highways Cost- ly to the Motoring Public, By E. T. Scott, Assistant Main- tenance Engineer, Division VII -----	1927	May	11
Truckee River Highway Dedicated to Memory of Pioneers-----	1926	June	3, 4
<b>Tunnel</b>			
Alameda-Contra Costa Tunnel ; Governor Merriam Breaks Ground	1934	July	16, 22
Broadway Low Level Project Be- tween Alameda and Contra Costa Counties, By Wallace B. Boggs, District Engineer, Joint Highway District No. 13-----	1934	May	16-17, 19, 31-32
Highway, Under Newcastle Opened to Traffic, By C. H. Whitmore, District Engineer -----	1932	May	18
Santa Monica, Coast Highway Tun- nel Under Construction, By C. W. Jones, Senior Bridge Engineer, Southern Office---	1935	July	6, 10
Under Town, Abolishes Grade Crossing, By J. W. Trask, Resident Engi- neer -----	1932	Feb.	18
Tunneling for Highway Under Town, By Richard H. Wilson, Office Engineer, District III-----	1930	Nov.	14
Twenty-day Storm, State Crews Keep Highways Open In, By George F. Hillesoe and Nelson T. Bangert, Assistant Main- tenance Engineers -----	1935	Feb.	2, 28

## U

<b>Underpass</b>			
California's Largest, in South San Francisco, Opened to Traffic	1927	Sept.-Oct.	11, 13
Ventura Overhead, Will Eliminate Dangerous -----	1934	May	24, 23
Widening, South San Francisco----	1935	May	21
<b>Unemployed</b>			
Department of Public Works Allots \$1,500,000 for Extra Work for This Winter-----	1931	Sept.	1, 33
Public Works Camps Opened For--	1931	Dec.	10
State Moves to Aid-----	1930	Nov.	1-2
\$10,000,000 to Help-----	1931	June	8

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Unemployment Relief, Appeal to Contractors, By Earl Lee Kelly, Director of Public Works -----	1933	Dec.	31
Program, 3107 Men Now at Work Under State Highway-----	1930	Dec.	2
Situation: Department of Public Works Spends \$66,000,000 to Relieve, By James I. Herz, Deputy Di- rector of Public Works-----	1931	Nov.	1, 12
Unification Plan of Highways to Save Tax-payers \$16,000,000, By Governor Frank F. Merriam	1935	March	1, 8-10
Uniform Stands for Rural Mail Boxes Help Clean Up Roadside----	1926	June	15
Union Avenue Grade Separation in Bakersfield Completed, By Paul Dunkhorst, Assistant Bridge Construction Engineer	1935	Aug.	4
Unique Highway Sector (Foothill Boulevard in Claremont, Los Angeles County.) Opened With Celebration -----	1931	Feb.	28
United States Bureau of Public Roads A Catechism on "Federal Aid"-- Relief Labor--State Not Confined to Use of By New U. S. Ruling-----	1925	Oct.	7, 9
Statement From Bidders Required For -----	1935	Sept.	8
For -----	1927	Nov.	40
Buys Bay Bridge Bonds Amounting to \$61,400,000-----	1933	May-June	1, 4-5, 21
Code for City Tree Planting Issued by -----	1928	Jan.	32
Congress Urged to Enlarge Road Aid -----	1930	Jan.	29
Engineers Investigate Central Val- ley Water Plan-----	1932	Dec.	12-15
Forest Roads: U. S. Money Allotted Highways Marking System, Uniform Consid- ered -----	1929	May	15
Numbered -----	1928	Jan.	33-34
Program; Highway Constructed Under -----	1929	Nov.	22
Seeking Low-Cost Plan for Oiling Statistical Story Is Told in Book- let -----	1930	Jan.	30
Use in California Shown to Be Greatest -----	1930	May	26, 31
World Engineers Are to Study--	1930	June	15
Participation of \$100,000 Approved for River Bank Protection, By R. L. Jones, Deputy State Engineer -----	1929	Jan.-Feb.	18
	1933	Jan.-Feb.	14, 15, 24

United States—Continued.	Year	Month	Page
Public Works Fund Builds Mileage Equaling Six Transcontinentals -----	1934	Feb.	6-7
Public Works Program in November Reclamation Board Aids in Water Study -----	1933	Dec.	13
Road Chief Tells Asphalt Men Road Needs of Nation -----	1930	May	15, 26
Senate Committee Investigates State Water Plan -----	1928	Jan.	25, 35
State and Federal Government Join to Solve Problems of Water and Bay Bridge Project ----	1932	Sept.	4-7, 34-35
State and U. S. Signed Route Map	1930	Feb.	32-33
United States Board and State Com- missions Act on Water Prob- lems -----	1935	Oct.	19
United States Commerce Department Tells Value of Tourist In- dustry -----	1931	Oct.	2, 25, 30
	1930	Nov.	2

## V

Vehicle	Year	Month	Page
Laws Changed by Legislature, By Marshall A. Page, Chief Clerk, Division of Motor Vehicles --	1931	June	18
Miles Traffic on State Highways in 1934; Survey Shows 7,802,- 000,000, By C. H. Purcell, State Highway Engineer -----	1935	March	6-7, 11
Ventilation, The Science of Mechanical, By Carl A. Henderlong, Assistant Engineer, Division of Archi- tecture -----	1930	May	11, 34
Ventura County Reconstruction Project Completed By A. D. Griffin, Resident Engi- neer, Division VII -----	1926	Sept.	6-7
Diagram of Experimental Construc- tion in -----	1927	April	5
Overhead Will Eliminate Danger- ous Underpass, By F. M. Barnes, Associate De- signing Engineer of Bridges --	1934	May	24, 26
Seawall Tests Show High Quality Concrete, By Harlan D. Miller, Bridge Engineer -----	1925	Aug.	7
Viaduct Project Building Sunset-Glendale, By C. W. Jones, Bridge Construc- tion Engineer, Southern Dis- trict -----	1934	June	14, 29

	Year	Month	Page
Viaduct Project—Continued.			
Building Sunset-Glendale—Continued.			
Mt. Vernon Avenue in San Bernardino Opened-----	1934	June	6
Welded Steel, Ends Crossing Perils, By A. J. Meehan, Associate Designing Bridge Engineer-----	1932	Feb.	34-35
Vickrey, J. W., District Maintenance Engineer, District III			
Benbow-Garberville Link of Redwood Highway-----	1935	June	6, 18
Clearing the Highways of Snow-----	1931	May	12-14
Death Valley Roads Taken into Highway System-----	1933	Sept.	4, 8
Redwood Punchcons Used for Fills on relocation-----	1934	March	4, 19, 29
Victory Highway			
Memorial Marker Formally Dedicated on-----	1928	July-Aug.	13
Realignment Cuts Out Curves, By C. H. Whitmore, District Engineer-----	1934	April	12, 22
Voorhees, I. S., Assistant Maintenance Engineer			
Division VII Develops New Traffic Lane Marker-----	1926	Feb.	10, 11
Repositioning Jack for Concrete Pavement Invented by Engineers-----	1933	Sept.	26-27

## W

Wage Decision Releases \$2,000,000 of Highway Contracts, By Frank B. Durkee, General Right of Way Agent-----	1934	March	12, 26-27
Wagner, A. J., Maintenance Engineer			
Maintenance of the State Highway System-----	1924	March	3, 4, 6
Wallace, E. E.			
Appointed Acting Engineer, Division VI-----	1926	April	14
District VI Reports Road Improvements-----	1931	Dec.	44
Golden State Highway-----	1930	July-Aug.	10-12, 28-29
Relocating Grapevine Grade Unit on Ridge Route-----	1932	Jan.	24
San Diego Celebrates Completion of Million Dollar Highway-----	1934	Jan.	6, 32
San Diego Office Building Dedicated	1935	Aug.	12
State Highway Extensively Damaged by August Storms-----	1935	Sept.	6-7, 26-27
Walsh, Everett L., Engineer of Investigation, Bridge Department			
Preliminary Investigation in Bridge Planning and Construction--	1933	May-June	28-30

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Warning Signs			
For Torn-up Roads-----	1912	Oct.	15
Young Sign Vandals Turn Allies of the Division of Highways---	1935	May	32
Warrington, H. E., Resigns as Chief Bridge Engineer-----	1924	Feb.	8
Water			
Area, Report on Five Seasons' Study of Sacramento-San Joaquin,			
By Harlowe M. Stafford, Sacra- mento-San Joaquin Water Supervisor-----	1930	Sept.	5-6, 26-27
Bill to Secure NRA Millions and Provide 25,000 Jobs, Gov- ernor Rolph Signs-----	1933	Sept.	2-3, 12-13, 20
Boards, Joint Meeting of Governor's and State's-----	1931	Nov.	14-15, 26
Break, Goodbye,			
By F. W. Haselwood, Acting Division Engineer, Division III-----	1925	Oct.	10
Colorado River, Long Fight Over, Brought to End-----	1931	Sept.	30
Commission Reports to Governor Rolph, California Water Resources-----	1932	June	1, 10-11, 24-25 36
Conditions in December,			
By R. L. Jones, Deputy Engineer in Charge of Flood Control and Reclamation-----	1930	Jan.	28
Conservation			
Committee, Report of State-----	1931	March	14-16, 30
Report Issued for Years 1933-34---	1935	Aug.	7
The Maximum of, With Reference to the California Plan,			
By Edward Hyatt, State Engineer-----	1930	May	1-2, 17-19 25-26
Coordinated, Economics of, Are Studied by Legislative Com- mittee-----	1928	April	13-14, 24
Some of the Problems of-----	1927	Nov.	15
Crop, Measuring in California's Snow Fields,			
By Harlowe M. Stafford, Hy- draulic Engineer, Division of Water Resources-----	1929	Nov.	1-2, 19-21
Engineers, Western State to Meet Here in October-----	1931	Sept.	4, 18
Hoover-Young Commission			
Organizes-----	1930	Feb.	24
Resources Commission Meets----	1930	April	16
Investigation Report, Ventura County, Bulletin 46-----	1934	June	28

	Year	Month	Page
Water—Continued.			
Irrigation, The Story of California's Change from Dry Farming, By J. J. Haley, Jr., Deputy Chief of the Division of Engineer- ing and Irrigation-----	1928	Jan.	10-12
Issues in State as They Developed in the Past Year, By E. N. Bryan, Deputy Chief of Division of Water Rights----	1928	Jan.	1-2, 28
Plan			
Financial Aspects of Sacramento- San Joaquin -----	1931	Dec.	18-20
Also -----	1932	Jan.	18-20
Governor Urges Voters to Sup- port State, By James Rolph, Jr., Governor of California-----	1933	Oct.-Nov.	1, 12-13 20-22
Published, Report on State-----	1934	April	24
Recommendations Are Given Gov- ernor and Legislature-----	1931	March	2-4, 26
Urged at Washington, State-----	1935	April	21
Problems-----	1931	Nov.	7, 20-21
Analyzed, Sacramento-San Joaquin -----	1931	Sept.	10, 20-21
Southern California-----	1931	Oct.	19-21
California Legislative Committee Reports on-----	1931	April	13-14
Governor Rolph Issues Proclama- tion on-----	1931	Aug.	1, 16-17
Shortages in California, A Grave Problem, By H. M. Stafford, Sacramento- San Joaquin Water Super- visor -----	1931	June	25-26
Status of California's Water Problems-----	1931	July	14-15
Sacramento-San Joaquin Problems By Harlowe M. Stafford, Water Supervisor, Division of Water Rights-----	1928	Feb.-March	7-8, 30-32
San Gabriel By Harold Conkling, Chief, Division of Water Rights-----	1927	Dec.	6, 42-43
Resources			
Investigating the, of Southern Cali- fornia Counties-----	1930	Feb.	1-2
Salvaging Waste in the Los Angeles Coastal Basin-----	1930	July-Aug.	15-16, 35
Rights			
Necessity for Adjudication of Ex- isting, in California, By Gordon Zander, Hydraulic Engineer, Division of Water Rights-----	1928	Feb.-March	9-10, 27

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Water—Continued			
Putting the "Right" Into Water Rights,			
By Harold Conkling, Chief of the Division of Water Rights	1927	Nov.	7, 31, 39
State Plan			
Power Development Must Not Be Divorced from			
By Governor Frank F. Merriam	1934	Aug.	1, 14
Storage, South Coastal Basin Contains 3,500,000 Acre-Foot of-----	1935	March	20
Stream Flow, Tabulation of Forecast -----	1933	May-June	21
Stream Flows 30 to 60 Per Cent Below Normal -----	1933	May-June	20-21
Study in San Joaquin Valley, Program For -----	1929	Sept.	14
Supply Conditions Best Since 1927, General,			
By Edward Hyatt, State Engineer	1932	April	14-15, 20-21
Surplus Would Be Used, Legislative Committee Studies Areas Where State's -----	1928	Jan.	16, 21
Water and Uses: Harold Conkling Author of Book on-----	1930	Sept.	8
Water Permits and Applications (chronologically listed) ----	1927	Dec.	39
Also -----	1928	Jan.	43, 44
Also -----	1928	Feb.-March	39-40
Also -----	1928	April	43-44
Also -----	1929	Oct.	35-36
Also -----	1929	Sept.	24-26
Also -----	1929	Dec.	41-44
Also -----	1930	Jan.	38-40
Also -----	1930	Feb.	42-44
Also -----	1930	March	41-42
Also -----	1930	April	31-33
Also -----	1930	May	37-40
Also -----	1930	June	38-39
Also -----	1930	July-Aug.	31-32
Also -----	1930	Oct.	33-34
Also -----	1930	Nov.	31-33
Also -----	1930	Dec.	30-31
Also -----	1931	Jan.	37-39
Also -----	1931	Feb.	34-35
Also -----	1931	March	40
Also -----	1931	April	33-34
Also -----	1931	May	37-38
Also -----	1931	June	36-37
Also -----	1931	July	29
Also -----	1931	Aug.	43-44
Also -----	1931	Sept.	42-44
Also -----	1931	Oct.	35-36
Also -----	1931	Nov.	32-33
Also -----	1931	Dec.	32, 43
Also -----	1932	Jan.	40-41
Also -----	1932	Feb.	31-32
Also -----	1932	March	40

Water Permits and Applications— Continued. (Chronologically listed)	Year	Month	Page
Also -----	1932	April	41-42
Also -----	1932	May	37-38
Also -----	1932	June	37-38
Also -----	1932	July	39-40
Also -----	1932	Aug.	23-24
Also -----	1932	Sept.	33-34, 38
Also -----	1932	Dec.	35, 38
Also -----	1933	Jan.-Feb.	28-29
Also -----	1933	March	33-36
Also -----	1933	April	22-23
Also -----	1933	May-June	27
Water Resources, The New Division of	1929	Sept.	2-3, 21
Water Resources Report (chronologically listed) -----	1929	Oct.	25-27
Also -----	1929	Nov.	29-32
Also -----	1929	Dec.	22-24
Also -----	1930	Jan.	19-21
Also -----	1930	Feb.	19-21
Also -----	1930	March	15-18
Also -----	1930	April	16-19
Also -----	1930	May	27-30
Also -----	1930	June	25-28
Also -----	1930	July-Aug.	19-23
Also -----	1930	Sept.	16-20
Also -----	1930	Oct.	23-27
Also -----	1930	Nov.	20-24
Also -----	1930	Dec.	21-25
Also -----	1931	Jan.	26-29
Also -----	1931	Feb.	30-32
Also -----	1931	March	34-37
Also -----	1931	April	27-30
Also -----	1931	May	26-29
Also -----	1931	June	41-44
Also -----	1931	July	39-42
Also -----	1931	Aug.	43-44
Also -----	1931	Sept.	31, 36-38
Also -----	1931	Oct.	31, 42-43
Also -----	1931	Nov.	39-40
Also -----	1931	Dec.	31, 40-42
Also -----	1932	Jan.	31-33, 37
Also -----	1932	Feb.	26-27
Also -----	1932	March	35-37
Also -----	1932	April	31-33, 36, 39
Also -----	1932	May	31-33, 40
Also -----	1932	June	31-33, 38
Also -----	1932	July	31-34
Also -----	1932	Aug.	20-21
Also -----	1932	Sept.	29-32
Also -----	1932	Oct.-Nov.	27, 30-31, 38
Also -----	1932	Dec.	29-31, 39
Also -----	1933	Jan.-Feb.	25-27, 36
Also -----	1933	March	25-27
Also -----	1933	April	19-21, 23
Also -----	1933	May-June	19, 24-26
Also -----	1933	July-Aug.	27-29



Water Resources Report—Continued. (Chronologically listed)	Year	Month	Page
Also -----	1933	Sept.	23-25
Also -----	1933	Oct.-Nov.	23-24
Also -----	1933	Dec.	23-24
Also -----	1934	Jan.	23, 31
Also -----	1934	Feb.	23, 32
Also -----	1934	March	23, 28
Also -----	1934	April	23, 29
Also -----	1934	May	23, 29
Also -----	1934	June	23, 26
Also -----	1934	July	23, 28
Also -----	1934	Aug.	23, 27
Also -----	1934	Sept.	22-23
Also -----	1934	Oct.	23, 30
Also -----	1934	Nov.-Dec.	23, 30, 32
Also -----	1935	Jan.	38-39
Also -----	1935	Feb.	22-23
Also -----	1935	March	22-23
Also -----	1935	April	26-27
Also -----	1935	May	26-28
Also -----	1935	June	31-32
Also -----	1935	July	27-28
Also -----	1935	Aug.	24-25
Also -----	1935	Sept.	23-24
Also -----	1935	Oct.	24-25
Also -----	1935	Nov.	24-25, 28
Also -----	1935	Dec.	24-26
Waterman Canyon Improvements Eliminate Switchbacks, By E. Q. Sullivan, District Engineer -----	1932	June	20
Waterman, H. A., Construction Department New Report Forms for Resident Engineers -----	1925	April	14
“Why Not a Minor Improvement” -----	1931	Dec.	24
Watson, P. R., Resident Engineer, Santa Monica Tunnel Built in Open Cut on Concrete Piles -----	1935	Nov.	2, 28, 32
Wayside Refreshment-Stand Campaign -----	1928	July-Aug.	20
Weaver, H. B., Chief, Accountant. Recent Changes in the Accounting System -----	1924	Nov.	3, 5
Webb, U. S., Attorney General Routing the California State Highway -----	1912	Oct.	4-6, 7
Ruling Aids Highway Work -----	1927	April	11
Welch, Gene, Assistant Designing Engineer Mad River Bridge Relocation Abolishes Four Grade Crossings -----	1933	March	10-11
Welded Pipe Line Used on Division VII Projects -----	1926	June	11

	Year	Month	Page
Western State Highway Officials Convention: Resolutions Passed	1934	Aug.	9
"What I Got Out of the San Francisco Meeting," By Harvey M. Toy, Chairman, California Highway Commission, et al.	1924	Dec.	6-7, 11
Wheeler, Benjamin Ide, University of California The Maintenance Problem	1913	May	20
Whitaker, E. S., Assistant State Arboriculturist Roadside Trees, Protecting, in Cooperation With Public Utilities	1934	Oct.	10-11, 17, 24, 26
Slope Treatment Gets New Deal	1934	July	6, 11
Whitmore, C. H., District Engineer Gold Run-Airport Improvement on Victory Highway	1934	Feb.	16-17, 22, 24
Gold Run to Airport Relocation Abolishes Grade Crossings	1932	Aug.	4, 17
Highway Tunnel Under Newcastle Opened to Traffic	1932	May	18
New Road Reveals New Standards	1929	Dec.	7, 25
Victory Highway Realignment Cuts Out Curves	1934	April	12, 22
Whittier Boulevard California's Most Costly State Highway	1924	Nov.	4
Cooperative Project Completes New, (Los Angeles County)	1926	June	5, 6
Whole Town in One Institution, By C. H. Kromer, Structural Engineer, Division of Architecture	1928	April	10, 23-24
Wild Flower Show Staged in San Bernardino Office, By E. Q. Sullivan, District Engineer	1935	May	18
Willett, D. C., Assistant Structural Engineer, Division of Architecture Better Concrete; Use of, Quality How the State Secures Stability, Durability and Economy in Its Buildings	1924	April	10
	1930	Nov.	6, 13
Wilson, R. H., Office Engineer, Federal Fund Restrictions Holding Up Construction Program	1935	July	26
Tunnelling for Highway Under Town	1930	Nov.	14
Windrow Sizer Invented by Engineers on State Job	1935	April	30
Winslow, G. R., Promoted to Maintenance Engineer	1924	Aug.	11
Study of Traffic on Highways	1925	Dec.	4-7

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Wirsching, Carl B., Resigns-----	1928	July-Aug.	21
Withycombe, Earl, Assistant Construction Engineer			
Construction and Pavement Records Made During 1929-----	1930	May	4-5, 20-24
Also Construction and Pavement Records Made During 1930--	1931	May	22-23, 30-34
Also Construction and Pavement Records Made During 1931-32	1933	May-June	10-13, 22, 32
Also Construction and Pavement Records Made During 1934--	1935	Oct.	12-18
How Use of "Vialog" During Construction Is Influencing Smoothness of Pavement----	1926	Dec.	10, 11
Increase in Surface Smoothness Is Most Important Improvement in 1926 California Pavements	1927	March	5-6, 13
Investigation in Up-hill and Down-hill Traffic-----	1927	July	4
New Records in Paving Construction During 1931-----	1932	Feb.	10, 37
Outstanding Pavements Completed Under the 1924 Program----	1925	Mar.	5, 7
Pavement and Construction Records for 1933 on California Highways-----	1934	Sept.	6-7, 24, 28
Progress Made on Pavement Construction During the Year 1927-----	1928	May-June	5-6, 20-21
Review of Strength Record for 1925 Pavements-----	1926	March	3-4
Summary of 1928 Pavement Construction-----	1929	May-June	11-14, 22
Woodin, C. F., Assistant Maintenance Engineer			
Slides and Surface Failures Caused by Abnormal Winter-----	1935	July	24-25, 30, 32
Woodson, J. B., Division Engineer			
A California Concrete Road-----	1915	Jan.	12
Concrete Bases-----	1914	July	13, 14
Elimination of Grade Crossings Grave Problem-----	1924	Aug.	9
Resigns Post at Fresno-----	1926	March	9
Work			
Program for Next Six Months, Huge Public, in California Is Increasing Factor in Employment-----	1931	July	1, 22-23
	1929	Dec.	1-2

## Y

Yerba Buena Tunnel			
Core Completely Removed for Motor Travel-----	1935	Dec.	26
Novel Method of Building-----	1935	Sept.	20
Yolo Basin			
Across The-----	1913	May	15
Concrete Trestle, Story of the Great	1916	July	6, 7

	Year	Month	Page
Yolo Causeway			
Redwood Lumber For _____	1933	March	29
West End Lowered; How Job Was Accomplished			
By C. E. Bovey, District Maintenance Engineer _____	1928	July-Aug.	14-15
Widening Project _____	1932	Dec.	36-37
Job Spreads Work to 20,000 Men	1932	Oct.-Nov.	26
Yosemite			
All-Year Highway Completed _____	1926	July	3, 5
Carson Relocation Eliminates Curves on All-Year Route	1932	May	6, 22
Two Types of Guard Rail Used on Highway _____	1927	July	10
Young, C. C., Governor of California Completes Appointment of Cali- fornia Highway Commission: R. W. Bull, Eureka, Chair- man; J. P. Baumgartner, Santa Ana; M. B. Harris, Fresno; J. M. Schenck, Los Angeles; Fred S. Moody, San Francisco. _____	1927	Aug.	2
Enunciates Policy of State High- way Extensions _____	1929	Mar.-April 4, 17-18, 19	
Inaugural Message Gives Important Place to Highway Policies. _____	1927	Jan.	3
Issues Involved in Highway Bud- geting; Traffic Pressure or Political Pressure—Which? _____	1928	Jan.	9
Moves to Save Recreational Areas to California _____	1927	Dec.	8, 29
Save the Beaches. _____	1927	Dec.	7
"The Why" of Coordination _____	1927	Nov.	2, 4
Warns Against Throwing Fire From Moving Vehicles _____	1929	July-Aug.	14
Yuma Celebrates Completion of High- way Across Desert, State Officials Participate _____	1925	Feb.	11

## Z

Zander, Gordon, Hydraulic Engineer, Division of Water Rights, Necessity for Adjudication of Exist- ing Water Rights in Cali- fornia _____	1928	Feb.-March	9-10, 21
Zoning for Building Control Along California Highways, By C. C. Carleton, Chief, Di- vision of Contracts and Rights of Way _____	1935	Jan.	8-9, 16-17, 19
Zube, Ernest, Junior Physical Test- ing Engineer, Finds Germany Building 5000 Miles Express Highway _____	1935	March	26, 28, 31

---

II

CUTS AND ILLUSTRATIONS

October, 1912, to December, 1935

---

THE END OF THE WORLD

BY J. H. B. [unclear]

## COVER ILLUSTRATIONS

(Arranged in Chronological Order)

	Year	Month
Relief Map Showing State Highway Routes.....	1912	Oct.
Map of Routes Selected by Commissioners, and Objecting Petitioners Proposed Routes.....	1913	May
State Highway South of San Francisco.....	1914	July
California Highway Commission. Surveys Ordered, Layouts Made (Back Cover) .....	1914	July
On the Coast Route of California State Highway	1915	Jan.
Cut on Castaic Ridge Route Between Bakersfield and Los Angeles .....	1916	July
Panorama on State Highway near Santa Mar- garita, San Luis Obispo County (Back Cover)	1916	July
Safety First. Ventura County Underpass (Back Cover) .....	1916	July
Ventura Highway, Before and After California Highway Commission Constructed this Sec- tion (Back Cover) .....	1916	July
Devil's Corral Bridge on Susanville Lateral, Las- sen County .....	1924	Jan.
Bridge Across Crystal Springs Dam, South of San Francisco .....	1924	Feb.
Marking of Highway on Dangerous Curves.....	1924	March
Novato Slide, Marin County .....	1924	March
Slide on New St. Helena Summit Road, Napa County .....	1924	March
Reinforced Concrete Bridge Over San Gabriel River, Los Angeles County.....	1924	April
Rio Honda Bridge, Los Angeles County.....	1924	April
South Yuba River Arch, Downieville Lateral....	1924	April
Gaviota Canyon Scenes, Before and After (Back Cover) .....	1924	May
Headquarters Shops, Sacramento.....	1924	May
Prison Road Camps		
Briceburg Camp on Merced River, Yosemite Lateral .....	1924	June
Greenhorn Camp in Western Shasta County, Trinity Lateral .....	1924	June
Preparing a Blast, and After the Blast.....	1924	June
Requa Camp on the Redwood Highway, Del Norte County .....	1924	June
Natural Rock Guard Rail in the Kern River Canyon .....	1924	July
Angeles Forest Trail (Back Cover).....	1924	Sept.
Bridges Spanning Klamath River (Back Cover)-	1924	Sept.
Forest Road Near Echo Lake, El Dorado Forest (Back Cover).....	1924	Sept.
Location of Forest Highway Leading to Lassen National Park .....	1924	Sept.

	Year	Month
Mount Wilson Trail (Back Cover)-----	1924	Sept.
Pine Creek Bridge on Highway in Cleveland National Forest, Southern California-----	1924	Sept.
Road in Plumas Forest (Back Cover)-----	1924	Sept.
View on Yuba Pass Highway (Back Cover)-----	1924	Sept.
Famous Houser Contract Along Ventura County Coast (Back Cover)-----	1924	Oct.
Point Mugu, Ventura County, Before and After---	1924	Oct.
Donner Summit Grade, Old and New-----	1924	Nov.
Switchbacks on the Waterman Grade from San Bernardino to Lake Arrowhead-----	1924	Dec.
Aerial Photograph of Grade Crossing Elimina- tions, San Diego Coast-----	1925	Jan.
New Cement Concrete Paving on Highway Just North of Redding, Shasta County-----	1925	Feb.
Underpass at Oro Grande, National Old Trails Highway, San Bernardino County-----	1925	March
Ventura Subway, Before and After-----	1925	April
Highway of the Padres Today, San Mateo County	1925	May
Laboratories at Highway Headquarters, Sacra- mento-----	1925	June
Bronze Plaque Placed on Chowchilla Bridge. Dedicated to memory of State Traffic Officer Clarence M. Pickett-----	1925	July
Cottonwood Creek Bridge East of Bakersfield---	1925	July
New Bridge Over Chowchilla River, Madera County-----	1925	July
Ventura Seawall Construction Views-----	1925	Aug.
Redwood Highway Between Trinidad and Orick, Humboldt County, Recently completed-----	1925	Sept.
"Through the Pines." View on recently Completed Section of Red Bluff-Susanville Lateral, Lassen County-----	1925	Oct.
Federal Aid Helps Bridge Mighty River. Views of Douglass Memorial Bridge Spanning Klamath River-----	1925	Nov.
On the Skyline Boulevard Near San Francisco City Limits-----	1925	Dec.
New Highway Through Deadman's Hills, Mono County-----	1926	Jan.
Shovels Conquer Ortego Hill, East of Santa Barbara-----	1926	Feb.
San Gabriel River Bridge, Old and New, Between Los Angeles and Whittier, Los Angeles County	1926	March
New Pavement Through Montecito, Santa Barbara County-----	1926	April
Redwood Highway Between Adams Station and Oregon Line, Del Norte County-----	1926	May
Scenes on Truckee River Highway		
Boca Arch-----	1926	June
Highway, River and Arch-----	1926	June
Rock Retaining Wall-----	1926	June



	Year	Month
Pacific Highway Arch Over Charley Creek, Shasta County -----	1926	July
Across the Sand Hills, Imperial County Paving Project -----	1926	Aug.
Donner Summit Bridge -----	1926	Sept.
Plaque on Donner Summit Bridge -----	1926	Sept.
Oceanside Highway, San Diego County; New Subway -----	1926	Oct.
Rincon Seawall Views, Ventura County -----	1926	Nov.
Highway Scenes, Santa Claus and the New Year, 1927 (Composite Photographs and Sketch) --	1926	Dec.
Governor C. C. Young -----	1927	Jan.
Snow Plows in Action Near Mount Shasta City, Siskiyou County -----	1927	Feb.
Asphalt Road on Yuma, Arizona Route, Imperial County -----	1927	March
Rincon Seawall, Ventura County -----	1927	March
Safety in Modern Highway Building Near Herndon, Fresno County -----	1927	April
Giant Redwood on Redwood Highway -----	1927	May
Map of California Highway System's Principal Routes -----	1927	June
New Highway Near Whittier, Los Angeles County	1927	July
Airplane View of Sacramento -----	1927	Aug.
Peninsula Highway, San Mateo County -----	1927	Sept.-Oct.
Castle Rock on Highway North of Santa Monica, Los Angeles County -----	1927	Nov.
Coast Road Near Santa Barbara (Back Cover) --	1927	Nov.
Mt. Shasta from Pacific Highway (Back Cover) --	1927	Nov.
Redwoods in Santa Cruz County (Back Cover) --	1927	Nov.
Ridge Route (Back Cover) -----	1927	Nov.
Yosemite Road near El Portal (Back Cover) -----	1927	Nov.
Pacific Highway Along Klamath River, Siskiyou County (Back Cover) -----	1927	Dec.
State Highway near Pine Valley, San Diego County (Back Cover) -----	1927	Dec.
Scene on Peninsula Highway, San Mateo County	1927	Dec.
State Highway Near Pine Valley, San Diego County -----	1927	Dec.
Murphy's Grade, Above Angels Camp -----	1928	Jan.
Harlan D. Miller Bridge on Pacific Highway Shasta County (Back Cover) -----	1928	Jan.
Sacramento River at Sacramento -----	1928	Feb.-March
Blossom Time Along a State Highway, Santa Clara County -----	1928	April
California Highways (Back Cover) -----	1928	Feb.-March
Desert Scenes San Bernardino and Riverside Counties (Back Cover) -----	1928	April
Fishing Scene Along a State Highway -----	1928	May-June

	Year	Month
Donner Summit Bridge (Back Cover)-----	1928	July-Aug.
Memorial Marker at Verdi, Nevada County-----	1928	July-Aug.
"Redwoods"-----	1928	Sept.-Oct.
Illuminated Christmas Tree-----	1928	Nov.-Dec.
Safety Slogan-----	1929	Jan.-Feb.
Santa Clara County Blossoms-----	1929	March-April
Joshua Tree on State Highway Near Victorville--	1929	May-June
Highway Equipment at Work-----	1929	July-Aug.
Highway Equipment at Work on Highway-----	1929	Sept.
San Diego Teachers' College, Main Entrance (Sketch)-----	1929	Oct.
"The Skier"-----	1929	Nov.
Scene on State Highway, Los Angeles County----	1929	Dec.
The Weir, Sacramento River, Near Sacramento--	1930	Jan.
Highway Patrolman-----	1930	Feb.
Entrance to Science Group, Santa Barbara State College (Sketch)-----	1930	March
Illuminating the State Capitol Dome-----	1930	April
Spring Blossoms-----	1930	May
California Highway Patrolmen, J. J. Boree and others-----	1930	June
Yosemite Valley-----	1930	July-Aug.
Kings River Highway-----	1930	Sept.
Surveying Bridge Site on Feather River Lateral--	1930	Oct.
Feather River Highway Gateway Bridge, Oro- ville (Drawing)-----	1930	Nov.
B. B. Meek, and Scenes of Various Highway Projects-----	1930	Dec.
Governor James Rolph Jr. (Sketch)-----	1931	Jan.
Construction View of Shasta River Bridge No. 3--	1931	Feb.
New State Building, Los Angeles-----	1931	March
East View of State Capitol-----	1931	April
Juncal Dam, Santa Barbara County-----	1931	May
Making a Road Out of a Mountain, Kings River Canyon-----	1931	June
Road Hog-----	1931	July
Spanish Creek Near Keddie, Plumas County-----	1931	Aug.
Burney Falls, Shasta County-----	1931	Sept.
California School for the Blind, Berkeley-----	1931	Oct.
Visions of a Pioneer-----	1931	Nov.
Cartoon-----	1931	Dec.
Conquering Snow on Our Mountain Roads-----	1932	Jan.
New Dormitory Building, California School for the Deaf, Berkeley (Sketch)-----	1932	Feb.
Fruit Trees in Bloom-----	1932	March
Kings River Canyon Falls-----	1932	April
Cartoon-----	1932	May

	Year	Month
American River Canyon-----	1932	June
Bixby Creek Arch Construction Work Located on San Simeon-Carmel Coast Highway-----	1932	July
Hemet Dam, Riverside County-----	1932	Aug.
"Through Palms to Peaks," Riverside City on Victoria Avenue-----	1932	Sept.
Unemployment Relief Camp-----	1932	Oct.-Nov.
Christmas Cover (Cartoon)-----	1932	Dec.
Auburn to Truckee Highway, Showing Winter Sports (III-Pla.-37)-----	1933	Jan.-Feb.
Mojave Desert Highway Showing Joshua Trees (IX-S.Bd.-31)-----	1933	March
San Francisco-Oakland Bay Bridge Span (Sketch)	1933	April
Fishing in Mountain Stream Near State Highway	1933	May-June
San Francisco-Bay Bridge and Tunnel Entrance (Sketch)-----	1933	July-Aug.
Kennett Reservoir (Sketch of proposed structure)	1933	Sept.
Thanksgiving (Cartoon)-----	1933	Oct.-Nov.
Pyramid Rock, Piru Gorge, on the Ridge Route--	1933	Dec.
Sacramento River, Looking Toward Site of Kennett Dam-----	1934	Jan.
Mount Shasta From Route 3. "The Pacific High- way"-----	1934	Feb.
Scene on State Highway No. 60, Near Santa Monica-----	1934	March
Ocean Boulevard at Santa Barbara (V-S.B.-150)-	1934	April
Castle Crags, Shasta County (II-Sha.-3)-----	1934	May
Grizzly Dome, Feather River Canyon-----	1934	June
State Highway Route 60 Along Ventura Coast Near Point Mugu-----	1934	July
"M" Street Bridge Over Sacramento River, Sac- ramento (Sketch)-----	1934	Aug.
West of Lake Tahoe (III-Pla.-38)-----	1934	Sept.
Men at Work (Sketch by Pratt)-----	1934	Oct.
Emigrant Gap Highway Clearing First Snow (III-Nev.-37)-----	1934	Nov.-Dec.
Survey Party Working on Arch Rock, Feather River Canyon-----	1935	Jan.
Tahoe-Ukiah Lateral, Snow Plow Clearing the Way-----	1935	Feb.
Spring in Capitol Park-----	1935	March
Foothill Boulevard at Fontana, Looking Toward Mount San Bernardino (VIII-SBd9)-----	1935	April
Santa Barbara Newly Constructed "Through Traffic" Boulevard (V-S.B.-2)-----	1935	May
Redwood Highway North of Garberville (I-Hum.-1)-----	1935	June
Torrey Pines Grade (XI-S.D.-2)-----	1935	July

	Year	Month
San Francisco-Oakland Bay Bridge Catwalks Lighted Up For Cable Spinning-----	1935	Aug.
Grapevine Canyon Road on Ridge Route (VI-Ker.4) -----	1935	Sept.
Redwood Highway Near Prairie Creek (I-Hum.-1)	1935	Oct.
Feather River Canyon Near Indian Creek, Plumas County (II-Plu.-21) -----	1935	Nov.
"Tower Bridge" Over Sacramento River, Foot of "M" Street, Sacramento-----	1935	Dec.

## —A—

	Year	Month	Page
Advertising. See Outdoor Advertising Act. Page 181.			
Advisory Fiscal Committee, California Toll Bridge Authority. (Group) Governor Rolph, Leland Cutler, Earl Lee Kelly and Others -----	1932	Sept.-Oct.	7
Agnew Hospital, Agnew, Santa Clara County (Sketch) -----	1930	Dec.	13
Air Cleansers, Commercial -----	1925	April	4
Alemaney Boulevard Extension, San Mateo County, Completed (Sketch) -----	1935	Nov.	21
"All Year" Yosemite Highway -----	1932	May	7
Alpine Highway Above Jackson -----	1925	Nov.	3
Alto-Waldo Road Fill. Link of Redwood Highway -----	1931	Nov.	11
American Canyon			
Cut-off Project -----	1934	Sept.	3
Scenes in -----	1933	Dec.	3
American River Bridge Opening and Scenes of Bridge. (Group) Governor Merriam, Earl Lee Kelly and Others -----	1935	April	2, 3
American River Canyon -----	1932	June	Cover
Anaheim Bay Bridge, Orange County -----	1924	Oct.	3
Andrew, C. E., Bridge Engineer -----	1928	July-Aug.	2
Also -----	1931	Feb.	3
Angeles Crest Highway (VII-L.A-61) -----	1934	July	3, 29
Arch Rock in Feather River Canyon			
Pictorial Map by Newton Pratt -----	1934	July	3
Showing Preparations for Blasting -----	1935	March	3
Survey Party Working (II-Plu-21) -----	1935	Jan.	Cover
Arrowhead Trail to Boulder Dam. Blasting Operations -----	1931	July	11
Arroyo Honda, Santa Barbara County. Ocean View -----	1913	May	23
Arroyo Seco, Los Angeles County			
Damaged by Floods -----	1926	June	14
Emergency Relief Camp -----	1932	Dec.	3
Stages Attempting to Ford -----	1927	April	14
Asphalt Concrete Pavement			
Charts -----	1926	Dec.	11
Planer -----	1926	Nov.	14
San Luis Obispo County -----	1932	Feb.	11
Santa Clara County -----	1932	Feb.	11
Spreading Machines, New -----	1928	Feb.-March	16, 17
Testing Machines -----	1930	Jan.	5
Auburn-Truckee Highway			
Snow, East of Applegate -----	1932	Jan.	3
Winter Sports (III-Pla-37) -----	1933	Jan.-Feb.	Cover
Automobile License Plates. Old and New	1930	Jan.	3

## B

	Year	Month	Page
Banks, A. L., Assistant Deputy Director, Department of Public Works-----	1931	June	14
Also -----	1931	Oct.	1
Barham, Dr. W. W. Member, Califor- nia Highway Commission-----	1933	Jan.-Feb.	8
Bartlett Springs Road Opened. Al Banks, Frank Crayton and Others (Group)	1931	Sept.	22
Bassett, E. J. District Office Engineer--	1929	Dec.	8
Baumgartner, J. P., Member California Highway Commission -----	1927	May	3
Bay Shore Highway Construction work in Santa Clara County -----	1935	Oct.	13
Improvements -----	1933	July-Aug.	25
Bay View Rest and Eagle Falls. Con- struction Work -----	1930	April	4
Bear Valley Scene. Between Emigrant Gap and Nevada City-----	1931	July	24
Bechtel, W. A. Contractor-----	1927	Nov.	31
Bedford, T. A., Division Engineer, Divi- sion I -----	1924	Feb.	13
Benbow-Garberville Unit Celebration (Group) and Highway Scenes. Governor Merriam, Earl Lee Kelly, Senator H. A. Perry, Julian D. Roussel and Others -----	1935	June	6-7
Berg, Carl E. Engineer of Estimates and Costs, Division of Architecture-----	1929	Nov.	14
Bevans, Russel. Chief Inspector, Divi- sion of Motor Vehicles-----	1931	July	16
Bid Opening (Groups)-----	1931	Oct.	41
Sacramento (Group) -----	1933	Oct.-Nov.	30, 31
Also -----	1935	Dec.	13
State Building, Los Angeles (Group)	1934	June	20, 21
Big Bear Lake, San Bernardino County--	1929	Nov.	12
Roads, old and new-----	1926	Jan.	12
Big Lagoon Trestle, Humboldt County--	1928	Jan.	Inside Cover
Big Sur Contract, Monterey County----	1924	Nov.	10
Biscailuz, Eugene W., Chief of Highway Patrol -----	1929	Sept.	5
Bixler Pavement Marker in Action-----	1925	May	10
Black Bear Trapped in Indian Basin Near General Grant Park-----	1929	Nov.	25
Black, George A., Santa Barbara-----	1928	April	21
Blaney, Charles D., Chairman, California Highway Commission -----	1914	July	3
Blasting Along Ocean Front Where Scenic Highway Is Being Con- structed (VII-Ven.-60) -----	1924	Jan.	7

	Year	Month	Page
Blossom Time			
Along a State Highway in Santa Clara County -----	1928	April	Cover
On the Desert			
Between Barstow and Needles in San Bernardino County (Back Cover) -----	1928	April	Cover
Between Mecca and Blythe, River- side County (Back Cover) -----	1928	April	Cover
Santa Clara County, Blossoms -----	1929	Oct.	3
Board of Engineers, Rivers and Harbors of United States War Department -----	1932	Dec.	13
Welcoming to Sacramento -----	1932	Dec.	15
Boree, J. J., Bureau of Schools and Edu- cation, Division of Motor Vehicles --	1929	Dec.	4
Boulder Dam Site -----	1927	Nov.	17
Bowers, H. Dana, Landscape Engineer --	1932	Sept.	2
Box Canyon, Riverside County			
Before and After the Flood (XI-Riv.-64) -----	1935	Nov.	7
Flood Scenes (XI-Riv.-64) -----	1935	Sept.	7
Branagan Subway Near Newport Beach, Orange County -----	1927	Feb.	12
San Francisco Highway Bottleneck, Breaking -----	1927	Sept.-Oct.	3, 5, 7
Bridges			
Anaheim Bay, Orange County -----	1924	Oct.	3
Bear Creek, Near Briceburg (X-Mer.-18) -----	1927	July	13
Yosemite Highway -----	1927	April	12
Bear Lake, San Bernardino County, Rim of the World Highway -----	1925	July	6
Big Tujunga River, Los Angeles County -----	1924	April	11
Bixby Creek Arch (Construction) San Simeon-Carmel Coast Highway -----	1932	July	Cover
Briceburg Prison Camp, Connecting With Railroad Station -----	1924	June	4
Carmel-San Simeon Highway (V-Mon.-56) -----	1932	May	5
Colorado River, New Steel Bridge Re- places Ferry Over, Between Blythe and Arizona -----	1928	Feb.-March	20
Cottonwood Creek -----	1931	Feb.	7
Kern River Project -----	1925	July	Cover
Crystal Springs Dam -----	1924	Feb.	Cover
Deterioration -----	1935	Jan.	15
Dolan Creek Timber Arch on Carmel- San Simeon Highway -----	1935	Feb.	27
	1935	July	19
Doney Creek, Pacific Highway -----	1928	July-Aug.	Frontis
Arch, on Pacific Highway, Shasta County -----	1927	Jan.	8
Donner Summit (Back Cover) -----	1928	July-Aug.	Cover
Donner Summit, and Plaque -----	1926	Sept.	Cover

Bridges—Continued.	Year	Month	Page
Dry Gulch, Near Yreka	1932	March	3
Eel River, at Smith Point on Redwood Highway	1935	July	19
New Sidewalk	1925	Sept.	11
South Fork of, South of Garberville	1935	June	3
Ehrenburg Toll, Near Blythe, Riverside County	1931	March	13
Eureka Way Overhead in Redding	1935	July	19
Feather River (III-But.-21)	1935	July	17
at Oroville	1928	July-Aug.	3
Oroville Lateral	1924	April	11
Feather River Canyon at Pulga	1932	Jan.	5
Flooring, With Redwood Blocks	1925	Oct.	13
Garrapata Creek, Near Carmel, Construction Work	1931	Nov.	35
Granite Creek, South of Carmel	1931	Nov.	35
Herndon	1927	April	4
"Icemans," Over Russian River on Tahoe-Ukiah Cutoff	1932	Aug.	17
Kaweah River, on Sequoia Road	1924	March	12
At Orleans	1926	Oct.	9
Memorial	1926	May	8, 9
Douglas Memorial (Sketch)			
Dr. G. H. Douglas	1924	Aug.	3
Near Mouth of Shasta River	1932	March	3
La Canada Arch, Over Arroyo Seco, Los Angeles County	1930	Oct.	6
La Placerita Creek, Los Angeles County (VII-L.A.-4)	1927	May	13
Log, Completed Across Wolf Creek on Sonora Road, Mono County	1927	Aug.	10
Los Alamos Creek on New Ridge Route Alternate	1932	Dec.	23
Mad River in New Location	1933	March	11
Merced River, at El Portal	1928	July-Aug.	3
South Fork of	1928	July-Aug.	3
South Fork, Merced to Yosemite Valley (X-Mer.-18)	1927	July	13
False Work For	1927	June	12
Miller, Harlan D., Memorial, Shasta County (Back Cover)	1928	Jan.	Cover
Mokelumne River, Before and After	1926	Nov.	10
Monterey Pass (V-Mon.-26)	1935	July	17
Myers Creek, Mountain Springs Grade, Imperial County	1925	Feb.	11
Myrtle Creek, Redwood Timber	1928	July-Aug.	3
Napa River	1932	May	35
Needed on State Highway System (Map)	1924	April	16
New Type for Lateral Roads, Pitt River, Lassen County	1925	Oct.	8
Newport Bay, Orange County	1925	June	4
Pacheco Pass, Cedar Creek and Pacheco Creek	1924	Oct.	5
Pacific Highway Arch Across Charley Creek in Northern Shasta County	1926	July	Cover
Pacoma, Dedicated	1924	June	7



Bridges—Continued.	Year	Month	Page
Pine Creek, Cleveland National Forest, Southern California -----	1924	Sept.	Cover
Pit River, Near Baird, Shasta County	1916	July	4
Rainbow Arch Over Bixby Creek, San Simeon-Carmel Highway, Showing Construction Work and Completed Bridge -----	1932	Oct.-Nov.	13
Redwood Highway, Rattlesnake Creek, Mendocino County (New and Old)	1934	Oct.	29
Redwood Highway, Smith River Can- yon, Del Norte County -----	1927	Jan.	4
Reinforced Concrete, Over San Luis Rey River, San Diego County, Built by San Diego County Highway Com- mission -----	1912	Oct.	9
Remodeled, Over Santa Ana River in Orange County -----	1932	April	43
Rio Hondo, Between Los Angeles and Whittier (VII-L.A.-2) -----	1927	May	13
Los Angeles County -----	1924	April	Cover
Rio Vista, Over Sacramento River---	1928	Feb.-March	28
Rocky Creek Arch on Monterey Coast Completed -----	1933	March	31
Rogue River, Opening at Grants Pass, Oregon -----	1931	June	30, 31
Rose Canyon, San Diego County -----	1931	Feb.	10
Rubidoux, Riverside County (Sketch)	1931	May	11
Rubidoux, Riverside County -----	1932	March	23
Russian River, Near Preston on Red- wood Highway -----	1935	July	17
Salinas River at Bradley, New and Old Structure -----	1932	April	35
San Ardo, Monterey County, Before and After Views of Trestle Beneath	1927	May	13
San Diego River, San Diego County---	1934	Jan.	7
San Gabriel River, Old and New (VII-L.A.-26) -----	1924	Feb.	3
San Gabriel River, Los Angeles County (VII-L.A.-26) -----	1924	April	Cover
Also -----	1933	Dec.	27
Los Angeles County, Old and New---	1926	March	Cover
San Gorgonio, Riverside County, Opened -----	1925	Sept.	10
San Juan, Orange County, Old and New -----	1926	June	10
San Lorenzo Creek, Monterey County	1924	Oct.	13
San Luis Rey, Oceanside, San Diego County -----	1912	Oct.	9
Also -----	1930	Dec.	15
San Mateo Creek, San Diego County---	1926	May	10, 11
Santa Ana River, and Harbor Boul- vard Opening (Group) Commissioner Stanton, Supervisors John C. Mitchell and George Jeffrey, and Others -----	1934	Nov.-Dec.	31
Between Santa Ana and Anaheim (VII-Ora.-2) -----	1927	May	13

Bridges—Continued.	Year	Month	Page
Santa Clara River, Ventura County, Showing Both Old and New	1932	May	49
Santa Maria Channel, San Luis Obispo County	1927	Aug.	12
Shasta County	1928	July-Aug.	3
Shasta River	1932	March	3
Shasta, No. 2, Construction Views	1931	Feb.	3
Shasta, No. 3, Construction View	1931	Feb.	Cover, 4, 5
Slough in Colusa County	1928	July-Aug.	3
Smith River, Del Norte County Canyon	1927	Jan.	4
Destroyed	1927	April	7
Middle Fork, Redwood Highway	1928	July-Aug.	Frontis
Soda Creek near Sonora Pass, Starting a Log Bridge Across	1927	Aug.	10
Solano County, Across Sacramento River, Is Unsafe	1926	Dec.	5
South Yuba River Arch on Downie- ville Lateral	1924	April	Cover
Steel Traffic Treads on Wooden	1926	June	12
Stony Creek	1928	July-Aug.	3
Chico-Orland Highway in Glenn County	1924	Dec.	10
Sweetwater Creek	1928	July-Aug.	3
Arch (X-Mer-18)	1927	July	13
Sycamore Creek, Old and New, North of Oceanside, San Diego County	1925	April	8
Truckee River, Temporary	1926	June	4
Truckee River, Victory Highway	1928	July-Aug.	Frontis
Tuolumne River, near Modesto	1935	July	17
Unusual Detail Features of California State Highway Bridges (Loca- tions not given)	1924	April	8, 9
Upper Bear Creek	1928	July-Aug.	3
Van Duzen River, Humboldt County	1925	March	5
	1927	June	7
Ventura River (Sketch)	1932	April	29
Herndon, View of	1929	May-June	19
Washed Out Detour, over Kings River East of Centerville (VI-Fre-41)	1935	July	25
Waterproofing the Santa Margarita, near Oceanside, San Diego County	1925	March	8
Weber Creek, El Dorado County, Old and New	1916	July	2
Whitewater River, Riverside County	1924	July	10
Widening of, at Rio Honda, Los Angeles County	1926	Oct.	10
Wilson Creek, Glenn County	1928	July-Aug.	3
Bridge Clearing Operations. Jordan Creek to South Scotia	1934	Feb.	9
Bridge Department Organization. Chart	1927	Sept.-Oct.	12
Personnel	1924	April	13
Bridges and Culverts, Types of on Cali- fornia State Highways	1915	Jan.	13

	Year	Month	Page
Broadway Low Level Tunnel (Sketches)	1934	May	16-17, 19, 31
Ground Breaking Ceremonies. (Group)			
Governor F. F. Merriam, Earl Lee			
Kelly and Others -----	1934	July	17
Brown, Ralph W. Camp Superintendent, Kern River Canyon Project-----	1926	Jan.	8
Brunner, H. J. Structure Engineer, President California Automobile Association -----	1928	Feb.-March	23
Bryan, Everett			
Deputy Chief, Division of Water Rights -----	1928	Jan.	1
Hydraulic Engineer, Division of Water Resources -----	1931	Nov.	8
Building a Highway While 6000 Auto- mobiles Move Along the Road-----	1927	Dec.	10
Bull, Mr. Ralph W.-----	1927	May	3
Bull, Mrs. Ralph W.-----	1929	July-Aug.	3
Burney Falls, Shasta County-----	1927	Dec.	8
	1928	Sept.-Oct.	13
	1931	Sept.	Cover
Burney Mountain Section, Alturas Lat- eral. Snow Removal-----	1927	April	10
Butler, Frank J.			
Blue Print Chief -----	1935	June	35
Blue Print Operator-----	1931	Dec.	43

## C

Cajon-Lancaster Link-----	1934	Feb.	21
Also -----	1934	July	13
Cajon Pass, San Bernardino County, Cut and Fill-----	1929	Nov.	11
Realignment -----	1931	Dec.	5
Also -----	1932	Aug.	13
Calaveras Big Trees, Calaveras County	1928	Sept.-Oct.	3
Caldwell, J. S., Chosen President of Northern Chapter, A. G. C.-----	1928	Jan.	20
Caledonia Inn, Near San Miguel, San Luis Obispo County-----	1931	March	17
California State and Federal Officials Meet. Include California State Wa- ter Plan in Public Works Pro- gram (Group) -----	1933	April	13
California State Building and "Murals," San Diego Fair-----	1935	May	3
California State Building Annex, Civic Center, San Francisco (Sketch)---	1930	May	3
California State Buildings, Fresno (Division VI) -----	1926	Dec.	9
California State Building, Reno, Nevada	1927	June	3

	Year	Month	Page
California State Buildings Under Construction Since January 1, 1931			
Agnew State Hospital (Sketch) -----	1931	Oct.	11
Los Angeles -----	1931	March	Cover
	1932	March	33
Mendocino State Hospital Ward Building (Sketch) -----	1931	Oct.	11
National Guard Armory, Yuba City (Sketch) -----	1931	Oct.	11
Poultry Building, State Fair Grounds, Sacramento (Sketch) -----	1931	Oct.	11
State Annex Building, San Francisco (Sketch) -----	1931	Oct.	11
Whittier State School -----	1931	Oct.	11
California State Capitol, Sacramento ---	1931	April	Cover
Also -----	1935	March	Cover
View With Governor Young -----	1927	Nov.	Frontis
California State Construction Engineers	1934	Nov.-Dec.	29
California State Office Engineers -----	1934	Nov.-Dec.	29
California State Delegation to American Association of State Highway Officials (Group) -----	1924	Dec.	7
California State Fair Exhibit, Division of Highways -----	1932	Sept.	25
California State Fair Grounds -----	1931	Aug.	33
Also -----	1934	Aug.	25
Division of Architecture, Exhibit at -----	1931	Sept.	19
Division of Water Resources, Exhibit at -----	1931	Sept.	19
California State Highway Commission Approves Routes in System of United States Highways (Map) -----	1925	Jan.	16
Celebrates 25th Anniversary (Group) Commissioners Hopkins, Barham, Tetley, Stanton and Reardon; Earl Lee Kelly and others -----	1934	March	27
Exhibit at State Fair, Sacramento ----	1925	Sept.	9
Permanent Maintenance Stations in Division IV			
Petaluma -----	1924	May	10
San Joaquin Valley, Before and After -----	1924	May	10
Personnel, 1912 and 1932 -----	1932	July	7
California State Highway Commissioners (Group) -----	1931	Aug.	5
Barham, Dr. W. W., Member -----	1933	Jan.-Feb.	8
Baumgartner, J. P., Santa Ana -----	1927	May	3
Also -----	1928	Jan.	3
Bull, Ralph W., Chairman, Eureka ---	1927	May	3
Commissioner Stanton in Official Car	1932	Jan.	43
Edwards, Nelson T. -----	1924	Jan.	4
Everding, Luis -----	1924	Jan.	4
Harris, M. B., Fresno -----	1927	May	3
Hopkins, H. A. -----	1931	Jan.	5
Kelly, Earl Lee -----	1931	Jan.	4

	Year	Month	Page
California State Highway Commissioners—			
Continued.			
Meet Oregon Commissioners (Group)	1915	Jan.	6
Reardon, T. A. -----	1931	Jan.	6
Stanton, Phil A. -----	1931	Jan.	7
Also -----	1935	March	29
Tetley, Frank A. -----	1931	Jan.	7
Toy, Harvey M. -----	1924	Jan.	4
California State Highway District Engineers. Districts I to XI -----			
	1934	Oct.	5
California State Highway			
Headquarters Staff -----	1934	May	5
Inspection -----	1930	Feb.	7
Office Engineers -----	1934	Nov.-Dec.	29
Patrol, Borree, J. J., and Others (Group) -----	1930	June	Cover
Patrolman -----	1930	Feb.	Cover
Riverside County Squad (Group) -----	1931	March	8
Routes Map -----	1925	Dec.	6-7
Seal Adopted -----	1924	Dec.	14
Traffic Officers in School -----	1930	June	1
California State Highways			
Arroyo Hondo and Gaviota Coast Highway Modernized -----	1934	Sept.	11
Asphalt Concrete Experiment, Merced (X-Mer-4) -----	1927	July	9
Bear Canyon, Santa Cruz County (Back Cover) -----	1928	Feb.-March	Cover
Between Alabama Gate and Manzenar, Inyo County -----	1929	Jan.-Feb.	2
Between Ben Ali and Sylvan School, Sacramento County -----	1929	Dec.	7
Between San Juan and Hollister, San Benito County (Back Cover) -----	1928	Feb.-March	Cover
Bishop, Inyo County -----	1924	Oct.	11
Breed Bill Signed by Governor James Rolph, Jr. Earl Lee Kelly, Sena- tor Breed and Others (Group) -----	1933	July-Aug.	11
Building Mountain Roads on -----	1915	Jan.	9
Building, Near Burlingame, San Mateo County -----	1912	Oct.	7
Building, Through Northern California Forests -----	1915	Jan.	11
Burning Roadside After Weeds Have Been Sprayed with Oil -----	1929	May-June	10
Busy—			
Bayshore Highway at South San Francisco, San Mateo County -----	1932	May	11
Coast Route North of Santa Monica, Los Angeles County -----	1932	May	11
Grapevine Grade, Ridge Route -----	1932	May	11
Oil Trucks on U. S. 99 Near Turlock, Stanislaus County -----	1932	May	11
Peninsular Highway Near San Bruno, San Mateo County -----	1932	May	11
Placerville-Tahoe Highway, El Dorado County -----	1932	May	11
Red Bluff-Susanville Highway -----	1932	May	11

	Year	Month	Page
California State Highways :Busy—			
Continued.			
U. S. 40 Near Sacramento-----	1932	May	11
U. S. 99 Near Newhall, Los Angeles, County -----	1932	May	11
Cautionary Signs -----	1915	Jan.	15
Cement Pavement, San Diego County--	1925	Feb.	13
Cleared of Inflammable Material-----	1930	Nov.	12
Coast Road Near Santa Barbara (Back Cover) -----	1927	Nov.	Cover
Coast Route -----	1915	Jan.	Cover
Colfax-Gold Run Section-----	1926	Jan.	4
Colma Bottleneck Broken. Before and After -----	1928	April	9
Completed Roads on -----	1915	Jan.	5
Concrete Base, Los Angeles County--	1913	May	20
Concrete Mixer in Operation Near Roseville, Placer County -----	1913	May	16
Construction (III-Sac-4) -----	1924	May	11
Camp Tents at Shingle Springs-----	1914	July	14
Work Near Marysville, Yuba County	1912	Oct.	10
Convict Work Between Mariposa and Briceburg -----	1928	Jan.	30
Convict Workers on Mendocino-Hum- boldt Highway -----	1916	July	7
Crystal Dam Bridge, Skyline Boule- vard, San Mateo County (Back Cover) -----	1928	Feb.-March	Cover
Cuesta Grade, San Luis Obispo County (Back Cover) -----	1928	Feb.-March	Cover
Death Valley Sand Dunes, Inyo County	1929	Jan.-Feb.	3
Directional Signs -----	1932	March	8, 9
Donner Lake -----	1929	Oct.	4
El Camino Real, San Mateo County--	1927	June	5
Also -----	1930	May	6
Equipment at Work-----	1929	July-Aug.	Cover
Also -----	1929	Sept.	Cover
Evolution of the Highway of the Missions, North of Santa Barbara	1924	Oct.	12
Executives at Celebration of New Office Headquarters at Marysville (Group); Building and Floor Plan—C. H. Whitmore, Fred Grumm, E. J. Neron, R. E. Pierce and Others----	1935	May	22, 23
Farthest North -----	1914	July	7
"Fool Proof" Del Mar Crossing, San Diego County -----	1927	Dec.	24
Gaviota Canyon, North of Santa Bar- bara (V-SB-2) -----	1924	May	16
Grading Near Hopland, Mendocino County -----	1913	May	6
On Oxnard-San Juan Capistrano Highway Between Corona Del Mar and Laguna Beach-----	1925	June	4
Improvement Between Mojave and Bishop -----	1931	July	27
Inyo County Between Lone Pine and Independence -----	1929	Jan.-Feb.	2

California State Highways—Continued.	Year	Month	Page
Kern River Canyon-----	1927	Dec.	3
	1929	Oct.	3
Klamath River-----	1927	Dec.	3
Lake Tahoe-----	1927	Dec.	3
Lomita Park Road Finished, San Mateo County-----	1913	May	22
Los Gatos-Santa Cruz Link Completed (V-S.Cz.-5)-----	1934	Oct.	13
Machine Finishing for Hot-Mixed Highway Pavement-----	1930	Feb.	11
Maintenance Man Clearing Boulders From Highway-----	1927	Aug.	13
Maricopa-Ventura Highway Opening-----	1933	Oct.-Nov.	7
Mendocino County Scene-----	1916	July	5
Mono County View-----	1929	Jan.-Feb.	2
Monuments-----	1914	July	13
Motor Car Clearance-----	1915	Jan.	3
Motor Oil Spraying Machines in Operation, Los Angeles County-----	1913	May	18
Mount Shasta (Back Cover)-----	1927	Nov.	Cover
Also-----	1929	Oct.	2
Mount Whitney-----	1929	Jan.-Feb.	3
Mountain Grade Between Cloverdale and Hopland, Mendocino County-----	1912	Oct.	13
Mountain Springs Grade-----	1927	July	6, 7
Also-----	1927	Dec.	3
Near Marysville, Yuba County-----	1912	Oct.	6
Near San Jose, Santa Clara County (Back Cover)-----	1928	Feb.-March	Cover
Near Tustin, Orange County (VII-Ora.-2)-----	1927	June	14
Near Whittier, Los Angeles County--	1927	July	Cover
Oil Spraying, Los Angeles County----	1913	May	17
Oiling Macadam Near Madera, Madera County-----	1913	May	17
"Old Shasta"-----	1912	Oct.	15
Orange County Coast View-----	1929	Oct.	2
Ortega Hill, Santa Barbara County, to Be Paved-----	1927	Aug.	4
Pacheco Pass Near Gilroy, Santa Clara County (Back Cover)-----	1928	Feb.-March	Cover
Pacific Highway			
Sacramento Canyon-----	1927	Dec.	3
McCloud River-----	1927	Dec.	3
Passes Fort Sutter, Sacramento (III-Sac.-4)-----	1934	May	11
Pedestrian Bridge, Coast Road, North of Santa Monica, Los Angeles County (Back Cover)-----	1928	Feb.-March	Cover
Pine Valley, San Diego County (Back Cover)-----	1927	Dec.	Cover
Pismo Beach, San Luis Obispo County	1912	Oct.	8
Plan and Profile Proposed (Sketch)	1913	May	24
Portland Cement Pavement Between Ben Ali and Sylvan School-----	1930	April	1
Protection From Ocean Waves-----	1924	Aug.	4

	Year	Month	Page
California State Highways—Continued.			
Raking Asphalt Surface, San Mateo County .....	1913	May	21
Ready for Concrete, Near Fresno.....	1913	May	20
Redwood Cribbing on Big Sur Highway Near Carmel, Monterey County .....	1927	June	15
Redwood Country Causeway.....	1929	Oct.	3
Redwood Highway, Eel River.....	1927	Dec.	3
Rincon Sea Wall, Ventura County (Back Cover) .....	1928	Feb.-March	Cover
Rolling Asphalt Surface, Near Lomita Park, San Mateo County.....	1913	May	21
Sacramento Canyon .....	1927	Dec.	3
Safety Features .....	1914	July	5
Santa Barbara County, Highway Construction .....	1916	July	5
Santa Clara County, Blossoms.....	1929	Oct.	3
Santa Cruz County Redwoods (Back Cover) .....	1927	Nov.	Cover
Santa Margarita, San Luis Obispo County; Panorama View.....	1916	July	8
Saving Trees, Near Roseville, Placer County .....	1913	May	23
Scene on			
Los Angeles County .....	1929	Dec.	Cover
Number 60, Near Santa Monica ..	1934	March	Cover
Ridge Route (Back Cover) .....	1927	Nov.	Cover
Scenes of Completed Highway North of San Simeon, San Luis Obispo County .....	1925	Jan.	15
Scenes Showing Widening of Highways Near Milpitas, Santa Clara County .....	1924	Sept.	13
Seventy-foot Fill on Kern River Route Shasta County, New Highway Before and After .....	1929	Nov.	28
Shepards Bridge, Imperial County (Back Cover) .....	1916	July	4
Shively Bluff Repairs, Humboldt County .....	1928	Feb.-March.	Cover
Sign for California Highway Routes...	1929	March-April	13
Signs .....	1928	Jan.	33
Signs .....	1924	July	13
Snow Fighters .....	1934	Oct.	21
Plows Cleaning Mountain Roads...	1929	May-June	32
South of San Francisco.....	1914	July	Cover
Southern California Oranges and Palms .....	1929	Oct.	2
Spreading Asphalt Paint Coat, San Mateo County .....	1913	May	22
Spreading Screenings for Thin Bituminous Top .....	1913	May	17
Steam Shovel in Action.....	1916	July	4
Surveying and Building Mountain Roads .....	1914	July	12
Telford Base Under Construction.....	1928	April	11
Testing Four-inch Base.....	1913	May	14



	Year	Month	Page
California State Highways—Continued.			
Traffic in San Bernardino Mountains on Fourth of July-----	1927	Aug.	10
Tustin, Orange County (Back Cover)	1928	Feb.-March	Cover
Typical Sunday Traffic Between San Fernando and Newhall, Los An- geles County -----	1927	Aug.	10
Unloading Broken Stone Near Madera, Madera County -----	1913	May	16
Ventura County Highway Views, Be- fore and After -----	1916	July	8
View of the Mountains, Inyo County	1929	Jan.-Feb.	2
Waterman Canyon, New, Opened. Com- missioner Tetley, Supervisors A. L. Doran, John Andresen, Jr., and Others (Group) -----	1933	Oct.-Nov.	11
Widening With Flush Concrete Shoulders, Near Vacaville, Solano County -----	1925	Feb.	15
Yolo County, Proposed Route-----	1914	July	15
Yosemite Highway Guard Rails-----	1927	July	10
Yosemite Road Near El Portal (Back Cover) -----	1927	Nov.	Cover
California State Maintenance Engineers (Group) -----	1934	Nov.-Dec.	17
California State Markers (Group)-----	1934	Oct.	31
California State National Guard, New Home in San Jose (Sketch)-----	1933	April	5
California State Redwood Park, Santa Cruz County. Rebuilding Road----	1926	Feb.	7
California State School For the Blind, Berkeley -----	1931	Oct.	Cover
Annex (Sketch) -----	1930	June	9
Boy's Dormitory (Sketch)-----	1930	March	7
California State School For the Deaf (Sketch) -----	1930	Nov.	7
New Dormitory Building (Sketch)---	1932	Feb.	Cover
California State Sign Routes -----	1934	Aug.	21
California State Water Project Authority (Group) Earl Lee Kelly, Ray L. Riley, U. S. Webb and Others-----	1934	Jan.	9
California State Water Resources Com- mission -----	1932	June	11
Hearing (Group) Matt I. Sullivan, Chairman; Edward Hyatt, Jr., Major Barton and Others-----	1931	Nov.	14
California Type Highway-----	1932	Oct.-Nov.	9
Callahan Line Change-----	1926	July	10
Callahan, Walter M., Electrical Engineer, Division of Architecture-----	1930	April	5
Also -----	1931	Feb.	11
Camarillo Hospital, Ventura County (Sketch) -----	1932	Oct.-Nov.	15
Also -----	1933	Sept.	21

	Year	Month	Page
Camarillo Hospital, Ventura County— Continued.			
Ground Breaking For (Group; Sketch of Building) Governor James Rolph, Jr., Performed the Ceremony-----	1933	Sept.	21
"Camp G" at Needles for Unemployment Relief -----	1932	March	13
Campbell, L. V., Engineer of City and Cooperative Projects -----	1934	May	1
Also -----	1935	June	8
Capitol Hill—1875 and 1932. "Akron," United States Dirigible-----	1932	June	9
Caravan Passing Squaw Rock. Clover- dale-Hopland Sector of the New Red- wood Highway -----	1934	Aug.	5
Carleton, C. C., Chief, Division of Con- tracts and Rights of Way-----	1928	Feb.-March	15
Carpinteria Reconstruction Project-----	1926	Dec.	9
Casa Diablo and Deadman Creek, Mono County -----	1926	Jan.	3
Castaic Ridge Route			
Between Bakersfield and Los Angeles_	1916	July	Cover
Birdseye View -----	1916	July	3
Castella Portal, Shasta County, Castle Craggs Wilderness State Park Proj- ect. (Group) Governor Rolph and Party -----	1931	Nov.	5
Castle Craggs, Shasta County (II-Sha.-3)	1934	May	Cover
Castle Rock, North of Santa Monica, Los Angeles County-----	1927	Nov.	Cover
Cato, Captain Raymond E., Chief of the California Highway Patrol-----	1931	Jan.	12
Cedar Pass, Between Alturas and Sur- prise Valley -----	1924	Oct.	10
Cementing Test Specimens-----	1926	April	11
Central Valley Water Project Confer- ence. (Group) Governor Merriam, Public Works Director Earl Lee Kelly and State Engineer Hyatt....	1935	April	21
Chalk Hill, Coast Route, Los Angeles County -----	1926	Sept.	15
Charter Way, Grade Separation-----	1935	Dec.	7
Cheeseman, Glenn, California Highway Patrolman -----	1931	June	34
Chittenden Pass, San Benito County---	1924	Sept.	5
Cholame Lateral, After Oiling (V-S.L.O.-33) -----	1927	Aug.	14
Circle-Subway at Fresno (Sketch)-----	1932	July	2, 3
Clear Lake Highway, Completed-----	1930	Jan.	14
Clearing the Highways of Snow-----	1931	May	12, 13, 14
Clearing the Way for New Highway, Del Norte County-----	1931	June	29

	Year	Month	Page
Cleveland National Forest. Pine Creek Bridge -----	1924	Sept.	Cover
Cloverdale-Hopland			
Ceremonies. (Group) Governor Merriam, Earl Lee Kelly, Commissioners Hopkins, Reardon, Barham, and Others -----	1934	Aug.	6, 7
Ground Breaking Ceremonies. (Group) Earl Lee Kelly, representing Governor Rolph, digging first shovelful of dirt -----	1932	Feb.	29
Realignment (IV-Son.1D-Men,IL) (Sketch) -----	1932	Feb.	12
Realignment near Russian River -----	1932	Feb.	3
Coachella Valley, Riverside County -----	1932	Aug.	6-7
Coachella Valley Near Indio -----	1934	Sept.	15
Coalinga Lateral, Fresno County -----	1926	July	13
Coast Highway			
North of Santa Monica, Los Angeles County -----	1932	April	3
Santa Clara County -----	1932	July	19
Colby, Wm. S. Chairman, California State Park Commission -----	1933	Jan.-Feb.	12
Colorado River Basin Scenes -----	1928	Feb.-March	21
Colorado River Scenes at Ehrenburg -----	1932	June	13
Comly, H. S. Acting Division Engineer, Division II -----	1924	Feb.	13
Concrete			
Construction Charts -----	1926	March	6, 7
Culvert on Feather River, Near Oroville -----	1929	March-April	22
Mixing Test Tables -----	1926	Feb.	6, 7
Rainbow Arch over Bixby Creek, San Simeon-Carmel Highway, Showing Construction Work; also Completed Bridge -----	1932	Oct.-Nov.	13
Road, Ann Arbor, Michigan -----	1913	May	12
Spencer, Massachusetts -----	1913	May	12
Wayne County, Michigan -----	1913	May	12
Test Pile, Pismo Bridge -----	1925	Oct.	4
Testing Machine -----	1927	May	10
Conejo Grade Realignment, Ventura County -----	1935	Nov.	11
Conkling, Harold. Chief of the Division of Water Rights -----	1927	Nov.	7
Construction			
California Redwood Park, Widening Highway in -----	1924	Sept.	13
Elimination of Curves -----	1924	Oct.	7
Huntington Beach to Newport -----	1924	Dec.	4
Of Highway on Mount Tamalpais Causes Slides -----	1935	April	23
Operations Valley of The Moon, Sonoma County -----	1924	Oct.	16
Plank Road Across Sand, the Trunk Line to Yuma, Arizona -----	1924	Oct.	8

	Year	Month	Page
Construction—Continued.			
Progress on California State Highway	1914	July	8
Scenes in City of Santa Barbara	1934	July	5
Work and Equipment on Sacramento-McConnell Paving Job	1924	Sept.	9
Construction Activities in California National Forests			
Angeles National Forest, Los Angeles County (Back Cover)	1924	Sept.	Cover
Bridges Spanning the Klamath River (Back Cover)	1924	Sept.	Cover
El Dorado National Forest Near Echo Lake, El Dorado County (Back Cover)	1924	Sept.	Cover
Mount Wilson Trail, Los Angeles County (Back Cover)	1924	Sept.	Cover
Plumas National Forest (Back Cover)	1924	Sept.	Cover
Yuba Pass, Sierra County (Back Cover)	1924	Sept.	Cover
Consulting Engineering Board (Group)	1931	Oct.	13
Contractor Spare That Tree			
Cherokee Lane, Near Stockton	1931	Nov.	3
Oak Trees Saved, Near Live Oak	1931	Nov.	3
Trees Saved on Highway Near Lodi, San Joaquin County	1931	Nov.	3
“Control” Car	1931	Oct.	9
Convict Camp Quarters on Smith River, Del Norte County	1927	Aug.	3
Convicts at Work, Merced River Canyon Road into Yosemite	1924	March	12
Cooperation of State and City in Lodi Highway Construction, Before and After	1932	Feb.	15
Cooperative Projects			
Angeles Crest Highway (With Map)	1933	May-June	9
Bakersfield Re-routes Highway	1933	July-Aug.	5
Foothill Boulevard Through Glendale, Los Angeles County	1933	May-June	3
Oakdale on the Sonora Pass Lateral	1933	May-June	3
Stockton-Sacramento Arterial Through Lodi	1933	May-June	3
Cortelyou, S. V. Division Engineer, Division IV	1924	April	15
Craemer, Justus F. Assistant Director of Public Works	1935	Feb.	16
Crest Drive, San Bernardino County, Big Bear Region	1928	Nov.-Dec.	15
Crittenden, Bradford S.	1927	Nov.	16
Crossings Eliminated, San Diego County	1924	Nov.	3
Crystal Lake. Along the Skyline Boulevard	1930	Oct.	14, 15
Cuesta Grade, Coast Route, San Luis Obispo County	1924	Oct.	14
Cullenward, Eric. Deputy Director Department of Public Works	1932	Oct.-Nov.	17

	Year	Month	Page
Culvert Job. Irvine, Los Angeles County	1928	Nov.-Dec.	19
Culvert Extensions			
Coast Highway in Division VII	1927	Jan.	15
Division VII	1924	July	4
Cuyama Forest Highway Project, Santa Barbara and San Luis Obispo Counties	1924	Dec.	3

## D

## Dam

Don Pedro, Tuolumne River	1927	Nov.	11
Exchequer, Merced River	1927	Nov.	11
Gibralter, Santa Barbara County	1927	Dec.	9
Grant Lake, Mono County	1927	Dec.	9
Junical, Santa Barbara County	1931	May	Cover
Lost Creek, Oroville-Wyandotte Irrigation District	1928	Jan.	1
Melones, Stanislaus River	1927	Nov.	11
Danger Warnings, San Diego County	1925	Feb.	8
Daniels, W. K. Deputy Chief, Division of Architecture	1928	Feb.-March	11
Darlington, N. D. Member, California Highway Commission	1914	July	9
Deadman's Curve, Grapevine Canyon, Ridge Route. Eliminated	1935	Aug.	3
Deadman's Curve, Tejon Pass on Ridge Route (VI-Kern-4)	1924	March	3
Deadman's Hills, Mono County	1926	Jan.	Cover
Death Valley (Scene and Map)	1933	Sept.	5
Death Valley Toll Road Now Free (IX-Inyo-127)	1935	Jan.	5

## Dedications

Alto Waldo Unit Bridge. Redwood Highway over Richardson Bay, Dedicated	1931	Dec.	39
Armory at Long Beach. Governor Rolph, Lieutenant Governor Merriam, Adjutant General Seth Howard and Others	1931	March	5, 6
Bakersfield By-Pass Units, Kern River Bridge. (Group) Commissioners Hopkins, Tetley, Stanton. John W. Howe, Hugh Pomeroy and Others	1934	June	5, 22
Bay Shore Highway. (Group) Governor C. C. Young, M. M. O'Shaughnessy, City Engineer of San Francisco, and B. B. Meek, Director, Department of Public Works	1929	Nov.	8
New Unit. (Group) Governor Rolph and Others	1931	May	3
View of Parade and Section of Highway	1929	Nov.	8

Dedications—Continued.	Year	Month	Page
Burney-Fall River Mills Highway. (Group) Earl Lee Kelly, F. W. Haselwood, F. B. Durkee, H. L. Powers, Sen., John W. Howe and Others -----	1934	May	7
Chowchilla River, Madera County, Dedicated to Memory of State Traffic Officer Clarence M. Pickett	1925	July	Cover
Crescent City, Unit South of. (Group) E. J. Neron, Deputy Director of Public Works; John D. Goss of Oregon, and Others -----	1935	Sept.	3
Donner Summit Bridge. (Group) Hilliard Welch, George G. Radcliff and Others -----	1926	Sept.	4
Herndon Bridge. (Group) B. B. Meek, Director Public Works, Highway Commissioners Moody and Harris	1929	May-June	19
Hiouchi Bridge. (Group) Highway Commissioners J. P. Baumgartner, M. B. Harris, F. S. Moody and Ralph W. Bull -----	1929	July-Aug.	3
Knights Landing Bridge. Eric Cullenward, F. W. Panhorst, Supervisor W. O. Russell, John W. Howe and Others (Group) --	1933	Dec.	21
Long Beach Armory -----	1931	March	5
Los Gatos-Santa Cruz Cut-off. Earl Lee Kelly, J. H. Skeggs and Others -----	1934	Oct.	12
Mark West Bridge. (Group) Earl Lee Kelly and Others -----	1931	Aug.	11
Montecito Overhead Bridge, Santa Barbara (V-S.B.-2). Commis- sioners Hopkins and Tetley, Mayor H. T. Nielson of Santa Barbara and Others (Group) --	1934	Nov.-Dec.	6
Newman and Crows Landing Highway Realignment -----	1935	Nov.	17
Newport-Laguna Unit of Oxnard-San Juan Capistrano Highway. (Group) Douglas Fairbanks, Mary Pickford, Nelson T. Edwards and Others -----	1926	Nov.	4
Printshop. Governor James Rolph, Jr., operating a Linotype Machine (Group) -----	1932	Dec.	17
Prunedale Cut-off. (Group) Walter E. Garrison, Earl Lee Kelly, John W. Howe and Others -----	1932	Aug.	3
Rainbow Arch Over Bixby Creek, Carmel-San Simeon Highway (V- Mon.-56). (Group) L. H. Gib- son, Senator Tickle, John W. Howe and Others -----	1932	Dec.	7
Ridge Route Alternate Highway. Com- missioners Hopkins, Stanton, Tetley, and Others -----	1933	Oct.-Nov.	3, 16, 17

Dedications—Continued.	Year	Month	Page
Rogue River Bridge terminus. End of Redwood Empire, at Grants Pass, Oregon. Ceremonies Attended by Col. Walter Garrison, Director of Public Works, Representing Governor Rolph, C. H. Purcell, State Highway Engineer and Others. (Group and Bridge) -----	1931	June	30, 31
Rubidoux Bridge and Planting a Memorial Palm. Governor Rolph Officiating -----	1932	April	27
Russian River Bridge at Monte Rio. (Group) Governor Merriam, E. J. Neron and Others -----	1935	April	17
Russian River Bridge Opening -----	1931	Oct.	39
San Diego Highway Office Building, Earl Lee Kelly, Justus F. Craemer, Julien D. Roussel and Others (Group) -----	1935	Aug.	13
Santa Ana River Bridge. (Group) Nelson T. Edwards, Commissioner and Others -----	1925	April	6
Sepulveda Highway Scene (Group) Governor Merriam, Earl Lee Kelly, Frank Balfour, Justus F. Craemer, and others -----	1935	Nov.	5
State Building, Los Angeles (Sketch) -----	1932	July	25
Truckee River Highway. (Group) Governor Richardson, Governor Schrugham, Nevada, Chairman Toy and Others -----	1926	June	3
Tuolumne Bridge, with Governor James Rolph, Jr., Speaker -----	1933	July-Aug.	30, 31
Two New Highway Links and New Armory at Pomona. (Group) Governor James Rolph, Jr., Phil Stanton, J. H. Paige and Others -----	1933	July-Aug.	19
Yosemite All-Year Road. (Group) Governor Richardson, Nelson T. Edwards, Chairman Toy, and Others -----	1926	Aug.	6
DeHaven, Harry W., Chief, Architectural Draftsman -----	1930	June	8
Del Norte County, Clearing the Way for a New Highway in -----	1931	June	29
Dennis, T. H., Acting Maintenance Engineer -----	1926	Oct.	5
Also -----	1931	Dec.	2
DeSaules, Corning -----	1928	Feb.-March	18
Desert Conditions -----	1933	April	26
Desert Highway			
Line Change Near Ludlow -----	1926	July	7
Maintenance -----	1926	July	8
Mountain Springs Grade in Imperial County -----	1929	May-June	3
Oiled Surface Near Victorville in San Bernardino County -----	1929	May-June	3

	Year	Month	Page
Desert Highway—Continued.			
Riverside County, South of Banning	1929	May-June	3
Sand Dunes, Imperial County	1929	May-June	3
Scenery on Lancaster-Cajon Cut-off (VIII-S.Bd.-59)	1934	Feb.	21
Storm Protection Ditches	1929	Oct.	7, 8
Through Broken Lava in San Bernardino County	1929	May-June	3
Device For Final Cross-Sections. Division VI Invention	1926	Dec.	12
Loading Trucks. (Division II)	1926	July	14
Devil's Corral Bridge, Susanville Lateral (II-Las.-29)	1924	Jan.	Cover
Discarded Pipe Now Fence Posts. (Division VII)	1925	Aug.	13
Discing and Harrowing. Road Mix Oiling Project in Monterey County	1934	Sept.	29
District Engineers, Department of Public Works (Group)	1931	Nov.	23
Also (Group)	1934	Oct.	5
District Maintenance Engineers (Group)	1934	Dec.	17
District Maintenance Engineers and Superintendents (Group)	1930	Feb.	13
District Office Garden, San Bernardino	1927	Dec.	11
District X. New Headquarters Building Opening at Stockton. (Group) Earl Lee Kelly, R. E. Pierce, Con J. Franke, Mayor of Stockton; Senator Biggar and Others	1935	March	25
Division Engineers Attend Conference (Group)	1924	Feb.	11
Division VI, Activities in	1924	March	11
Division Staff at Willits	1925	Nov.	15
Donner Pass Drifts	1932	Jan.	3
Donner Summit			
Blasting Scenes	1924	Feb.	4
Drifts	1931	Dec.	16, 17
Scenes, Old and New Highways	1924	Nov.	Cover
Surface Break (III-Pla.-37)	1935	July	30
Snow Scenes	1931	Dec.	3
Drafting Room in State Architect's Office	1929	Dec.	11
Drainage Culvert Near Irvine, Orange County	1924	Dec.	13
Drainage Sump on the Golden State Highway	1930	Nov.	10
Drop-leaf Shoulder Drag, Developed (Division II) (Plan)	1926	Nov.	12
Duarte Oak No More, Los Angeles County	1926	Dec.	11
Dublin Canyon Boulevard, Old and New (IV-Ala.-5)	1934	Feb.	5
Dutton, J. W., General Superintendent, Division of Architecture	1930	Feb.	8



## E

	Year	Month	Page
Early Soil Studies.....	1932	Sept.	17
Earthquake Damage to Highways Near Long Beach .....	1933	April	3
East of the Sierra, Inyo County.....	1926	March	7
Edmonston, A. D., Deputy State Engi- neer .....	1932	March	4
Water Resources .....	1929	Sept.	3
"Educated" Landslides .....	1928	Jan.	13
Edwards, Nelson T., Member California Highway Commission .....	1924	Jan.	4
Eel River Bridge. New Sidewalk.....	1925	Sept.	11
Eichler, Alfred, Architectural Engineer, Division of Architecture.....	1930	Oct.	4
El Camino Real, San Mateo County.....	1925	May	Cover
Line Change .....	1930	May	6
Modern .....	1930	May	6
Elk, Herd of, Tahoe-Ukiah Highway, Colusa County .....	1930	Oct.	13
Emigrant Gap Highway Showing First Snow (III-Nev.-15).....	1934	Nov.-Dec.	Cover
Employment Measures Signed. (Group) Governor James Rolph Jr., Lieu- tenant Governor Frank F. Merriam, Colonel Walter E. Garrison, Robert L. Patterson and Others.....	1931	Jan.	10
Equipment			
Division I .....	1924	May	4
Division VII .....	1924	May	6
Headquarters Shops, Sacramento.....	1924	May	5
Equipment, New, For Highway Work...	1935	Sept.	25
Homemade Drag .....	1924	March	5
Portable Asphalt Plants .....	1924	March	6
Built by Division VI.....	1926	Aug.	11
Eureka Slough Bridge, Humboldt County, Repaired .....	1926	April	12
Everding, Luis, Member California High- way Commission .....	1924	Jan.	4
Examples of Soil Tests.....	1925	Nov.	9
Expansion Joints Experiments.....	1926	Jan.	10
Extracting Drill Steel.....	1932	June	23

## F

Feather River Canyon			
Near Indian Creek, Plumas County (II-Plu.-21) .....	1935	Nov.	Cover
Slip-out (III-But.-21) .....	1935	July	25
Feather River Falls, Butte County (In- side Cover) .....	1928	Sept.-Oct.	Cover

	Year	Month	Page
Feather River Highway Gateway Bridge, Oroville -----	1930	Nov.	Cover, 4, 5
Feather River Scenes -----	1931	Aug.	18, 19
"Federal Aid" Arterials, San Francisco	1935	July	5
"Federal Aid" Helps Bridge Mighty River. Douglas Memorial -----	1925	Nov.	Cover
"Federal Aid" Highways Map (Back Cover) -----	1924	Aug.	Cover
Also -----	1925	May	16
Also -----	1927	Sept.-Oct.	15
Finishing Machine Working Near Fresno	1931	June	29
Fire Engine, New, For Division of Forestry, in Action -----	1929	July-Aug.	5
Firestone Boulevard "Bottleneck" Elim- inated -----	1934	Oct.	7
"Fishermen" Hopkins and Barham -----	1933	Oct.-Nov.	25
Fish Hatchery, Mt. Whitney -----	1927	Dec.	5
Fishing in Mountain Stream Near High- way -----	1933	May-June	Cover
Fishing Scene -----	1928	May-June	Cover
Flagging the White Stripe -----	1928	July-Aug.	10
Fletcher, A. B. In Memoriam -----	1928	April	1
State Highway Engineer -----	1914	July	10
Flood Scenes, Los Angeles County -----	1934	Feb.	3
Near Sacramento -----	1935	May	7
Flood Scenes, and Same Stream After— Dry -----	1931	Oct.	3
"Follow the Leader" Traffic Control Car	1932	May	15
Folsom State Prison, New Cell Block (Sketch) -----	1930	Jan.	7
Foothill Boulevard At Fontana, Looking Toward Mt. San Bernardino (VII-Ora-9) -----	1935	April	Cover
Cut-off to Pasadena, and State Route 4 Los Angeles-San Bernardino Route Before and After -----	1930	Feb.	14
Sector Opened in Claremont -----	1931	Feb.	28
Ford, Andrew J., Inspector at Large, Division of Motor Vehicles -----	1930	July-Aug.	13
Forest Fires, Battling Against -----	1931	Sept.	3
Fort Ross, Sonoma County. The Old Bastion -----	1928	Sept.-Oct.	2
Frattessa, Paul, Attorney, California Highway Commission -----	1924	Aug.	10
Fresno Asphalt Concrete Pavement Completed (VI-Fre-4) -----	1935	Oct.	27
Fruit Trees in Bloom -----	1932	March	Cover
Fumigators -----	1924	June	16

## G

	Year	Month	Page
Galivan Line Change, Orange County---	1931	June	9
Galivan-San Juan Reconstruction Project, Orange County-----	1926	Feb.	4
Garrison, Colonel Walter E., Director, Department of Public Works-----	1931	Jan.	3
Gas Tax Funds for Cities, Governor Merriam Signs Bill. Earl Lee Kelly, Mayor Ferguson of Sacramento and Others (Group) -----	1935	Aug.	21
Gas Tax Map United States-----	1924	Oct.	15
Gaviota Pass -----	1932	March	27
German Express Highway Under Construction. Test Tracks-----	1935	March	27
Giant Redwood On Redwood Highway-	1927	May	Cover
Gibson, L. H., District Engineer, District V -----	1931	May	10
Division Engineer, Division V-----	1924	June	13
Gold Run-Airport Project (III-Pla.-37)	1932	Aug.	5
Gold Run to Airport Scenes-----	1934	Feb.	17, 22
Golden State Highway			
Bridal Veil Falls, Yosemite-----	1930	July-Aug.	11
Cosumnes Trestle in Sacramento County -----	1930	July-Aug.	11
Grading on Newhall Alternate Line--	1930	July-Aug.	12
Ridge Route Line Changes-----	1930	July-Aug.	12
South of Bakersfield-----	1930	July-Aug.	10
Subway at Califa, Merced County----	1930	July-Aug.	11
Through Lodi in San Joaquin County	1932	July	19
Tree Planting in Stanislaus County--	1930	July-Aug.	12
Tuttletown Store -----	1930	July-Aug.	10
Goodbye to The Water Break-----	1925	Oct.	10
Government Holdings in Public Land States Chart -----	1925	Oct.	11
Governor Signs Bill Providing for Allocation of Gas Funds for Cities. (Group) Earl Lee Kelly, Mayor of Sacramento Arthur Ferguson, and Others -----	1935.	Aug.	21
Grade Crossing Eliminations			
Delano Underpass, Under Construction	1935	Oct.	5
San Diego Coast Between Encinitas and Cardiff -----	1925	Jan.	Cover, 4, 6
Sorrento Canyon, Near Del Mar, San Diego County (VII-S.D.-2) (Sketch) -----	1932	Oct.-Nov.	39
Grade Crossing Warning			
Division IV -----	1924	Nov.	14
New, Division VI -----	1924	July	3
Grade Separations			
Bakersfield, at Union Avenue on the Ridge Route -----	1935	Aug.	5
Barstow Overhead (New) -----	1930	June	3

	Year	Month	Page
Grade Separations—Continued.			
Bay Shore Highway in South San Francisco	1935	May	21
Bayshore Highway Underpass	1926	Nov.	9
“Braided” Crossing Manzanita Station Near San Rafael	1930	Dec.	5, 6, 7
Brighton Subway Near Sacramento, Before and After	1929	Nov.	4
Carlsbad, San Diego County	1927	Aug.	7
Del Mar in San Diego County	1927	June	13
Glendale Boulevard at Sunset, Los Angeles County (Sketch) (Scenes)	1934	June	15
Glendora, Los Angeles County	1930	Dec.	9
Hinton Crossing Over Southern Pacific Railroad Tracks, Truckee River Canyon, Nevada County	1926	April	4
Irvine Overhead, Orange County	1929	Nov.	5
Lincoln Boulevard With Culver Boulevard and Pacific Electric Railway in Los Angeles County (Sketch)	1932	Jan.	23
Lytton Crossing, Sonoma County	1924	Feb.	7
Model Bridge Overpass (Sketch)	1932	Aug.	25
Model of Salinas, at State Highway and Main Street, and photos of Same	1935	March	5
Montebello, Whittier Boulevard, Los Angeles County	1926	June	15
Montebello Subway, Whittier Boulevard, Los Angeles County	1926	June	15
Monterey Pass Overhead (Sketches)	1934	March	3
Mt. Vernon Avenue Viaduct, San Bernardino (View) (Sketch)	1933	Oct.-Nov.	5
Near Madrone, Santa Clara County	1934	Jan.	25
North Sacramento	1926	April	4
Overhead Crossing at Jacumba, San Diego County	1924	April	7
Overhead Crossing Over North Western Pacific Railroad Tracks at Lytton, Sonoma County	1924	April	7
Overhead Bridge Over Southern Pacific Railroad Tracks, Alameda County	1924	April	7
Pacific Highway Near Redding	1924	Feb.	7
Pismo Overhead at Pismo Beach, San Luis Obispo County	1926	July	9
Pismo, San Luis Obispo	1926	April	4
Polaris Bridge Over Truckee River and Southern Pacific Railroad Tracks, Truckee Canyon, Nevada County	1926	April	4
Power Ditch Over Sequoia Park Lateral, Tulare County	1924	Feb.	7
Ramona Boulevard, Los Angeles County	1935	Feb.	25
Sacramento-Stockton Link (III-Sac-4)	1934	Sept.	31
Serra, Orange County	1928	Sept.-Oct.	11
Serra, Orange County Twin Subways	1929	Nov.	5
Sorrento Canyon Near Del Mar	1934	Jan.	25

	Year	Month	Page
Grade Separations—Continued.			
Subways			
Califa, Merced County .....	1930	July-Aug.	11
North Approach to Cottonwood Creek .....	1931.	Feb.	7
Southern Pacific Railroad Tracks at Davis, Yolo County (III-Yolo-6) .....	1924	April	7
Southern Pacific Railroad Tracks at Hornbrook, Siskiyou County .....	1924	April	7
Under North Western Railroad Tracks in Mendocino County ..	1924	April	7
Western Pacific Railroad Tracks, Alameda County .....	1924	April	7
Sunset Boulevard Over Glendale Boule- vard, Los Angeles County .....	1934	Oct.	25
Undergrade Crossing Near Whittier, Los Angeles County .....	1929	Nov.	5
Underpass at Oro Grande, San Ber- nardino County .....	1925	March	Cover
In Ventura County .....	1916	July	8
Ventura County (VII-Ven.-2) .....	1934	May	25
Vernon Avenue, San Bernardino, Over Railroad Tracks .....	1935	July	19
Viaduct Over Santa Fe Railroad Tracks at San Bernardino, Open- ing Ceremonies. (Group) Com- missioners Hopkins, Tetley, Stan- ton, and Others .....	1934	June	7
Grading of Aggregates .....	1926	Aug.	7
Grand Canyon of the Sierra. Cartoon by "Ket" .....	1932	Jan.	11
Grapevine Canyon Road on Ridge Route (VI-Ker.-4) .....	1935	Sept.	Cover
Grapevine Grade Section Between Fort Tejon and Grapevine Station .....	1934	Sept.	9
Graphic Charts .....	1927	Feb.	6, 7
Green, Frederick M. Assistant Struc- tural Engineer .....	1931	Dec.	28
Greenville-Livermore Widening Job, Alameda County .....	1925	Jan.	10
Grizzly Dome and Arch Rock in Feather River Canyon (Also Sketch) .....	1934	Aug.	2, 3
Construction Through Feather River Canyon .....	1935	Nov.	23
Feather River Canyon .....	1934	June	Cover
Also (Sketch) .....	1935	April	4, 5
Highway Operations in Feather River Canyon .....	1935	Dec.	21
Ground Breaking Ceremonies for Annex to State Printing Plant, Governor Rolph with first shovel of dirt .....	1932	Jan.	35
Grumm, J. Fred. Engineer of Surveys and Plans .....	1929	May-June	5
	1931	Dec.	14

	Year	Month	Page
Guard Fence Near Oceanside, San Diego County -----	1924	Sept.	10
Guard Rail That Held -----	1924	June	8
Guard Rails			
Nevada City Lateral -----	1924	Aug.	13
Sacramento-Placerville -----	1924	Aug.	13
Gunston, George T. Disbursing Officer, Department of Public Works -----	1931	Nov.	9

## H

Haley, J. J., Jr., Deputy Chief, Division of Engineering and Irrigation -----	1928	Jan.	10
Half Moon Bay New State Highway (IV-S.M.-105) (Sketch) -----	1935	Dec.	2, 3
Hamilton, Charles D., Member, California Highway Commission -----	1935	Aug.	10
Hangman's Tree Beside Bret Harte's Cabin -----	1933	March	35
Harnessing the Tides to Open a Bridge. Alamos Bay, Los Angeles County -----	1924	July	6
Harris, M. B., Member, California Highway Commission -----	1927	May	3
Haselwood, F. W., Acting Division Engineer -----	1924	Aug.	11
Division Engineer, Division III -----	1927	May	6
District Engineer, District I -----	1931	May	16
Hauser Contract on Ventura Coast			
Construction Views -----	1924	Aug.	9
Damaged by Storms -----	1926	March	14
Scenes of Construction Work Near Big Sycamore Canyon -----	1925	Sept.	4, 5
Scenes of Ventura Coast Construction Activities (Back Cover) -----	1924	Oct.	Cover
Hawley, George W., Engineer, Dam Department -----	1929	Oct.	5
Headquarters Shops, Sacramento -----	1924	May	Cover
New Sprinklers -----	1924	Aug.	13
Hemet Dam, Riverside County -----	1932	Aug.	Cover
Henderlong, Carl A., Assistant Engineer, Division of Architecture -----	1930	May	11
Henry, B. H., Superintendent, Convict Camp No. 12 -----	1928	Nov.-Dec.	20
Heron, A. R., Director of Finance -----	1928	Feb.-March	5
Herz, James I., Deputy Director of Public Works -----	1931	Jan.	9
Also -----	1931	July	9
Hewes, Dr. L. I., Deputy Chief Engineer, United States Bureau of Public Roads -----	1928	Nov.-Dec.	12
Higgins, E. R., Chief Accountant, Department of Public Works -----	1928	April	40

	Year	Month	Page
"High" Ways in California. Causeway on South Fork of Eel River-----	1927	Dec.	3
Highest and Lowest Points in United States -----	1931	March	9
Highways. See CALIFORNIA STATE HIGHWAYS			
Holohan, James, Warden San Quentin-----	1928	Jan.	6
Hopkins, Harry A. Chairman, California Highway Commission -----	1934	Feb.	1
Member of the California Highway Commission -----	1931	Jan.	5
Hopkins, Carleton, and Grumm at Salt Lake (Group) -----	1931	Oct.	8
Hornitos (Little Ovens) -----	1935	Jan.	11
Howard, Charles S., Directing Chairman, California Fire Emergency Committee -----	1931	June	1
Humboldt County Highways -----	1928	Nov.-Dec.	16
In the Making -----	1932	Jan.	9
Humboldt County Timber -----	1912	Oct.	3
Hutchin's Oak Tree -----	1928	Nov.-Dec.	7
Hveem, F. N., Assistant Testing Engineer, Research Department -----	1932	Oct.-Nov.	8
Hyatt, Edward, Jr., State Engineer ----	1927	Nov.	10
Also -----	1932	April	14
Hydraulic Activities on Highway Work (II-Tr.-20) -----	1934	May	2
Also -----	1935	May	9

## I

Illuminated Christmas Tree (Sketch) --	1928	Nov.-Dec.	Cover
Illuminating the State Capitol -----	1930	April	Cover
Imperial County Floods -----	1928	Sept.-Oct.	20
Imperial County Sand Hills, Building Highway Over -----	1926	June	9
Improvements on Ridge Route -----	1925	Nov.	10
Indian Relics, Unearthed in Los Angeles County Near New Santa Ynez Canyon Bridge -----	1925	March	15
Indio Cutoff Completed (IX-Riv.-64) --	1935	July	20, 21
Ingels, Ray, Member, California Highway Commission -----	1935	June	10
Ingerson Automatic Radio Stream Gage Signal Apparatus -----	1935	March	13
Ingerson, Irwin M., Hydraulic Engineer, Division of Water Resources -----	1935	March	13
In Memoriam			
Araujo, Eduard A. -----	1924	July	9
Fletcher, A. B., State Highway Engineer -----	1928	April	1
Miller, Harlan D., Bridge Engineer --	1926	Oct.	13
Rolph, James Jr., Governor -----	1934	June	2

	Year	Month	Page
Inspection of Roads in 1896 by R. C. Irvine and J. L. Maude -----	1931	Aug.	5
International Pacific Highway Scenes--	1935	Feb.	17
Inyo County Winter Scenes-----	1928	April	15
Irrigation Scene, Turlock, Stanislaus County -----	1930	Nov.	3
Irrigation Water Damages State Highway in Colusa County-----	1924	Aug.	10

## J

Jackson, Amador County, Curves Flattened Out, East of -----	1931	Dec.	25
"Jail" Type Building for Insane (Later Abandoned) -----	1928	Feb.-March	11
Jerrett, H. D., Right of Way Agent, District III -----	1928	Sept.-Oct.	9
Joint Legislative Committee on Water Problems (Group) -----	1932	March	5
Also -----	1932	June	25
Hearing. (Group) Assemblymen Craig, Kline, Cloudman and Others--	1931	Nov.	15
Jones, R. L., Deputy State Engineer--	1933	Jan.-Feb.	14
Also -----	1935	May	6
"Joshua Tree" On Highway Near Victorville -----	1929	May-June	Cover
"Jumbo" Elephant Buried by W. H. Hauser, Contractor -----	1927	Dec.	12
Junipero Serra Boulevard Feeder Road Completed -----	1934	Oct.	2, 3
Junipero Serra Highway, San Mateo County -----	1935	Oct.	15

## K

Keaton, Morgan, Assistant Deputy Director, Department of Public Works	1933	Jan.-Feb.	2
Also -----	1934	Feb.	12
Also -----	1934	April	8
Also -----	1934	June	8
Kelly, Earl Lee, Chairman, California Highway Commission, Later Director of Public Works. (Chronologically arranged) -----	1931	Jan.	4
San Francisco-Oakland Bay Bridge Bills Signed (Group) -----	1931	June	3
Five Highway Commissioners (Group)	1931	Aug.	5
Snap Shot -----	1931	Sept.	9
Castle Crags Park Project (Group)--	1931	Nov.	5
Cloverdale-Hopland Highway Ground Breaking (Group) -----	1932	Feb.	29
Redwood Highway Bridge Dedicated, Over Napa River. Plaque (Group) -	1932	May	35



	Year	Month	Page
Kelly, Earl Lee—Continued.			
California Highway Commission (Group) -----	1932	July	7
Prunedale Cut-off Dedicated (Group)	1932	Aug.	3
Appointed Director of Public Works	1932	Oct.-Nov.	2
Advisory Fiscal Committee Toll Bridge Authority (Group) -----	1932	Oct.-Nov.	7
Bid Opening for San Francisco-Oak- land Bay Bridge (Groups) -----	1933	March	8, 9
State Water Plan (Group) -----	1933	April	13
San Francisco-Oakland Bay Bridge Awards (Group) -----	1933	May-June	5
Millions for Employment (Group) --	1933	Sept.	3
Caissons (Group) -----	1933	Oct.-Nov.	14
Bid Opening (Groups) -----	1933	Oct.-Nov.	30, 31
Signing San Francisco-Oakland Bay Bridge Bonds -----	1933	Dec.	25
Director, Department of Public Works	1934	Jan.	2
California Highway Commission, 25th Anniversary (Group) -----	1934	March	27
Burney-Fall River Mills Highway Celebration (Group) -----	1934	May	7
Also, at Mike -----	1934	May	7
Opening Bids in Los Angeles (Groups)	1934	June	20, 21
Ground-breaking Alameda-Contra Costa Tunnel -----	1934	July	17
Hopland Highway Dedication (Group)	1934	Aug.	7
Point Loma Dedication (Group) -----	1934	Aug.	11
Santa Monica Coast Highway (Group) -----	1934	Aug.	12
Lakeport, Highway Commission Meet- ing (Group) -----	1934	Aug.	15
Los Gatos-Santa Cruz Cut-off Dedi- cated (Group) -----	1934	Oct.	12
Stockton Headquarters Office Opening (Group) -----	1935	March	25
American River Bridge, Reconstructed, Dedication (Group) -----	1935	April	2
Discussing Central Valley Water Project (Group) -----	1935	April	21
Benbow-Garberville Dedication (Group) -----	1935	June	6
Governor Merriam Receives Invitation to San Diego Fair -----	1935	June	15
Bay Bridge Catwalk (Groups) -----	1935	July	3
San Diego Headquarters Dedication (Group) -----	1935	Aug.	13
Gas Tax Funds Bill Signed (Group)	1935	Aug.	21
Sepulveda Highway Dedication (Group) -----	1935	Nov.	5
Director of Public Works -----	1935	Dec.	1
Kennett Dam Site -----	1927	Nov.	17
Kennett Reservoir, Proposed (Sketch)	1933	Sept.	Cover
Kern River Canyon Highway Completed. Convict Job -----	1926	Jan.	8
Kern River Convict Camp, East of Bakersfield, Walker Pass Highway	1925	June	10

	Year	Month	Page
Kern River Road, Santa Maria to Freeman via Bakersfield and Walker's Pass -----	1930	Feb.	27
Killick, Victor W., Statistician, Division of Motor Vehicles -----	1930	Oct.	13
Kings River Canyon -----	1931	June	Cover
Blast (VI-Fre.-41) -----	1934	Nov.-Dec.	5
Entrance -----	1930	Oct.	9
Falls -----	1932	April	Cover
Highway -----	1932	June	5
Surveying -----	1928	Feb.-March	19
Kings River Highway -----	1930	Sept.	Cover
Dayder's Cave -----	1930	Oct.	8
Limestone Cliff in which Boyden's Caves Are Located -----	1930	Oct.	8
Kit Carson Trail -----	1932	April	13
Klamath River Highway Scenes -----	1924	Sept.	4
Kromer, C. H. Structural Engineer, Division of Architecture -----	1928	April	10
	1932	Jan.	28

## L

Labor Saving Maintenance Outfit Used North of Santa Monica -----	1925	Nov.	14
Laboratories, State Highway Commission -----	1913	May	14, 15
Laboratory Buildings in Sacramento -----	1925	June	Cover
Laguna Beach, Orange County			
New Traffic Artery -----	1927	March	4
Three Lane Highway Completed -----	1935	Aug.	19
Lake Almanor Causeway, Plumas County	1927	Dec.	19
Lake Almanor Fish Hatchery Near Chester, Plumas County (Sketch) -----	1931	April	9
Lake County Highway Broken Slopes -----	1926	Nov.	13
Highway Opened -----	1924	July	5
Lake Tahoe -----	1928	Nov.-Dec.	9
West of -----	1934	Sept.	Cover
Lakeport Barbecue (Group) Earl Lee Kelly, John W. Howe, J. M. Paige and Commissioners Hopkins, Reardon, Stanton and Barham, and Others -----	1934	Aug.	15
Lakeport Quadrangle, Aerial Maps of -----	1933	March	7
Las Flores Creek Road Widened, Near Santa Monica, Los Angeles County -----	1931	Aug.	23
Lassen National Park -----	1924	Sept.	Cover
Legislative Committee on Coordination of Water Resources -----	1928	Jan.	16
Levee Revetment of Quarry Rock -----	1930	Jan.	1
Lewis, Senator C. H. V. Los Angeles -----	1928	April	32
"License Numbers," Motor Vehicle Department -----	1931	Aug.	3

Line Change	Year	Month	Page
Alignment through Cloverdale.....	1926	Nov.	10
"All Year" Round Yosemite Route			
East of Merced .....	1932	Feb.	34
American Canyon Cut-Off.....	1933	Dec.	2
Auburn-Truckee Highway, Gold Run to Airport, Completed (III-Pla.-37)	1934	Feb.	16
Bakersfield, from Union Avenue to Beardsley Canal .....	1931	Dec.	15
Barstow .....	1925	June	6
Ben Bow to Garberville (I-Hum.-1) ..	1934	June	18
Between Arcata and Weaverville ...	1933	March	10
Fairfield and Vacaville (X-Sol.-7)	1926	Aug.	15
Fresno and Bakersfield (VI-Ker.-4)	1933	July-Aug.	4
Indio and Blythe .....	1934	Sept.	14
Palmdale and San Bernardino .....	1934	Feb.	20
Stockton and Sacramento (X-Sac.-4)	1926	Aug.	15
Stockton and Sacramento (X-S.J.-4)	1926	Aug.	15
Chalk Hill, Los Angeles County (VII- L.A.-2) .....	1926	Sept.	15
Coalinga Lateral .....	1927	Feb.	14
Conejo Grade Between Los Angeles and Ventura (VII-L.A.-2).....	1935	Nov.	14
Crescent City, South; Old and New Highway .....	1935	Sept.	2
Dixon, Solano County (X-Sol.-7) .....	1927	June	15
Dublin Canyon .....	1934	Feb.	4
Fish Creek to Stephens Grove (I- Hum.-1) .....	1931	May	17
Foothill Boulevard Near San Fernando	1934	Nov.-Dec.	20
Fort Tejon to Bakersfield.....	1935	Aug.	2
Gaviota Canyon (Sketch).....	1928	Jan.	19
Gaviota Creek (V-S.B.-2).....	1926	Dec.	13
Gaviota Pass (V-S.B.-2).....	1932	March	26
Gold Run to Airport, Placer County...	1932	Aug.	5
Grapevine realignment Between Fort Tejon and Bakersfield.....	1934	Sept.	8
Herndon to Tharsa.....	1926	May	5
Highway Improvement Along Santa Monica Coast .....	1935	June	4
Jordon Creek to South Scotia Bridge..	1934	Feb.	8
Kern County (IX-Ker.-6).....	1934	June	4
Las Flores Subway (VII-S.D.-2).....	1926	Oct.	6
Little Dann Creek to Underwoods (I-Men-1) (Sketch) .....	1932	Oct.-Nov.	18
Loomis to Newcastle (Sketch) (Views)	1934	April	12, 13
Maricopa-Ventura .....	1932	April	4
Mark West Creek, Sonoma County...	1926	May	4
Near Eureka over South Fork of Eel River .....	1935	June	2
Near Oceanside (VII-S.D.-2).....	1926	Oct.	3
New alignment at Bear Creek (VI- Mpa.-18) .....	1927	April	12
New Half Moon Bay (IV-S.M.-105) ..	1935	Dec.	2
New highway Between Las Cruces and Four Miles South of Buellton.....	1935	Nov.	12
Newman-Crows Landing (X-Sta.-41) ..	1935	Nov.	16
Nojoqui Grade Between Santa Barbara and Santa Maria (V-S.B.-2).....	1935	April	10

	Year	Month	Page
Line Change—Continued.			
Orange Hill School to Mariposa (VI-Mpa.-18) -----	1932	May	22
Oroville to Keddie (III-But.-21) ----	1935	March	2
Ortega Hill (V-S.B.-2) -----	1926	Feb.	3
	1927	Aug.	4
Pacific Highway Near Salt Creek, Shasta County -----	1925	July	4
Pismo Beach, San Luis Obispo County	1925	March	11
Pismo Beach, San Luis Obispo County (V-S.L.O.-2) -----	1926	Aug.	14
Ramona Boulevard, Los Angeles County -----	1935	Feb.	6
Rattlesnake Summit, Old and New Road Between Willits and Eureka, Mendocino County -----	1932	Sept.	12
Redding-Alturas Lateral -----	1934	Jan.	16
Redwood Highway, Del Norte County, Crescent City and Last Chance ----	1934	March	4
Relocated -----	1929	Nov.	13
Relocation of Shasta River Highway Between Yreka and Klamath River	1932	March	2
Re-routing of Highway Through Newcastle Tunnel -----	1932	May	19
Ridge Route Alternate -----	1932	July	26
Between Castaic and Los Angeles	1930	Jan.	10
Rio Vista Revised Routing -----	1931	Dec.	15
Rock Creek to Rattlesnake Crossing (I-Men.-1) -----	1931	May	18
Sacramento County (X-Sac.-4) -----	1926	Aug.	15
Sacramento, M Street Bridge entrance (X-Yolo-6) -----	1927	Feb.	13
Salinas and Hollister -----	1930	April	9
San Joaquin County (X-S.J.-4) -----	1926	Aug.	15
San Juan Grade Elimination, in Monterey and San Benito Counties ----	1932	Aug.	2
San Marcos Pass Realignment, Between Santa Barbara and Santa Ynez -----	1935	Feb.	4
San Onofre and San Mateo Creeks (VII-S.D.-2) -----	1925	April	9
Also -----	1926	May	4
San Rafael to Manzanita -----	1930	June	13
Santa Barbara County, Arroyo Hondo to Gaviota -----	1934	Sept.	10
Santa Maria to Los Alamos (V-S.B.-2) -----	1932	April	24
Shavers Well to Blythe -----	1933	March	23
Solano County (X-Sol.-7) -----	1926	Aug.	15
Sonoma County (IV-Son.-8) -----	1927	Jan.	11
Sylvan School, Sacramento County (X-Sac.-3) -----	1927	Feb.	14
Taft Relocation Link of Ventura-Coalinga Highway -----	1935	June	21
Through Dixon via Adams Street ----	1931	Dec.	15
Through Santa Barbara -----	1934	July	4
Torrey Pines Grade Curves Eliminated Between Del Mar and La Jolla ----	1932	Dec.	11

	Year	Month	Page
Line Change—Continued.			
Valdor to Junction City, Trinity County	1932	July	28
Vallejo-Fairfield	1935	Dec.	10
Waterman Canyon to Lake Arrowhead	1932	June	21
Waldo Point to Caledonia	1933	March	12
Little Lady Bids Governor to "Party" at Worlds Fair Opening	1935	June	15
Livingstone, Henry. President, California Association of Highway Patrolmen	1930	Oct.	20
Logging In The Olden Days	1930	Nov.	11
Los Angeles Chamber of Commerce and Others. Greet United States Senate Committee on Irrigation and Reclamation	1932	Sept.	7
Los Angeles Crossings Unsafe. New Grade Separations to be Constructed	1935	Oct.	3
Los Angeles-Pomona Arterial	1934	March	2, 3, 17
Los Angeles-San Diego Highway Near Capistrano. Storm Damage	1927	March	8
Los Gatos-Santa Cruz Highway (IV-S.Cr.-5)	1935	Oct.	18
Los Gatos to Santa Cruz, New Link (IV-S.Cr.-5)	1934	July	21

## M

"M" Street Bridge at Sacramento Over Sacramento River			
Construction	1935	May	5
Construction Views	1935	Sept.	5
Over Sacramento River (Sketches)	1934	Jan.	13
	1934	Aug.	Cover
Main Street of Bishop, Inyo County	1927	Aug.	15
Maintenance Aid, Division II	1925	Nov.	13
Maintenance			
Mower Attachment at Work	1925	June	15
National Old Trails Highway in San Bernardino County	1925	March	10
Near Azusa and Newhall, Los Angeles County	1924	Oct.	18
Owens Valley, Between Mojave and Independence	1925	March	13
San Diego Hills	1924	Aug.	12
Section Marker on Route 4	1926	July	14
Shops, Sacramento	1931	Sept.	7
Skyline Boulevard, San Mateo County	1925	May	7
Spreading Calcium Chloride	1924	July	12
Station Built at Crescent City, Del Norte County	1926	Dec.	8
Superintendent Tremper's Home (District II)	1931	Sept.	35

Maintenance—Continued.	Year	Month	Page
Tractor in Division IV, Black Point Cut-Off -----	1925	Sept.	13
Unemployment Relief -----	1933	Jan.-Feb.	3
Work. Improving the National Old Trails Highway -----	1924	July	11
Yard, Douglas City, Trinity County --	1931	Feb.	15
Malibu, Los Angeles County. Problems on Highway -----	1926	Feb.	14
Malibu Coast Highway Construction, Los Angeles County -----	1927	Jan.	7
Malibu Fire Scenes -----	1935	Nov.	27
Malibu Job, Los Angeles County -----	1926	Jan.	14
Malpaso Creek Concrete Arch, South of Carmel -----	1935	Sept.	13
Manteca, San Joaquin County Project Completed -----	1926	Feb.	8
Manzanita Station "Braided" Crossing Near San Rafael -----	1930	Dec.	5, 6, 7
Map			
District Changes -----	1933	Sept.	11
Divisions I to VII -----	1915	Jan.	24
Highway Map of 1924 (Back Cover)	1924	Dec.	Cover
Relief -----	1912	Oct.	Cover
Relief Sketch of State Highway and Railroad at Kennet Dam Site ----	1935	June	17
Road -----	1913	May	13
Showing Primary and Secondary Roads (Back Cover) -----	1928	Sept.-Oct.	Cover
Secondary State System -----	1931	April	5
Routes -----	1925	Dec.	6-7
Proposed -----	1913	May	Cover
Sign Routes, State -----	1934	Aug.	21
Also -----	1935	May	19
San Diego to Del Mar -----	1934	Jan.	6
State Highway System and Newly Created Division Boundary Lines --	1924	Jan.	16
State Highway System (Back Cover)	1924	July	Cover
Also -----	1933	Dec.	Cover
Principal Routes -----	1927	June	Cover
Surveys and Layouts -----	1914	July	20
Traffic Census, July, 1927 -----	1927	Aug.	8, 9
Margarita River, San Diego County Storm damage -----	1927	March	8
Maricopa-Ventura Highway, Views of --	1932	April	5
Mariposa Court House at Mariposa ---	1926	July	4
Mariposa-El Portal Highway to Yose- mite. Maintenance Operations.-----	1927	June	4
Marking the Highway -----	1924	March	Cover
Masonry Rubble Wall. Located on Mer- ced-Yosemite Highway Near Con- fluence of Bear Creek and Merced River (VI-Mer-18) -----	1927	April	14
McCallum, Duncan F. Junior Engineer, Division of Water Resources -----	1931	Oct.	23
McConnell Subway Lighting (X-S.J.-4)	1935	Feb.	31

	Year	Month	Page
McCoy, G. T.			
Assistant Highway Engineer-----	1931	Sept.	15
Principal Assistant Engineer-----	1933	Jan.-Feb.	10
Also -----	1935	Feb.	1
McDougall, George B.			
Chief, Division of Architecture-----	1927	Nov.	8
Also -----	1929	Oct.	14
State Architect -----	1932	May	20
McKesson, C. L. Material and Research Engineer, Division of Highways--	1928	April	11
McKeivitt, Hugh K. Attorney, Highway Commission -----	1931	Jan.	11
McKinley Park Picnic (Divisions III and X) -----	1924	Aug.	11
McLaren, Ralph, Supervisor San Fran- cisco -----	1925	Feb.	6
McLeod, J. C., Acting Division Engineer, Division X -----	1924	Feb.	15
McNeely, John W. Rodman, Division IV -----	1924	May	6
Mechanical Finisher at Work, Contra Costa County -----	1933	May-June	11
Mechanical Windrow Sizer-----	1935	April	31
Mecca-Blythe Highway Near Box Can- yon East of Mecca. Before and After -----	1926	July	7
Meek, B. B.			
Director, Department of Public Works	1927	Nov.	3
In Office -----	1930	Nov.	1
Taken on Bridge-----	1929	July-Aug.	3
With Views of Highway Projects----	1930	Dec.	Cover
Memorial Marker at Verdi, Nevada----	1928	July-Aug.	Cover
Men at Work (Sketch by Pratt)-----	1934	Oct.	Cover
Mendocino State Hospital Building (Sketch) -----	1928	Feb.-March	12
"Mephistopheles of the Mountains," Caples Creek Canyon -----	1932	July	17
Merriam, Governor Frank Finley-----	1934	June	3
Also -----	1934	Aug.	1
Also -----	1934	Oct.	19
At Microphone, Hopland Highway Dedication -----	1934	Aug.	7
Benbow-Garberville Dedication (Group)	1935	June	6
Promenades on Catwalks-----	1935	July	1
Rumsey-Clear Lake Highway Opening (Group) Governor Merriam and others -----	1934	Aug.	29
San Diego Exposition Invitation Ac- cepted -----	1935	June	15
Sepulveda Highway Dedication Scenes: (Group) Governor Merriam, Earl Lee Kelly, Frank Balfour, Justus F. Craemer and others-----	1935	Nov.	5
With E. J. Neron Under Umbrella at Dedication Tahoe-Ukiah Lateral --	1934	Nov.-Dec.	3

	Year	Month	Page
Metal Crib Walls, Installed on Big Oak Flats, Yosemite Road-----	1932	Dec.	33
Methods in Highway Building, New and Old -----	1930	Sept.	11
Meyers Canyon, Division VIII, After the Storm in -----	1927	Jan.	10
Middle Fork Yuba River, Downieville Lateral -----	1924	April	3
Miles, Roderick. Architectural Designer, Division of Architects -----	1931	June	22
Miles, Ruth -----	1926	Aug.	9
Miller, Harlan D. Bridge Engineer -----	1924	Dec.	14
In Memoriam -----	1926	Oct.	13
Milliken, Ben H. -----	1924	June	11
Million Dollar Bid Day (Group) F. W. Panhorst, J. D. Shaw, United States Bureau of Roads, E. J. Neron and Others -----	1935	Dec.	13
Mint Canyon Cloudburst Damages-----	1925	Aug.	15
Mixers in Operation, San Mateo County	1933	May-June	13
Mixon, Mrs. Runs the Shovel-----	1925	Sept.	15
Mixon, W. F. Secretary to California Highway Commission -----	1924	April	10
Modern El Camino Real-----	1930	May	6
Modernizing The Coast Highway, Between Arroyo Hondo and Gaviota--	1934	Sept.	11
Mojave Desert Highway, Showing Joshua Trees (VIII-S.Bd-31)-----	1933	March	Cover
Monte Rio Ground Breaking Ceremony (Group) Commissioner Reardon, Senator Slater, Morgan Keaton and Others -----	1934	May	21
Montecito Highway Project Completed, Santa Barbara County-----	1926	April	Cover
Moody, Fred S. Member, California Highway Commission -----	1927	Dec.	1
Morton, R. M., State Highway Engineer	1924	Jan.	4
Mossdale From The Air-----	1925	May	6
Mother Lode, Amador County, Along the	1932	Sept.	9, 23
Mother Lode Highway El Dorado County-----	1926	June	7
Mokelumne Hill, Calaveras County--	1929	Nov.	24
Mother Lode Improvements, Mokelumne River Bridge -----	1926	Nov.	10
Motor Vehicle Accident Statistics Chart	1931	Jan.	13
Mountain Bridge in District X-----	1925	July	12
Mountain Springs, San Diego County--	1927	Jan.	14
Mountain Springs Grade, Widening, Before and After -----	1924	June	3
Mount Shasta From Route 3, "The Pacific Highway" -----	1934	Feb.	Cover



	Year	Month	Page
Mount Tamalpais in Marin County.			
Removal of Slide Material-----	1935	April	23
Movable Mail Box Stand-----	1930	March	11
Murphy's Grade, Above Angels Camp--	1928	Jan.	Cover
Murray, Miss Myrtle V.			
Secretary to Director of Public Works	1931	Oct.	7
Temporary Director of Public Works--	1932	Oct.-Nov.	21

## N

Napa-Monticello Highway Opening Ceremony (Group) Senator Frank L. Gordon, Mrs. E. C. Crowley and Others -----	1934	July	19
Napa State Hospital -----	1935	July	9
Narrows, The, Painted Canyon, Near Mecca, Riverside County -----	1928	Sept.-Oct.	2
National Guard Camp-----	1929	Sept.	18-19
National Old Trails Highway Grading Near Oro Grande, San Bernardino County -----	1925	Aug.	7
Maintenance Work Between Barstow and Needles -----	1925	March	10
Oro Grande Between Victorville and Barstow -----	1925	July	13
Natural Rock Guard Rail, Kern River Canyon -----	1924	July	Cover
Navarro River, Mendocino County----	1928	Sept.-Oct.	1
Neron, Edward J. Deputy Director of Public Works -----	1934	Aug.	19
Also -----	1935	May	2
At Microphone, Redwood Highway Relocation Dedication -----	1935	Sept.	3
With Governor Merriam Under Umbrella at Tahoe-Ukiah Lateral Dedication -----	1934	Nov.-Dec.	3
Newcastle Tunnel (III-E.D.-17) (Sketch) -----	1932	Feb.	19
Construction View -----	1931	July	22, 23
Project (Sketch) -----	1930	Nov.	15
Views of Completed Construction----	1932	May	19
Newport Beach. Effects of High Seas--	1926	March	13
Newport-Corona Del Mar Unit, Orange County -----	1927	March	4
Nobel, Joe. California Highway Patrolman -----	1931	June	34
Nojoqui Grade Completed; Scenes on Old Route -----	1935	Nov.	13
Nojoqui Grade Realignment Through Gaviota Pass, Santa Barbara County -----	1935	April	11
Nonam, Helen. Prize Winner, "Stop Forest Fires" Contest -----	1931	July	5

	Year	Month	Page
North Los Angeles Street, Anaheim; Official Opening (Group) Governor Rolph, Phil Stanton, Mayor of Ana- heim C. H. Mann and Others.....	1934	March	21
Novato Slide, Marin County.....	1924	March	Cover

## O

Oceanside Highway, In San Diego County, Old and New .....	1926	Oct.	Cover
Official Car Belonging to Phil Stanton, Member California Highway Com- mission, Wrecked .....	1932	Aug.	19
Oil Fire on Trestle Near San Luis Obispo .....	1928	Jan.	22
Oiled Roads			
El Dorado County.....	1927	Dec.	13
Orange County .....	1927	Dec.	28
Redding-Alturas Lateral .....	1931	Aug.	21
Pacheco Pass, Santa Clara County..	1927	Dec.	13
Oiling Operations On Pacheco Pass Lateral .....	1926	Sept.	13
Oiling State Roads.....	1927	July	5
Old Bridges For New.....	1935	Jan.	3
Old Plank Road			
Goes to Chicago Worlds Fair.....	1934	Sept.	21
Imperial Valley .....	1934	Sept.	21
New Highway, Imperial County Re- placing .....	1930	June	10
Replaced by Modern Paved Highway	1934	Sept.	21
Old Folsom Bridge .....	1932	March	43
Old Trail Between Sacramento and Vallejo .....	1933	March	19
"One-Man" Finishing Float .....	1933	May-June	22
"One-Man" Shovel on Skyline Boulevard, San Mateo County .....	1925	Nov.	12
"One-Man" Tree Watering Outfit			
Division III .....	1925	July	9
Division VI .....	1926	Sept.	11
Ontario to Riverside, Riverside County Reconstruction of Highway.....	1926	July	6
Opening Bids in Southern California (Group) Earl Lee Kelly, S. V. Cor- telyou, C. C. Carleton, R. H. Wilson and Others .....	1934	June	20-21
Opening Highway Bids in Sacramento (Groups) Earl Lee Kelly, Eric Cul- ward, George T. McCoy, and Others .....	1933	Oct.-Nov.	30-31
Opening of Maricopa-Ventura Highway New Waterman Canyon Highway (Group) Commissioner Tetley, Su- pervisors A. L. Doran, John Andre- son, Jr., and Others .....	1933	Oct.-Nov.	7 11

	Year	Month	Page
Orange County Coast Highway-----	1927	Jan.	5
Orange County Culvert Rebuilt-----	1931	Dec.	25
Orange Shrine, An -----	1933	Jan.-Feb.	21
Oregon Mountain, Hydraulic Giants at Work -----	1935	May	9
Ortega Hill, Santa Barbara County ----	1926	July	12
Conquered by Shovels (V-S.B.-2) --	1926	Feb.	Cover
Outdoor Advertising Act			
Attaching License Plate -----	1934	Feb.	13
Permits -----	1933	July-Aug.	6
Violations -----	1934	Feb.	13
Outdoor Christmas Tree at Selma-----	1930	Nov.	16
Oxnard Paving Contract. Experimental Sections -----	1927	March	10
Oxnard-San Juan Capistrano Highway North of Santa Monica, Los Angeles County. Construction Work Near Completion -----	1924	Dec.	9

## P

Pacheco Pass			
Bridges in Santa Clara County-----	1924	Oct.	5
Curves Reduced -----	1934	April	7
Lateral, Along Pacheco Creek-----	1925	April	13
Santa Clara County, Straightening Out Curves -----	1925	April	3
Pacific Highway			
Arch Across Charley Creek, Northern Shasta County -----	1926	July	Cover
Crib Type Wall Developed-----	1926	Feb.	12
Klamath River, Siskiyou County (Back Cover) -----	1927	Dec.	Cover
North of Redding, Shasta County-----	1925	Feb.	Cover
Reconstruction Work North of Redding	1926	March	4
Relocation Views -----	1927	March	7
Page, Marshall A. Chief Clerk, Divi- sion of Motor Vehicles-----	1931	June	18
Palisades, Santa Monica, Los Angeles County -----	1928	Sept.-Oct.	3
Palm Canyon, San Jacinto Mountains, Riverside County -----	1928	Sept.-Oct.	4
Panhorst, F. W.			
Acting Bridge Engineer -----	1934	Jan.	12
Construction Engineer, Bridges, Northern Section -----	1928	Nov.-Dec.	4
"Panorama Point" Loop -----	1929	Nov.	11
Parr, R. J. California Highway Patrol- man -----	1931	June	34
Patch, W. W., Resigns -----	1924	Jan.	11
Patterson, Governor, of Oregon (Group)	1929	July-Aug.	2, 3
Patrolmen Save Lives in Deer Canyon, Ventura County -----	1931	June	35
Patton, Cottage at -----	1927	Nov.	9

	Year	Month	Page
Patton Hospital Chilling Room-----	1931	July	31
Pavement Markers. New Type-----	1924	Sept.	11
Peninsula Highway, San Mateo County (IV-S.M.-55) -----	1924	Jan.	9
Also -----	1927	Sept.-Oct.	Cover
Also -----	1927	Dec.	Cover
Between Cypress Lawn Cemetery and San Bruno, Before and After Construction -----	1926	May	6
Between Hillsborough and San Mateo, Widened -----	1926	Nov.	11
Through Atherton, San Mateo County	1925	Feb.	9
Traffic Jam -----	1925	Dec.	4
Permanent Maintenance Stations			
Divisions IV and VI-----	1925	Sept.	12
El Rio, Ventura County-----	1926	March	13
Fresno County -----	1924	March	9
Los Angeles -----	1924	March	9
Red Bluff Major Station-----	1925	April	15
San Joaquin Valley -----	1924	March	9
Pierce, R. E.			
District Engineer, District X, Sacra- mento -----	1933	March	18
Division Engineer, Division X, Newly Appointed -----	1926	March	11
Pierson, C., Specification Writer, Divi- sion of Architecture -----	1929	Dec.	10
Pioneer Tree—Outdoor Christmas Tree Association -----	1931	Nov.	43
Piru Bridge Piers, Ridge Route Alter- nate -----	1934	March	25
Piru Creek Channel Change, Ridge Route Alternate -----	1933	Jan.-Feb.	5
Pismo Beach Overhead, San Luis Obispo County (Inside Cover) -----	1928	Jan.	Cover
Pismo Improvement Completed -----	1926	Aug.	14
Pit River Bridge, Near Baird, Shasta County -----	1916	July	4
Site, Shasta County, Highway Survey	1913	May	4
Placer County Paving Job-----	1932	Feb.	11
Placerville-Tahoe Route, El Dorado County -----	1932	July	19
Beauty Preserved -----	1926	Feb.	13
Placing Asphalt Concrete Base Course On Contract, Sacramento County--	1934	Sept.	25
Placing Select Material Over Oiled Sub- grade, Los Angeles County-----	1934	Sept.	24
Planning False Work on Big Dann Creek -----	1932	Oct.-Nov.	19
Plant Quarantine Inspection Station Plans (Sketch) -----	1930	Feb.	9
Plaque Commemorating Discovery of Gold on Deer Creek, Shasta County	1932	Sept.	39
Plugging Small Holes in Highway-----	1931	June	29
Poage, P. T. Assistant Architect, Divi- sion of Architecture-----	1927	Dec.	4

	Year	Month	Page
Point Lobos, Carmel-San Simeon Highway -----	1933	Jan.-Feb.	13
Windblown Cypress -----	1928	Sept.-Oct.	2
Point Loma Highway Dedication, San Diego County (Group) Earl Lee Kelly, Congressman Burnham, Supervisors Hastings, Hurley, Col. George Ruhlén U. S. A. and Others	1934	Aug.	11
Point Mugu, Ventura County (VII-Ven.-60) -----	1934	July	Cover
Twelve Miles South of Oxnard, Ventura County, Before and After--	1924	Oct.	Cover
Pope, C. S. Construction Engineer----	1928	Feb.-March	16
Also -----	1934	March	6
Portland Cement Concrete Charts-----	1926	Dec.	10
Power Drill Rig-----	1932	June	17
Pratt, M. B. State Forester-----	1930	Nov.	11
Also -----	1931	June	1
Prehistoric Record Found on Ridge Route Alternate, Los Angeles County -----	1932	Jan.	39
Preserving Roadside Trees-----	1928	Sept.-Oct.	7
In Conjunction With Utilities-----	1934	Oct.	10-11
Prison Road Camps-----	1924	June	6
Briceburg Camp on Merced River, Yosemite Lateral -----	1924	June	Cover
Greenhorn Camp, Western Shasta County, Trinity Lateral-----	1924	June	Cover
Kern River Canyon-----	1924	June	11
Recreational Activities -----	1924	June	10
Requa Camp on the Redwood Highway, Del Norte County-----	1924	June	Cover
South Fork Yosemite Lateral-----	1926	July	4
Tahoe-Ukiah Unit in Lake County--	1926	Dec.	4
Pro Bono Publico State Park, San Luis Obispo County -----	1933	Jan.-Feb.	13
Proposed New Bridge Site Across Pitt River -----	1935	June	17
Proposed Subways at Serra, Orange County (Sketch) -----	1927	Jan.	13
Protecting Highways -----	1930	July-Aug.	5, 6, 7
Protecting the Highways from Floods Along Salinas and Santa Ynez Rivers -----	1925	Feb.	10
Prunedale Cut-Off, to San Juan Bautista, Beautification Plan on -----	1935	Sept.	17
Puncture Vine -----	1925	Sept.	6
Spraying Outfit -----	1926	July	10
Purcell, C. H., State Highway Engineer	1928	Feb.-March	14
Also -----	1931	Oct.	5
Also -----	1935	March	6
Also (Shown With Sodium Vapor Lamp) -----	1935	June	28
Puzzle Photo -----	1935	Oct.	30
Pyramid Rock in Piru Gorge on Ridge Route -----	1933	Dec.	Cover

R			
	Year	Month	Page
Railroad Crossing Signs			
Illuminated (District X) -----	1928	April	19
New -----	1929	March-April	15
Railroad Crossing Warning (Division VI) -----	1926	Dec.	14
Ramona "Airline" Highway Between Monterey Park and Los Angeles---	1935	Feb.	7
Ramona Boulevard Unit of Los Angeles-Pomona "Airline" Arterial (VII-L.A.-26) -----	1935	June	13
Rattlesnake Creek, Mendocino County, State Highway Surveyors Moving Camp -----	1913	May	5
Ravages of a Tractor-----	1934	Nov.-Dec.	15
Reading, Eleanor Lee -----	1928	Sept.-Oct.	13
Reading, Major P. B. Pioneer-----	1928	Sept.-Oct.	13
Reardon, Timothy A. Member of the California Highway Commission --	1931	Jan.	6
Red Bluff-Susanville Lateral Kept Open by Maintenance Crews -----	1932	Jan.	3
Redding. New Highway Division Headquarters -----	1925	June	8
Redding-Alturas Lateral Scenes-----	1934	Jan.	17
Redington, Paul. District Forester United States Forest Service-----	1924	Sept.	3
Redwoods in Redwood Highways from Ridgewood Summit to Willits-----	1931	May	16
Reed, Robert E. General Right of Way Agent -----	1935	Sept.	14
Reeds Creek Bridge, Tehama County---	1927	Jan.	12
Reconstruction of Coast Highway, San Diego County -----	1926	Oct.	4
Recording Device, Automatic -----	1928	Feb.-March	9
Red Rock Canyon			
Dedication Ceremonies February 22, 1931 -----	1931	March	10
Relocation of Highway -----	1931	Jan.	16
Views in San Bernardino County---	1931	March	11
Redlands and Beaumont Highway Open	1925	Aug.	6
Redwood Highway			
Benbow - Garberville Highway Reconstructed -----	1935	June	7
Big Lagoon Trestle -----	1926	Sept.	8
Curves, Near Pepperwood, Humboldt County -----	1931	Aug.	20
Equipment in Use-----	1925	Aug.	13
Excavation Work North of Orick, Humboldt County -----	1927	July	8
Guard Rails -----	1925	May	8
Hydraulicking Slide Removal on Highway Near Garberville -----	1927	March	14
Keeping Traffic Moving-----	1924	Nov.	6

	Year	Month	Page
Redwood Highway—Continued.			
Mail Boxes Rearranged on Rural Routes (District IV) -----	1927	April	15
Maintenance Work in Del Norte County -----	1926	July	12
Near Healdsburg, Sonoma County, Showing Old and New Sections_	1926	March	3
Near Prairie Creek (I-Hum.-1) ----	1935	Oct.	Cover
New Section Joins Eureka and Arcata	1925	May	4
North of Garberville (I-Hum.-1) ----	1935	June	Cover
Oiling the Highway -----	1926	Aug.	3
Reconstruction Work Completed Between Leggett Valley and Rock Creek, Mendocino County -----	1926	Oct.	8
"Second Story" Work in Sonoma County -----	1925	Nov.	5
Section of Oiled Highway -----	1926	Dec.	5
Slides in Del Norte County -----	1925	March	6
Slides Near Garberville -----	1926	March	12
Smith River Canyon in Del Norte County -----	1926	May	Cover
View of Recently Completed Section Between Trinidad and Orick ----	1925	Sept.	Cover
Widening -----	1924	Aug.	7
Widening Work; Test of Trucks ----	1925	April	5
Redwood Park, Del Norte County ----	1930	April	3
Redwood Plaque Presented to City of Napa (Group) Earl Lee Kelly, Harry Lutgens, and Others Participating -----	1932	May	35
"Redwoods" -----	1928	Sept.-Oct.	Cover
On South Fork of Eel River -----	1931	July	25
Repositioning Device Invented -----	1933	Sept.	27
"Rich" Camp, for Unemployed -----	1931	Dec.	11
"Rich" Highway Camp for Single Unemployed Itinerants -----	1932	March	13
Richardson, Governor Friend W. ----	1924	Jan.	6
Ridge Route Alternate -----	1931	June	9
Also -----	1932	July	5
Also -----	1934	Sept.	7
Between Los Angeles and San Joaquin Valley -----	1935	Jan.	13
Bridge Piers and Fills -----	1933	March	5, 17
Paving Tests -----	1934	March	7
Ridge Route, Eliminating Curves on the Ridge Route Unit, Relocation of "Grapevine" Curves on (Sketches and Cuts)	1925	March	9
"Rim O' The World," San Bernardino County -----	1932	Jan.	25
Partly Completed -----	1931	Aug.	15
San Bernardino Mountains -----	1927	May	7
Snow Blocks Road -----	1926	March	14
Rincon Route, Ventura County -----	1912	Oct.	4
Causeway -----	1915	Jan.	16
Causeway Trestle -----	1914	July	7
Forty-foot Wave -----	1927	Feb.	15
High Seas Over Highway -----	1926	Nov.	Cover
Seawalls -----	1927	March	Cover
Also -----			

	Year	Month	Page
"Rip Rap" Placed North of Santa Monica, Los Angeles County (Division VII) -----	1926	Oct.	11
Riverside, West Entrance-----	1935	June	9
Road Beautification Progress -----	1935	Dec.	15
"Road Hog." Cartoon by E. Muse----	1931	July	Cover
Road Map. See Maps			
Road Signs, New -----	1924	June	12
Roadside			
Beauty -----	1932	Sept.	3
Development -----	1932	Oct.-Nov.	35
Watering Place Near Sonora, Tuolumne County -----	1925	Nov.	11
Rock Crushing Plant, Mono County (Division IX) -----	1924	July	7
Rock Excavations, Lake Tahoe Road, El Dorado County -----	1930	June	16
Rock Slide, Ventura County (VII-Ven-138) -----	1935	July	30
Rock Tests. Charts -----	1926	April	7, 8, 9
Rocky Creek Bridge on Monterey Coast	1933	March	31
Rockingham, W. H. Engineer, Division of Architecture -----	1929	Sept.	18
Rolph, Jr., Governor James-----	1932	June	1
Also -----	1934	Jan.	1
Fiscal Advisory Committee Reports--	1932	Oct.-Nov.	7
In Memoriam -----	1934	June	2
Signs Edwards-Kline Bills. Governor Rolph, Judge J. O. Monceur of Plumas County and Senator A. H. Breed of Alameda County (Group) -----	1931	April	3
Signs Central Valley Water Project, Assembly Bill 239 -----	1933	Sept.	13
Sketch of -----	1931	Jan.	Cover
U. S. Senate Committee Welcomed by, With James I. Herz -----	1932	Sept.	5
	1931	Feb.	1
Rolph, Jr., James. Mayor, San Francisco Bayshore Highway Ground Breaking Ceremonies -----	1925	Feb.	6
"Roughograph" -----	1934	June	25
Roussel, Julien D. Secretary California Highway Commission (Vice John W. Howe) -----	1935	Feb.	8
Route Sign, New -----	1934	Aug.	20
Rubicon Point, Lake Tahoe-----	1928	Sept.-Oct.	3
Rumsey-Clear Lake Highway Opening (Group) Governor Merriam and Others -----	1934	Aug.	29
Running the Lines			
Along the Ventura Coast-----	1924	March	15
Kern River Canyon-----	1924	March	15
Russian River Relocation Between Cloverdale and Hopland -----	1934	March	9



## S

	Year	Month	Page
Sacked Concrete Riprap Embankment, Ukiah-Tahoe State Highway-----	1930	April	4
Sacramento			
Aerial View of -----	1927	Aug.	Cover
County Concrete Pavement -----	1925	May	5
Headquarters Shop and Equipment Depot -----	1924	May	8-9
Sacramento River			
At Sacramento -----	1928	Feb.-March	Cover
Canyon, Views of Roads to Date-- Looking Toward Site of Kennet Dam -----	1929	Dec.	9
Views of Irrigation Districts in Sutter Basin -----	1934	Jan.	Cover
Weir -----	1928	Feb.-March	8
Weir and Yolo By-Pass-----	1932	March	11
	1935	May	15
Safety in Modern Highway Building			
Near Herndon, Fresno County, Air- plane View -----	1927	April	Cover
Saint Francis Dam Disaster-----	1928	April	4, 7
Saint Helena Highway-----	1924	July	5
Saint Helena Summit Road, Napa County -----	1924	March	Cover
Salmon Mountain Snow Tunnel, Siski- you County -----	1932	Sept.	35
Salton Sea, Imperial County			
Highway Construction -----	1934	April	5, 19
Storm Undermines Pavement-----	1926	Oct.	12
Sampling Highways -----	1932	May	13
San Bernardino County			
New Division Buildings and Shops--	1927	Feb.	8, 9
New Highway Division Headquarters	1927	May	11
San Diego			
Coast, Elimination of Curves -----	1925	Jan.	8
Exposition Invitation Accepted by Governor Merriam -----	1935	June	15
New Highway Office (Sketch)-----	1935	June	19
North Approach Dedicated (Group) Earl Lee Kelly, Phil Stanton, Rear Admiral William T. Terrant, U. S. N., Mayor John F. Forward and Others -----	1934	Jan.	7
San Diego to El Centro Highway			
Destroyed; Rebuilt -----	1928	May-June	18
Pine and Laguna Summit Road Straightened -----	1926	Feb.	9
San Diego Teachers College. Main Entrance -----			
	1929	Oct.	Cover
San Fernando Pass -----	1929	July-Aug.	11, 12
San Francisco-Oakland Bay Bridge			
Aerial View of Construction Work on East Bay Bridge and Toll Houses (Sketch) -----	1935	May	13

	Year	Month	Page
San Francisco-Oakland Bay Bridge— Continued.			
Bid Opening by Governor Rolph, C. H. Purcell and Earl Lee Kelly -----	1933	March	8, 9
Big Bells to Warn Mariners-----	1935	Oct.	29
Bills Signed by Governor James Rolph, Jr. Congressman Welsh; Mayor Rossi, San Francisco; Earl Lee Kelly, Chairman; California Highway Commission, and Others (Group) -----	1931	June	3
Borings for Foundation; Drill Cage to Protect Boring Equipment-----	1933	May-June	29
Bridge and Tunnel Entrance (Sketch)-----	1933	July-Aug.	Cover
Cable "Squeezer" -----	1935	Oct.	9
Catwalk -----	1935	June	25
Catwalks Lighted Up for Cable Spin- ning -----	1935	Aug.	Cover
Caisson and Pier 2-----	1933	Dec.	15
Center Anchorage (Sketch)-----	1932	Feb.	23
Makes "Pinhole" Camera -----	1935	Aug.	9
"Distribution Structure"—As Planned for Oakland Approach System (Sketch) -----	1935	March	16-17
East Channel (Sketch)-----	1932	July	11
Final Plan Design -----	1932	April	22-23
First Cable -----	1935	April	13
Fiscal Advisory Committee Reports (Group) -----	1932	Oct.-Nov.	7
Governor Merriam Promenades on Catwalk -----	1935	July	1
Ground Breaking Ceremonies (Group) Governor James Rolph, Jr., turn- ing the First Shovel of Earth; Ex President Hoover, Earl Lee Kelly, Governor Balzar of Nevada and Others -----	1933	July-Aug.	3
Inspection of Cable Spinning by Gov- ernor Merriam and Official Party	1935	July	3
Latest Thing in Caissons (Model)---	1933	Oct.-Nov.	14
Launching of a Caisson-----	1933	July-Aug.	13
Low Bidders on Construction Work for Bridge (Group) H. J. Brun- nier, Earl Lee Kelly, C. C. Carle- ton and Others -----	1933	May-June	5
Model -----	1931	Nov.	24-25
Pier Caisson -----	1933	Oct.-Nov.	15
Pier W-6 -----	1934	June	27
Piers and Caissons -----	1934	Jan.	5
Preview of East Bay from Tunnel to Pier E-2 (Sketch) -----	1935	Jan.	21
Providing Rail Transportation; Gov- ernor Frank F. Merriam Signing Bill -----	1935	June	11
San Francisco Terminal (Sketch)---	1934	April	16-17
Sodium Vapor Lights To Be Used on	1935	June	28
Span of (Sketch)-----	1933	April	Cover
Speaking by Radio Telephone-----	1933	Oct.-Nov.	29

	Year	Month	Page
San Francisco-Oakland Bay Bridge—			
Continued.			
“Stepping Stones” on East Bay Side			
to Yerba Buena Island -----	1935	Feb.	13
Spinning Wheel -----	1935	July	2
Tower No. 2 -----	1934	March	15
Tower W-2 -----	1934	July	25
Tower No. 3 -----	1932	June	7
Tunnel Bore -----	1935	Dec.	27
Work on Yerba Buena Tunnel -----	1934	Feb.	31
Wrist Work on			
Director Earl Lee Kelly Signing			
Bonds -----	1933	Dec.	25
Yerba Buena Tunnel -----	1934	Aug.	17
Yerba Buena Tunnel Scenes (One			
Sketch) -----	1935	Sept.	21
San Francisco-Oakland Bay Bridge			
Foundation Scouts, Operations of -	1933	May-June	29
San Gabriel River in Flood -----	1927	Dec.	6
San Joaquin County Paving Job -----	1932	Feb.	11
San Jose Teachers College Gymnasium			
(Sketches) -----	1931	June	23
San Juan and Opposing Riverside-			
Watsonville Routes (Map) -----	1913	May	9
San Juan Grade, San Benito County ---	1931	Dec.	23
Alignment, Near Salinas -----	1931	Oct.	15
San Marco Pass, “Hairpin” Curves on,			
To Be Eliminated -----	1935	Feb.	15
San Marco Pass Construction Scenes.			
Between Santa Barbara and Santa			
Ynez -----	1935	Feb.	5
San Mateo County, Road View -----	1927	Nov.	Frontis
San Mateo County Highway in 1912, and			
at Present Time -----	1932	Jan.	15
San Mateo Creek-San Onofre Line			
Changes Completed, San Diego			
County -----	1926	May	10, 11
San Pablo Avenue, Alameda County ---	1934	Feb.	25
San Pablo Creek, Martinez to Oakland --	1926	Nov.	15
San Quentin Prison			
Front View, Womens Prison -----	1928	Jan.	6
Interior View of Cell in Womens			
Prison -----	1928	Jan.	7
Jackson, Miss Josephine. Superin-			
tendent of Womens Prison -----	1928	Jan.	7
New Cell Block at, and Tearing			
Down Old -----	1932	Sept.	21
San Simeon-Carmel Highway. Building			
a Hill by Blast on -----	1935	Aug.	29
Bixby Bridge -----	1932	Oct.-Nov.	13
Malpaso Creek Concrete Arch -----	1935	Sept.	13
Sand Hills Paving Project, Imperial			
County -----	1926	Aug.	Cover, 4
Sansome, John. Secretary-Treasurer,			
California Association Highway			
Patrolmen -----	1930	Oct.	20

	Year	Month	Page
Santa Ana Canyon Relocation of Highway Celebrated -----	1935	Aug.	27
Santa Ana River Bank Protection Work	1928	May-June	10
Santa Barbara			
Has New 3-Lane Highway-----	1934	Nov.-Dec.	7
Ocean Boulevard (V-S.B.-150)-----	1934	April	Cover
Through Traffic Boulevard (V-S.B.-2)	1935	May	Cover
Santa Barbara County Routes via Zaca Canyon (Map) -----	1913	May	10
Santa Barbara State College. Entrance to Science Group (Sketch)-----	1930	March	Cover
Santa Barbara Teachers College-----	1930	Oct.	4, 5, 6
Santa Clara County Blossoms-----	1929	March-April	Cover
Santa Cruz-Los Gatos Fill and Slide---	1935	Oct.	21
Santa Maria Trestle, Interesting Bridge Project (V-S.L.O.-2) -----	1927	March	12
Santa Monica			
Acquires New Beach Built by State Highway Engineers -----	1934	May	13
Beach Area, Road Under Construction	1935	Sept.	11
Coast Highway, Extension and Widening Operations -----	1935	June	5
New Boulevard Opened (Group) Earl Lee Kelly, Perry Henshey and Santa Monica Bathing Girls	1924	Aug.	12
Oxnard Highway Opened to Traffic (Group) Governor Young and Others -----	1929	July-Aug.	6
Highway Scenes -----	1929	July-Aug.	7
Repairs from Maintenance Funds----	1926	March	10
Tunnel Construction -----	1935	Nov.	3
Tunnel in Construction (Sketch) ---	1935	July	7
Santa Susana Pass, Los Angeles County	1927	Nov.	21
Sausalito Bottleneck, Marin County----	1934	April	3
Abolishing (Sketch) -----	1933	March	3
Also -----	1934	April	2
Schenck, Joseph M. Member California Highway Commission -----	1928	May-June	1
School Buildings in Long Beach, After Earthquake -----	1933	April	9
Scouting in the High Sierras-----	1934	April	26, 27
Seawall			
North of Ventura (VII-Ven-2)-----	1934	Sept.	5
Rincon Route, Ventura County-----	1915	Jan.	7
Ventura Coast -----	1926	March	8
"Second Story" Cement Concrete Pavement Near Oceanside, San Diego County -----	1927	Jan.	12
Concrete, Ventura County-----	1925	Nov.	5
Concrete Pavement Completed Near Redlands, San Bernardino County	1926	Nov.	13

	Year	Month	Page
Sepulveda Highway Dedication Scenes (Group) Governor Merriam, Earl Lee Kelly, Frank Balfour, Justus F. Craemer and Others-----	1935	Nov.	5
Sketch, Courtesy Los Angeles Exam- iner -----	1935	Nov.	18
Sequoia National Park Straightening Approaches -----	1925	Oct.	6
Sequoia Park Lateral -----	1924	March	12
Seymour, Fred R. Supervisor Prison Road Camps -----	1931	July	43
Shade Trees for Highways-----	1927	May	5
Shasta Glacier Flood Water Damage to Highway (II-Sha.-72) -----	1935	Sept.	27, 29
Sherman Hill and Mammoth Lakes, Inyo County. Breaking Trail Through Snow -----	1927	March	14
Shovel Buried by Slide Near Point Mugu, Ventura County-----	1927	Jan.	15
Shovels Move Slides on Ridge Route---	1927	April	14
Sidewalk on Rio Hondo Bridge, Los Angeles County -----	1925	July	8
Sierra-to-the-Sea Highway (VI-Mad.-10) Changing Curves -----	1927	April	14
Signing Breed Bill (Group) Governor James Rolph, Jr., Earl Lee Kelly, Senator Breed and Others-----	1933	July-Aug.	11
Signing Bay-Bridge Bills. Delegation on Capitol Steps -----	1931	June	3
Signing of the Three San Francisco- Oakland Bay Bridge Bills. Govern- or James Rolph, Jr., Richard J. Welch, Congressman, Mayor Rossi, San Francisco, Earl Lee Kelly, Chairman Highway Commission, and Others (Group)-----	1931	June	3
Signs on State Lines, California and Nevada, Truckee River Highway--	1926	June	11
"Sink" Near Maricopa Oil Fields, Kern County -----	1930	Sept.	11
Six Legged Tetrahedron. Used for High- way Protection in Ventura County	1928	Feb.-March	3
Skeggs, Col. John H. Division Engineer, Division IV -----	1924	March	14
Also -----	1933	March	2
Skeggs, Mrs. John H. Wife of Colonel John H. Skeggs, District IV-----	1931	Sept.	41
"Skier, The"-----	1929	Nov.	Cover
Skyline Boulevard, San Mateo County_	1925	Dec.	Cover
Elimination of Curves -----	1925	July	5
Views -----	1925	Dec.	8
Slide on Crest Route, San Bernardino Mountains -----	1926	May	13

	Year	Month	Page
Sloat Boulevard, San Francisco County	1935	Oct.	15
Improvement on -----	1935	Jan.	7
Slope Protection -----	1934	July	7
Smith, Jedediah, Monument-----	1928	May-June	15
Smith, Lowell R. Purchasing Agent, California Highway Commission--	1924	Dec.	8
Smith River Forest Project, Del Norte County -----	1925	Jan.	11
Smith, W. A. Assistant Maintenance Engineer -----	1928	July-Aug.	9
"Snake" Curves, Redwood Highway, Mendocino County -----	1932	Sept.	13
Snook, F. G. Chief, Division of Motor Vehicles -----	1929	Sept.	4
<b>Snow</b>			
Clearing the Highways of-----	1931	May	12, 13, 14
Conditions on Ridge Route-----	1930	Feb.	4
Conditions on State Highways Fredonia Pass, Susanville Lateral, Lassen County -----	1925	March	4
Conquering on our Mountain Roads--	1932	Jan.	Cover
Graders on Victory Highway-----	1930	Feb.	4
<b>Plow</b>			
At Work -----	1928	Jan.	24
Calaveras County Highways-----	1930	Feb.	4
Donner Summit -----	1929	Jan.-Feb.	19
Exhibited at State Fair-----	1933	Sept.	9
In Action near Mount Shasta City, Siskiyou County -----	1927	Feb.	Cover
Problems, High Sierra Region-----	1933	Jan.-Feb.	7
<b>Removal</b>			
Equipment -----	1935	Dec.	5
Echo Summit, Placerville to Lake Tahoe Highway -----	1926	May	3
Fredonia Summit Between West- wood and Susanville, Lassen County -----	1927	Feb.	5
<b>Scenes</b>			
Deadman Summit, Inyo and Mono Counties (IX-Iny-23) -----	1927	May	9
Highway in High Sierras, Truckee Route -----	1927	April	9
Mono Basin, Mono County-----	1932	June	29
Surveyor at Work-----	1929	Nov.	1, 2
Surveyors in Kings River Canyon--	1932	March	38, 39
Snow-Fighting Crews and Equipment on Tahoe-Ukiah Highway-----	1935	Feb.	3
Snow-Fighting Equipment Used on Highways -----	1933	Dec.	5
Snow Fighting Scenes-----	1934	April	21
Snowslide Tragedy in Lake Tahoe Region	1935	May	30
Solano County, Banked Curves Through	1925	Nov.	15
"Some Ride" -----	1932	Feb.	39
Somner, F. G. Division Engineer-----	1924	March	14
Also -----	1931	March	9

	Year	Month	Page
Sonora Pass Highway, Tuolumne County	1926	Oct.	15
South San Francisco Underpass			
Views of Construction and Completion	1927	Sept.-Oct.	11
Widening Construction Operations---	1935	May	21
Southern California Dams			
Arroyo Seco Near Pasadena, Los Angeles County -----	1932	Aug.	11
Big Bear Dam, San Bernardino County -----	1932	Aug.	11
Big Tujunga Dam Above San Fernando, Los Angeles County-----	1932	Aug.	11
Gibraltar Dam on Santa Ynez River Near Santa Barbara-----	1932	Aug.	11
Juncal Dam, Santa Barbara County	1932	Aug.	11
San Gabriel Dam Ground Breaking, Los Angeles County-----	1932	Aug.	11
Spanish Creek, Near Keddie, Plumas County -----	1931	Aug.	Cover
Spreading Rock on Yosemite Lateral--	1926	Aug.	12
Spring Housecleaning by Highway Maintenance Department -----	1932	Feb.	7
Spring in Capitol Park-----	1935	March	Cover
Sodium-Vapor Lamp for Use on Bay Bridge -----	1935	June	28
Stafford, Harlowe M. Supervisor, Sacramento-San Joaquin Rivers, Division of Water Rights -----	1928	Feb.-March	7
Stalnaker, R. H. Equipment Engineer	1924	May	3
“Stand by for Orders”			
Chief Cato and James Roche-----	1931	July	7
Stanislaus County Projects-----	1926	Dec.	6
Stanton, Philip A. Member, California Highway Commission -----	1931	Jan.	7
Stanton, T. E.			
Assistant State Highway Engineer--	1924	Feb.	9
Materials and Research Engineer----	1932	Dec.	4
State. <i>See</i> California State			
State Highways. <i>See</i> California State Highways			
State Street Project Between Redondo and Long Beach, Los Angeles County (Sketch) -----	1935	July	13, 14
Stelvio Pass, an Alpine Highway in---	1927	Dec.	2
Stern, C. F. Member California Highway Commission -----	1914	July	11
Stockton-Oakland Highway Near Tracy, Building Shoulders on -----	1925	July	10
Stone Finish Bridge, Merced Canyon Entrance to Yosemite Valley (X-Mpa-18G) -----	1926	Nov.	15
Storing Contraband Signs-----	1934	Nov.-Dec.	11

	Year	Month	Page
Storm King Greets Road Dedicators of Tahoe-Ukiah Lateral. Governor Merriam, E. J. Neron and Others--	1934	Nov.-Dec.	3
Storm Slides and Mud, San Gabriel Canyon (VII-L.A.-62) -----	1935	July	30
Storms in Riverside County Damage Highways -----	1927	Jan.	10
Stover, A. H. Designing Engineer of Bridges -----	1930	June	3
Stream Gage on Hat Creek, Shasta County -----	1928	Feb.-March	10
Sullivan, E. Q. Division Engineer, Divi- sion VIII -----	1924	Jan.	15
Super Earth Mover -----	1927	Feb.	10
Surface Failure (II-Sis-83) -----	1935	July	25
Surveying a Bridge Site on Feather River Lateral -----	1930	Oct.	Cover, 1
Surveying for Highway in Kings River Canyon -----	1928	Feb.-March	19
Surveying Problems in Feather River Canyon -----	1931	March	32
Susanville Lateral Near Mineral, Tehama County -----	1924	Oct.	10
Sutter Basin Link Opened and Dedicated. Governor Rolph Cutting the Ribbon	1931	Nov.	17

## T

Tables of Sight Distances-----	1926	Nov.	6, 7, 8
Tahoe National Forest Highway, Be- tween Truckee and Lake Tahoe----	1927	Jan.	9
Tahoe-Ukiah Highway, East of Nevada City -----	1930	Oct.	3
Tahoe-Ukiah Lateral, Snow Plow Clearing -----	1935	Feb.	Cover
Tahoe-Ukiah Route, West of Williams, Colusa County -----	1926	March	9
Tehachapi Creek Overflows -----	1932	Oct.-Nov.	5
Tehachapi Prison for Women-----	1932	May	29
Tejon-Castaic Route, State Highway Survey. Typical Views -----	1913	May	8, 9
Telephone Cables			
Moving from San Francisco Bay-----	1931	Sept.	13
Moving in San Francisco Bay-----	1931	July	13
Testing and Research Laboratory, Sacra- mento -----	1934	Feb.	27
Also -----	1934	Oct.	15
Testing Highway Construction-----	1932	Dec.	5, 24
Testing Highway Surfaces-----	1930	June	2
Testing Laboratory in Sacramento-----	1929	Dec.	19



	Year	Month	Page
Testing Traffic Lines.....	1931	Dec.	9
Tetley, Frank A. Member of the California Highway Commission .....	1931	Jan.	7
Also .....	1931	April	1
Thomas, I. A. Maintenance Superintendent, District VIII, Division of Highways .....	1932	Jan.	38
Through Palms to Peaks, Riverside City, Victoria Avenue .....	1932	Sept.	Cover
Pines on Red Bluff-Susanville Lateral Redwood Forests, Redwood Highway, Del Norte County .....	1925	Oct.	Cover
Redwoods, Humboldt County; Redway Bluffs (I-Hum-1) .....	1934	March	5
Timber Toedam on Sacramento River ..	1934	June	19
Tisdale Weir .....	1930	Jan.	2
Topanga Creek Bridge Near Santa Monica, Los Angeles County .....	1932	March	11
Torres, T. L. Traffic Officer, Santa Clara County .....	1931	Aug.	23
Torrey Pines Grade (XI-S.D.-2) .....	1931	April	11
Curves Eliminated .....	1935	July	Cover
Tower Bridge at "M" Street, Sacramento .....	1932	Dec.	11
Toy, Harvey M. Chairman, State Highway Commission. Officiating Bay Shore Highway Ground Breaking Ceremonies .....	1935	Dec.	Cover
1925	Feb.	6	
<b>Traffic</b>			
Fighting Congestion on Whittier Boulevard, Los Angeles County .....	1924	Nov.	4
Guide Marker, New Form Developed ..	1926	Feb.	10
Lanes .....	1928	Sept.-Oct.	17
Lanes on Peninsula Highway .....	1925	Nov.	11
Lines, Border Stripes .....	1929	Jan.-Feb.	14
Moving, South of San Francisco .....	1925	Dec.	4
Stripes in Kern County .....	1928	Jan.	22
On Highway .....	1930	Oct.	17
Ridge Route .....	1927	Sept.-Oct.	9
Traffic Striping Equipment, New .....	1935	July	23
Tragedy Springs, Amador County .....	1933	Dec.	11
Trailer Built in Division VI Shop .....	1924	May	7
Travis, B. A. Assistant Chief Clerk, Department of Motor Vehicles .....	1931	Aug.	2
<b>Tree</b>			
Planting and Public Utilities .....	1927	Nov.	5
Watering Tank and Trailer (Division VI) .....	1926	July	11
Which Furnished Redwood for Yolo Causeway .....	1933	March	29
On Highway, Near Turlock, Stanislaus County .....	1927	Dec.	18
Trinity Lateral (I-Tri.-20) .....	1932	July	13

	Year	Month	Page
<b>Truck Traffic</b>			
On California Highways-----	1932	June	3
On the State Highways-----	1925	Oct.	9
<b>Truckee River Canyon</b>			
Construction Views -----	1924	Aug.	9
Highway Scenes -----	1926	June	Cover
Scenes Between Truckee and Floriston	1924	Nov.	11
<b>Trucks Built by Headquarters Shops at Sacramento -----</b>	1926	July	15
<b>Tunnel Building, Pacific Highway-----</b>	1928	Nov.-Dec.	21
<b>Typical California State Highway Bridges</b>			
Bear Gulch, Humboldt County-----	1924	April	4
Concrete Pile Trestle-----	1924	April	4
Huasna Creek in San Luis Obispo County -----	1924	April	4
Merced River, Mariposa County-----	1924	April	4
Petaluma Creek, Between Sonoma and Marin Counties -----	1924	April	4
Redwood Highway in Humboldt County -----	1924	April	4
San Gabriel River, Los Angeles County	1924	April	4
Standard Girder -----	1924	April	4
<b>Typical Cross Section, Colma to Cypress Lawn Cemetery (IV-S.M-2) (Sketch)</b>	1927	Sept.-Oct.	5
<b>Typical State Highway Sections (Draw- ings) -----</b>	1913	May	19

## U

Unemployment Relief Camp -----	1932	Oct.-Nov.	Cover
Uniform Racks for Mail Boxes, Contra Costa County -----	1926	June	15
Unimproved Road in the Sierras-----	1933	April	26
United States Army Group Studying Valley Water Project (Group)-----	1931	Oct.	25
United States Bureau of Public Roads Engineering Executives, Also of the 11 Western States-----	1934	Nov.-Dec.	17
United States Navy Dirigible "Akron" Arrives at Sunnyvale-----	1932	May	3
United States Senate Committee on Irrigation and Reclamation Wel- comed by Governor James Rolph, Jr. -----	1932	Sept.	5

## V

Vaca Ranch Scenes-----	1935	Dec.	11
Vacaville Widening Contract-----	1925	Feb.	4
Valona Slide Conquered. Concrete Slope Paving -----	1927	Sept.-Oct.	6
Van Duzen River, Humboldt County, Bank Protection Work -----	1925	Nov.	8

	Year	Month	Page
Ventura Boulevard Widening Scenes	1924	Nov.	8
Ventura-Coalinga Link Through Taft Opened to Traffic. Commissioner Hopkins and Others (Group)	1935	June	21
Ventura County			
Experimental Construction in (Dia- gram)	1927	April	5
Project Near Camarillo, Before and After	1926	Sept.	6
Traffic	1926	June	13
Ventura Boulevard			
Between Los Angeles and Ventura	1925	Aug.	11
North of Los Angeles	1926	Sept.	12
Ventura Coast South of Oxnard, Spread- ing a Rock Blanket Over a Sand Fill	1925	Aug.	8
Ventura Seawall Under Construction	1925	Aug.	Cover
Ventura Subway, Before and After	1925	April	Cover
Veterans' Home, Yountville, Napa County (Sketch)	1930	Dec.	11
	1930	April	7
Vickrey, J. W. Acting District Engineer, District IX	1932	April	38
Victory Highway			
Between Auburn and Colfax	1924	March	13
Between Loomis and Newcastle	1934	April	13
Visions of a Pioneer	1931	Nov.	Cover
Volcanic Cinders, Highway Near Inde- pendence, Inyo County	1925	June	12

## W

Waging War on Puncture Vine	1932	May	25
Wagner, A. J. Resigns	1924	Aug.	11
"Wagon Wheel" Marker on Old Mormon Trail, San Bernardino Mountains	1932	Dec.	40
Wallace, E. E.			
District Engineer, District VI	1932	May	6
Division Engineer, Division VI	1926	April	14
Ward-Kitchen-Steam Plant Building at Agnews State Hospital, Santa Clara County (Sketch)	1931	Feb.	12
Warning Sign, Collapsible	1926	Sept.	14
Warning Signals, Intersection	1932	July	37
Warrington, H. E. Chief Bridge Engi- neer	1924	Feb.	8
"Water Our Grave Problem." Governor Rolph Shaking Hands with Con- gressman Frank Murphy of Ohio	1931	July	15
Water Resources Map (Back Cover)	1931	Oct.	Cover
Waterman Creek Curves Eliminated	1932	June	21

	Year	Month	Page
Waterman Grade from San Bernardino to Arrowhead and Big Bear Lakes--	1924	Dec.	Cover
Waterwagon, A Real-----	1930	Sept.	15
Weaver, H. B. Chief Accountant-----	1924	Nov.	3
Webb, U. S. Attorney General-----	1930	April	8
Weed Exterminator (Division II)-----	1925	Sept.	7
Weed Spraying Machine-----	1930	March	2
Weighing Trucks with Heavy Loads-----	1932	July	9
Weir on Sacramento River-----	1930	Jan.	Cover
Welded Air Pipe-----	1934	July	8, 9
Welded Steel Viaduct East of Merced--	1932	Feb.	34
Welding Pipe for Water Supply-----	1926	June	11
Well in the Sand Hills-----	1925	Dec.	15
West Portal of Newcastle Tunnel-----	1931	April	26
West Sacramento Approach to M Street Bridge-----	1927	Feb.	13
West Sacramento Fill-----	1926	April	3
What Alkali Does to Pavements-----	1925	Aug.	4, 5
White Gold Rush (Cartoon by "Gale" in Los Angeles Times)-----	1932	Feb.	5
Whitmore, C. H. District Engineer, District III-----	1932	May	18
Whittier Boulevard, Los Angeles County Reconstruction-----	1926	June	5
Storm Damage-----	1927	March	8
Traffic-----	1925	Dec.	5
Widened and Thickened Pavement, Solano County-----	1925	Nov.	4
Widening Peninsula Highway, San Mateo County-----	1925	Nov.	14
Wild Flowers of the Desert. District VIII Headquarters Exhibit-----	1935	May	19
Willitt, D. C. Associate Structural Engineer, Divi- sion of Architecture-----	1930	Nov.	6
Structural Engineer, Division of Architecture-----	1932	Jan.	28
Willits Office (Division I) Beautifica- tion of Grounds-----	1926	Nov.	14
Winslow, G. R. Division Engineer, Division III-----	1924	Feb.	14
Also-----	1924	Aug.	11
Women Bidders on Bridge Construction	1925	July	11
Woodson, J. B. Division Engineer, Division VI-----	1924	Jan.	14

## Y

	Year	Month	Page
Yoder, F. G. District Inspector California Highway Patrol -----	1931	July	37
Yolo Basin Concrete Trestle-----	1916	July	6
Yolo Causeway			
West End Lowered -----	1928	July-Aug.	14
Widening, Yolo County to Sacramento County -----	1932	Dec.	37
Yolo County			
Between Davis and the Woodland Wye.			
New Shoulders in -----	1925	Nov.	4
Underpass -----	1926	May	11
Yosemite All Year Road Map-----	1926	July	5
Yosemite Highway. Governor Friend W. Richardson on Inspection Tour----	1924	June	4
Yosemite Lateral			
Beyond Maricopa -----	1924	March	12
Merced Canyon, Briceburg-El Portal			
Section Completed -----	1926	July	4
Near King Solomon Mine, Mariposa County -----	1926	July	5
Yosemite Valley -----	1912	Oct.	Cover
Also -----	1930	July-Aug.	Cover
Young, Governor C. C.-----	1927	Jan.	Cover
Young, Governor C. C. (Group)-----	1929	July-Aug.	2, 3
Youngblood, Roy. Assistant Superintendent, California Highway Patrol	1930	Feb.	5
Yuma Sand Road-----	1928	Nov.-Dec.	14

## Z

Zander, Gordon. Hydraulic Engineer, Division of Water Rights-----	1928	Feb.-March	9
---	------	------------	---

1891	John M. D. District Inspector
1892	John M. D. District Inspector
1893	John M. D. District Inspector
1894	John M. D. District Inspector
1895	John M. D. District Inspector
1896	John M. D. District Inspector
1897	John M. D. District Inspector
1898	John M. D. District Inspector
1899	John M. D. District Inspector
1900	John M. D. District Inspector
1901	John M. D. District Inspector
1902	John M. D. District Inspector
1903	John M. D. District Inspector
1904	John M. D. District Inspector
1905	John M. D. District Inspector
1906	John M. D. District Inspector
1907	John M. D. District Inspector
1908	John M. D. District Inspector
1909	John M. D. District Inspector
1910	John M. D. District Inspector
1911	John M. D. District Inspector
1912	John M. D. District Inspector
1913	John M. D. District Inspector
1914	John M. D. District Inspector
1915	John M. D. District Inspector
1916	John M. D. District Inspector
1917	John M. D. District Inspector
1918	John M. D. District Inspector
1919	John M. D. District Inspector
1920	John M. D. District Inspector
1921	John M. D. District Inspector
1922	John M. D. District Inspector
1923	John M. D. District Inspector
1924	John M. D. District Inspector
1925	John M. D. District Inspector
1926	John M. D. District Inspector
1927	John M. D. District Inspector
1928	John M. D. District Inspector
1929	John M. D. District Inspector
1930	John M. D. District Inspector
1931	John M. D. District Inspector
1932	John M. D. District Inspector
1933	John M. D. District Inspector
1934	John M. D. District Inspector
1935	John M. D. District Inspector
1936	John M. D. District Inspector
1937	John M. D. District Inspector
1938	John M. D. District Inspector
1939	John M. D. District Inspector
1940	John M. D. District Inspector
1941	John M. D. District Inspector
1942	John M. D. District Inspector
1943	John M. D. District Inspector
1944	John M. D. District Inspector
1945	John M. D. District Inspector
1946	John M. D. District Inspector
1947	John M. D. District Inspector
1948	John M. D. District Inspector
1949	John M. D. District Inspector
1950	John M. D. District Inspector

John M. D. District Inspector  
 Division of State Police  
 1951

---

III

CONTENTS

1936

---

---

III

CONTENTS

1930

---



## CONTENTS

—A—

	<i>Year</i>	<i>Month</i>	<i>Page</i>
American Association of State Highway Officials Convention			
Administrative Problems Discussed at Group Meeting Presided Over by H. A. Hopkins, Chairman, California Highway Commission -----	1936	Dec.	20-21, 33, 40
Auto Manufacturers Interested in Highway Safety Campaign, by Paul G. Hoffman, President, and D. G. Roos, Technical Adviser, The Studebaker Corporation -----	1936	Dec.	12, 34-35, 40
Balfour, F. C., Managing Director, Tells How Program Clicked_	1936	Dec.	18
Beautification of Highways, Inducement to Tourist Travel by Mrs. F. W. Sorrel, Chairman Texas Citizens Highway Beautification Organization _	1936	Dec.	28-29
Cutler of Kentucky, New President; True of Wyoming, New Vice President -----	1936	Dec.	13
Delegates from Alaska, Hawaii and British Columbia -----	1936	Dec.	8
Forty-four States Send 897 Representatives to -----	1936	Dec.	1-2
Gas Tax Diversion, Retiring President Sounds Warning Against, by Gib Gilerist, State Highway Engineer, Texas -----	1936	Dec.	22-24
Highway Has Its Limitations in Contributing to Safety, by R. E. Toms, Chairman, Director of Design, U. S. Bureau of Roads -----	1936	Dec.	25-27, 36
Impressions of a Hostess, by Mrs. John Hunt Skeggs, Chairman of Hostesses -----	1936	Dec.	14, 17
Message of Welcome, by Governor Frank F. Merriam -----	1936	Dec.	9
Money Available Next Year if States Match "Federal Aid" Quotas Amounts to \$800,000, 000, by Thos. H. MacDonald, Chief, U. S. Bureau of Public Roads -----	1936	Dec.	3-5, 15-17
Program Dec. 7-10 by W. C. Markham, Executive Secretary ---	1936	Nov.	30, 34, 36
Resolutions Adopted by Convention, Meeting December -----	1936	Dec.	7-10
No. 1 Adopted by Convention, Meeting December -----	1936	Dec.	1
No. 2 Adopted by Convention, Meeting December -----	1936	Dec.	2

	<i>Year</i>	<i>Month</i>	<i>Page</i>
American Association of State Highway Officials Convention—Continued.			
No. 3 Adopted by Convention, Meeting December -----	1936	Dec.	4
No. 4 Adopted by Convention, Meeting December -----	1936	Dec.	11
No. 5 Adopted by Convention, Meeting December -----	1936	Dec.	26
No. 6 Adopted by Convention, Meeting December -----	1936	Dec.	34
No. 7 Adopted by Convention, Meeting December -----	1936	Dec.	36
No. 8 Adopted by Convention, Meeting December -----	1936	Dec.	38
No. 9 Adopted by Convention, Meeting December -----	1936	Dec.	39
Passed by -----	1936	Feb.	9
American Canyon Cut-off Opened to Traffic, by R. E. Pierce, Dis- trict Engineer -----	1936	Nov.	28
Anderson, R. B., Resident Engineer Tracy Overpass Open to Traffic----	1936	Oct.	6
Andrew, C. E., Bridge Engineer Construction Records Made by Per- fect Coordination -----	1936	Nov.	10
Automobiles			
Predicts Forty Per Cent More Cars on Highway, by C. L. Mc- Cuen's Article Printed in San Francisco Chronicle -----	1936	Aug.	32

## B

Balfour, F. C.			
Appointed Director of Enrollment and Entertainment for Amer- ican Association, State High- way Officials Convention to Be Held in San Francisco December 7-9 -----	1936	Sept.	11
Managing Director, American Asso- ciation State Highway Offi- cials Convention			
How the Program Clicked-----	1936	Dec.	18
Benchmarks, Plea for Cooperation in Preserving Reprint from Engineering News Records, by Howard S. Rappleye, Chief, Section of Leveling, U. S. Coast and Geodetic Survey -----	1936	July	26
Billboard Law Upheld. (See Out- door Advertising) -----	1936	July	26
Bituminous Paving, Measuring Stabi- lity and Cohesion of, by Thos. E. Stanton, Jr., and F. N. Hveem of Research Labora- tory -----	1936	Jan.	10-11, 23

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Bowie, Wm., Chief, Division of Geodesy, U. S. Coast and Geodetic Survey -----			
State Cooperating in Geodetic Survey -----	1936	April	22-24
Bridge			
Feather River Canyon Bridge at Tobin, Completed, by E. C. Bissell, Resident Engineer--	1936	March	10
Ground Broken for Lodi-Rio Vista Drawbridge, by C. J. Temby, District Office Engineer----	1936	April	20, 32
New Bridge Supplants Downieville Span Where Woman Was Hanged in Pioneer Days----	1936	April	12, 19
Redding Highway Bridge Project Completed and Dedicated, by M. Frederickson, Resident Engineer -----	1936	Jan.	14, 22
San Francisco-Oakland Bay Bridge. President Roosevelt Switches on Traffic Opening Signal----	1936	Nov.	9
Tower Bridge Wins National Award, by Everett L. Walsh, Associate Bridge Engineer--	1936	July	8, 27

## C

California Highway Commission			
Hart, Wm. T., Carlsbad, Appointed to Succeed Late Charles D. Hamilton of Banning-----	1936	July	18, 28
Jasper, Paul J., Named Member--	1936	May	9
Judah, H. R., Named Member----	1936	May	8
Personnel Completed, by Julien D. Roussel, Secretary of the Commission -----	1936	Aug.	19, 23
Reardon, T. A., Resigns-----	1936	May	13
"California Highways" All Color Motion Picture Premiere, October 6, Alhambra Theater, Sacramento -----	1936	Oct.	20-22
"California Highways and Public Works," U. S. Army Officer Pays Tribute To-----	1936	March	21
Calwa Overpass Opening Ceremonies, E. J. Neron, Deputy Director of Public Works Presiding--	1936	Oct.	26
Camarillo State Hospital for Mental Patients Opened, by George B. McDougall, State Architect -----	1936	Nov.	32, 36
Carleton, C. C., Chief Attorney, State Department of Public Works			
Legal History of Transbay Project	1936	Nov.	24-25
Carter, F. M., Assistant Maintenance Engineer,			
Pavement Buttons Reflectorized, An Aid to Night Driving-----	1936	Sept.	12, 24

	Year	Month	Page
Concrete			
Laboratory Tests Aggregates For, by Allen Nicol, Junior Mineralogist -----	1936	June	22-23
Paving American Canyon Cut-off With Concrete-mix, by R. E. Pierce, District Engineer----	1936	Sept.	6-8
Contractor's			
Claim Disallowed by Court for Shasta Canyon Project in Siskiyou County -----	1936	July	15
Corner Stone			
Governor Merriam Lays the Corner Stone for New Public Works Building -----	1936	June	2, 4, 16, 17
Cortelyou, S. V., District Engineer			
Arroyo Seco Parkway Will Include Six-Mile Double Lane Depressed Arterial -----	1936	Aug.	4, 25
Craemer, Justus F., Assistant Director of Public Works			
Traffic Developments Demanding New Highway Designing----	1936	April	1, 14, 18

## D

Dam			
Friant Dam Plans Approved-----	1936	Oct.	15-17, 29
Deady, W. J., Resident Engineer			
Delano Underpass Eliminates Dangerous Grade Crossing-----	1936	Aug.	11, 25
Death Valley Surfacing Project Completed by State, by S. W. Lowden, Acting District Engineer -----	1936	Feb.	16, 27
Dedications			
Bridges			
Redding Bridge Dedicated by Earl Lee Kelly, by M. Frederickson, Resident Engineer-----	1936	Jan.	14, 22
San Francisco-Oakland Bay Bridge Opened by Governor Merriam Burning Barriers ..	1936	Nov.	1-5, 9, 20
Tower Bridge Over Sacramento River, Sacramento, Opened by Governor Merriam-----	1936	Jan.	2, 12, 13
Building			
Camarillo State Hospital Opened by Governor Merriam-----	1936	Nov.	32, 36
Highways			
American Canyon Cut-off Opened to Traffic, by R. E. Pierce, District Engineer -----	1936	Nov.	28
Calwa Overpass Opening Ceremonies, E. J. Neron, Deputy Director of Public Works, Presiding -----	1936	Oct.	26

	Year	Month	Page
Dedications: Highways—Continued.			
Midway Wells-Calexico Link Dedicated, by Julien D. Roussel, Secretary, California Highway Commission -----	1936	May	10-12
Redlands Central Avenue Ceremonies, By E. Q. Sullivan, District Engineer -----	1936	Feb.	4, 25
Salinas Underpass Opened by Governor Merriam -----	1936	Sept.	2, 17
Santa Monica Tunnel Opened for Traffic, Earl Lee Kelly, Director of Public Works, Representing the Governor-----	1936	Feb.	6, 27
Tracy Overpass Opened to Traffic, Director Earl Lee Kelly Officiating, by R. B. Anderson, Resident Engineer -----	1936	Oct.	6
Dennis, T. H., Maintenance Engineer Construction Problems, Varied Aspects of Detour-----	1936	Dec.	10-11
Four Hundred Projects Improve Traffic Service on 3630 Miles of Highway -----	1936	Sept.	1, 9
State-wide Highway Planning Survey -----	1936	July	6
Traffic			
Accident Research -----	1936	March	1, 4, 12, 26
Summer Count Shows 10% Increase Over 1935-----	1936	Aug.	14
District Highway Engineers Hold Annual Meeting in Sacramento -----	1936	June	18
Donner Summit Closed Only 34 Hours in 24-day Storm, by C. H. Weeks, Maintenance Superintendent -----	1936	March	2, 20-21
Drawbridge, Lodi-Rio Vista, Ground Broken For, by C. J. Temby, District Office Engineer-----	1936	April	20, 32

## E

Electricity Made Possible Erection of San Francisco-Oakland Bay Bridge -----	1936	March	14
Enke, Glenn L., Associate Bridge Designing Engineer -----	1936	March	14
Jibboom Grade Separation and Bridge Approach -----	1936	July	4-5, 27

## F

Feather River Highway Bridge Completed at Tobin, by E. C. Bissell, Resident Engineer...	1936	March	10
---	------	-------	----

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Figueroa Street Extension Viaduct Built by State, to Cost \$650,- 000, by Charles West Jones, Senior Field Construction Engineer -----	1936	Feb.	12, 26
Flooded Highway Near Merced Caused Three Deaths, by R. E. Pierce, District Engineer----	1936	March	6, 18
Frederickson, M., Resident Engineer Redding Highway Bridge Project Completed -----	1936	Jan.	14, 22
Friant Dam Plans Approved-----	1936	Oct.	15-17, 29

## G

Gasoline Supply Assured for 25 Years	1936	Sept.	24
Gasoline Tax Allocated to Cities for Last Fiscal Year Amounts to \$5,917,525, by Newton Pratt, Assistant Engineer of City and Cooper- ative Projects -----	1936	Aug.	1, 15-18, 19
Diversion (Editorial) American Road Builders Association--	1936	April	15
Total Is \$144,380,687. Reported to Convention of American As- sociation of State Highway Officials -----	1936	Dec.	9
Geodetic Survey, State Cooperating in, by William Bowie, Chief, Di- vision of Geodesy, U. S. Coast and Geodetic Survey-----	1936	April	22-24
Gibson, L. H., District Engineer Cuesta Proposed New Grade Will Eliminate 63 Curves-----	1936	July	2, 23
Rebuilding Sector San Marcos Pass Alternate -----	1936	March	16
Gillis, R. M., District Engineer Grapevine Canyon, Last Unit of, Completed and Opened-----	1936	Oct.	8, 23
Kings River Gorge, Building State Highway in -----	1936	July	28
Golden Gate Bridge Marin Approach- Ground Breaking Ceremonies, Governor Merriam Officiating	1936	May	4
Described, by Col. John H. Skeggs, District Engineer -----	1936	May	6, 26
Grade Separation Calwa Overpass Near Fresno Open- ed With Official Ceremonies, E. J. Neron, Deputy Director Public Works, Representing Governor Merriam and Earl Lee Kelly, Director of Public Works -----	1936	Oct.	26
Will Assure Safety for U. S. 99 Traffic -----	1936	Aug.	9, 14

	Year	Month	Page
Grade Separation—Continued.			
Colton Bottleneck Subway Replaced by Grade Separation on New Alignment, by M. A. Koontz, Assistant Bridge Designing Engineer -----	1936	July	14, 25
East Bay Distribution Structure for Bay Bridge Contains Sixteen Jibboom Street and Bridge Approach, by Glenn L. Enke, Associate Bridge Designing Engineer---	1936	Nov.	27
Newport, to Eliminate Traffic Bottleneck on Coast Highway, by L. R. McNeely, Resident Engineer -----	1936	July	4-5, 27
Newport Beach Grade Separation Project, by A. D. Griffin, District Office Engineer-----	1936	Sept.	10-11
Niles Project Includes Six Structures, by Col. John H. Skeggs, District Engineer -----	1936	Feb.	20-21, 30
Project Near Indio, by D. E. Warren, Senior Bridge Engineer---	1936	Sept.	4
Tracy Overpass Opened to Traffic, by R. B. Anderson, Resident Engineer -----	1936	June	20, 23
Twenty, Under Way in Southern California, by Stewart Mitchell, Bridge Construction Engineer -----	1936	Oct.	6
Griffin, A.D., District Office Engineer Newport Beach Grade Separation Project -----	1936	May	2, 20-21, 30
Grumm, F. J., Engineer Surveys and Plans, Multiple Line Highways, Divided Roadway Design -----	1936	Feb.	20-21, 30
	1936	Dec.	30-32, 38-39

## H

Hart, Wm. T., Carlsbad Appointed, Member California Highway Commission -----	1936	July	18, 28
Highway Angeles Crest Link Completed by U. S. Bureau, by Ralph C. Myers, Assistant Office Engineer -----	1936	Aug.	2, 26
Arroyo Seco Parkway Will Include a Six-Mile Double Lane Depressed Arterial, by S. V. Cortelyou, District Engineer	1936	Aug.	4, 25
Banner Year for Construction Work Bids and Awards (chronologically listed) -----	1936	March	15
Also -----	1936	Jan.	30-32
Also -----	1936	Feb.	32
Also -----	1936	Mar.	31-32
Also -----	1936	April	31
Also -----	1936	May	31-32

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Highway: Bids and Awards—Continued.			
(Chronologically listed) -----	1936	June	31-32
Also -----	1936	July	30-31
Also -----	1936	Aug.	31-32
Also -----	1936	Sept.	20-21, 24
Also -----	1936	Oct.	30-31, 32
Budget Revised for Last Half of Biennium, by Geo. T. McCoy, Assistant State Highway Engineer -----	1936	July	1, 15
Burning Off Sunset Boulevard for Repaving, by J. M. Lackey, Assistant District Construc- tion Engineer -----	1936	Jan.	26, 29
Calwa Overpass Opened With Offi- cial Ceremonies -----	1936	Oct.	26
Chiefs to Meet in San Francisco (State Highway Engineers) -	1936	July	23
Construction Program Tabulated -----	1936	July	16-17
Construction Progress and Pavement Records for 1935, by Earl Withycombe, Assistant Construction Engineer -----	1936	Oct.	10-11, 23
Congress Urges Equitable Fuel Tax and "Federal Aid" Continu- ance, by H. A. Hopkins, Chairman, California High- way Commission -----	1936	Feb.	8, 9, 22
Cuesta New Grade Relocation Will Eliminate 63 Curves, by L. H. Gibson, District Engineer	1936	July	2, 23
Death Toll on Highways, "Only Golden Rule Will End." by Governor Frank F. Merriam	1936	Aug.	15
Death Valley Roads Restored After Summer Cloudbursts, by S. W. Lowden, Acting District Engineer -----	1936	Oct.	4, 6
Surfacing Project Completed by State, by S. W. Lowden, Acting District Engineer ----	1936	Feb.	16, 27
Desert Link—Last on U. S. 91 Under Construction by E. Q. Sullivan, District Engineer -	1936	Oct.	24
Designing Traffic Developments Demanding New, by Justus F. Craemer, Assistant Director of Public Works -----	1936	April	1, 14, 18
Detour Varied Aspects of Detour Con- struction Problems, by T. H. Dennis, Maintenance Engi- neer -----	1936	Dec.	10-11



	<i>Year</i>	<i>Month</i>	<i>Page</i>
Highway—Continued.			
Divided Roadway Design, Multiple Lane Highways, by F. J. Grumm, Engineer Surveys and Plans, Division of Highways -----	1936	Dec.	30-32, 33-39
Feeder Road Workers Find Bones of Mastodon -----	1936	July	7
Figueroa Street Extension Viaduct Built by State to Cost \$650,000, by Charles West Jones, Senior Field Construction Engineer -----	1936	Feb.	12, 26
Flooded, near Merced, Caused Three Deaths, by R. E. Pierce, District Engineer, Division of Highways -----	1936	March	6, 18
Grade Crossing Eliminated by Underpass at Delano, by W. J. Deady, Resident Engineer-----	1936	Aug.	11, 25
Grapevine Canyon, Last Unit of, Completed and Opened, by R. M. Gillis, District Engineer -----	1936	Oct.	8, 23
Indio-Palm Springs Improvement, by W. L. McFadden, Assistant Construction Engineer--	1936	June	10-12
Kings River Gorge, Building In, by R. M. Gillis, District Engineer -----	1936	July	28
Major Construction Projects Has Only \$15,469,891 by Earl Lee Kelly, Director of Public Works -----	1936	Feb.	1, 14-15
Midway Wells-Calexico Link Dedicated, by Julien D. Roussel, Secretary California Highway Commission -----	1936	May	10-12
Modern Highway Design Defies Obsolescence -----	1936	July	32
Motion Picture All Color; Premiere	1936	Oct.	20-22
Mountain Road Construction, Great Progress Made in, by Lacey V. Murrow, Division of Highways, Washington -----	1936	Dec.	6-8
Pan American Highway a Great Mexican Achievement, by Earl Lee Kelly, Director of Public Works -----	1936	Aug.	10, 24
Planning Survey, State-wide, by T. H. Dennis, Maintenance Engineer -----	1936	July	6
Projects Tabulated for Next Eighteen Months -----	1936	Jan.	7
Reconstruction			
Sacramento's West Approach to be Multi-lane Arterial, by E. J. L. Peterson, Assistant District Office Engineer-----	1936	Oct.	18, 22

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Highway: Reconstruction—Continued.			
San Marcos Pass Alternate, Rebuilding Sector of, by L. H. Gibson, District Engineer----	1936	March	16
Completed, by L. E. McDougal, District Office Engineer-----	1936	Jan.	4, 16
Redlands New Westerly Entrance to Be Landscaped, by B. A. Switzer, Assistant Highway Engineer -----	1936	Oct.	14
Roadsides, Spraying and Burning, by W. A. Smith, Assistant Maintenance Engineer -----	1936	Feb.	10, 26
“Safety First” Policy Dominates State Highway Construction, by E. J. Neron, Deputy Director of Public Works-----	1936	June	1, 8
Safety Plan, by Thos. H. MacDonald, Chief, U. S. Bureau of Public Roads-----	1936	Jan.	8-9, 16
Santa Monica Tunnel Opened to Traffic -----	1936	Feb.	6, 27
Telescope on Palomar Peak, State Building Highway Link to, by E. E. Wallace, District Engineer -----	1936	April	2-5
Tracy Overpass Opened for Traffic, Director Earl Lee Kelly Officiating, by R. E. Anderson, Resident Engineer-----	1936	Oct.	6
Trees Saved From Destruction by Pine Beetle, by E. L. Stump, Maintenance Superintendent, District II -----	1936	April	10, 26, 32
Uneconomic Building, by Thos. H. MacDonald, Chief U. S. Bureau of Public Roads-----	1936	June	24
Highways Damaged by Winter Storms, By W. A. Smith Assistant Maintenance Engineer -----	1936	April	6-8
Lauded as State's Most Impressive Improvements -----	1936	March	13
State, Used Most in Both Rural and Municipal Areas-----	1936	Feb.	30
Hopkins, Harry A., Chairman Highway Commission.			
Administrative Problems Discussed at Group Meeting of American Association of State Highway Officials, Mr. Hopkins, Presiding -----	1936	Dec.	20-21, 33, 40
American Association of State Highway Officials Urge Equitable Fuel Tax and “Federal Aid” Continuance -----	1936	Feb.	8, 9, 22
Western State Highway Officials Convention -----	1936	May	1, 14-15

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Hveem, F. N., Research Laboratory and Thos. E. Stanton, Jr., Measuring Stability and Co- hesion of Bituminous Paving	1936	Jan.	10-11, 23

## I

## In Memoriam

Burke, Albert Nelson, Irrigation Engineer, Division of Water Resources -----	1936	Mar.	32
Christensen, Laurence A., Junior Highway Engineer, District V	1936	July	32
Hamilton, Charles D., Member Cali- fornia Highway Commission	1936	May	27, 32
Mead, Dr. Elwood, U. S. Reclama- tion Service, Eulogized at Memorial Meeting, By Edward Hyatt, State Engi- neer -----	1936	March	8-9
In the Field With the Old Timers			
Bedford, T. A., Senior Highway Engineer -----	1936	Aug.	22-23
In the Field with E. E. East-----	1936	June	26-27
Stalnaker, R. H., Equipment Engi- neer -----	1936	July	24-25
Ingels, Ray, Director of Motor Vehicles Highway Patrol of Forty Men De- tailed to San Francisco-Oak- land Bay Bridge-----	1936	Nov.	31

## J

Jasper, Paul G., Named State High- way Commissioner -----	1936	May	9
Jones, Charles West, Sr., Field Con- struction Engineer Figueroa Street Extension Viaduct, Built by State to Cost \$650,000 -----	1936	Feb.	12, 26
Jones, Jesse, RFC Chairman "Money Well Spent" Re San Fran- cisco-Oakland Bay Bridge---	1936	Jan.	20
Jones, R. L., Deputy State Engineer Sacramento River Break Results in Small Damage -----	1936	Feb.	2, 18
Judah, H. R., Becomes State High- way Commissioner -----	1936	May	8

## K

Kelly, Earl Lee, Director of Public Works			
Pan American Highway a Great Mexican Achievement -----	1936	Aug.	10, 24
Redding Bridge Dedicated-----	1936	Jan.	14, 32
"Road Eyes" Endorsed in a Letter from Governor Merriam----	1936	Sept.	12

	Year	Month	Page
Kelly, Earl Lee, Director of Public Works— Continued.			
San Francisco-Oakland Bay Bridge, a Mighty Symbol of Cali- fornia Genius and Vision---	1936	Nov.	12-13, 20
Santa Monica Tunnel Opened for Traffic -----	1936	Feb.	6, 27
State Has Only \$15,469,891 for Major Highway Construction Projects -----	1936	Feb.	1, 14-15
Tracy Overpass Opened to Traffic--	1936	Oct.	6
Koontz, M. A., Assistant Bridge De- signing Engineer			
Colton Bottleneck Subway Replaced by Grade Separation on New Alignment -----	1936	July	14, 25

## L

Lackey, J. M., Assistant District Con- struction Engineer			
Burning Off Sunset Boulevard for Repairing -----	1936	Jan.	26, 29
New Method of Soil Stabilization on Coast Highway Job-----	1936	March	22-23
Lodi-Rio Vista Drawbridge, Ground Broken For, by C. J. Temby, District Office Engineer----	1936	April	20, 32
Lowden, S. W., Acting District En- gineer			
Death Valley Roads Restored After Summer Cloudbursts-----	1936	Oct.	4, 6
Surfacing Project Completed by State -----	1936	Feb.	16, 27

## Mc

McCoy, George T., Assistant State Highway Engineer			
Budget Revised for Last Half of Biennium -----	1936	July	1, 15
McDougall, George B., State Architect Camarillo State Hospital for Mental Patients Opened -----	1936	Nov.	32, 36
McDougal, L. E., District Office En- gineer			
San Marcos Pass Highway Com- pleted -----	1936	Jan.	4, 16
McFadden, W. L., Assistant Construc- tion Engineer			
Indio-Palm Springs Highway Im- provement -----	1936	June	10-12
McNeely, L. R., Resident Engineer			
Newport Grade Separation to Elim- inate Traffic Bottleneck on Coast Highway -----	1936	Sept.	10-11

	Year	Month	Page
M			
MacDonald, Thos H., Chief, U. S. Bureau of Public Roads			
Highway Safety Plan-----	1936	Jan.	8-9, 16
Money Available Next Year if States Match "Federal Aid"			
Quotas -----	1936	Dec.	3-5, 15-17
Uneconomic Highway Building--	1936	June	24
Maintenance			
Crews Sand 15,000 Miles of Icy Highways, by W. A. Smith, Assistant Maintenance Engineer -----	1936	March	24
Donner Summit Closed Only 34 Hours in 24 Day Storm, by C. H. Weeks, Maintenance Superintendent -----	1936	March	2, 20-21
Laboratory Develops an Improved Joint Filler, by Thos. E. Stanton, Jr., Materials and Research Engineer -----	1936	Sept.	14-16, 17
Markham, W. C., Executive Secretary, American Association State Highway Officials			
State Highway Officials Convention Program -----	1936	Nov.	30, 34, 36
Marlette, S. H., Surveyor General			
California's First State Highway Builder Borrowed Road Funds from Public-----	1936	July	10-11
Merriam, Governor Frank F.			
American Association State Highway Officials, Message of Welcome to -----	1936	Dec.	9
Bay Bridge, Opens-----	1936	Nov.	1-5, 9, 20
Bay Bridge--Will Open -----	1936	Oct.	1-2, 14
Camarillo State Hospital Opened--	1936	Nov.	32, 36
Corner Stone for New Public Works Building -----	1936	June	2, 4, 16-17
Dedication Address Given in San Francisco, (Complete Text)	1936	Nov.	14-16, 23
Officiates Ground Breaking Ceremonies at Golden Gate Bridge-Marin Approach -----	1936	May	4
"Only Golden Rule" Will End Death Toll on Highways----	1936	Aug.	15
Public Works Program of 28,000,000 Man Hours Work-----	1936	Jan.	1, 6, 13, 29
"Road Eyes," Indorsed in a Letter to Earl Lee Kelly, Director of Public Works-----	1936	Sept.	12
Salinas Underpass Completed,-Opened by Governor-----	1936	Sept.	2, 17
Tower Bridge Dedicated and opened to Traffic -----	1936	Jan.	2, 12, 13
Midway Wells-Calexico Link Dedicated by, Julien D. Roussel, Secretary to California Highway Commission -----	1936	May	10-12

	Year	Month	Page
Mitchell, Stewart, Bridge Construction Engineer			
Twenty Grade Separations Under Way in Southern California	1936	May	2, 20-21, 30
Motor Vehicle Fees			
State-Counties Share -----	1936	March	32
Touring Records, New, Predicted for This Year in U. S.-----	1936	March	26
Myers, Ralph C., Assistant Office Engineer			
Angeles Crest Link Completed by U. S. Bureau of Public Roads -----	1936	Aug.	2, 26
Conejo Realignment Construction Project -----	1936	June	14, 17

## N

National Award Won by Tower Bridge Over Sacramento River, by Everett L. Walsh, Associate Bridge Engineer--	1936	July	8, 27
Neron, E. J., Deputy Director of Department of Public Works.			
Calwa Overpass Opening Ceremonies, Presided Over by-----	1936	Oct.	26
Safety First Policy Dominates California State Highway Construction -----	1936	June	1, 8
Newport Beach Grade Separation Project, by A. D. Griffin, District Office Engineer-----	1936	Feb.	20-21, 30
Nicol, Allen, Junior Mineralogist, Laboratory Tests Aggregates for Concrete -----	1936	June	22-23

## O

"Old Timers" Card Competition-----	1936	Jan.	28, 29
Also -----	1936	Feb.	31
Also -----	1936	March	29-30
In Personnel Group-----	1936	April	29-30
Outdoor Advertising			
Bill Board Law Upheld-----	1936	July	26

## P

Palomar Peak, Building Highway to Observatory on, by E. E. Wallace, District Engineer--	1936	April	2-5
Pavement Buttons,			
Reflectorized, An Aid to Night Driving, by F. M. Carter, Assistant Maintenance Engineer -----	1936	Sept.	12, 24
"Road Eyes" Indorsed by Governor Merriam in Letter to Earl Lee Kelly, Director of Public Works -----	1936	Sept.	12

	Year	Month	Page
Pavement Construction Records, Tabulated -----	1936	Oct.	12-13
Peterson, E. J. L., Assistant District Office Engineer Sacramento's Reconstructed West Approach to be Multi-lane Arterial -----	1936	Oct.	18, 22
Pierce, R. E., District Engineer, District X American Canyon Cut-off Will Save One Hour Between San Francisco and Sacramento--	1936	Nov.	28
Flooded Highway Near Merced Caused Three Deaths-----	1936	March	6, 18
Paving American Canyon Cut-off With Concrete-Mix -----	1936	Sept.	6-8
Pine Beetle, Trees on Highway Saved From Destruction, by E. L. Stump, Maintenance Superintendent, District II-----	1936	April	10, 26, 32
Pratt, Newton, Assistant Engineer City and Cooperative Projects Gasoline Tax Allocation to Cities for Last Fiscal Year-----	1936	Aug.	1, 15-18, 19
Public Works Building Corner Stone for New Building Laid by Governor Merriam--	1936	June	2, 4, 16-17
Public Works Program of 28,000,000 Man-hours Work, by Governor Frank F. Merriam----	1936	Jan.	1, 6, 13, 29
Purcell, C. H., Chief Engineer Bay Bridge Cantilever Gap in Bay Bridge Closed -----	1936	April	16
Construction Story of Bridge-----	1936	Nov.	6-8
Dedication Speech at San Francisco-Oakland Bay Bridge Opening (Complete Text) -----	1936	Nov.	22-23
State Highway Officials to Convene in California-----	1936	Aug.	12, 23

## R

Realignment Conejo Grade Construction Project, by R. C. Myers, Assistant District Office Engineer-----	1936	June	14, 17
Dangerous Curves and Turns Eliminated East of Colton, by E. Q. Sullivan, District Engineer -----	1936	June	6, 18
Redding Highway Bridge Project Completed and Dedicated, by M. Frederickson, Resident Engineer -----	1936	Jan.	14, 22
Redlands Eliminates Turns and Grade Crossings, by E. Q. Sullivan, District Engineer--	1936	Feb.	4, 25
Reardon, T. A., Resigns from California Highway Commission	1936	May	13

	Year	Month	Page
Relocation			
American Canyon Cut-off Opened; Will Save One Hour Between San Francisco and Sacramento, by R. E. Pierce, District Engineer-----	1936	Nov.	28
Big Pines Road, in Los Angeles County, by A. Everett Smith, Assistant Highway Engineer	1936	Aug.	26
Cuesta Proposed New Grade Will Eliminate 63 Curves, by L. H. Gibson, District Engineer---	1936	July	2, 23
U. S. 40 South of Vacaville, Nearing Completion, by C. J. Temby, District Office Engineer-----	1936	Aug.	20
Resolutions Passed by American Association of State Highway Officials -----	1936	Feb.	9
No. 1 -----	1936	Dec.	1
No. 2 -----	1936	Dec.	2
No. 3 -----	1936	Dec.	4
No. 4 -----	1936	Dec.	11
No. 5 -----	1936	Dec.	26
No. 6 -----	1936	Dec.	34
No. 7 -----	1936	Dec.	36
No. 8 -----	1936	Dec.	38
No. 9 -----	1936	Dec.	39
Right of Way Men of State Hold Conference -----	1936	May	22
Roster -----	1936	Jan.	33
Roussel, Julien D.			
California Highway Commission Personnel Completed -----	1936	Aug.	19, 23
Midway-Wells Calexico Link Dedicated -----	1936	May	10-12

## S

Sacramento Levee Break Results in Small Damage, by R. L. Jones, Deputy State Engineer -----	1936	Feb.	2, 18
Safety First Policy Dominates California State Highway Construction, by E. J. Neron, Deputy Director, Department of Public Works-----	1936	June	1, 8
Salinas Underpass Completed, Governor Merriam Opens-----	1936	Sept.	2, 17
Unique in Structure. Two Main Traveled Arteries Meet Under Subway-----	1936	Sept.	2, 17
San Francisco-Oakland Bay Bridge Annual Commuters for, 30,000,000	1936	Feb.	18-19
Bay Bridge to be Opened in Eleven Months -----	1936	Jan.	18-21
Batter-leg Towers on Major Suspension Spans-----	1936	Nov.	10



	Year	Month	Page
San Francisco-Oakland Bay Bridge— Continued.			
Burning Barriers; Governor Merriam Opens Bridge by-----	1936	Nov.	1-5, 9, 20
Cables Wrapped With Wire-----	1936	June	12
California Genius and Vision, a Mighty Symbol of, by Earl Lee Kelly, Director of Public Works -----	1936	Nov.	12-13, 20
Cantilever Gap in Bay Bridge Closed, by C. H. Purcell, Chief Engineer and State Highway Engineer -----	1936	April	16
Commuters Will Save 35,000,000 Hours per Year-----	1936	Nov.	21
Construction Records Made by Perfect Coordination, by C. E. Andrew, Bridge Engineer --	1936	Nov.	10
Construction Story of Bridge, by C. H. Purcell, Chief Engineer and State Highway Engineer	1936	Nov.	6-8
Dedication Address Given in San Francisco, by Governor Frank F. Merriam (Complete Text) -----	1936	Nov.	14-16, 23
Dedication Speech of C. H. Purcell, Chief Engineer and State Highway Engineer (Complete Text) -----	1936	Nov.	22-23
Design, New Problems of, Solved by Bridge Engineers, by Glenn B. Woodruff, Engineer of Design -----	1936	Nov.	21
East Bay Distribution Structure Includes 16 Grade Separations -----	1936	Nov.	27
Electricity Made Possible Erection of Bay Bridge-----	1936	March	14
Fifth Street Plaza to be Made Into Real Garden Spot-----	1936	Sept.	18
Highway Patrol—40 Men Detailed to Bridge, by Ray Ingels, Director of Motor Vehicles--	1936	Nov.	31
Legal History of Transbay Bridge Project, by C. C. Carleton, Chief Attorney, State Department of Public Works--	1936	Nov.	24-25
Merriam, Governor Frank F. to Open, November 12th-----	1936	Oct.	1-2, 14
"Money Well Spent" Says R.F.C. Chairman Jones-----	1936	Jan.	20
Paving Marks Last Laps of Construction Work On-----	1936	July	18
Poem Quoted by Governor Merriam in Dedication Speech, Written by Evelyn Simms-----	1936	Nov.	23
"The Bridge" by Marguerite Young	1936	Oct.	20
Toll Plaza Details-----	1936	Aug.	12-13

	Year	Month	Page
San Francisco-Oakland Bay Bridge— Continued.			
Toll Rate—Flat-----	1936	Nov.	26
Traffic Distribution in San Fran- cisco Now Centering at 5th Street Plaza-----	1936	Nov.	11
Transcontinental Highways Lead to Bay Crossing-----	1936	Nov.	28
San Marcos Pass Saved California to U. S., How-----	1936	Aug.	6, 8, 30, 32
Santa Monica Tunnel Opened to Traffic-----	1936	Feb.	6, 27
Shasta Canyon Project. Lawsuit In- volving Contractors Claims on, Court Disallows-----	1936	July	15
Skeggs, Colonel John H., District Engineer Golden Gate Bridge-Marin Ap- proach Highway Described--	1936	May	6, 26
Niles Project Includes Six Grade Separation Structures-----	1936	Sept.	4
Smith, A. Everett, Assistant Highway Engineer Big Pines Road Relocation in Los Angeles County-----	1936	Aug.	26
Fourteen Hundred Miles of High- ways Damaged by Winter Storms-----	1936	April	6-8
Smith, W. A., Assistant Maintenance Engineer Maintenance Crews Sand 15,000 Miles of Icy Highways-----	1936	March	24
Spraying and Burning Highway Roadsides-----	1936	Feb.	10, 26
Snow at Norden 124 Inches Deposited in 14 Days--	1936	April	26
Soil Sampler, Improved Type of, by Thos. E. Stanton, Jr., Ma- terials and Research Engi- neer-----	1936	July	12, 20
Soil Stabilization, New Method on Coast Highway Job, by J. M. Lackey, Assistant District Construction Engineer-----	1936	March	22-23
South San Francisco Underpass Wid- ened-----	1936	April	24
Stanton, Thos. E. Jr., Materials and Research Engineer Improved Type of Soil Sampler--	1936	July	12, 20
Laboratory Develops an Improved Joint Filler-----	1936	Sept.	14-16, 17
Stanton, Thos. E. Jr., Materials and Research Engineer and F. N. Hveem, Associate Physical Testing Engineer Measuring Stability and Cohesion of Bituminous Paving-----	1936	Jan.	10-11, 23

	Year	Month	Page
State-Counties Share Motor Vehicle Fees -----	1936	March	32
State Exhibits at San Diego Exposition -----	1936	Feb.	28
State Highway Officials to Convene in California, by C. H. Purcell, State Highway Engineer	1936	Aug.	12, 23
Stump, E. L., Maintenance Superintendent, District II Highway Trees Saved From Destruction by Pine Beetle-----	1936	April	10, 26, 32
Sullivan, E. Q., District Engineer Dangerous Curves and Turns Eliminated by Realignment East of Colton-----	1936	June	6, 18
Desert Link Last, Highway on U. S. 91 Under Construction-----	1936	Oct.	24
Redlands Realignment Eliminates Turns and Grade Crossings--	1936	Feb.	4, 25
Redlands Westerly Entrance to be Landscaped -----	1936	Oct.	14

## T

Temby, C. J. District Office Engineer Lodi-Rio Vista Drawbridge, Ground Broken For-----	1936	April	20, 32
Relocation of U. S. 40 South of Vacaville, Nearing Completion -----	1936	Aug.	20
Toll Rate, Flat, on San Francisco-Oakland Bay Bridge-----	1936	Nov.	26
Tower Bridge at Sacramento ("M" Street) Opened by Governor Merriam -----	1936	Jan.	2, 12, 13
Tracy Overpass Opened to Traffic, Director Earl Lee Kelly Officiating, by R. B. Anderson, Resident Engineer -----	1936	Oct.	6
Traffic Accident Research by T. H. Dennis, Maintenance Engineer -----	1936	March	1, 4, 12, 26
State Highway Count Being Made Monthly -----	1936	Jan.	17
Summer Count Shows 10% Increase Over 1935, by T. H. Dennis, Maintenance Engineer	1936	Aug.	14
Tabulation -----	1936	Aug.	14
Traffic Development Demanding New Designing, by Justus F. Craemer, Assistant Director of Public Works-----	1936	April	1, 14, 18
Double Line, a Danger Signal-----	1936	June	8
Four Hundred Projects Improve Service on 3630 Miles of Highway, by T. H. Dennis, Maintenance Engineer -----	1936	Sept	1, 9

	Year	Month	Page
Transplanting Roadside Trees and Reforestation, by E. S. Whitaker, Assistant Arboriculturist -----	1936	May	24, 30
Truck Official Gives Helpful Suggestions -----	1936	June	19
Truck Owners Must Pay Bridge Damages -----	1936	Feb.	30
Tunnel No. 3, Blast "Holes Through" Feather River, by G. M. Webb, Resident Engineer --	1936	May	16, 18

## U

U. S. Army Officer Pays Tribute to California Highways and Public Works Magazine-----	1936	March	21
---	------	-------	----

## W

Wallace, E. E., District Engineer, Building Highway to Telescope Observatory on Palomar Peak	1936	April	2-5
Walsh, Everett L., Associate Bridge Engineer Tower Bridge Over Sacramento River, Wins National Award	1936	July	8, 27
Warren, D. E., Senior Bridge Engineer Grade Separation Project Near Indio -----	1936	June	20, 23
Water Resources Report (chronologically listed) -----	1936	Jan.	24-25
Also -----	1936	Feb.	23-24
Also -----	1936	March	27-28
Also -----	1936	April	27-28
Also -----	1936	May	28-30
Also -----	1936	June	29-30
Also -----	1936	July	21-22
Also -----	1936	Aug.	28-29
Also -----	1936	Sept.	22-23
Also -----	1936	Oct.	28-29
Also -----	1936	Nov.	35
Also -----	1936	Dec.	37
Webb, G. M., Resident Engineer Blast Opens Last Tunnel Barrier on Feather River Project----	1936	May	16, 18
Weed Extermination Spraying and Burning Roadsides, by W. A. Smith, Assistant Maintenance Engineer -----	1936	Feb.	10, 26
Weeks, C. H., Maintenance Superintendent Donner Summit Closed Only 34 Hours in 24 Day Storm-----	1936	Mar.	2, 20-21

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Western States Highway Officials			
Convention, by Harry A. Hopkins, Chairman, California High- way Commission -----	1936	May	1, 14-15
Resolutions Passed by-----	1936	June	24
Whitaker, E. S., Assistant Aboricultu- ralist,			
Transplanting Roadside Trees and Reforestation -----	1936	May	24, 30
Withycombe, Earl, Assistant Con- struction Engineer			
Construction Progress and Pave- ment Records for 1935-----	1936	Oct.	10-11, 23
Woman Hanged on Bridge in Pioneer Days, Old Downieville Bridge	1936	April	12, 19
Woodruff, Glen B., Engineer of Bridge Design,			
New Problems of, Solved by Bridge Engineers -----	1936	Nov.	21

The first part of the paper deals with the general theory of the problem, and the second part with the particular case of the problem. The paper is divided into two main parts, the first of which is devoted to the general theory, and the second to the particular case. The first part is divided into two sections, the first of which is devoted to the general theory, and the second to the particular case. The second part is divided into two sections, the first of which is devoted to the general theory, and the second to the particular case. The paper is divided into two main parts, the first of which is devoted to the general theory, and the second to the particular case. The first part is divided into two sections, the first of which is devoted to the general theory, and the second to the particular case. The second part is divided into two sections, the first of which is devoted to the general theory, and the second to the particular case.

The first part of the paper deals with the general theory of the problem, and the second part with the particular case of the problem. The paper is divided into two main parts, the first of which is devoted to the general theory, and the second to the particular case. The first part is divided into two sections, the first of which is devoted to the general theory, and the second to the particular case. The second part is divided into two sections, the first of which is devoted to the general theory, and the second to the particular case. The paper is divided into two main parts, the first of which is devoted to the general theory, and the second to the particular case. The first part is divided into two sections, the first of which is devoted to the general theory, and the second to the particular case. The second part is divided into two sections, the first of which is devoted to the general theory, and the second to the particular case.

---

IV

CUTS AND ILLUSTRATIONS

1936

---

---

VI

PROTESTANTEN-VEREIN

1880

---



## CUTS AND ILLUSTRATIONS—1936

## — A —

	<i>Year</i>	<i>Month</i>	<i>Page</i>
American Association State Highway Officials			
Convention Comrades, L. V. Morrow, Washington, Gibb Gilchrist, Texas, and others (Group) -----	1936	Dec.	5
Delegates at San Francisco, Dec. 7-10, 1936 (Group) -----	1936	Dec.	20-21
Distinguished Guests Welcomed at Mills Field:			
Leo Carillo, Famous Actor, Earl Gilmore, President Gilmore Oil Co., Earl Lee Kelly, Director of Public Works, Justus F. Craemer, Assistant Director Public Works, and Jean Parker, Hollywood Star	1936	Dec.	35
Executive Committee of Convention			
C. H. Purcell, California State Highway Engineer; W. C. Markham, Secretary, Washington, D. C.; T. H. MacDonald, Chief, Bureau of Public Roads, and Others (Group) -----	1936	Dec.	23
San Francisco Greets Hawaiians at Convention:			
Mr. and Mrs. Jack Moskowitz, Honolulu; Mr. and Mrs. F. L. Klein, San Francisco; Mr. and Mrs. F. A. Kittredge, San Francisco, and Others (Group) -----	1936	Dec.	27
Andrew, C. E., Bridge Engineer -----	1936	Nov.	10

## B

Balfour, Frank C., Right of Way Agent, and Managing Director American Association of State Highway Officials Convention -----	1936	Dec.	18
Bedford, T. A., Senior Highway Engineer, Division of Highways -----	1936	Aug.	22
Behr, Marcel, Chef Sir Francis Drake Hotel, Showing Sugar Replica of San Francisco-Oakland Bay Bridge to Mrs. Gordon Lloyd of Austin, Texas, and Mrs. Gale Moss, of Topeka, Kansas -----	1936	Dec.	14
Bowie, William, Chief, Division of Geodesy, U. S. Coast and Geodetic Survey -----	1936	April	22

	<i>Year</i>	<i>Month</i>	<i>Page</i>
<b>Bridges</b>			
Drawbridge Groundbreaking on Lodi-Rio Vista Cut-off. Earl Lee Kelly, Director of Public Works; Harry A. Hopkins, Chairman, California Highway Commission; R. E. Pierce, District Engineer, and T. E. Reardon Attend Ceremonies (Group)-----	1936	April	21
Downieville New Reinforced Concrete Bridge-----	1936	April	13
Old Jersey Bridge at Downieville	1936	April	13
Feather River Highway Bridge at Pulga -----	1936	March	11
At Tobin (Two Views)-----	1936	March	11
Tower Bridge at Sacramento Winner of National Award (Three Views)-----	1936	July	9
Opened, Governor Merriam, Earl Lee Kelly, Director of Public Works, Mayor Ferguson and Others (Group)-----	1936	Jan.	3
<b>Builders of California's Highways,</b> Earl Lee Kelly, Director of Public Works; Thomas H. MacDonald, Chairman, U. S. Bureau of Public Roads; C. H. Purcell, State Highway Engineer, and G. T. McCoy, Assistant State Highway Engineer (Group) -----	1936	Dec.	16

**C**

California Highway Commission, Personnel of (Group)-----	1936	Aug.	19
"California Highways"—Motion Picture in Colors; Scenes from Bay Bridge Bixby Arch Half Dome, Yosemite National Park Mount Shasta Redwood Highway, Humboldt County Rincon Overpass, Ventura County--	1936	Oct.	21
California Toll Bridge Authority. Governor Frank F. Merriam, Lieutenant Governor George J. Hatfield, Earl Lee Kelly, Director of Public Works, Arlin Stockburger, Director of Finance and Harry A. Hopkins, Chairman, California Highway Commission (Group) -----	1936	Nov.	13

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Calwa Overpass			
Opening Ceremonies:			
Z. S. Leymel, Mayor of Fresno; Harry Hopkins, Chairman, California Highway Commis- sion; E. J. Neron, Deputy Director of Public Works, and Others (Group)-----	1936	Oct.	27
Scenes (Three)-----	1936	Oct.	27
Carleton, C. C., Chief Attorney, De- partment of Public Works---	1936	Nov.	24
Conejo Grade Alignment (Sketch)---	1936	June	14
Cuts and Fills for New Highway (Three Views)-----	1936	June	15
Covers (chronologically listed)			
Scene on State Highway (Coast Route) Through Gaviota Pass, Santa Barbara County	1936	Jan.	Cover
Scene on State Highway No. 37 (U. S. 40) in Snow Sports Area Near Donner Summit---	1936	Feb.	Cover
State Route No. 37 (U. S. 40) Over Sierras, Cleared by Snow Plows-----	1936	March	Cover
Spring Beautifies the Highways---	1936	April	Cover
Grading Angeles Crest Highway, San Gabriel Mountains-----	1936	May	Cover
Spans Across the Bay Join San Francisco and Oakland-----	1936	June	Cover
Scene Near Crest View on East Sierra Highway, State Route 23-----	1936	July	Cover
Pioneer State Highway at Windy Cliff in Kings River Canyon---	1936	Aug.	Cover
Completed Portion of New State Highway in Feather River Canyon, Between Belden and Tobin-----	1936	Sept.	Cover
Widening and Surfacing State Route 34 Along North Shore of Lake Tahoe-----	1936	Oct.	Cover
San Francisco-Oakland Bay Bridge Dedication Number-----	1936	Nov.	Front and Back Cover
Cantilever Span and East Bay Ap- proach Structure as Seen from Yerba Buena Island---	1936	Nov.	Inside Front Cover
Composite Highway and Bridge Scenes-----	1936	Dec.	Front and Back Cover
Flotation Cylinder Caissons of San Francisco-Oakland Bay Bridge (Three Views)-----	1936	Dec.	Inside Front Cover
Craemer, Justus F., Assistant Direc- tor, Department of Public Works-----	1936	April	1

	Year	Month	Page
Cutler, Thomas Henry, New President of American Association of State Highway Officials-----	1936	Dec.	13

## D

## Dedications

## Bridges

Redding Bridge, Earl Lee Kelly, Director of Public Works, Mayor W. B. Menzel of Redding, and Others (Group) (Two Views) -----	1936	Jan.	15
San Francisco-Oakland Bay Bridge			
Golden Chain Barrier Severed by Governor Merriam at San Francisco End of Bridge. Chief of Police Quinn, Earl Lee Kelly, Director of Public Works, C. H. Purcell, State Highway Engineer, Senator McAdoo, Governor Merriam, Former President Herbert Hoover, and Others (Group)	1936	Nov.	5
Tower Bridge Over Sacramento River, Sacramento, Governor Merriam Officiating. Earl Lee Kelly, Director of Public Works, Arthur Ferguson, Mayor of Sacramento and Others (Group) (Four Views) -----	1936	Jan.	3
Governor Merriam Holding Pigeon -----	1936	Jan.	3
Building			
Camarillo State Hospital Opened. Governor Merriam, Harry Lutgens, Director of Institutions and Others (Group) (Two Scenes) -----	1936	Nov.	33
Highway			
American Canyon Cut-off Opened to Traffic (Group) (Three Views) -----	1936	Nov.	29
Calwa Overpass Opened to Traffic. E. J. Neron, Deputy Director of Public Works, Z. S. Leymel, Mayor of Fresno, Harry Hopkins, Chairman, California Highway Commission, and Others (Group) (Three Views) -----	1936	Oct.	27

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Dedications—Continued.			
Highway—Continued.			
Redlands Central Avenue Ceremonies. Earl Lee Kelly, Director of Public Works, E. Q. Sullivan, District Engineer, H. A. Hopkins, Chairman, California Highway Commission and Others (Group) -----	1936	Feb.	25
(Six Views) -----	1936	Feb.	5
Salinas Underpass Opened by Governor Merriam. Earl Lee Kelly, Director of Public Works, Justus F. Craemer, Assistant Director of Public Works, and Others (Group) (Three Views) (Sketch)---	1936	Sept.	3
Santa Monica Tunnel, Opened for Traffic. Earl Lee Kelly, Director of Public Works, Frank C. Balfour, Right of Way Agent, Mayor W. H. Carter of Santa Monica and Others (Group) (Two Views)	1936	Feb.	7
Tracy Overpass Opened to Traffic, Director Earl Lee Kelly Officiating. Fred Herzog, Mayor of Tracy, Congressman Buck, Earl Lee Kelly, Director of Public Works, and Others (Group) (Three Views) -----	1936	Oct.	7
Dennis, T. H., Maintenance Engineer	1936	March	1
Also -----	1936	Dec.	10
<b>E</b>			
Emigrant Wagon Road			
Map Showing Marlette and Day Surveys -----	1936	July	10
Tahoe to Placerville (Wood Cut From Albert D. Richardson's Book, "Beyond the Mississippi") -----	1936	July	11
<b>F</b>			
Fifth Street Plaza Looking East on Bridge -----	1936	Nov.	11
Figueroa Street			
Tunnel Scenes (Two Views)-----	1936	Feb.	13
Viaduct (Sketch) -----	1936	Feb.	12-13
Fremont-Foxen Memorial			
San Marcos Pass and Gaviota Pass (Sketch) -----	1936	Aug.	7
Scenes at Dedication of, Benton Fremont, Grandson of John Foxen Cooper and Mrs. Matilda Foxen Carteri-----	1936	Aug.	7

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Friant Dam Site-----	1936	Oct.	16-17
Location of Dam and Distribution System by Madera and Friant-Kern Canals (Sketch)	1936	Oct.	17
Official Group at State Water Project at Sacramento, Earl Lee Kelly, Director of Public Works, Spencer Burroughs, Attorney, Division of Water Resources, A. B. Tarpey, Irrigation District President, Fresno, and Others (Group)	1936	Oct.	16

## G

Geodetic Survey Leveling Party-----	1936	April	23
Gilchrist, Gibb, State Highway Engineer of Texas -----	1936	Dec.	22
Golden Gate Bridge Marin Approach Ground Breaking Ceremonies Governor Merriam Operating Shovel; at Microphone-----	1936	May	5
Grade Crossing Elimination of on Golden State Highways and S. P. R. R. at Delano (Two Views, Old and New) -----	1936	Aug.	11
Grade Separations Colton Subway Route 43, Completed (Two Views) (Sketch)-----	1936	July	14
Dedication at Tracy. Earl Lee Kelly, Director of Public Works; Fred Herzog, Mayor of Tracy; R. E. Pierce, District Engineer; Congressman Buck, and Others (Group)--	1936	Oct.	7
Indio Project, State Highway No. 26 Inland Route Through Coachella and Imperial Valleys to Calexico (Three Views) -----	1936	June	21
Jibboom Street and Bridge Approach Project in Sacramento (Two Sketches) -----	1936	July	4-5
Mission Road (Photo and Drawing, Courtesy of Los Angeles Times) -----	1936	May	21
Newport, on State Route No. 60 (Sketch and View)-----	1936	Sept.	10-11
Overpass at Tracy, State Route No. 50, Opened to Traffic (Three Views) -----	1936	Oct.	7
Under Construction Firestone Boulevard Overpass in Los Angeles -----	1936	May	3
Near Beaumont, Route 19 (Two Views) -----	1936	May	3
Near Indio, Overhead-----	1936	May	3

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Grumm, Fred J., Engineer Surveys and Plans, Division of Highways -----	1936	Dec.	30

## H

Hart, William T., Appointed California Highway Commissioner -----	1936	July	18
Highway Alignment			
Conejo Grade (Sketch)-----	1936	June	14
Cuts and Fills on Conejo Grade (Three Views)-----	1936	June	15
Angeles Crest Construction Scenes (Three Views)-----	1936	Aug.	3
Link (Sketch)-----	1936	Aug.	2
San Gabriel Mountains Grading Scenes -----	1936	May	Cover
Arroyo Seco Parkway, View of Proposed -----	1936	Aug.	4, 25
Birds-eye View of Proposed Arroyo Seco Parkway (5 Sketches) -----	1936	Aug.	5
Belden to Tobin, Completed Portion of New State Highway in Feather River Canyon-----	1936	Sept.	Cover
Big Pines Road, Connecting Los Angeles County Park at Big Pines With San Bernardino-Lancaster Highway at Head of Cajon Valley (Three Views) (One Sketch)-----	1936	Aug.	27
Bridges			
Downieville, New Reinforced Concrete -----	1936	April	13
Old Jersey Bridge-----	1936	April	13
Feather River Canyon Highway at Pulga-----	1936	March	11
Tobin Bridge (Two Views)---	1936	March	11
Lodi-Rio Vista Cut-off. Ground Breaking Ceremonies for New Drawbridge. Earl Lee Kelly, Director of Public Works; Harry A. Hopkins, Chairman, California Highway Commission; R. E. Pierce, District Engineer, and T. A. Reardon, California Highway Commissioner -----	1936	April	21
Redding Bridge Across Sacramento River (Sketch)-----	1936	Jan.	14
(Two Views)-----	1936	Jan.	15
Calwa Overpass South of Fresno, Where A. T. S. Fe Crosses U. S. 99			
Construction Scenes-----	1936	Aug.	9

Highway—Continued.	Year	Month	Page
Colton—Street Widened to Permit Parallel Parking -----	1936	June	7
Crest View on East of Sierra High- way, State Route No. 23----	1936	July	Cover
Death Valley Highways			
Cloudbursts Damage to State Highway Route No. 127----	1936	Oct.	5
Shoshone, Eastern Approach----	1936	Oct.	5
Surfacig Projects (Five Views)---	1936	Feb.	17
Towne Pass, the Western Gate- way (Two Views)-----	1936	Oct.	5
Desert, near Calexico (Three Views) (One Sketch)-----	1936	May	11, 12
Donner Summit, State Highway No. 37 (U. S. 40), Snow Sports Area-----	1936	Feb.	Cover
Double Line and Warning Sign (Three Views)-----	1936	June	9
Erosion Control on Angeles Crest Highway -----	1936	Aug.	3
Evolution of a Highway			
San Diego Exposition Exhibit (Two Views)-----	1936	Feb.	29
Figueroa Street Tunnel Scenes (Two Views)-----	1936	Feb.	13
Flood Scenes on U. S. 99 and 123, South of Merced (Six Views)	1936	March	7, 19
Gaviota Pass, Santa Barbara Coun- ty, State Highway No. 2 (Coast Route)-----	1936	Jan.	Cover
Grapevine Canyon Completed Be- tween Fort Tejon and Lebec (Four Views) (Sketch)-----	1936	Oct.	8, 9
Icy Mountain, Highway Mainte- nance Equipment Used for Sanding -----	1936	March	25
Joint Filler -----	1936	Sept.	15, 16
Kings River Canyon Construction Work (Three Views)-----	1936	July	29
Pioneer State Highway at Windy Cliff -----	1936	Aug.	Cover
Lake Tahoe. North Shore Widen- ing and Surfacing Scenes Along State Route No. 34---	1936	Oct.	Cover
Map of Route Taken by John C. Fremont and Party-----	1936	Aug.	7
Merced Highways, Routes 4, 18 and 123 (Sketch)-----	1936	March	6
Niles Project in Alameda County (View) (Sketch)-----	1936	Sept.	5
Nojoqui Grade on U. S. 101 Be- tween Las Cruces and Buel- ton in Santa Barbara County	1936	Oct.	10



Highway—Continued.	<i>Year</i>	<i>Month</i>	<i>Page</i>
Overpass, Calwa, Opening Ceremonies. Earl Lee Kelly, Director, Department of Public Works; Z. S. Leymel, Mayor of Fresno; H. A. Hopkins, Chairman, California Highway Commission; E. J. Neron, Deputy Director, Department of Public Works, and Others (Three Views) (Group) -----	1936	Oct.	27
Parallel Parking Through Colton (One View) -----	1936	June	7
Pavement Buttons -----	1936	Sept.	13
Davis Underpass Showing Pavement Buttons			
Day Photograph -----	1936	Sept.	13
Night Photograph -----	1936	Sept.	13
Realignment			
American Canyon Cut-off (Sketch) -----	1936	Sept.	6
Paving Scenes (Four Views) --	1936	Sept.	7, 8
Central Avenue in Redlands (Sketch) -----	1936	Feb.	4
Cuesta Grade Project (Five Views) -----	1936	July	3
Desert Highway Near Calexico (Sketch) -----	1936	May	12
Downieville (Sketch) -----	1936	April	19
Golden Gate Bridge, Marin Approach (Sketch) -----	1936	May	6
Grapevine Canyon from Fort Tejon to Lebec (Sketch) -----	1936	Oct.	8
Indio-Palm Springs, Elimination of Curves -----	1936	June	11
"San Jacinto Angel" From Highway North of Indio-Palm Springs (Photo by Frashear) -----	1936	June	11
Transportation Scenes Through Date Gardens and Orchard Districts -----	1936	June	11
Midway Wells-Calexico Desert Highway Link Construction Views (Four) -----	1936	May	11
Redlands-Colton Project (Sketch)	1936	June	6
San Marcos Pass Completed (Three Views) -----	1936	Jan.	5
Reconstruction			
Sacramento-San Francisco Arterial. Between Tower Bridge and Yolo Causeway Almost Completed (Four Views) ---	1936	Oct.	19
Redlands. Improvement of Central Avenue, Before and After (Six Views) -----	1936	Feb.	5

Highway—Continued.	Year	Month	Page
Relocation			
American Canyon Cut-off Opened. (Three Views)-----	1936	Nov.	29
Cuesta Grade, Proposed Change (Sketch)-----	1936	July	2
Fairfield to Vacaville on U. S. 40. Showing Construction Equip- ment (Four Views)-----	1936	Aug.	21
Opening Ceremonies, American Canyon Cut-off. Governor Frank F. Merriam, F. J. Grumm, Engineer of Surveys and Plans; Senator McCor- mack, Rio Vista; R. E. Pierce, District Engineer; E. J. Neron, Deputy Director of Public Works, and Others (Group)-----	1936	Nov.	29
Orchard Line Change U. S. 40, South of Vacaville (Sketch)	1936	Aug.	20
San Marcos Pass Construction Scene-----	1936	Aug.	8
U. S. 91, Last Desert Link On, Under Construction			
Mountain Pass to Las Vegas, Nevada (Sketch)-----	1936	Oct.	24, 25
Ivanpah Dry Lake-----	1936	Oct.	25
Rincon Section Coast Highway Be- tween Ventura and Carpin- teria-----	1936	Oct.	11
Salinas Underpass, Opened by Gov- ernor Merriam, Earl Lee Kelly, Director of Public Works, Justus F. Craemer, Assistant Director, and Others (Group) (Three Views)-----	1936	Sept.	3
San Marcos Pass-----	1936	Aug.	7
Slides and Washouts of 1935			
Golden State Highway, Shoulders Washed Out by Flood Near Merced-----	1936	April	9
Mountain Stream Diverted by Blocked Culvert Wrecking Highway-----	1936	April	9
Mud Slide on Coast Highway in Mendocino County-----	1936	April	9
San Marcos Pass Closed by Rock Slides-----	1936	April	7
Trinity County-----	1936	April	7
Van Duzen River Washout, State Route No. 35-----	1936	April	7
Spring Beautifies the Highways-- State Route No. 37 (U. S. 40) Over the Sierras, Cleared by Snow Plows-----	1936	March	Cover

Highway—Continued.	Year	Month	Page
Widening Coast Highway Between Santa Monica and Oxnard Little Grand Canyon (Two Views) -----	1936	March	23
Hopkins, Harry A., Chairman, California Highway Commission	1936	Feb.	8

## I

Illumination of Bridge by Sodium Vapor System -----	1936	Nov.	8
In Memoriam			
Hamilton, C. D., Member, California Highway Commission	1936	May	27
Mead, Dr. Elwood, U. S. Reclamation Service -----	1936	March	9
In the Field With the Old Timers			
East, E. E., Chief Engineer, Automobile Club of Southern California -----	1936	June	26
Old Highway Scenes (Four Views)	1936	June	27
Oregon Stage Road Shasta County in 1912 -----	1936	July	24
Oregon Trail Over Scott Mountain in 1912 -----	1936	Aug.	22
Surveying Party Working on Bluff Near Delta, Shasta County, Locating Pacific Highway Through Sacramento River Canyon -----	1936	July	25
Ten-team Freight Outfit Hauling Supplies for Highway Crews, Shasta County, 1914 -----	1936	July	24

## J

Jasper, Paul G., Member, California Highway Commission -----	1936	May	9
Judah, H. R., Member, California Highway Commission -----	1936	May	8

## K

Kelly, Earl Lee, Director of Public Works			
Tower Bridge Dedication at Sacramento (Group) -----	1936	Jan.	3
Redding Highway Bridge Dedication (Group) -----	1936	Jan.	15
"Money Well Spent." View on Catwalk (Group) -----	1936	Jan.	21
Director of Public Works -----	1936	Feb.	1
Santa Monica Tunnel (Group) -----	1936	Feb.	7
Redlands Highway Link Dedicated (Group) -----	1936	Feb.	25

	Year	Month	Page
Kelly, Earl Lee, Director of Public Works—Continued.			
Lodi-Rio Vista Ground Breaking (Group) -----	1936	April	21
Laying Cornerstone Public Works Building (Two Groups) ----	1936	June	3
Salinas Underpass (Group) ----	1936	Sept.	3
Tracy Grade Separation Dedication (Group) -----	1936	Oct.	7
San Francisco Bay Bridge Opening. Oakland (Group) -----	1936	Nov.	1
Also -----	1936	Nov.	5
Director Public Works -----	1936	Nov.	12
California Toll Bridge Authority (Group) -----	1936	Nov.	13
American Canyon Cut-off (Group)	1936	Nov.	29
American Association State High- way Officials (Group) -----	1936	Dec.	16
Delegates to American Association State Highway Officials Con- vention (Group) -----	1936	Dec.	20-21
Official Welcome to Delegates of Convention (Group) -----	1936	Dec.	35

## L

Lodi-Rio Vista Cut-off			
Ferry-boat on Potato Slough -----	1936	April	21
Ground Breaking Ceremonies (Group) -----	1936	April	21
Proposed Cut-off (Sketch) -----	1936	April	20

## M

MacDonald, Thomas H. Chief, U. S. Bureau of Public Roads ----	1936	Jan.	8
Maintenance			
Spraying Vegetation on Roadsides-	1936	Feb.	11
Map (Old)			
Marlette & Day Surveys, for Emi- grant Wagon Road -----	1936	July	10
Markham, W. C., Executive Secretary American Association State Highway Officials -----	1936	Nov.	30
Mastodon Bones			
PWA Employees Exhibit Bones Found in Orange County on Highway Project -----	1936	July	7
Merriam, Governor Frank F. -----	1936	Oct.	1
At Microphone, Dedication Cere- monies San Francisco-Oak- land Bay Bridge -----	1936	Nov.	14
Holding Pigeon at Tower Bridge Dedication at Sacramento ---	1936	Jan.	3
Operating Shovel and at Micro- phone, Marin Approach to Golden Gate Bridge Ground Breaking Ceremonies -----	1936	May	5

	Year	Month	Page
"Money Well Spent," Declared Jesse Jones, Chairman RFC. Also Leland Cutler, Vice Chairman of the Financial Advisory Committee for the San Francisco-Oakland Bay Bridge; Earl Lee Kelly, Director of Public Works; C. H. Purcell, Chief Bridge Engineer, on Catwalk of San Francisco-Oakland Bay Bridge -----	1936	Jan.	21
Motion Picture in Color. Scenes from "California Highways" -----	1936	Oct.	21
Murrow, Lacy V., Director of Highways, Washington -----	1936	Dec.	6

## N

Neron, E. J., Deputy Director, Department of Public Works -----	1936	June	1
Newport Beach: Santa Ana Road Project (Sketch and View) -----	1936	Feb.	21

## O

Old Timers Club			
Hanson, George C. -----	1936	Feb.	31
Stover, H. C. -----	1936	Feb.	31
Old Timers Contest			
Headquarters Engineering Personnel in 1914 (Group) -----	1936	April	29
In the Field in 1913, Charles M. Butts and Others -----	1936	March	29
Overhead			
Dangerous Curves Eliminated Over Santa Ana River at Colton (Two Views, North and South Ends) -----	1936	June	7
Overpass			
Calwa, Opened (Three Views) -----	1936	Oct.	27

## P

Palomar Mountain			
Contractors' Camp -----	1936	April	5
Construction on Palomar Highway, Map Showing -----	1936	April	5
Existing Trail to Observatory Site on Mountain -----	1936	April	5
Observatory Site in San Diego County -----	1936	April	3
Telescope -----	1936	April	3
Potato Slough, Ferry Boat -----	1936	April	21
Project, Proposed, Between Palm Springs and Indio (Map) -----	1936	June	10

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Public Works Building Cornerstone Laying (Four Views)-----	1936	June	3
Sketch of Building and Ground Floor Plan -----	1936	June	5
Purcell, C. H., Chief Engineer of Bay Bridge -----	1936	Oct.	2
Also -----	1936	Nov.	22
Picture Reproduced Through Courtesy of California Magazine of Pacific Business (Shadow)	1936	Nov.	6
Purcell, Mrs. C. H., Mrs. Geo. McCoy and Mrs. Earl Lee Kelly, Hostesses, American Association of State Highway Officials Convention -----	1936	Dec.	14

## R

Realignments			
American Canyon Cut-off (Sketch)	1936	Sept.	6
Central Avenue in Redlands (Sketch) -----	1936	Feb.	4
Cuesta Grade Project (Five Views)	1936	July	3
Desert Highway Near Calexico (Sketch) -----	1936	May	12
Downieville (Sketch) -----	1936	April	19
Grapevine Canyon From Fort Tejon to Lebec (Sketch) -----	1936	Oct.	8
Indio-Palm Springs			
Elimination of Curves-----	1936	June	11
Map Showing Relocation-----	1936	June	10
"San Jacinto Angel." from Highway North of Palm Springs (Photo by Thrasher)-----	1936	June	11
Transportation Scenes Through Date Gardens and Orchard Districts -----	1936	June	11
Marin Approach to Golden Gate Bridge (Sketch) -----	1936	May	6
Through Sausalito (Three Views)	1936	May	7
Paving Scences on American Cut-off (Four Views) -----	1936	Sept.	7, 8
Redlands-Colton Project (Sketch)-----	1936	June	6
San Marcos Pass Completed (Three Views) -----	1936	Jan.	5
Reardon, T. A., Member, California Highway Commission -----	1936	May	13
Redding Bridge Across Sacramento River (Sketch) -----	1936	Jan.	14
Redding, Sacramento River (Two Views) -----	1936	Jan.	15
Redlands			
Improvement of Central Avenue, Before and After (Six Views) (Group) -----	1936	Feb.	5, 25
Relocations			
Cuesta Grade, Proposed Change (Sketch) -----	1936	July	2

Relocations—Continued.	Year	Month	Page
Fairfield-Vacaville (U. S. 40) Showing Construction Equipment (Four Views) -----	1936	Aug.	21
Opening Ceremonies American Canyon Cut-off, Governor Frank F. Merriam, F. J. Grumm, Engineer of Surveys and Plans, Senator McCormack, Rio Vista, R. E. Pierce, District Engineer, E. J. Neron, Deputy Director, Department of Public Works, and Others (Group) (Three Views) -----	1936	Nov.	29
Orchard Line Change, U. S. 40 South of Vacaville (Sketch)	1936	Aug.	20
San Marcos Pass Construction Scene -----	1936	Aug.	8
Right of Way Men at Conference (Two Groups) -----	1936	May	23
Roos, D. G., Technical Advisor, The Studebaker Corporation ----	1936	Dec.	12
Roussel, Julien D., Secretary Highway Commission -----	1936	May	10

## S

Sacramento River Flood Waters (Three Views) -----	1936	Feb.	3
Safety for Icy Pavements Sand Spread on Pavements, Equipment for, in Maintenance Department (Five Views) -----	1936	March	25
Salinas Grade Crossing Before Improvement -----	1936	Sept.	2
San Francisco-Oakland Bay Bridge "A"-frame Anchorage Atop Central Anchorage Pier -----	1936	June	13
Burning Barriers; Governor Merriam Opens Bay Bridge on Oakland Side Governor Merriam, Earl Lee Kelly, Director of Public Works, C. H. Purcell, State Highway Engineer, and Others (Group) -----	1936	Nov.	1
Cable Wrapping (Three Views) --	1936	June	13
Cantilever Span (Three Views) --	1936	Nov.	18-19
Cantilever Span and East Bay Approach Seen from Yerba Buena Island -----	1936	Nov.	Inside Cover
Chevalier, Col. Willard, President American Road Building Association, Thumbs First Ride Over East Bay Crossing from C. H. Purcell, State Highway Engineer -----	1936	July	19

San Francisco-Oakland Bay Bridge— Continued.	Year	Month	Page
Closing the Cantilever Span on East Bay (Three Views)---	1936	April	17
Cross Section Views of East Bay Approach (Sketches) -----	1936	Dec.	31
Dedication Ceremonies			
Fifth Street Plaza, San Fran- cisco -----	1936	Nov.	15
Governor Merriam Severs Golden Chain Barrier at San Francisco End of Bridge, Chief of Police Quinn, Earl Lee Kelly, Director of Public Works, C. H. Purcell, State Highway Engineer, U. S. Senator McAdoo, The Gov- ernor, Former President Her- bert Hoover, and Others (Group) -----	1936	Nov.	5
Oakland Side -----	1936	Nov.	15
Speakers Platform, 5th Street Plaza, Lieutenant Governor Hatfield and Others (Group)	1936	Nov.	15
Distribution Structure, East Bay, Showing Grade Separations (Aerial View) -----	1936	Nov.	27
East Bay Approach-----	1936	Dec.	31
East Suspension Span Approach- ing Tunnel -----	1936	Nov.	18-19
Finishing Scenes			
Fifth Street Plaza With "Off" Ramp to Clementina and First Street -----	1936	Oct.	3
Fifth Street Plaza Showing "On" Ramp From Harrison and Fremont -----	1936	Oct.	3
Lower Deck for Trucks and Railway Cars (Two Views)-	1936	Oct.	3
Top Deck Entrance to Tunnel Through Yerba Buena Island -----	1936	Oct.	3
Upper Deck, Finished-----	1936	Oct.	3
Flotation Cylinder Caissons (Three Views) -----	1936	Dec.	Inside Cover
Fresnel Light Standard and Lamp -----	1936	Nov.	18-19
From Fifth Street Plaza, Ap- proach to Bridge (Aerial Photograph, With Interurban Trains Sketched In)-----	1936	Nov.	25
Landscaping Plan (Two Views)	1936	Sept.	19
Looking East on Bridge From Fifth Street Plaza -----	1936	Nov.	11
Highway Patrol Detail. E. Ray- mond Cato, Chief, Captain Rudy Schmoke, Captain A. Paquette and Others-----	1936	Nov.	31



San Francisco-Oakland Bay Bridge— Continued.	Year	Month	Page
Illuminated: Cat Walk Construction, Lights Facilitate	1936	March	15
Illumination of Bridge by Sodium Vapor System	1936	Nov.	8
Lower Deck, Showing Three Truck Lanes	1936	Nov.	18-19
Main Cable on East Suspension Showing Suspender Cables	1936	Nov.	19
"Money Well Spent," Remarkd Jesse Jones, Chairman RFC. With Earl Lee Kelly, Director of Public Works, C. H. Purcell and Leland F. Cutler, On Catwalk	1936	Jan.	21
Panorama of Entire Bridge From Berkeley Looking From Golden Gate	1936	Nov.	18-19
Sections of Bridge Hung to Cables (Three Views)	1936	Jan.	19
San Francisco and Oakland Joined by Spans Across the Bay	1936	June	Cover
Span Across the Bay at Eventide Taken From Water Level, Shows Suspension Spans	1936	Nov.	2
Terminal (Two Sketches)	1936	Feb.	19
The Bridge	1936	Nov.	Cover
Toll Plaza and Administration Building (Three Views)	1936	Aug.	13
Trusses Ferried on Barges (Sketch)	1936	Jan.	18
View Taken from San Francisco Side (Shadow)	1936	Oct.	1
View Taken From Yerba Buena Island, San Francisco in Background	1936	Nov.	17
West Bay Crossing	1936	July	19
Wheels Over San Francisco Bay, Showing Six Traffic Lanes, From Yerba Buena Island to San Francisco	1936	Nov.	3
Yerba Buena Tunnel-Night Scene, Sodium Vapor Lamps	1936	Nov.	23
Top Deck Entrance	1936	Nov.	18-19
San Marcos Pass Between Los Olivos and Santa Barbara (Sketch)	1936	March	17
Restored Sisquoc Church	1936	Aug.	7
Scenes Between Santa Ynez and Los Olivos in Santa Barbara County	1936	March	17
Santa Monica Tunnel (Sketch)	1936	Feb.	6
Snow Fighting on Donner Summit, U. S. 40 (Three Views)	1936	March	3
Snowfall on Highways in Washington	1936	Dec.	7
Soil Sampler, Porter Type	1936	July	13, 20
Sorrell, Mrs. Frank W., Chairman Texas Citizens' Highway Beautification Organization	1936	Dec.	28

	<i>Year</i>	<i>Month</i>	<i>Page</i>
Spring Cleaning Scenes on the Highway (Five Views)-----	1936	Feb.	11
Stabilometer and Cohesimeter, by F. N. Hveem, Associate Physical Testing Engineer, Laboratory, Sacramento-----	1936	Jan.	11, 23
Sunset Boulevard, Los Angeles County Burning Operations on Resurfacing Job (Three Views)-----	1936	Jan.	27

## T

Toll Plaza on Oakland Side-----	1936	Nov.	4
Toms, R. E., Chief, Division of Design, U. S. Bureau of Roads-----	1936	Dec.	25
Transplanting and Reforestation Operations (Five Views)---	1936	May	25
<i>Trees</i>			
Treating for Western Pine Beetle (Three Views)-----	1936	April	11
<i>Trucks on Highway</i>			
Altamont Pass Scene-----	1936	March	5
Grapevine Canyon, Kern County---	1936	March	5
U. S. 99, Near Banning-----	1936	March	5
True, James B., Vice President, American Association of State Highway Officials-----	1936	Dec.	13
Tunnel Blast, Feather River Scenes; Engineer C. S. Pope and Others (Four Views)-----	1936	May	17
Tunnel, Santa Monica, Completed and Dedicated (Group) (Two Views)-----	1936	Feb.	7
Tunnel Station, State Route 4, Bridge Reconstruction Scenes, Before and After (Two Views)-----	1936	June	25
Tunnel Grizzly Dome (Sketch)-----	1936	May	18

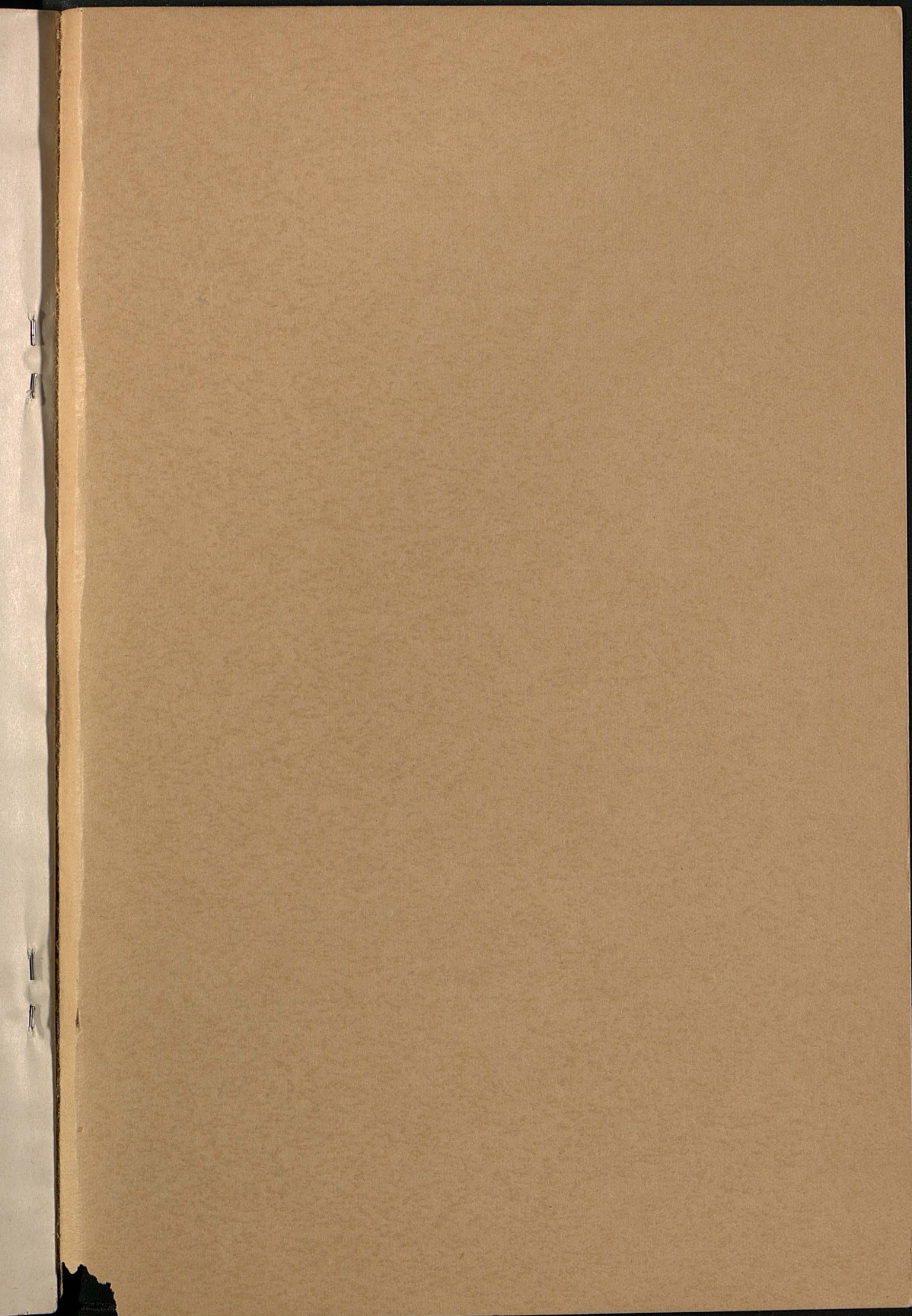
## U

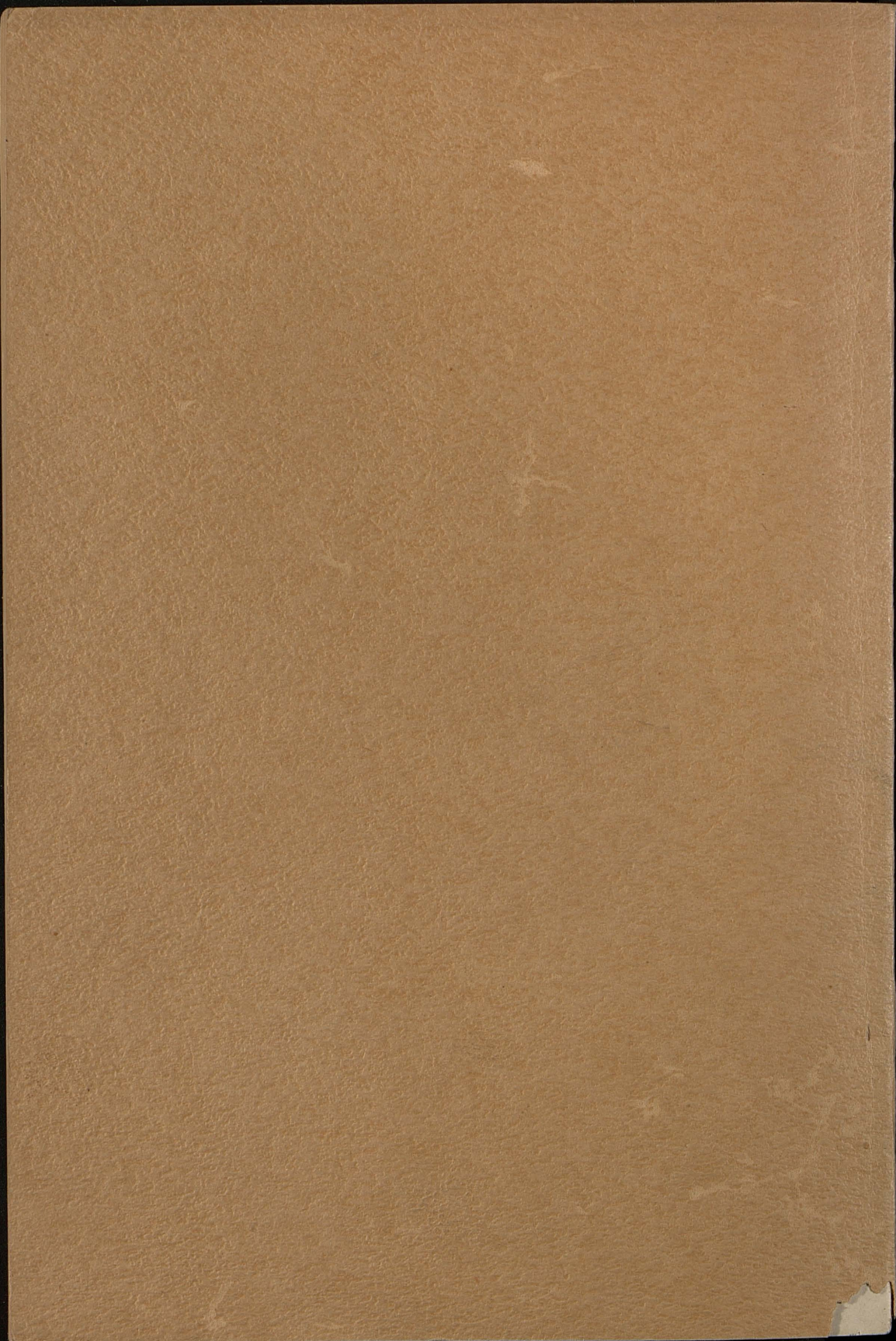
Underpass, South San Francisco, Before and After Widening (Three Views)-----	1936	April	25
--	------	-------	----

## W

Wheels Over San Francisco Bay--View of San Francisco-Oakland Bay Bridge from Yerba Buena Island to San Francisco-----	1936	Nov.	3
Woodruff, G. B., Engineer of Design--San Francisco-Oakland Bay Bridge-----	1936	Nov.	21

## O





inches

centimeters

0 1 2 3 4

0 1 2 3 4

16(M) 17 18(B) 19 20 21 22 23 24 25 26 27 28 29 30

L*	39.12	65.43	49.87	44.26	55.56	70.82	63.51	39.92	52.24	97.06	11.61	12	13	14	15
a*	13.24	18.11	-4.34	-13.80	9.82	-33.43	34.26	11.81	48.55	-0.40	-0.60	0.73	-1.06	-1.19	-1.07
b*	15.07	18.72	-22.29	22.85	-24.49	-0.35	59.60	-46.07	18.51	1.13	0.23	0.21	0.43	0.28	0.19
Density										0.04	0.09	0.15	0.22	0.36	0.51

D50 Illuminant, 2 degree observer

Golden Thread

L*	38.12	65.43	49.87	44.26	55.56	70.82	63.51	39.92	52.24	97.06	11.61	12	13	14	15
a*	13.24	18.11	-4.34	-13.80	9.82	-33.43	34.26	11.81	48.55	-0.40	-0.60	0.73	-1.06	-1.19	-1.07
b*	15.07	18.72	-22.29	22.85	-24.49	-0.35	59.60	-46.07	18.51	1.13	0.23	0.21	0.43	0.28	0.19
Density										0.04	0.09	0.15	0.22	0.36	0.51

Colors by Munsell Color Services Lab