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Traffic Survey

Los Angeles Metropolitan Area Nineteen Hundred Thirty-seven

LOS ANGELES TRANSIT LINES,



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Report No. 549

Presented to Mr. T. B. Harris

Date Feb. 17, 1938

CHIEF ENGINEER FEB 18 1938

Traffic Survey

Los Angeles Metropolitan Area Nineteen Hundred Thirty-seven



Engineering Department

AUTOMOBILE CLUB of SOUTHERN CALIFORNIA

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Foreword

Automobile Club of Southern California early in January 1937 instructed its Roads and Highways Committee to undertake a comprehensive traffic survey in the metropolitan area of Los Angeles for the purpose of formulating and submitting recommendations for the betterment of street and highway traffic conditions therein. The data accumulated during the course of this survey, analysis of same and recommendations based thereon are the subject matters of this report.

STANDISH L. MITCHELL

General Manager

Automobile Club of Southern California

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GENERAL HEADQUARTERS-FIGUEROA STREET AT ADAMS-LOS ANGELES

MAIL ADDRESS ARCADE STATION BOX 690 LOS ANGELES

December 16, 1937

To the President and Members of the Board of Directors Automobile Club of Southern California Los Angeles, California

Your Roads and Highway Committee begs to submit the following report of a traffic survey covering the Los Angeles metropolitan area, together with recommendations for the betterment of street and highway traffic conditions therein.

It is apparent to even the most casual observer that in spite of the large sums of money which have been and are being expended in improvements, the streets and highways of the Los Angeles area are daily becoming more difficult and hazardous to travel. It is also apparent that this growing congestion and accident toll is the direct result of an attempt to serve both abutting property and through traffic upon the same street or highway. Your Committee is convinced that the only permanent solution is to provide facilities for the exclusive use of motor vehicles.

In recommending the acquisition of a network of motorways to serve the transportation requirements of the Los Angeles area, we are mindful of the fact that the cost will be great. On the other hand, we are convinced that if a solution of this problem is not made the resulting loss in dollars and cents through increased operating costs, loss of life, injury to persons, property damage and ultimate readjustment of the economic life of the area will far exceed the cost of these facilities.

We wish to emphasize that the Los Angeles area has grown up with the automobile. Motor vehicle transportation has shaped its growth to the extent that the business and social life of the area is today vitally dependent upon the motor vehicle for the major part of its transportation. If street and highway congestion continues to increase, the day is not far distant when the automobile will in many parts of the area have lost its usefulness. At this time, the economic loss resulting from readjustment alone will have reached a staggering

The destiny of the Los Angeles area has ceased to be a matter of speculation. It is now conceded by all who have watched its growth that it will become one of the largest population and commercial centers of the world. Future orderly growth is vitally dependent upon the establishment of a system of transportation lines serving all parts of the area.

The first step toward a solution of the street and highway transportation problem of the Los Angeles area is the adoption by its citizens of a physical plan covering the entire area. The second step is the adoption of a financing plan which will distribute the cost equitably among the taxpayers of the area, and third the setting up of a single administrative authority to develop the plan.

We are not including a financing plan at this time. We have, however, given sufficient study to this problem to say the physical plan herein recommended can be financed without placing an undue burden upon any group of taxpayers and if the citizens of the metropolitan area should adopt these recommendations or modifications thereof a detailed financing plan will be presented for consideration.

Respectfully submitted.

Henry W. Keller, Chairman, Roads and Highways Committee





TRAFFIC SURVEY

LOS ANGELES METROPOLITAN AREA

1937



By

ENGINEERING DEPARTMENT AUTOMOBILE CLUB OF SOUTHERN CALIFORNIA

Extent of Survey

Former studies of the ever-growing street traffic problem of Los Angeles have been confined, in general, to the area included within the city's boundaries and in particular to the central business district. With the rapid growth and spread of population and business activity during recent years, the problem has not only grown in intensity within the city proper but has spread far into contiguous territory where in many sections street congestion, traffic delays and hazard to life and property are as great as in the central traffic district of the City of Los Angeles. This study deals with the traffic problem of Los Angeles and its contiguous territory.

The Metropolitan Area

The Los Angeles metropolitan area as outlined for the purposes of this survey is bounded on the north by the foothills of the San Gabriel Mountains, on the east by the Los Angeles County line, on the south and southwest by the Pacific Ocean and on the west by the west city limits of the City of Los Angeles. It has an area of about 1,235 square miles, or 31% of the county total, and is that portion of Los Angeles County generally referred to as the coastal plain. This coastal plain region occupies a strategic position in the transportation net-work of California. Lying as it does between the Pacific Ocean on the south and the San Gabriel Mountains on the north, and having a width of about twenty miles at its narrowest point, it forms a veritable bottleneck through which all

north and south travel must pass. The traffic problem of this area is, therefore, not only a local problem but one of considerable concern to the state as a whole.

Land Subdivision and Use

There are forty-three incorporated cities in the Los Angeles area. These cities have a combined area of 716 square miles, or about 58% of the total. The remaining 42% of the metropolitan area, consisting largely of disconnected parcels varying in size, is under county jurisdiction.

The metropolitan area as herein defined and the incorporated and unincorporated territory therein is shown on Plate No. 1.

The land comprising the Los Angeles area is divided into relatively small parcels by some 11,316 miles of streets and highways. Due to lack of fore-thought on the part of subdividers in the planning and laying out of subdivisions and lack of co-operation between the many governmental bodies in planning and constructing streets and highways, the pattern of the metropolitan area resembles in appearance that of a crazy quilt.

The development of the Los Angeles area was not planned. It just grew by the piecing together through the years of numerous subdivisions. Land use has been determined largely upon the individual owner's guess as to the most profitable use that could be made of his holdings. This guess, confused by the wide-spread use of the automobile as a means of individual transportation, has produced a chaotic intermingling of the vari-



WILSHIRE BOULEVARD AT BONNIE BRAE STREET-TYPICAL OF CONGESTION ON EXISTING MAJOR STREETS

ous land uses throughout the area. In general, land abutting on the principal streets and highways is devoted to commercial and other uses, which directly or indirectly retards the movement of vehicles. There is little stability in either business or residential districts and the streets and highways are congested out of all proportion to service rendered. Blighted residential as well as commercial districts are numerous throughout the area and the process continues.

Transportation Facilities

Transportation of persons within the Los Angeles metropolitan area is divided between street and interurban rail lines, motor buses, taxicabs and passenger automobiles. The transportation service rendered by these facilities can be expressed in terms of operating statistics for the calendar year 1936, which are as follows:

THE LOS ANGELES RAILWAY CORPORATION

Miles of track operated	374.78
Car miles operated	30,809,959
Total passengers carried	
(all classes)	241,983,411
Average haul per passenger	
(estimated)	5 miles
Total passenger miles	1,209,917,055

P

ACIFIC ELECTRIC RAILWAY COMP	ANY
(entire system)	
Miles of track operated	872.91
Car miles operated	18,276,962
Total passengers carried	
(entire system)	64,710,400
Average haul per passenger	
(estimated)	10 miles
Total passenger miles	647,104,000



Bus Lines

T 4	Control of the Contro	7 /	~	0
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Passenger Automobiles

Miles of street operated upon	117
Bus miles operated	7,989,299
Number of passengers carried	
(all classes)	25,222,879
Average haul per passenger	
(estimated)	5 miles
Total passenger miles	126,114,395
PACIFIC ELECTRIC RAILWAY BUS LI	NES
(entire system)	
Miles of street operated upon	211.09
Bus miles operated	7,569,770
Number of passengers carried	
(all classes)	21,151,402
Average haul per passenger	
(estimated)	10 miles
Total passenger miles	211,514,020

The total estimated street and highway travel in California during 1936, based upon gasoline consumed in motor vehicles, was about 17,862,326,250 vehicle miles. Of this amount, about 41%, or 7,323,-553,762 vehicle miles, occurred in Los Angeles County. As determined by the California Highway Transportation Survey, buses and other commercial vehicles account for about 18% of the total street and highway use. Deducting this item from the above leaves about six billion passenger automobile miles. The average number of persons per passenger automobile, as determined from a large number of observations throughout the area, is 1.448. This applied to the passenger automobile miles as noted above gives 8,688,000,000 passenger miles, which represents the transportation service rendered in the Los Angeles metropolitan area through the medium of passenger automobiles and 11,316 miles of streets and highways. SUMMARY OF PASSENGER TRANSPORTATION SERVICE

RENDERED BY RAIL AND BUS LINES AND

Passenger Automobiles:

Rail lines 1,857,021,055 passenger miles Bus lines 337,628,415 passenger miles Passenger automobiles

8,688,000,000 passenger miles

TOTAL 10,882,649,470 passenger miles

Present and Estimated Future Population

The population of Los Angeles County increased from a total of 170,298 in 1900 to 2,690,428 in 1936. Of the total county population in 1900, almost 100%

lived within what has been designated herein as the Los Angeles metropolitan area, and 75% of the total lived within the ten incorporated cities as of that date. Of the total county population in 1936, as determined from the 1936-1937 registration of voters, 99.6% live within the metropolitan area and 87.2% of the county total live within the forty-three incorporated cities, all of which are in the so designated metropolitan area.

The area of the incorporated territory increased from about 112 square miles in 1900 to 716 square miles in 1937. The increase in urban population during this period was 1735%, while the increase in area of incorporated territory was 539%. The increase in population in the rural portion of the Los Angeles metropolitan area between 1900 and 1936 was 450%. We have platted the population growth of the Los Angeles area from 1890 to 1936 and projected this curve to 1950. The population indicated in 1950 is 6,500,000.

It is recognized that in estimating the population of the Los Angeles area at any future date, one guess is as good as another. In a community or state where population growth is determined by the numerical difference between births and deaths, the population at any future time can be estimated with reasonable accuracy. On the other hand, in a growing community where population growth is influenced largely by immigration, the rate at which population increases is determined by economic conditions and the ability of such growing community to assimilate new people.

The Los Angeles area will ultimately include some 2,000 square miles of territory, all of which is highly suitable for human occupation. Allowing twelve persons per acre, the area will accommodate in excess of fifteen million inhabitants without undue crowding. Given this capacity to assimilate new people and the urge to come to California to live which is found among people throughout the United States and many parts of the world, we feel that our estimate of 6,500,000 inhabitants by 1950 is conservative. The growth and directional trend in population between 1924 and 1936 is indicated on Plates No. 2 and No. 3.

Motor Vehicles

Fee paid motor vehicles in Los Angeles County increased from 50,853 in 1914 to 960,416 in 1936. For California as a whole the increase was from 148,225 in 1914 to 2,336,845 in 1936. The 1936 registration in Los Angeles County equaled 40.6% of the

state total. Accurate information is not available as to the distribution of these motor vehicles as between the metropolitan area and remaining county territory, but it is assumed that this distribution is in about the same ratio as population distribution. On this basis we have estimated that there are, including exempt vehicles, buses, taxicabs and vehicles from other California counties and other states, not less than one million motor vehicles in use during some part of each day upon the streets and highways of this area.

Motor vehicle registration in the Los Angeles area during 1936 exceeded total state registration in all but seven states. These states were California, New York, Ohio, Michigan, Illinois, Pennsylvania and Texas. The ratio of population to motor vehicles in the Los Angeles area, based upon the 1936 estimate of population, was 2.8 persons to each registered vehicle. This ratio in Chicago, Detroit, New York and Philadelphia was 8.2, 4.4, 11.6 and 9.0 to 1 respec-

tively. It is believed that the density per square mile of automobile use is greater, particularly in the congested portions of the Los Angeles area, than in any other locality in the United States.

We have estimated that in 1950 there will be 2,-155,000 motor vehicles registered in Los Angeles County. Based upon our estimate of population the ratio of population to registered motor vehicles in 1950 will be about three persons to each registered motor vehicle.

Motor Vehicle Accidents

There were 18,092 motor vehicle accidents reported in Los Angeles County during 1936. This was 49.8% of the state total. These accidents resulted in death or injury to 34,288 persons. Of the total number of motor vehicle accidents occurring in that year in Los Angeles County 16,110 occurred in city territory and 1,982 in rural territory.



ALVARADO STREET AT WILSHIRE BOULEVARD—MIXED TRAFFIC CONTRIBUTES TO CONGESTION





In the six year period from 1931 to 1936 inclusive, a total of 103,044 accidents were reported in Los Angeles County. This is 50.8% of the total fatal and personal injury accidents occurring in the entire state during that period and when compared with a motor vehicle registration in Los Angeles County of 40.6% of the state total, reflects the effect of traffic congestion upon the accident toll. Of the 103,044 fatal and personal injury accidents occurring in Los Angeles County from 1931 to 1936, 70,937 or 68.8% occurred in Los Angeles City, 21,389 or 20.8% occurred within the boundaries of the other cities of Los Angeles County, and 10,718 or 10.4% occurred in the unincorporated areas of the County.

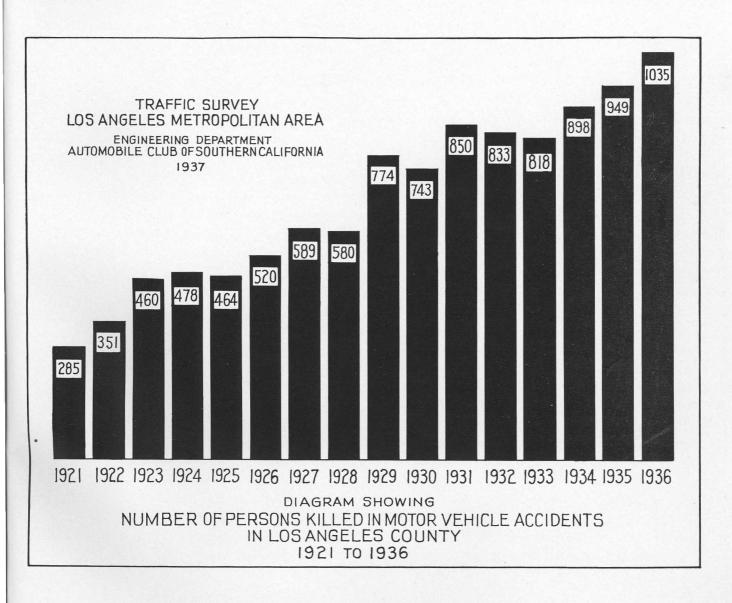
In the period from 1931 to 1936 a total of 5,383 persons were killed and approximately 145,258 were injured in motor vehicle accidents in Los Angeles County, a total of 150,641 men, women and children killed or injured in six years. This is 641 more than the population of the City of Los Angeles in the year 1905.

Growth of the Los Angeles Traffic Problem

The transportation plan of the street and interurban rail lines and the physical features of the Los Angeles area were, in large measure, responsible for its traffic problems of today.

The rail lines of the Los Angeles Railway Corporation and the Pacific Electric Railway Company were extended outward from the central business district like the spokes of a wheel into all parts of the area, thereby encouraging development along radial lines. Thirty-nine of the forty-two incorporated cities of the area, exclusive of Los Angeles, owe their early growth to the transportation service of the Los Angeles and Pacific Electric Railways. All but three of these cities lie within a radius of 25 miles of Seventh and Broadway.

The Los Angeles area is completely surrounded by rugged mountains, low hills and the sea. Entrance to the area by land is from the east, southeast, west and northwest through narrow valleys, mountain



passes and along narrow benches bordering the sea. Within the area are many low ranges and hills and other physical barriers limiting lines of communication to, and in most cases widely separated, natural passes.

The social and business life of the inhabitants of the Los Angeles area was first adjusted to rail transportation. The early use of the automobile therefore was in large part competitive and occasioned a direct loss to the rail lines. This is evidenced by the rapid falling off in number of passengers carried by the rail lines since 1924, the year in which the automobile came to be recognized by most observers as a transportation vehicle rather than a luxury.

Early street and highway development in general followed the rail lines, skirting or passing through physical barriers, but always converging toward a common center. Consequently, and naturally, early automobile travel in the metropolitan area was along somewhat devious but radial lines, converging toward, and terminating in, the central business district. This characteristic of automobile travel in the Los Angeles area was clearly shown by a survey made during the early days of automobile development.

The Automobile Club of Southern California in June 1920 made a check of all automobiles and trucks entering the City of Los Angeles between the hours of 8 A.M. and 6 P.M. The total number of vehicles entering during this period was 21,664. From an analysis of the data secured through this check it was determined that the immediate destination of 97% of the total was the central business district.

The population of the Los Angeles area more than doubled during the decade 1920-1930. The increase was 135.84%, or more than one and a quarter million. During this decade, also, there was a phenomenal growth in manufacturing and commerce. From a position of 27th place among the counties of the United States in value of manufactured goods in 1919, Los Angeles County had moved to sixth place in 1930. According to the United States Census, manufacturing in 1919 employed 61,665 people and the value of manufactured goods was \$417,808,804. By 1929 the number employed had increased to 105,859 and the value of maunfactured goods to \$1,176,775,207, an increase of 71.6% and 181.6% respectively.

Tonnage passing through the Port of Los Angeles is an index to the increase in commerce. This tonnage increased from 3,528,280 tons during 1919 to 25,920,159 tons during 1930. During this period, also,

oil was discovered in the Los Angeles basin. The growth of the motion picture industry was stimulated by the development of talking pictures. Street and highway use increased from about nine hundred million vehicle miles to about five billion vehicle miles annually.

The rapid growth in the popularity of the automobile as a unit for individual transportation discouraged the extension of rail transportation lines. As new districts were developed to accommodate the rapidly increasing population, the area became more and more dependent upon the automobile for transportation.

Rail transportation forces centralization by confining business, industrial and residential development to areas served by such lines. Individual transportation, on the other hand, encourages decentralization, which in turn increases congestion and street and highway hazard. The widely scattered and intermingled shopping, industrial, cultural and residential districts of metropolitan Los Angeles, a condition for which the automobile is directly responsible, make the area peculiarly and vitally dependent upon the automobile for the major part of its transportation service. Today, at least 80% of the daily transportation requirements of the area is supplied by the automobile.

The 1937 Traffic Survey

A knowledge of the number of vehicles passing a given point on a given street or highway during a given period of time is of interest but in itself of little value to the development of an efficient transportation system. The essential information to be obtained is where does each vehicle come from, where is it going and are the transit and terminal facilities adequate for efficient transportation. Obviously, the collection of these data becomes more and more difficult as traffic density increases until finally it becomes necessary to deal with mass movement and component parts rather than with the individual vehicle. Under this method, origin, destination and other required data are obtained through cordon counts and samples selected at random throughout the area.

The traffic survey made by the Automobile Club of Southern California in 1920, which it is believed was the first automobile traffic survey to be made in the United States, established the boundaries of two checking districts. The first, or inner district, designated as the central business district, was bounded by Figueroa, Sunset, Maple and Tenth, and the second, or residential district, included the built up section of

the city proper. The volume of traffic entering and leaving these districts and the basic data for which the origin and destination of traffic was determined, was secured through checking stations located on the boundaries of these districts.

In the 1929 survey the central business district was extended south to Washington Boulevard and east to San Pedro Street and three additional districts established. These districts, which were used in the 1937 survey, are designated and bounded as follows:

DISTRICT NUMBER 1. The central business district, bounded on the north by Sunset Boulevard, on the east by San Pedro Street, on the south by Washington Boulevard and on the west by Figueroa Street.

DISTRICT NUMBER 2. The outer congested district, bounded on the north and east by the Los Angeles River, on the south by Jefferson Street and on the west by Hoover and Alvarado Streets.

DISTRICT NUMBER 3. The residential district, bounded on the north by Los Feliz Boulevard and a line extending from Los Feliz Boulevard at the Los Angeles River bridge southeasterly to the intersection of Garvey Avenue and Atlantic Boulevard, on the east by Atlantic Boulevard, on the south by Slauson Avenue and on the west by Arlington and Van Ness Avenues.

DISTRICT NUMBER 4. The surburban district, bounded on the north by a line extending easterly from a point near Roscoe to an intersection with the north extension of Rosemead Boulevard, on the east by Rosemead Boulevard, on the south by Compton Boulevard and Redondo Beach Boulevard, and on the west by Redondo Road and a line extending northerly from its intersection with Manchester Avenue to a point on Laurel Canyon Boulevard west of Roscoe.

DISTRICT NUMBER 5. The metropolitan area, or the coastal plain of Los Angeles County, bounded on the north by the San Gabriel Mountains, on the east by the Los Angeles County line, on the south and west by the Pacific Ocean, and on the west by the Los Angeles City limits.

Diagrams of these districts, showing the number of motor vehicles entering and leaving each, between the hours of 6 A.M. and 10 P.M. of an average weekday, as determined by the 1929 and 1937 surveys, are shown in Plates No. 4 to No. 9 inclusive.

The number of motor vehicles entering and leaving District No. 1 in 1929 was 531,474, and in 1936, 573,008, an increase of 7.8%.

The number of motor vehicles entering and leaving District No. 2 in 1929 was 618,721 and in 1936,

727,237, an increase of 17.5%.

The number of motor vehicles entering and leaving District No. 3 in 1930 was 666,218, and in 1937, 854,254, an increase of 28.2%.

The number of motor vehicles entering and leaving District No. 4 in 1930 was 303,181, and in 1937, 463,591, an increase of 52.9%.

The number of motor vehicles entering and leaving District No. 5, or the metropolitan area, as herein designated, in 1930 was 57,930, and in 1937, 71,322, an increase of 23.1%.

The increase in number of vehicles entering and leaving District No. 1 in 1936 over 1929 from the north was 6.5%, from the east 3.2%, from the south 14.4%, and from the west 8.8%. The increase in District No. 2 from the north was 25.9%, from the east 30.1%, from the south 9.9% and from the west 15.9%. The increase in District No. 3 from the north was 66.7%, from the east 40.1%, from the south 17.8%, and from the west 20.6%. The increase in District No. 4 from the north was 47.8%, from the east 58.1%, from the south 18.7% and from the west 68.8%. The increase in the metropolitan area in 1937 over 1930 was from the east and southeast 17.6%, and from the west and northwest 54.5%.

The number of vehicles remaining in each district, or the difference between the number entering and the number leaving, at the close of the check at 10 P.M. was for District No. 1, 14,476, District No. 2, 5,799, District No. 3, 9,432, District No. 4, 589, and District No. 5, 80.

The number of vehicles entering the central business district in each hour exceeded the number leaving in the corresponding hour from 6 A.M. to 2 P.M. at which time there had accumulated in the district 46,156 vehicles. At noon the accumulation was 44,497. The number of vehicles in the central district at noon on the day of the count, as determined by an aerial photograph and a ground count, was 53,456. The difference of 8,959 we assume to be made up of vehicles which had accumulated in the district prior to 6 A.M. and those vehicles which are used exclusively within the district.

Of the total number of vehicles accumulated in the district, as determined by the cordon count, 32,000 occurred between the hours of 6 A.M. and 9 A.M. It is interesting to note in this connection that it is estimated 80% of the purchases in the retail shopping district are made between the hours of 11 A.M. and 4 P.M.

TRAFFIC SURVEY LOS ANGELES METROPOLITAN AREA

ENGINEERING DEPARTMENT AUTOMOBILE CLUB OF SOUTHERN CALIFORNIA 1937

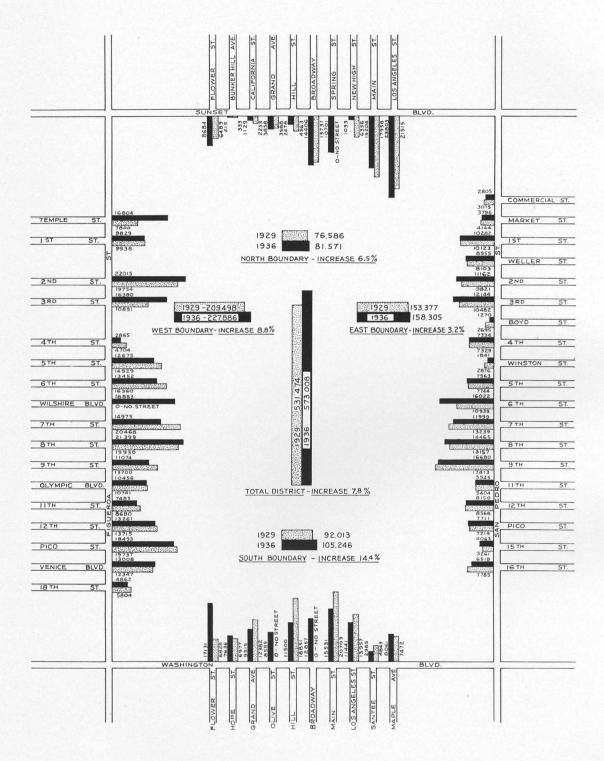
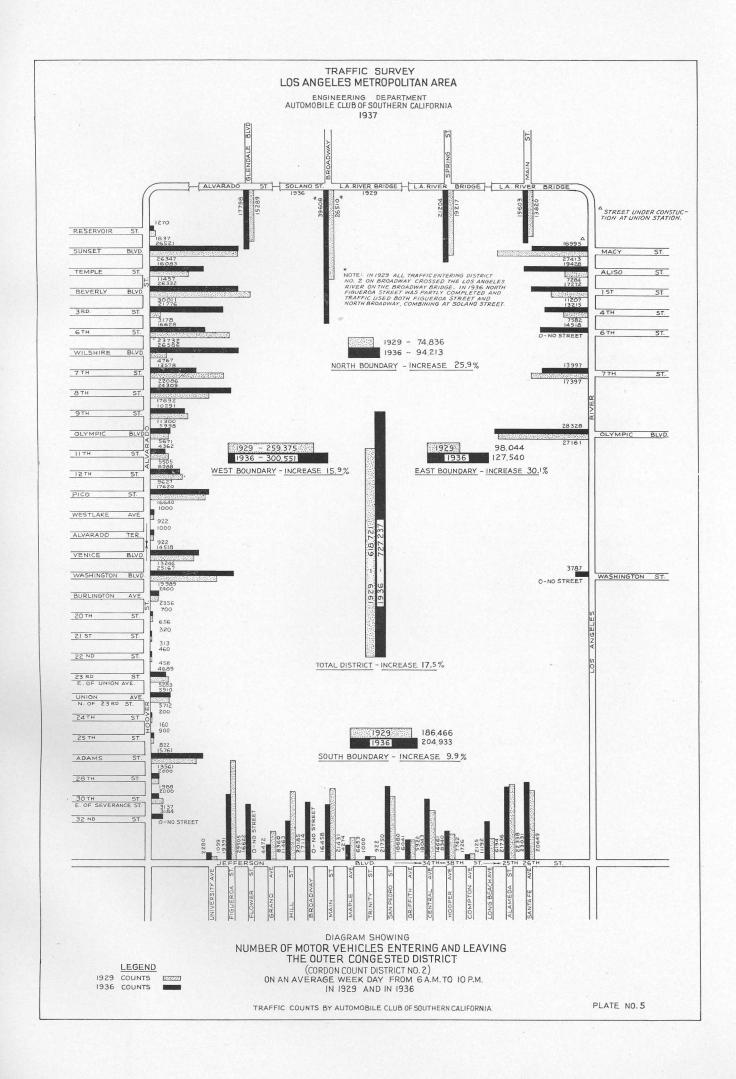


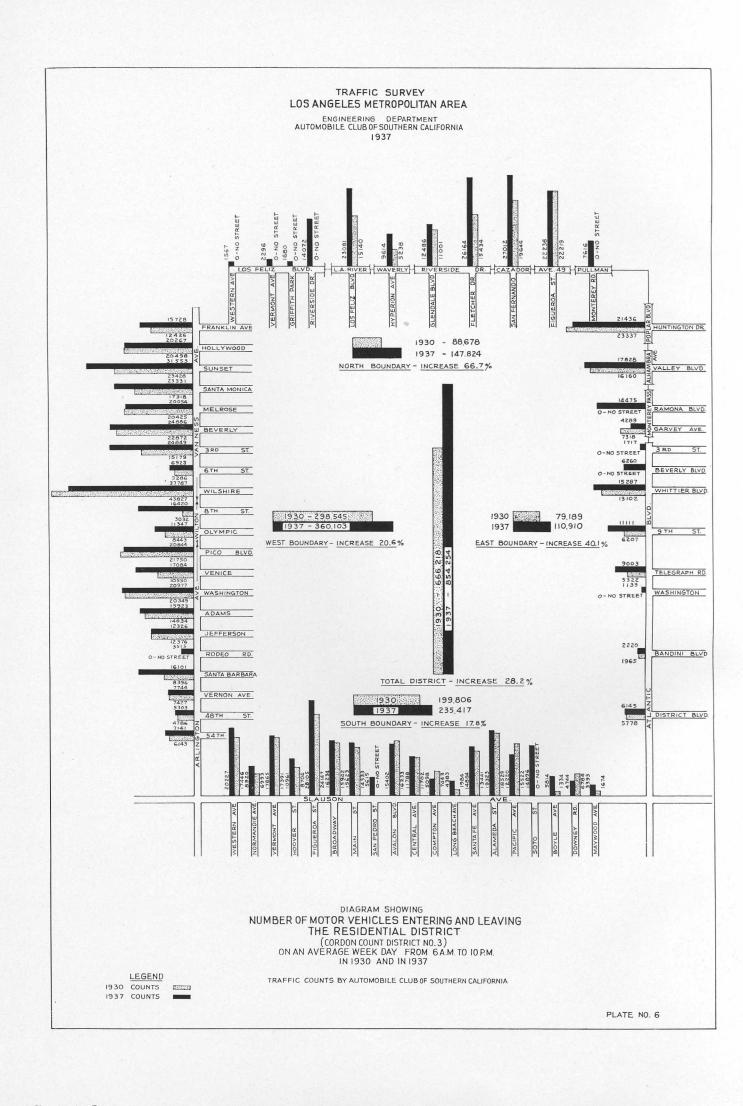
DIAGRAM SHOWING
NUMBER OF MOTOR VEHICLES ENTERING AND LEAVING
THE CENTRAL BUSINESS DISTRICT
(CORDON COUNT DISTRICT NO.1)

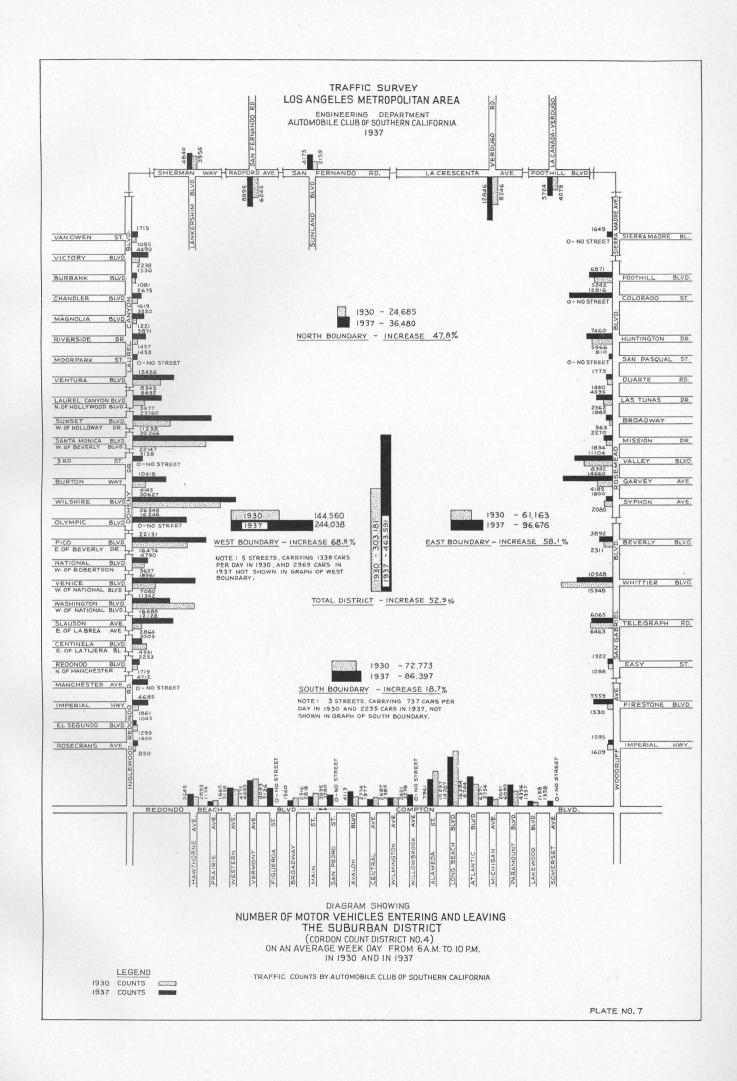
(CORDONCOUNT DISTRICT NO.1)
ON AN AVERAGE WEEK DAY FROM 6A.M.TO 10 PM.
IN 1929 AND IN 1936

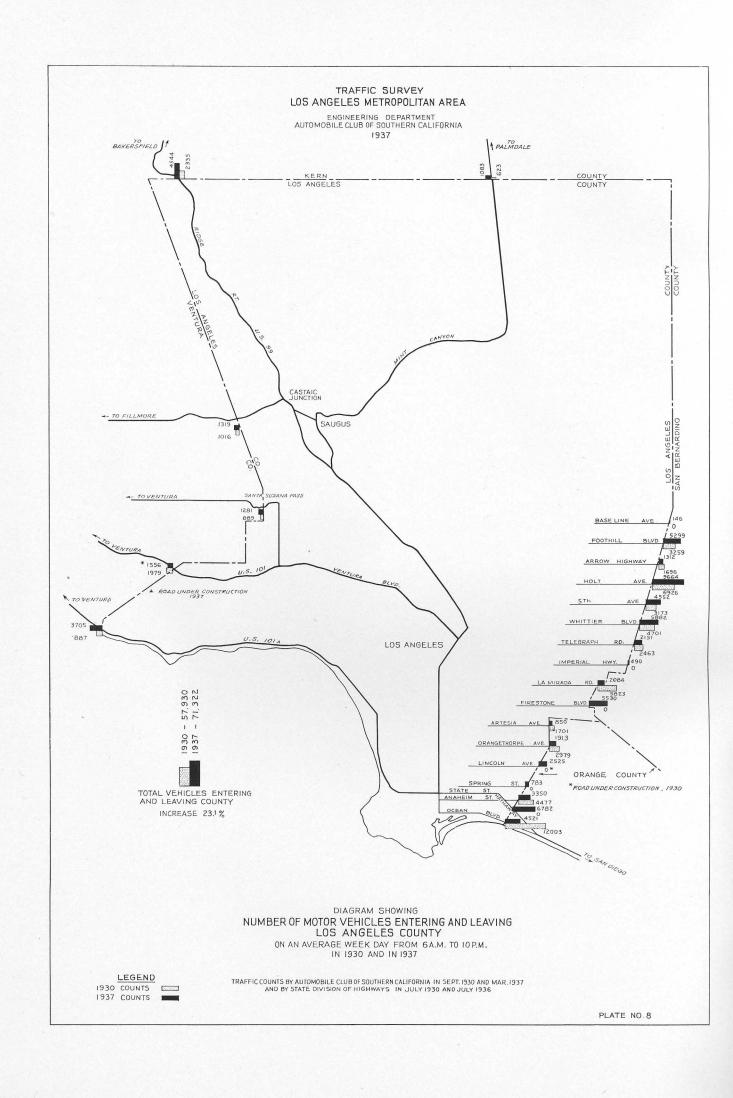
LEGEND
1929 COUNTS
1936 COUNTS
1936 COUNTS
1936 COUNTS

PLATE NO. 4



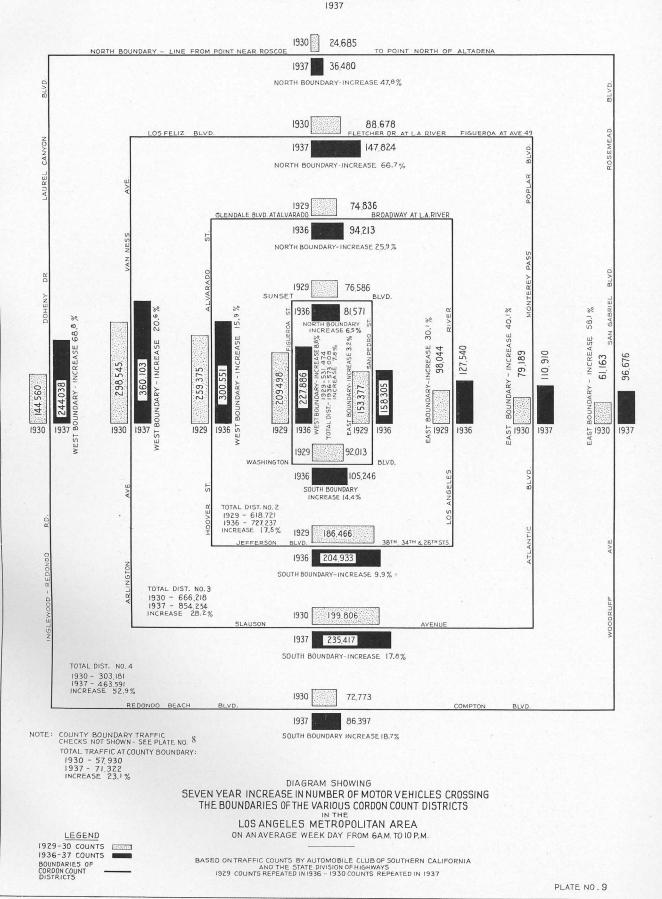






TRAFFIC SURVEY LOS ANGELES METROPOLITAN AREA

ENGINEERING DEPARTMENT AUTOMOBILE CLUB OF SOUTHERN CALIFORNIA 1937



In addition to the cordon count districts above referred to, the area was divided into four quadrants, using Figueroa Street as the north-south axis and Olympic Boulevard and East 9th Street as the eastwest axis. The total number of vehicles crossing the north-south axis outside the central business district, including Washington and Sunset Boulevards, during the period 6 A.M. to 10 P.M. was 315,976. The total number crossing the east-west axis during the same period, including Figueroa and San Pedro Streets, was 387,040. The total east-west, northsouth movement outside of the central business district was 703,016 vehicles. The average daily number of vehicles crossing Figueroa Street on Sunset Boulevard was 25,844. The average number crossing Figueroa Street on Washington Boulevard was 31,099. The average number of vehicles crossing Olympic Boulevard on Figueroa Street during an average weekday and between the hours 6 A.M. and 10 P.M. was 25,234. The average number crossing Olympic Boulevard on San Pedro Street on an average weekday between the hours 6 A.M. and 10 P.M. was 23,509. The highest number crossing Olympic Boulevard was 26,656 on Western Avenue, the next highest being 26,472 on Alameda Street. The highest number crossing Figueroa Street was 31,099 on Washington Boulevard, the next highest being 25,844 on Sunset Boulevard. The total number crossing Olympic Boulevard west of and including Figueroa Street during the period above mentioned was 242,342. The total number crossing Olympic Boulevard and East Ninth Street east of and including San Pedro Street was 144,698. The total number of vehicles crossing Figueroa Street north of and including Sunset Boulevard during the period above mentioned was 89,434. The total number crossing Figueroa Street south of and including Washington Boulevard was 226,542.

The maximum flow of traffic into each of the cordon count districts occurred between the hours 8 A.M. and 9 A.M. and was about 10.4% of the 16 hour total. The maximum flow outward from each of the districts occurred between the hours of 5 P.M. and 6 P.M. and was about 12.6% of the 16 hour total. The 16 hour flow, that is, the total movement between the hours 6 A.M. and 10 P.M. was about 90% of the 24 hour total. Of the total movement between 10 P.M. and 6 A.M., 79% occurred between the hours 10 P.M. and 1 A.M. For the state as a whole, as determined by the State Division of Highways, 87.3% of the 24 hour movement occurs between the

hours of 6 A.M. and 10 P.M. Of the total state movement between the hours of 10 P.M. and 6 A.M., 60% occurs between the hours of 10 P.M. and 1 A.M.

The total number of inbound vehicles entering District No. 1 during the hour 8 to 9 A.M. was 30,517. Outbound during the hour 5 to 6 P.M. was 35,093. The maximum in and out movement occurred during the hour 5 to 6 P.M. and was 54,501 vehicles.

The total number of inbound vehicles entering District No. 2 during the hour 8 to 9 A.M. was 38,078. The total outbound during the hour 5 to 6 P.M. was 45,328. The maximum in and out movement occurred during the hour 5 to 6 P.M. and was 69,544 vehicles.

The total number of inbound vehicles entering District No. 3 during the hour 8 to 9 A.M. was 44,864. The total outbound during the hour 5 to 6 P.M. was 53,080. The maximum in and out movement occurred during the hour 5 to 6 P.M. and was 81,612 vehicles.

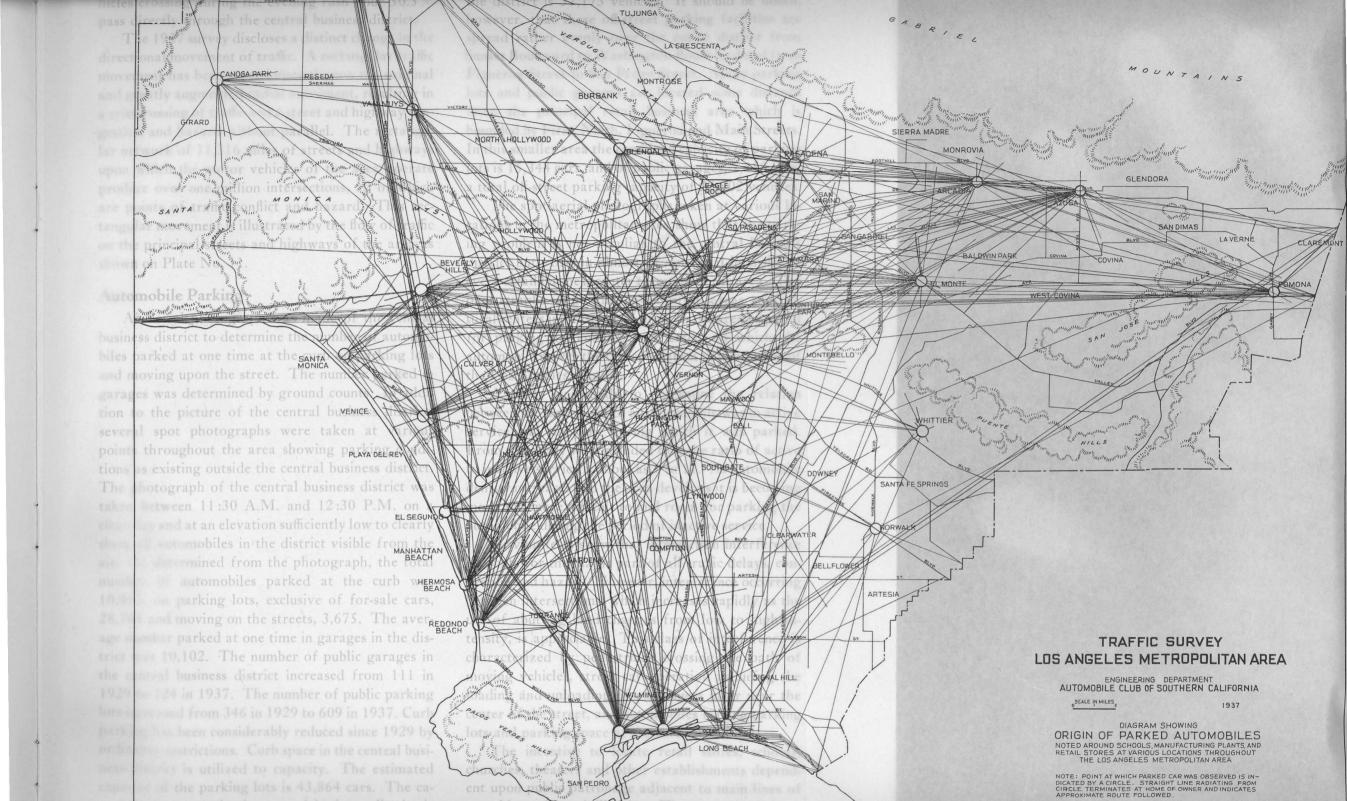
The total number of inbound vehicles entering District No. 4 during the hour 8 to 9 A.M. was 24,112. The total outbound during the hour 5 to 6 P.M. was 29,090. The maximum in and out movement occurred during the hour 5 to 6 P.M. and was 44,424 vehicles.

The total number of inbound vehicles entering District No. 5 during the hour 8 to 9 A.M. was 3,709. The total outbound during the hour 5 to 6 P.M. was 4,776. The maximum in and out movement occurred during the hour 5 to 6 P.M. and was 7,129 vehicles.

In addition to the traffic counts, both moving and parked cars were sampled throughout the metropolitan area to supplement data on origin and destination of vehicles. The analysis of these data indicate that the relation which formerly existed between the home and place of occupation has almost, if not completely, disappeared and that there are few points of origin and destination common to any appreciable number of vehicles found in any section of the Los Angeles area.

A number of locations where samples were taken of parked automobiles were noted on a map of the metropolitan area and a line drawn from these parking locations to the residences of the owners of each automobile observed, as illustrated on Plate No. 10. This is indicative of the innumerable traffic conflicts resulting from these intersecting paths of travel.

A large number of samples were taken from auto-



mobiles crossing the east side Los Angeles River bridges during the morning and evening rush hours. These samples indicate that of the total of east bound vehicles crossing these bridges during the morning rush hour, 45.6% pass directly through the central business district, and of the total of west bound vehicles crossing during the evening rush hour 50.5% pass directly through the central business district.

The 1937 survey discloses a distinct change in the directional movement of traffic. A rectangular traffic movement has been super-imposed upon the original and greatly augmented radial movement, resulting in a crisscrossing of traffic and a street and highway congestion and hazard without parallel. The rectangular network of 11,316 miles of streets and highways upon which the motor vehicles of the area operate produce over one million intersections, all of which are points of traffic conflict and hazard. This rectangular movement is illustrated by the flow of traffic on the principal streets and highways of the area as shown on Plate No. 11.

Automobile Parking

An aerial photograph was made of the central business district to determine the number of automobiles parked at one time at the curb on parking lots and moving upon the street. The number parked in garages was determined by ground counts. In addition to the picture of the central business district, several spot photographs were taken at various points throughout the area showing parking conditions as existing outside the central business district. The photograph of the central business district was taken between 11:30 A.M. and 12:30 P.M. on a clear day and at an elevation sufficiently low to clearly show all automobiles in the district visible from the air. As determined from the photograph, the total number of automobiles parked at the curb was 10,915, on parking lots, exclusive of for-sale cars, 28,764 and moving on the streets, 3,675. The average number parked at one time in garages in the district was 10,102. The number of public garages in the central business district increased from 111 in 1929 to 124 in 1937. The number of public parking lots increased from 346 in 1929 to 609 in 1937. Curb parking has been considerably reduced since 1929 by ordinance restrictions. Curb space in the central business district is utilized to capacity. The estimated capacity of the parking lots is 43,864 cars. The capacity of garages in the central business district is estimated at 13,309.

As previously stated, the number of vehicles entering the central business district in each hour exceeded the number leaving in the corresponding hour from 6 A.M. to 2 P.M., at which time there had accumulated in the district a total of 46,156 vehicles. The combined off-street parking capacity in the district is 57,173 vehicles. It should be noted, however, that these off-street parking facilities are spread rather evenly over the entire district from Sunset Boulevard to Washington Boulevard and from Figueroa Street to San Pedro Street. Many parking lots and public garages are located some distance from the principal retail business area which is bounded by First, Ninth, Figueroa and Main Streets. In this smaller area the combined capacity of parking lots is 15,344 cars, and of public garages, 7,458 cars, a total off-street parking capacity of 22,802 vehicles.

The spot aerial photographs taken at various locations in the metropolitan area show that the parking problem is not peculiar to the central business district but exists in almost, if not equal intensity in every retail business center throughout the area. The photographs of parking in industrial areas and cultural centers indicate, in addition to the area required for parking automobiles, the extent to which the automobile serves the transportation requirements of the Los Angeles area.

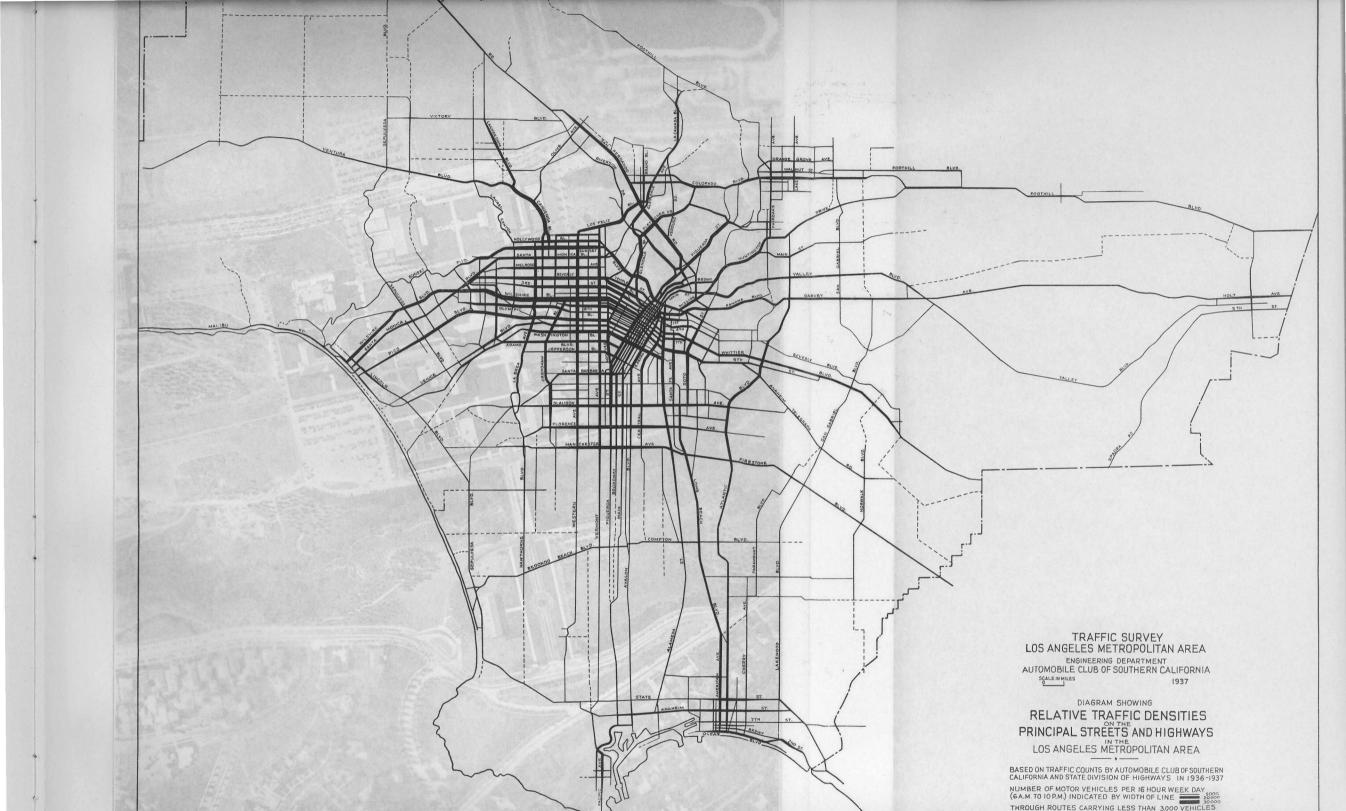
A study was made to determine the relation between the time in which an automobile was in active service and the time during which it was parked. From this study we concluded that the ratio of active to inactive service is about as 1 to 11. As automobile density increases and the area develops it is becoming more and more difficult to find room for parking the automobile during the period of inactive service.

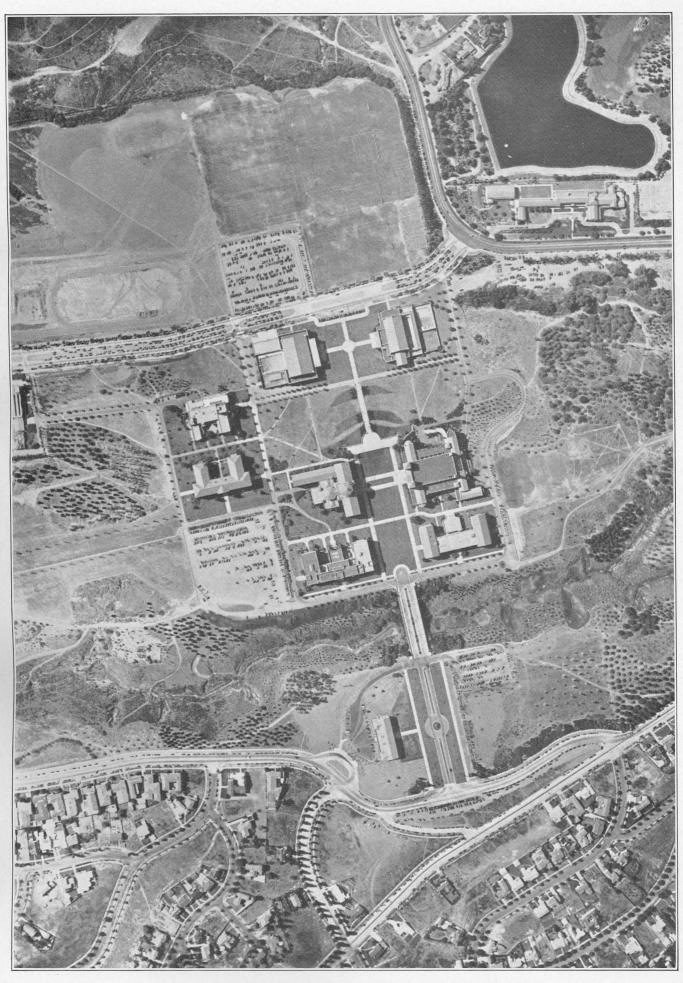
Driving tests show that intersection interference accounts for the major part of all traffic delays, congestion and hazard. However, interference occurring between intersections, which increases rapidly as the use of abutting land changes from low to high intensity, is appreciable. This class of interference is characterized by pedestrians crossing the path of moving vehicles, street car operation including the loading and unloading of passengers in or near the center of the street, and automobiles leaving parking lots and parking space at the curb.

The incentive to locate retail stores, schools, churches, theaters and other establishments dependent upon public patronage adjacent to main lines of travel is as old as civilization. The reason is obvious. Futile attempts have been made from time to time to

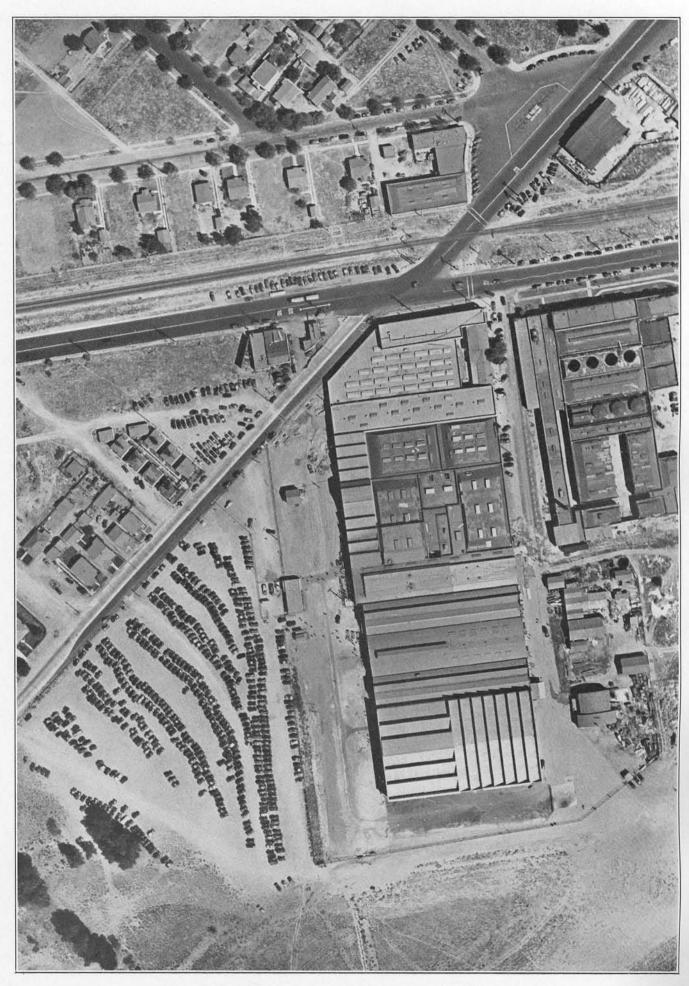


TYPICAL PARKING LOTS—CENTRAL BUSINESS DISTRICT—LOS ANGELES

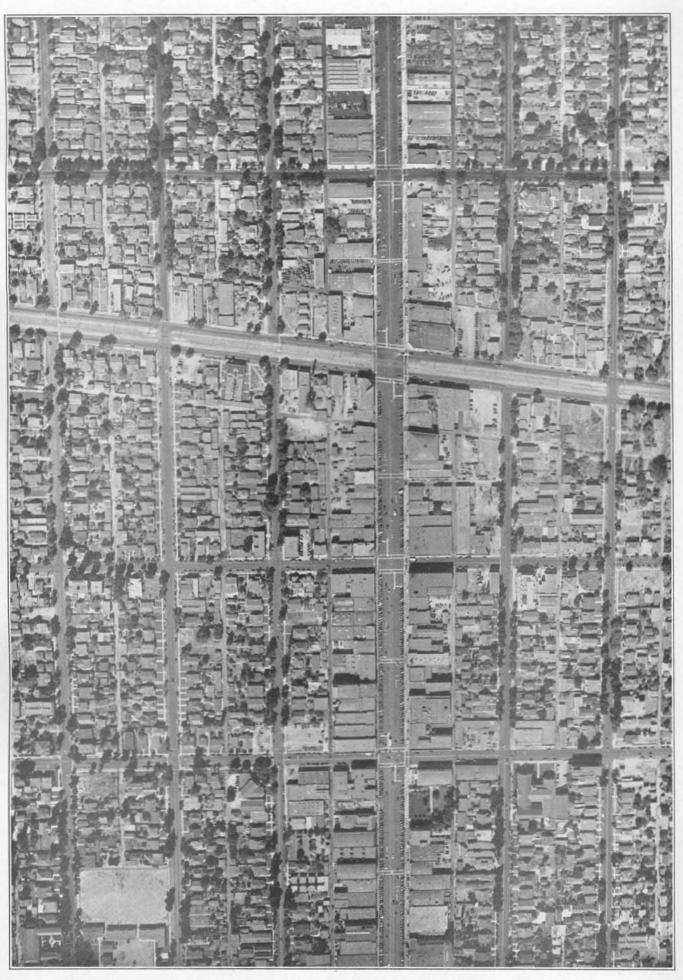




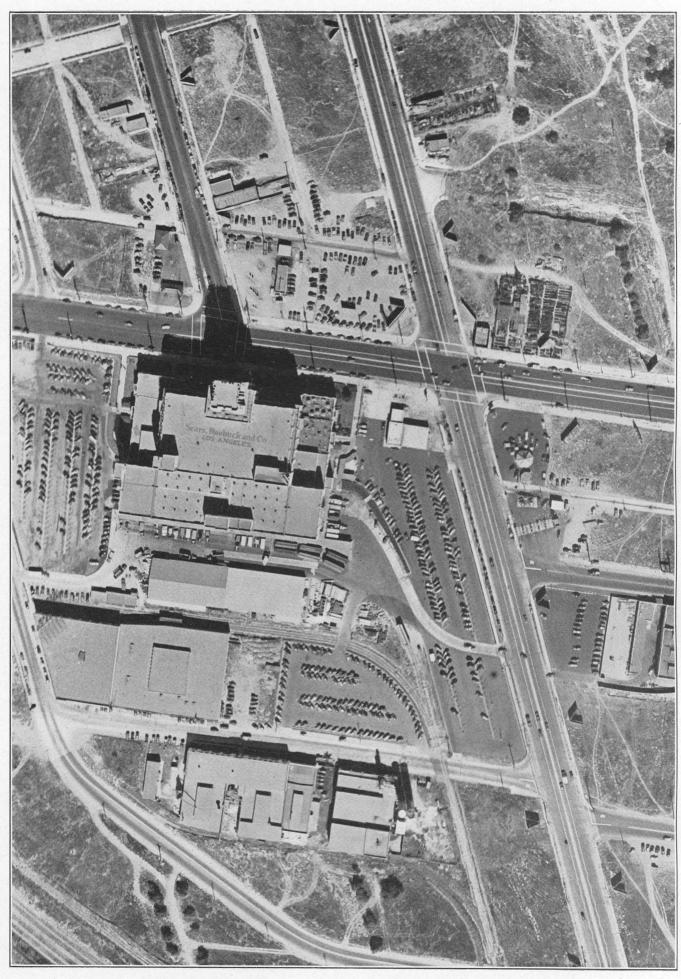
CAMPUS—UNIVERSITY OF CALIFORNIA AT LOS ANGELES—WESTWOOD



LOCKHEED AIRCRAFT CORPORATION—BURBANK



CURB PARKING ALONG PACIFIC BOULEVARD—HUNTINGTON PARK



SEARS, ROEBUCK AND CO., EAST OLYMPIC BOULEVARD, LOS ANGELES

protect the street or highway against interference from land use by zoning against such uses as tend to interfere with moving traffic. Such practice appears to be unsound in view of the established rights of citizens to hold land for profitable use. Such practice again would appear doubly unsound when the cost of the street or highway is assessed in part or in whole against abutting land.

A study was made as a part of the 1937 survey, to determine the extent to which the use of adjacent land changed from undeveloped or residential to commercial with the growth of travel. Plate No. 12 shows a section of U.S. 101, extending from Calabasas to the Orange County line. Land use adjacent to this important national, state and local highway, indicated by legend, is predominantly commercial. Automobile movement upon this route is subjected for a length of some 45 miles to all the delays and hazards of city travel. Conditions along this route are typical of conditions along every major traffic route in metropolitan Los Angeles. This trend in the use of land adjacent to major highways and streets is further illustrated on Plate No. 13, which is selfexplanatory.

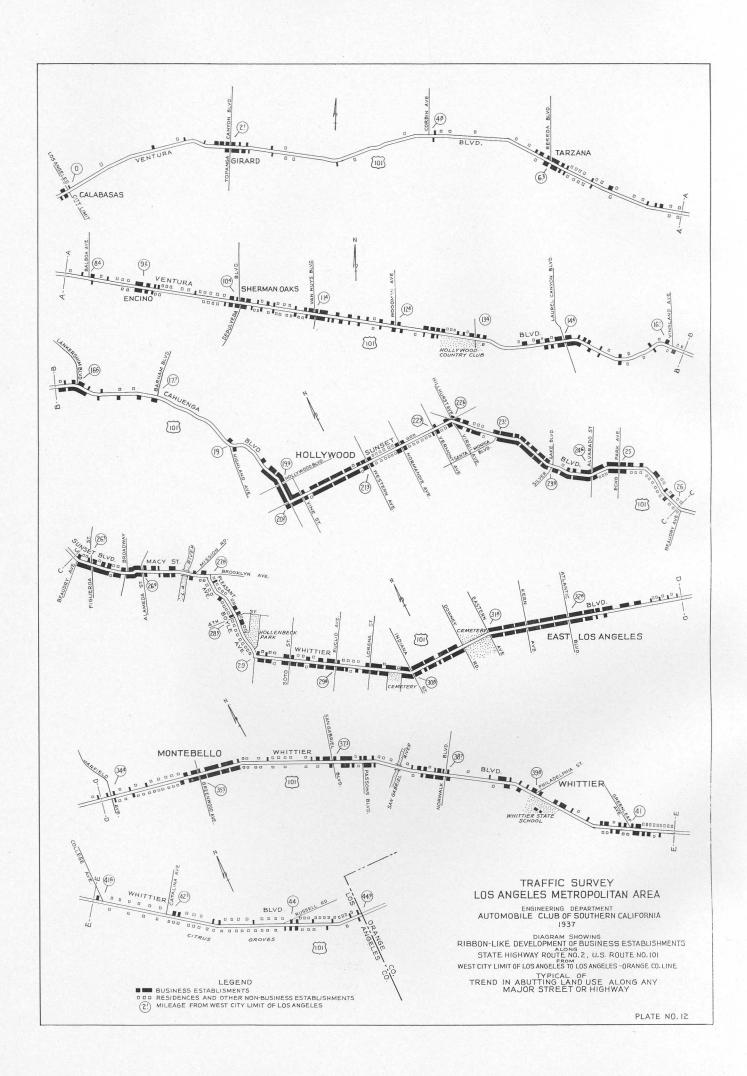
The effect of intersection and land use interference upon automobile transportation throughout the metropolitan area is illustrated by comparing the time required to drive from Seventh and Broadway, Los Angeles, to communities in the metropolitan area determined during off peak periods in 1930 with the time required to drive to the same points at off peak periods in 1936. These data are detailed upon Plate No. 14. In brief this study shows that the growing street and highway congestion is slowly but surely pushing the various communities farther and farther apart.

Commercial use of land abutting upon major streets and highways creates a condition under which the composition of the traffic stream is always changing. Vehicles are leaving and entering the stream at all points but still the stream flows on gathering volume and becoming more and more sluggish as intensity of land use increases. This characteristic of street and highway traffic is clearly illustrated by an analysis of numerous samples from moving traffic at various locations in the metropolitan area and from driving time tests along various streets. From a number of samples on La Brea Avenue between Wilshire Boulevard and San Vicente Boulevard, it was found that the shortest distance from point of origin was

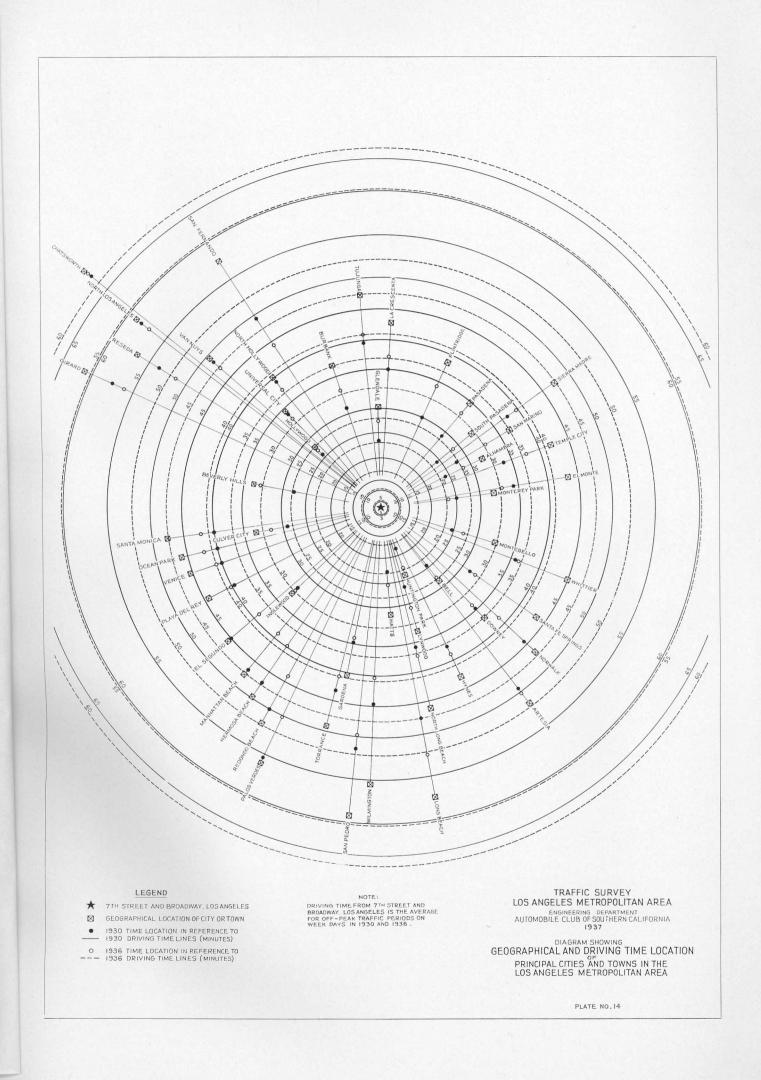
3 miles and the greatest distance 22 miles. The average distance from point of origin of all vehicles observed was 7.2 miles. On Hollywood Boulevard between Vine Street and Western Avenue, the shortest distance from point of origin was 0.5 mile, the maximum 13 miles and the average 9.9 miles. On U. S. 101 between Sepulveda Boulevard and Playa del Rey, the shortest distance from point of origin was 0.5 mile, the maximum 26 miles, and the average 10.9 miles. On Wilshire Boulevard between Doheny Drive and San Vicente Boulevard the shortest distance from point of origin was 1 mile, the maximum 21 miles and the average 6.3 miles. On Figueroa Street between Adams Boulevard and Santa Barbara Avenue, the shortest distance from point of origin was 0.5 mile, the maximum 21.0 miles, and the average 4.8 miles. On Manchester Avenue between Atlantic Avenue and Alameda Street, the shortest distance from point of origin was 0.5 mile, the maximum 21.0 miles, and the average 9.0 miles. In these observations vehicles originating outside of the metropolitan area were, in all cases, disregarded. The speed of traffic was found to vary from a minimum of about 3 miles per hour at times of peak load in the most congested sections to about 45 miles per hour in outlying districts.

Studies were made in connection with the 1937 survey to determine, in addition to origin and destination, the purpose of travel. The purpose was grouped under two general heads, purchasing and non-purchasing. The data obtained on this subject is quite meager, yet it serves to indicate the extent to which the automobile is used by all classes in going to and from place of residence to place of business or employment. In brief, 26.6% of the total 24 hour travel occurs between the hours of 7 A.M. and 9 A.M. and 4 P.M. and 6 P.M., while approximately 80% of the purchases in the retail shopping centers are made between the hours of 11 A.M. and 4 P.M.

Classification of street and highway use according to purpose of such use is of considerable importance to the location and design of a system of streets and highways for any given area. Obviously, such classification in the Los Angeles area cannot be determined with accuracy but must be estimated, using such facts as are available as a basis for the estimate. In this manner we have estimated that of the 24 hour street and highway use, 35% is commuting, 25% commercial, including salesmen, 10% public service, 10% amusement and 20% shopping.





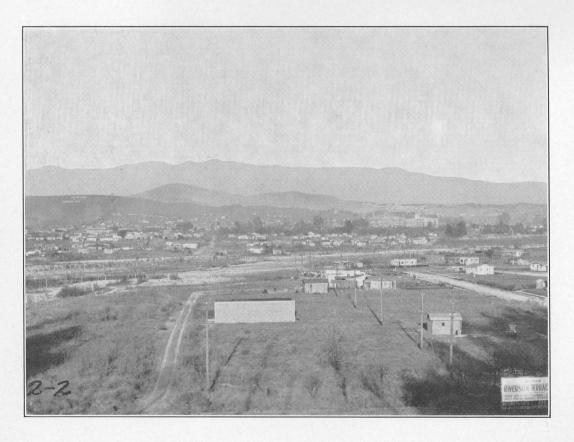


The Street and Highway Traffic Problem of the Los Angeles Area

For the purpose of this discussion the following assumptions are made:

- 1. All existing streets and highways in the Los Angeles area have been developed primarily to serve adjacent and tributary land.
- 2. The use of existing streets and highways in the Los Angeles area is now or will ultimately become predominantly local in character.
- 3. All street and highway use is made up of through and local travel.
- 4. The total daily use of each automobile is made up in part of local travel and in remaining part of through travel.
- 5. Parking areas for automobiles are as essential to the use of the automobile as are streets and highways.
- 6. Land service streets in large centers of population are inadequate for efficient automobile use and with the continued use of such streets for both local and through travel, congestion and accidents will increase rapidly as population increases.

ing through traffic, second, increasing the efficiency of the land service streets, and third, providing adequate parking facilities for automobiles. It is obvious that the solution of the first problem will not be found through providing more land service streets and highways, for such streets only add to the number of intersections and increase traffic conflicts. It has been observed that with the opening of each major street and highway in the metropolitan area, a change in the use of adjacent land has immediately set in. The new use is invariably commercial and of such nature as to interfere with moving traffic. As the change in use continues, traffic movement becomes more and more sluggish until finally the street becomes of little or no value to through travel. The building of new land service streets and highways is not only futile from the standpoint of improving traffic conditions, but effects the economic structure of the entire area in that established commercial districts are robbed to more or less extent to support the new area, and large sections of land made unsuitable for residential purposes. The solution of the problem of providing adequate facilities for through traffic will be found in providing a network of traffic routes for the exclusive use of



FLETCHER DRIVE AT RIVERSIDE DRIVE IN 1927

The street and highway traffic problem of the Los Angeles area may be divided into three parts. First, the problem of providing adequate facilities for movmotor vehicles over which there shall be no crossing at grade and along which there shall be no interference from land use activities. The solution of the second problem, that of increasing the efficiency of land service streets, will become more and more a problem of traffic direction and control if special motor routes are provided, new streets and highways being required only as new residential areas are developed to accommodate new people. There are at the present time may locations throughout the Los Angeles area where the efficiency of the land service streets and highways can be greatly increased by physical improvements such as filling in gaps on and extending major streets and highways and separating grades of intersecting major thoroughfares. This latter is of vital importance from the standpoint of permanent improvement in traffic conditions upon land service streets.

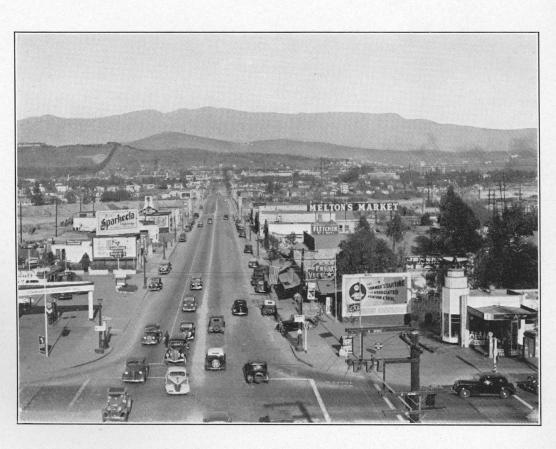
Curb parking not only reduces the capacity of the street for moving traffic and creates a substantial hazard for both vehicles and pedestrians in business centers, but is a source of continual annoyance in residential districts adjacent to shopping centers and destroys values therein. By contributing to street congestion, premature decentralization of business is encouraged which again has the effect of decreasing property values. If the automobile is to continue as an

tiative, such areas will be provided only when and where such facilities will show immediate profit. At such time, land values will have increased because of improvements with the result that the cost of automobile parking will continue to increase to the point where it will seriously affect the use of this vehicle. The immediate acquisition of off street parking facilities throughout the metropolitan area should be encouraged by gradually restricting curb parking until ultimately no curb parking will be provided in or adjacent to any commercial center and there will be a minimum of such parking in residential districts.

Recommendations

1. Motorways.

It is recommended that a network of motorways be constructed to serve the entire metropolitan area of Los Angeles as defined in this report. The location of these motorways as indicated by traffic movement and population trend is illustrated upon Plate No. 15. These motorways should be developed upon a right-of-way of not less than 360 feet in width through residential territory and not less than 100 feet in width



FLETCHER DRIVE AT RIVERSIDE DRIVE IN 1937

important factor in the transportation of persons and commodities in the Los Angeles area, off street parking facilities must be provided. If left to private ini-

through established business districts. In residential territory the center portion of the right-of-way should be paved to accommodate from four to six lanes of traffic, as required, with a physical barrier extending the full length of the motorway dividing opposing lanes of traffic. The remaining land on each side should be planted to trees and shrubs. There should be no crossing at grade at any point. Secondary streets should cross underneath or above motorways as conditions dictate. At points where motorways or a motorway and a major street or highway intersect, a structure generally referred to as a cloverleaf should be installed. These structures provide not only for separating the paths of intersecting traffic, but permit of an interchange of traffic between two motorways or a motorway and a major street. Access to motorways should be provided where required between cloverleaf intersections by means of a ramp from a dead end street. In districts where the land is generally flat, the motorway section would be raised or depressed towards the center as conditions dictate to provide head room for grade separation structures. Through hill country, grade separations can be provided at relatively low cost by taking advantage of natural features of the land.

Through business districts a right-of-way 100 feet in width should be acquired through or near the center of the block. On this land the so-called motorway building should be constructed. In general, the first and second floors of this building would be devoted to retail business, the third floor to the motorway proper, the fourth and fifth floors and as many additional floors as required to parking and the remaining floors to office space. Parking floors would be reached by means of ramps and all floors provided with elevator service. Surface streets would be crossed on bridges connecting motorway buildings. Access to surface streets would be provided at convenient intervals. These motorway buildings should be self-liquidating. Motor bus operation should be permitted but all loading and unloading should be at points outside of the motorway. These motorways would be located through territory where the value of land and improvements is relatively low. It is felt that the motorways, which will always be free of interference, will anchor both residential and business districts, greatly increase property values and raise the efficiency of the automobile to close to its rated capacity.

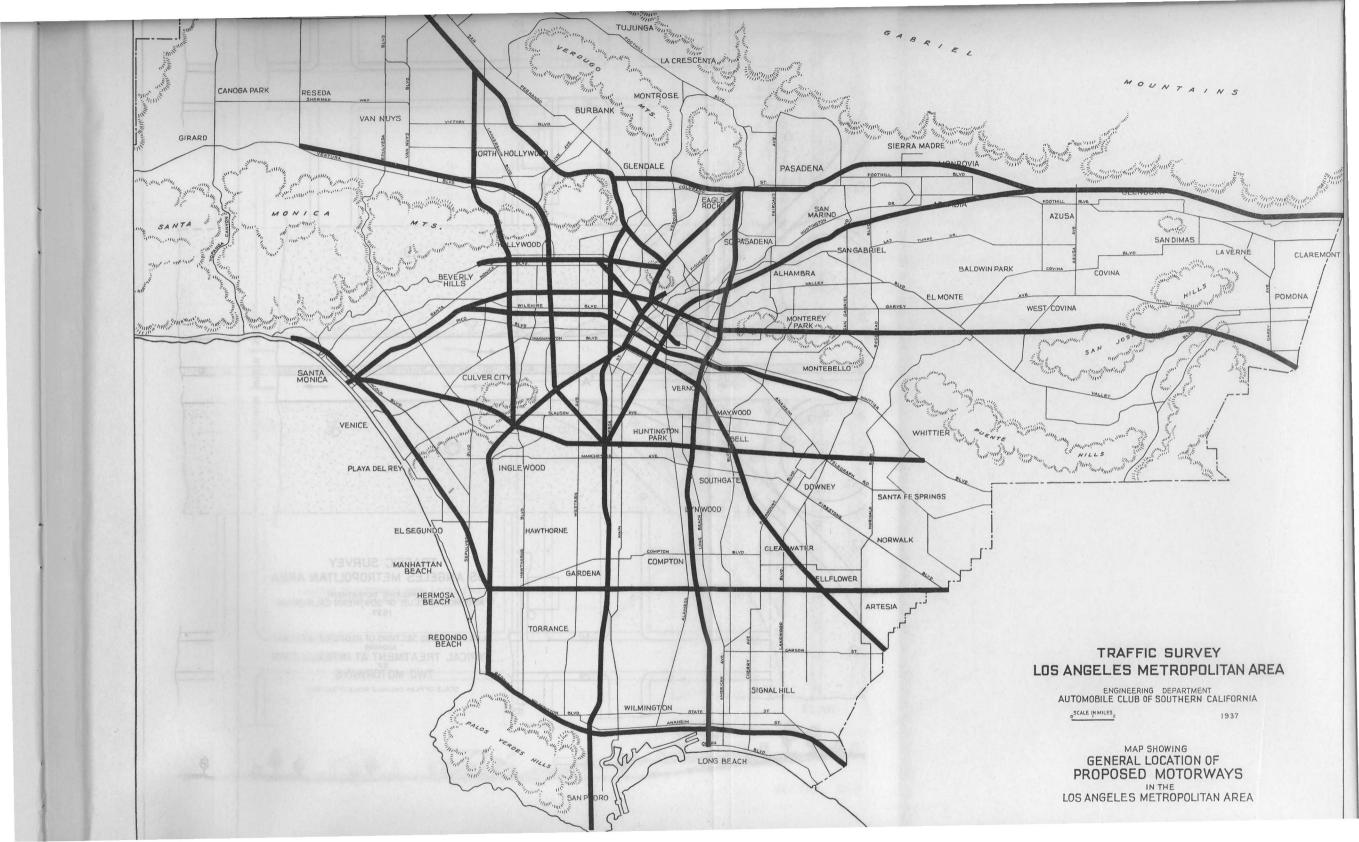
The average cost of motorways outside of business districts is estimated at \$2,000,000 a mile. The motorway buildings, including connecting bridges, are estimated at \$4.50 a square foot of floor area. The general plan and cross-section of the proposed motorway through residential territory is shown on Plates

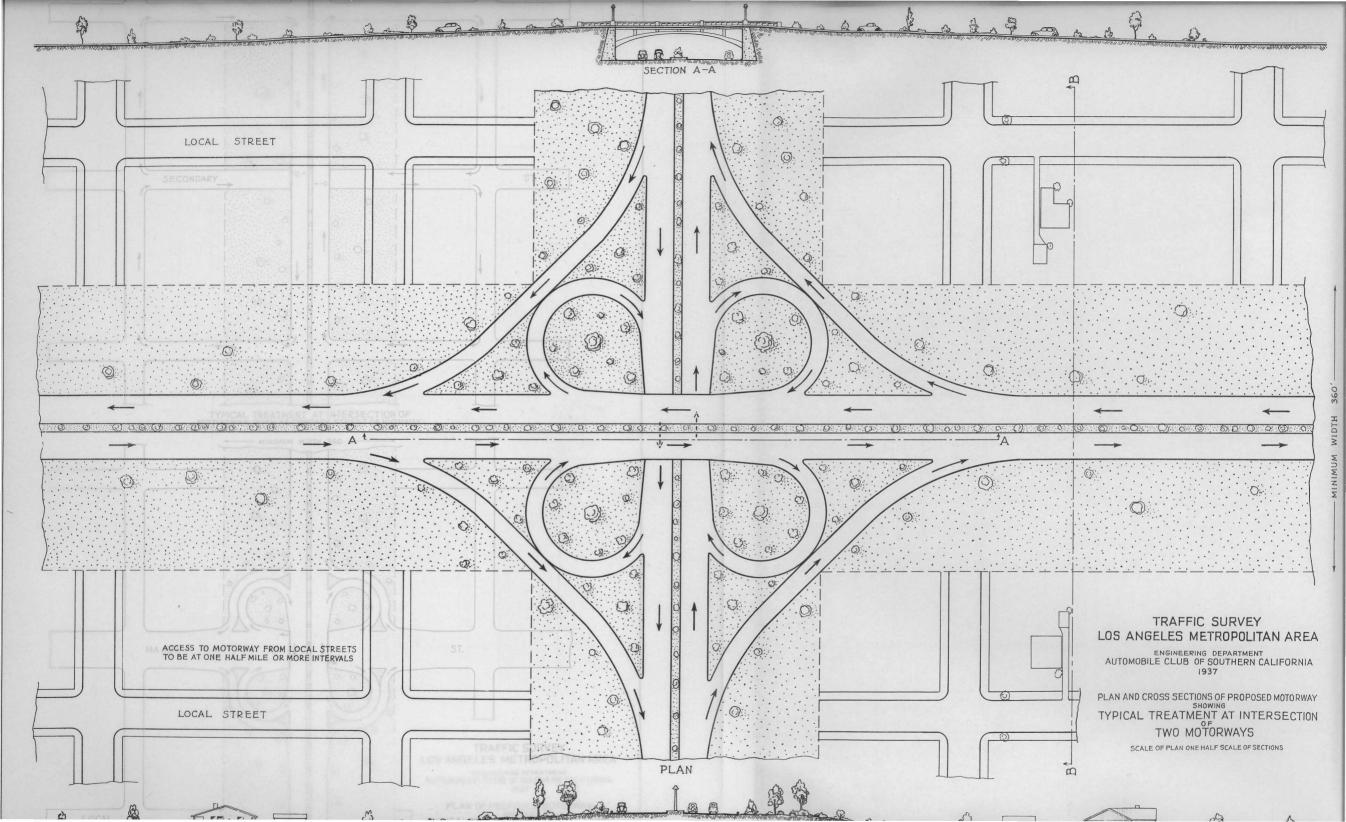
No. 16 and No. 17 and the plan and cross-section of the proposed motorway building is shown on Plate No. 18. Plate No. 19 shows an alternate design of a motorway building in which the motorway and parking floors are arcaded above and along an existing surface street.

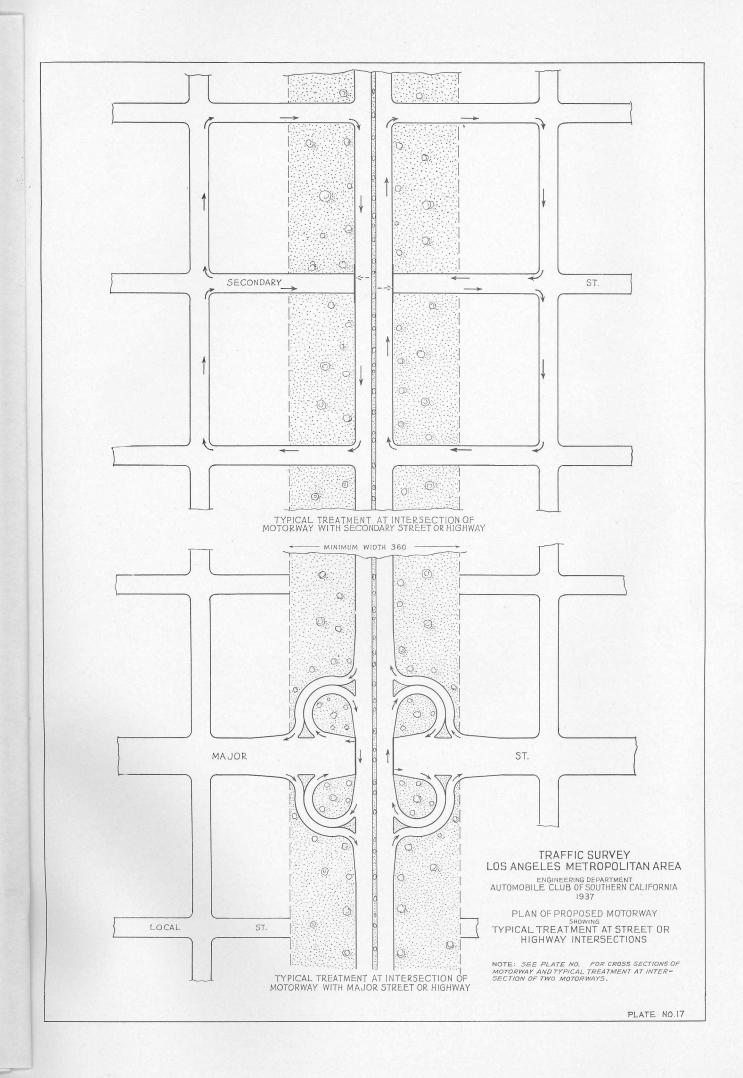
2. LAND SERVICE STREETS AND HIGHWAYS

Land service streets and highways will always form an essential part of any transportation network. However, as routes are provided for the exclusive use of moving vehicles, these streets and highways will function largely as terminal facilities, with the result that the density of use will be substantially less than under present dual use. The efficiency of these land use streets and highways can, it is believed, be greatly increased by classification, physical improvements, removal of unnecessary obstructions and traffic regulation, and with this purpose in view the following recommendations are made:

- a. Classify all land service streets and highways, exclusive of state highways, as commercial or residential, the basis for this classification to be the predominant use of abutting land.
- b. Remove all street railways from both commercial and residential streets and state highways within a stated reasonable period of time.
- c. Establish an adequate metropolitan motor bus transportation system with off-street terminal facilities.
- d. Separate grades of intersecting commercial streets and highways wherever practical.
- e. Install where required as rapidly as practical, an inter-connected system of traffic signals on commercial streets and highways. These signals to be of uniform design, suspended over the center of intersections and to carry the names of intersecting streets and highways.
- f. It is recommended that no additions be made to the state highway system as now designated in the Los Angeles metropolitan area until existing designated routes have been developed to adequate standards, including grade separations wherever practical. Future additions to this system in the Los Angeles area to be made with the view solely of bettering terminal or through routes for traffic originating on the state highway system outside of the metropolitan area.
 - 3. Motor Vehicle Parking.
- a. It is recommended that curb parking be prohibited on all commercial streets and highways.

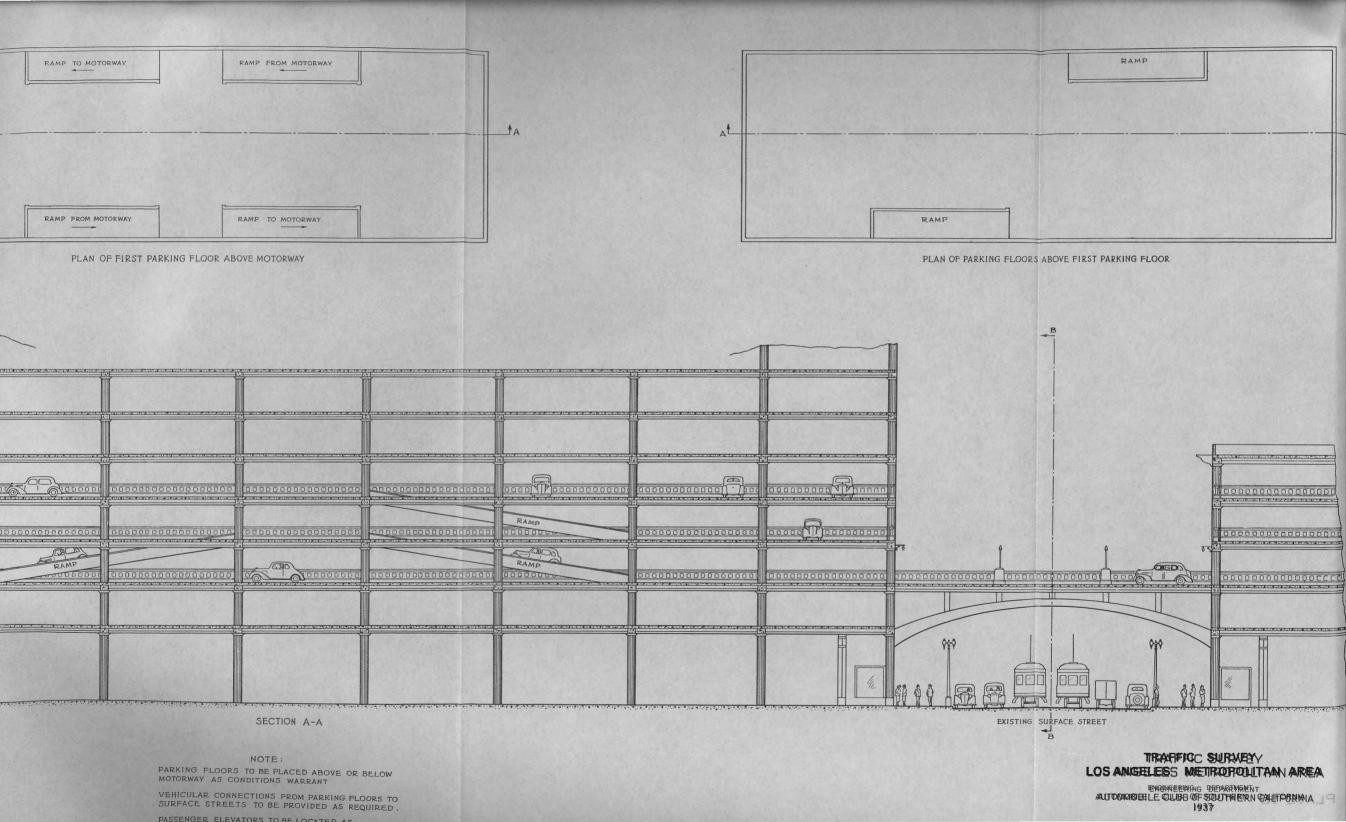


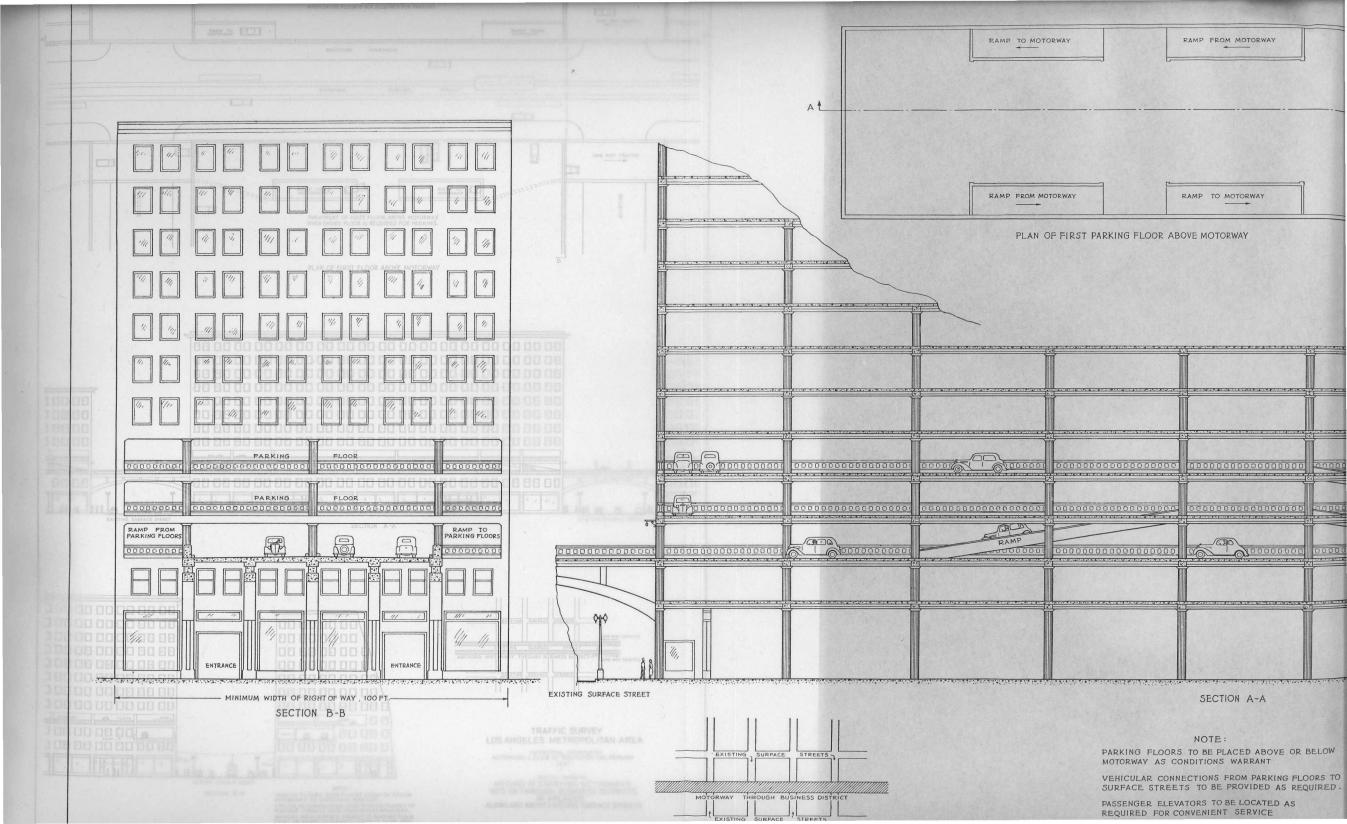


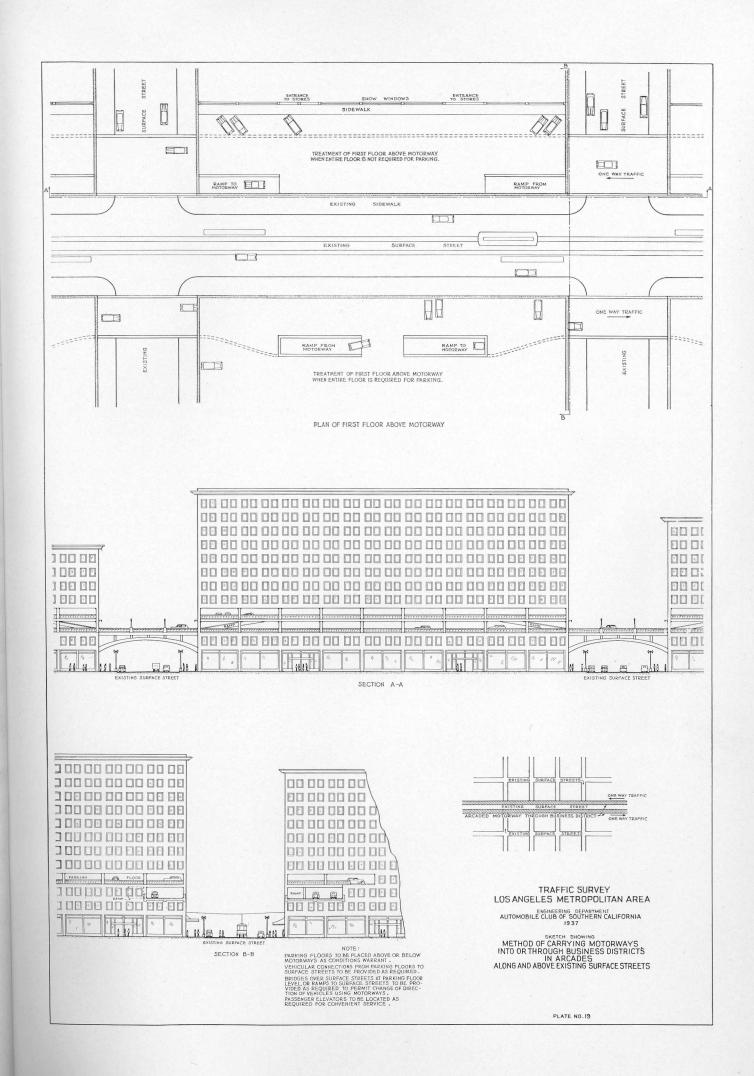




COMPOSITE PHOTOGRAPH—MOTORWAY BRIDGE OVER TYPICAL COMMERCIAL STREET







b. It is recommended that curb parking on residential streets be restricted in order to prevent shifting of curb parking evils from business centers to adjacent residential sections.

It is suggested that if private initiative does not provide adequate off street parking facilities consideration be given to the acquisition and operation of such facilities wherever needed by a public authority. These parking facilities should be assessed and taxed on the same basis as similar privately owned facilities and the proceeds from tax receipts deposited in the general fund. A uniform parking fee could be assessed against all registered motor vehicles in the Los Angeles area in an amount sufficient to cover the cost of land for parking facilities, and fixed charges such as maintenance, operation and taxes. It may be noted that a parking fee of ten cents a day per registered vehicle would yield in the Los Angeles metropolitan area in excess of \$35,000,000 annually. When the necessary land has been acquired the parking fee could be reduced in a substantial amount.

4. Financing.

The basic principle underlying all methods of financing public improvements is that the cost shall be equitably distributed among those benefited by such improvements. This theory is unquestionably sound regardless of whether the benefits are direct or indirect. The use of the automobile as a transportation unit has not altered in any manner this fundamental theory as applied to street and highway financing. Its widespread use has, however, created considerable confusion in the matter of determining and evaluating the direct and indirect benefits as well as in determining the extent of such benefits.

The operation of a network of motorways serving the entire metropolitan area of Los Angeles will increase safety in the operation of motor vehicles and will inevitably bring about a reduction of traffic accidents and loss of life and property damage in such accidents. These motorways will stabilize business and residential sections and will be of enormous bene-

fit to the owners of land and improvements. The saving in motor vehicle operation costs will be great and will be reflected in a lower transportation charge on every commodity used within the area, also in the transportation of people either by private or public conveyance.

We have estimated the cost of the motorways herein recommended as nearly as is possible in the absence of definite knowledge of exact location and detailed design. We have considered the ability of the taxpayers of the Los Angeles area to assume the large financial burden involved, and have answered the question in the affirmative after comparing the estimated cost distributed over a period of years with an estimate of what it is costing today to do without such facilities in loss of human life, injury to persons and property damage, blighted business and residential districts and mounting transportation costs.

Sufficient study has been given to the problem of financing the acquisition and construction of the recommended motorways to convince us that a practicable financing plan can be developed which in its application will not impose undue hardship upon any group of taxpayers within the metropolitan area. However, none of these groups has had an opportunity to either approve or reject the improvements herein recommended for traffic relief, or to discuss any financing plan regardless of the fact that it may be shown that it is costing the citizens of the area more to do without traffic relief than it would to construct a system of motorways as recommended. For this reason no financing plan is included. Continued study will be given to this problem and if and when the citizens of the Los Angeles area express a favorable interest in the recommendations a detailed financing plan can be submitted.

5. Administration.

It is recommended that the acquisition, construction, maintenance and operation of motorways in the Los Angeles area be vested in a metropolitan motorway authority.

Appendix

ABLE NO	DESCRIPTION	1 1	IGE
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TRAFFIC CHECKS AT BOUNDARIES OF CENTRAL BUSINESS DISTRICT

District No. 1

Counts Taken by Automobile Club, November and December 1929 and November and December 1936

FIGURES INDICATE NUMBER OF MOTOR VEHICLES COUNTED PER 16-HOUR WEEK-DAY — 6 A.M. TO 10 P.M.

		929 COUNT	19	'S		
STATION	In	Out	Total	In	Out	Total
NORTH BOUNDARY						
Flower Street south of Temple	3,130	3,359	6,489	4,246	4,438	8,684
Bunker Hill south of California	166	167	333	132	83	215
California Street east of Bunker Hill		1,156	2,253	628	501	1,129
Grand Avenue south of Sunset		$1,751 \\ 1,896$	3,588 4,363	1,991 $1,240$	1,867 1,238	3,858 2,478
Broadway south of Sunset		6,598	13,731	8,291	6,115	14,406
Spring Street south of Sunset		No Street		5,183	5,518	10,701
New High Street south of Sunset		2,979	6,356	444	649	1,093
Main Street south of Plaza		7,873	17,958	8,755	6,449	15,204
Los Angeles Street south of Aliso		11,211	21,515	12,509	11,294	23,803
Sub-total North Boundary Per Cent Increase	39,596	36,990	76,586	43,419 9.7%	$38,152 \\ 3.1\%$	81,571 6.5%
EAST BOUNDARY						
Commercial Street west of San Pedro		1,482	3,075	1,526	1,279	2,805
Market Street west of San Pedro		2,002	4,144	1,178	2,618	3,796
1st Street west of San Pedro		4,677 $4,391$	$10,123 \\ 8,103$	5,380 3,955	4,902 4,600	10,282 8,555
2nd Street west of San Pedro		5,706	9,821	5,420	5,742	11,162
3rd Street west of San Pedro		5,004	10,482	6,542	5,602	12,144
Boyd Street west of San Pedro	1,184	1,511	2,695	613	657	1,270
4th Street west of San Pedro		3,462	7,329	3,829	3,505	7,334
Winston Street west of San Pedro	,	1,457	2,876	$\begin{array}{c} 801 \\ 3,762 \end{array}$	1,040	1,841
6th Street west of San Pedro		4,201 5,307	7,744 $10,939$	8,304	4,201 7,718	7,963 $16,022$
7th Street west of San Pedro		6,030	13,239	6,263	5,736	11,999
8th Street west of San Pedro	6,697	6,460	13,157	7,777	6,688	14,465
9th Street west of San Pedro	and the second second	7,903	17,413	9,679	7,001	16,680
11th Street west of San Pedro		3,048	5,404	2,724	2,821	5,545
Pico Street west of San Pedro		4,241 3,813	8,568 7,219	4,169 $3,616$	3,981 4,095	8,150 7,711
15th Street west of San Pedro		1,391	3,261	2,519	1,544	4,063
16th Street west of San Pedro		3,901	7,785	2,861	3,657	6,518
Sub-total East Boundary Per Cent Increase		75,987	153,377	80,918 4.6%	77,387 1.8%	158,305 3.2%
SOUTH BOUNDARY						
Maple Avenue north of Washington	3,793	3,679	7,472	4,444	3,617	8,061
Santee Street north of Washington		2,314	4,843	1,835	1,150	2,985
Los Angeles Street north of Washington		7,553	13,957	5,189	6,252	11,441
Main Street north of Washington		10,032 No Street	20,703	7,687	7,844	15,531
Hill Street north of Washington		8,136	18,851	7,354 $6,425$	5,503 5,075	12,857 11,500
Olive Street north of Washington		No Street	10,001	3,751	4,838	8,589
Grand Avenue north of Washington		5,982	12,382	4,761	4,754	9,515
Hope Street north of Washington		3,775	6,977	3,472	4,164	7,636
Flower Street north of Washington		4,105	6,828	9,843	7,288	17,131
Sub-total South Boundary		45,576	92,013	54,761 17.9%	50,485 10.8%	105,246 14.4%
WEST BOUNDARY						70
18th Street east of Figueroa	2,872	2,932	5,804	2,444	2,418	4,862
Venice Blvd. east of Figueroa		5,988	12,347	6,699	6,309	13,008
Pico Street east of Figueroa		9,775	19,737	9,871	8,622	18,493
12th Street east of Figueroa		$6,712 \\ 4,403$	13,715 8,680	6,835 3,642	6,426 3,843	13,261 $7,485$
Olympic Blvd. east of Figueroa		5,808	-10,741	4,876	5,580	10,456
9th Street east of Figueroa	6,271	7,429	13,700	4,956	6,118	11,074
8th Street east of Figueroa		10,365	19,930	9,862	11,537	21,399
7th Street east of Figueroa		9,583	20,468	7,333	7,642	14,975
Wilshire Blvd. east of Figueroa		No Street 7,739	16,360	$10,326 \\ 6,837$	8,527 6,615	18,853 13,452
5th Street east of Figueroa		6,491	14,929	6,077	6,598	12,675
4th Street east of Figueroa		1,910	4,704	1,604	1,261	2,865
3rd Street east of Figueroa		6,206	10,891	7,785	8,595	16,380
2nd Street east of Figueroa		9,112	19,754	11,917	10,098	22,015
1st Street east of Figueroa		5,046 $4,249$	9,938 $7,800$	4,801 8,779	5,028 8,025	9,829 16,804
Sub-total West Boundary	105,750	103,748	209,498	114,644	$\frac{0,023}{113,242}$	227,886
Per Cent Increase		000.001		8.4%	9.2%	8.8%
4 1 4 4 5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Z0535 173	262,301	531,474	293,742	279,266	573,008

TRAFFIC CHECKS AT BOUNDARIES OF OUTER CONGESTED DISTRICT

District No. 2

Counts Taken by Automobile Club of Southern California in 1929-30 and in 1937

FIGURES INDICATE NUMBER OF MOTOR VEHICLES COUNTED PER 16-HOUR WEEK-DAY — 6 A.M. TO 10 P.M.

	1929-1930 COUNTS		1936	UNTS		
STATION	In	Out	Total	In	Out	Total
NORTH BOUNDARY						
Glendale Blvd. south of Alvarado	13,670	$7,696 \\ 12,840$	15,289 $26,510$	8,839	8,959 19,208	17,798
Broadway at Solano	9,325	9,892 7,028	$\frac{19,217}{13,820}$	$\begin{array}{c} 20,400 \\ 10,655 \\ 7,967 \end{array}$	19,208 10,549 7,636	$ \begin{array}{r} 39,608 \\ 21,204 \\ 15,603 \end{array} $
Sub-total North Boundary Per Cent Increase		37,456	74,836	47,861 28.0%	46,352 23.8%	$94,213 \\ 25.9\%$
EAST BOUNDARY						
Macy Street at Los Angeles River Bridge	3,178 5,776	12,997 $4,106$ $5,431$ $3,773$	27,413 7,284 11,207 7,582	9,375 $9,291$ $8,746$ $6,664$	7,620 $10,137$ $8,526$ $6,551$	16,995* 19,428 17,272 13,215
6th Street at Los Angeles River Bridge	8,792 13,607	$8,605 \\ 13,554$	17,397 27,161	7,250 $6,329$ $14,164$ $1,893$	7,268 7,668 14,164 1,894	14,518 13,997 28,328* 3,787
Sub-total East Boundary		48,466	98,044	63,712 28.5%	63,828 31.7%	127,540 30.1%
SOUTH BOUNDARY						
Santa Fe Avenue north of 26th Street Alameda Street south of 25th Street Long Beach Avenue north of 38th Street Compton Avenue north of 38th Street Hooper Avenue north of 38th Street Central Avenue north of 34th Street Griffith Avenue north of Jefferson San Pedro Street north of Jefferson Trinity Street north of Jefferson Maple Avenue north of Jefferson	10,857 3,029 1,069 3,787 7,338 2,937 9,420 472	9,845 $11,481$ $3,165$ $1,056$ $3,955$ $7,323$ $2,985$ $9,260$ 450 $3,279$	20,649 22,338 6,194 2,125 7,742 14,661 5,922 18,680 922 6,653	$12,092 \\ 10,481 \\ 5,193 \\ 863 \\ 4,224 \\ 9,084 \\ 2,755 \\ 11,632 \\ 500 \\ 2,093$	10,939 11,255 5,999 863 4,116 8,959 3,286 10,118 500	23,031 21,736 11,192 1,726 8,340 18,043 6,041 21,750 1,000
Main Street north of Jefferson. Broadway north of Jefferson. Hill Street north of Jefferson. Grand Avenue north of Jefferson.	11,256 10,478	9,707 4,107	20,185 8,360	2,035 8,181 9,581 5,234 2,190	2,181 8,277 7,533 6,229 2,282	4,274 $16,458$ $17,114$ $11,463$ $4,472$
Flower Street north of Jefferson. Figueroa Street north of Jefferson. University Avenue north of Jefferson.	15,004	14,501 535	29,505 1,099	9,406 8,897 1,140	7,216 $10,494$ $1,140$	16,622 19,391 2,280
Sub-total South Boundary Per Cent Increase		91,824	186,466	103,546	101,387 10.4%	204,933 9.9%
WEST BOUNDARY						
32nd Street east of Hoover. 30th Street east of Severance. 28th Street east of Hoover. Adams Street east of Hoover. 25th Street east of Hoover. 24th Street east of Hoover. Union Avenue north of 23rd Street. 23rd Street east of Union. 22nd Street east of Hoover. 21st Street east of Hoover. 20th Street east of Hoover. Burlington Avenue north of Hoover. Burlington Avenue north of Hoover. Venice Blvd. east of Hoover. Alvarado Terrace east of Alvarado. Westlake Avenue east of Alvarado. Pico Street east of Alvarado. 12th Street east of Alvarado. 12th Street east of Alvarado. 01ympic Blvd. east of Alvarado. 9th Street east of Alvarado. 8th Street east of Alvarado. 7th Street east of Alvarado. 6th Street east of Alvarado. 3rd Street east of Alvarado. 3rd Street east of Alvarado. Beverly Blvd. east of Alvarado. Temple Street east of Alvarado. Beverly Blvd. east of Alvarado. Sunset Blvd. east of Alvarado. Sunset Blvd. east of Alvarado.	1,598 1,024 6,740 435 84 2,983 2,715 232 160 329 1,196 10,298 6,829 472 472 8,464 4,994 2,800 2,701 5,725 8,388 11,568 2,241 12,389 1,588 15,509 1,588 15,509 5,344 13,732	$\begin{array}{c} 1,539\\ 964\\ 6,821\\ 387\\ 76\\ 2,729\\ 2,568\\ 226\\ 153\\ 327\\ 1,160\\ 9,691\\ 6,417\\ 450\\ 8,176\\ 450\\ 8,176\\ 4,633\\ 2,705\\ 2,970\\ 5,575\\ 9,304\\ 10,518\\ 2,526\\ 1,343\\ 1,590\\ 26,113\\ 12,615\\ 880\\ \end{array}$	3,137 $1,988$ $13,561$ 822 160 $5,712$ $5,283$ 458 313 656 $2,356$ $19,989$ $13,246$ 922 922 $16,640$ $9,627$ $5,505$ $5,671$ $11,300$ $17,692$ $22,086$ $4,767$ $23,732$ $3,178$ $30,011$ $11,457$ $26,347$ $1,837$	$\begin{array}{c} 1,592\\ 1,000\\ 1,000\\ 1,000\\ 1,000\\ 1,863\\ 450\\ 100\\ 3,210\\ 2,240\\ 230\\ 160\\ 350\\ 1,200\\ 0\\ 1,2466\\ 7,844\\ 5000\\ 500\\ 9,286\\ 4,538\\ 2,076\\ 2,351\\ 4,941\\ 11,515\\ 6,789\\ 13,652\\ 8,331\\ 12,137\\ 12,798\\ 8,181\\ 13,455\\ 644\\ \end{array}$	$\begin{array}{c} 1,592\\ 1,000\\ 1,000\\ 1,000\\ 7,898\\ 450\\ 100\\ 2,700\\ 2,449\\ 230\\ 160\\ 350\\ 1,200\\ 12,701\\ 6,674\\ 500\\ 500\\ 8,334\\ 4,450\\ 2,286\\ 3,647\\ 5,350\\ 12,794\\ 6,789\\ 12,934\\ 6,789\\ 12,934\\ 3,534\\ 1,934\\ 6,789\\ 12,934\\ 6,789\\ 12,934\\ 6,789\\ 12,934\\ 6,789\\ 12,934\\ 6,789\\ 12,934\\ 6,789\\ 12,934\\ 6,789\\ 12,934\\ 6,789\\ 12,934\\ 6,789\\ 12,934\\ 6,789\\ 12,934\\ 6,789\\ 12,934\\ 6,789\\ 12,934\\ 6,789\\ 12,934\\ 6,789\\ 12,934\\ 6,789\\ 12,934\\ 6,789\\ 12,934\\ 6,789\\ 12,934\\ 6,789\\ 13,534\\ 6,789\\ 13,534\\ 6,789\\ 13,636\\ 6,26$	$\begin{array}{c} 3,184\\ 2,000\\ 2,000\\ 2,000\\ 15,761\\ 900\\ 200\\ 5,910\\ 4,689\\ 460\\ 320\\ 700\\ 2,400\\ 2,5167\\ 14,518\\ 1,000\\ 1,000\\ 17,620\\ 8,988\\ 4,362\\ 5,998\\ 10,291\\ 24,309\\ 13,578\\ 26,586\\ 16,628\\ 21,776\\ 26,332\\ 16,032\\ 16$
Sub-total West Boundary Per Cent Increase		127,908	259,375	151,399 15.2%	$^{149,152}_{16.6\%}$	$300,551 \\ 15.9\%$
GRAND TOTAL		305,654	618,721	366,518 17.1%	360,719 18.0%	727,237 17.5%

TRAFFIC CHECKS AT BOUNDARIES OF RESIDENTIAL DISTRICT

District No. 3

Counts Taken by Automobile Club in 1930 and in March and April 1937

FIGURES INDICATE NUMBER OF MOTOR VEHICLES COUNTED PER 16-HOUR WEEK-DAY — 6 A.M. TO 10 P.M.

		1930 COUNT	1937 COUNTS			
STATION	In	Out	Total	In	Out	Total
NORTH BOUNDARY						
Western Avenue north of Los Feliz. Vermont Avenue north of Los Feliz. Griffith Park Blvd. north of Los Feliz. Riverside Drive north of Los Feliz. Los Feliz east of Los Angeles River. Hyperion north of Waverly. Glendale north of Riverside Drive. Fletcher Drive north of Riverside Drive. San Fernando Road at Cazader. Figueroa Street at Avenue 49. Monterey Road south of Pullman.	5,574 7,819 9,885	7,740 2,640 5,427 7,615 9,761 11,369	$\begin{array}{c} 15,140 \\ 5,238 \\ 11,001 \\ 15,434 \\ 19,646 \\ 22,219 \end{array}$	684 980 701 7,498 11,632 4,829 6,424 13,263 13,711 11,159 3,773	883 1,316 979 6,574 11,449 4,785 6,062 12,901 13,301 11,077 3,843	1,567 2,296 1,680 14,072 23,081 9,614 12,486 26,164 27,012 22,236 7,616
Sub-total North Boundary Per Cent Increase	44,126	44,552	88,678	74,654 69.2%	73,170 64.2%	147,824 66.7%
EAST BOUNDARY						
Huntington Drive west of Poplar	8,227	$11,459 \\ 7,933$	23,337 16,160	$\begin{array}{c} 10,776 \\ 9,515 \\ 7,237 \end{array}$	10,660 8,313 7,238	21,436 17,828 14,475†
Garvey Avenue at Monterey Pass. East 3rd Street west of Atlantic Avenue. Beverly Blvd. west of Atlantic Avenue	3,667	3,651	7,318	$\begin{array}{c} 2,231 \\ 881 \\ 3,233 \end{array}$	2,058 836 3,027	4,289 1,717 6,260
Whittier Blvd. west of Atlantic Ave 9th Street west of Atlantic Avenue. Anaheim-Telegraph Road west of Atlantic Avenue Washington Blvd. west of Atlantic Avenue		6,330 $3,309$ $2,626$	$13,102 \\ 6,207 \\ 5,322$	7,908 5,463 4,501 586	7,379 5,648 4,502 553	15,287 11,111 9,003† 1,139
Bandini Blvd. west of Atlantic Avenue	1,060 2,933	905 2,845	1,965 5,778	1,625 3,119	595 3,026	2,220 6,145
Sub-total East Boundary	40,131	39,058	79,189	$57,075 \\ 42.2\%$	53,835 37.8%	110,910 40.1%
SOUTH BOUNDARY Maywood Avenue north of Slauson	0.05	200	1.074	1 201	1.504	0.005
Maywood Avenue north of Slauson Boyle Avenue north of Slauson Soto Street north of Slauson Pacific Avenue north of Slauson Alameda Street north of Slauson Santa Fe Avenue north of Slauson Long Beach Avenue north of Slauson Compton Avenue north of Slauson Central Avenue north of Slauson Avalon Blvd. north of Slauson San Pedro Street north of Slauson Main Street north of Slauson Broadway north of Slauson Figueroa Street north of Slauson Hoover Street north of Slauson Vermont Avenue north of Slauson Normandie Avenue north of Slauson Normandie Avenue north of Slauson Sub-total South Boundary Per Cent Increase	686 8,174 9,038 6,807 831 3,717 5,943 8,342 7,175 7,893 12,149 4,377 3,496 8,765	809 3,422 648 7,348 9,491 6,634 1,155 3,726 5,759 7,891 7,358 8,049 11,998 4,327 8,694 3,497 8,681	1,674 6,786 1,334 15,522 18,529 13,441 1,986 7,443 11,702 16,233 14,533 15,942 24,147 8,704 17,391 6,993 17,446 199,806	$\begin{array}{c} 1,801\\ 2,272\\ 3,258\\ 7,101\\ 5,845\\ 9,990\\ 7,394\\ 1,801\\ 2,693\\ 5,791\\ 8,152\\ 3,055\\ 7,555\\ 7,555\\ 7,520\\ 14,291\\ 5,732\\ 9,024\\ 4,585\\ 10,107\\ \hline 118,653\\ 18.3\% \end{array}$	$\begin{array}{c} 1,594\\ 2,472\\ 2,556\\ 7,795\\ 6,375\\ 9,325\\ 7,410\\ 2,582\\ 2,405\\ 5,997\\ 7,250\\ 2,560\\ 8,070\\ 8,034\\ 13,814\\ 4,335\\ 10,120\\ \hline 116,764\\ 17,4\% \end{array}$	3,395 4,744 5,814 14,896 12,220 19,323 14,804 4,383 5,098 11,788 15,623 16,234 28,105 10,961 17,865 8,920 20,227 235,417 17,8%
WEST BOUNDARY						
54th Street west of Arlington 48th Street west of Arlington Vernon Avenue west of Arlington Santa Barbara Avenue west of Arlington Rodeo Road west of Arlington Jefferson west of Arlington Adams west of Arlington Washington Boulevard west of Arlington Venice west of Arlington Olympic west of Arlington Olympic west of Arlington Olympic west of Wilton Place 8th Street west of Van Ness 6th Street west of Van Ness 3rd Street west of Van Ness Beverly Blvd. west of Van Ness Melrose west of Van Ness Santa Monica west of Van Ness Sunset Blvd. west of Van Ness Hollywood west of Van Ness Franklin Avenue west of Van Ness Franklin Avenue west of Van Ness	2,401 3,661 4,231 6,170 7,109 10,158 5,361 10,900 4,211 1,586 22,903 2,572 7,792 11,330 10,804 8,987 11,779 9,715 5,560	$\begin{matrix} 6,925\\ 10,191\\ 5,189\\ 10,850\\ 4,232\\ 1,446\\ 20,924\\ 2,714\\ 7,387\\ 11,542\\ 9,621\\ 8,331\\ 11,649\\ 10,783\\ 6,866\\ \end{matrix}$	6,143 4,786 7,427 8,396 12,376 14,034 20,349 10,550 21,750 8,443 3,032 43,827 5,286 15,179 22,872 20,425 17,318 23,428 20,498 12,426	3,198 2,650 3,942 8,499 1,761 6,274 8,138 10,016 8,999 10,762 5,701 7,844 19,085 3,427 13,561 12,526 10,867 11,653 15,603 9,822 7,133	$\begin{array}{c} 3,943\\ 2,653\\ 3,802\\ 7,602\\ 1,754\\ 6,052\\ 7,785\\ 10,961\\ 8,085\\ 5,646\\ 8,576\\ 2,3496\\ 9,187\\ 11,678\\ 12,360\\ 9,187\\ 11,678\\ 15,950\\ 10,445\\ 8,595\\ \end{array}$	$\begin{array}{c} 7,141 \\ 5,303 \\ 7,744 \\ 16,101 \\ 3,515 \\ 12,326 \\ 15,923 \\ 20,977 \\ 17,084 \\ 20,844 \\ 11,347 \\ 16,420 \\ 37,787 \\ 6,923 \\ 24,886 \\ 20,054 \\ 23,331 \\ 31,553 \\ 20,267 \\ 15,728 \end{array}$
Sub-total West Boundary Per Cent Increase		148,270	298,545	$\frac{181,461}{20.8\%}$	$\frac{178,642}{20.5\%}$	$360,103 \\ 20.6\%$
GRAND TOTAL Per Cent Increase		331,367	666,218	431,843 29.0%	422,411 27.5%	854,254 28.2%

TRAFFIC CHECKS AT BOUNDARIES OF SUBURBAN DISTRICT

District No. 4

Counts Taken by Automobile Club of Southern California in May 1930 and April 1937

FIGURES INDICATE NUMBER OF MOTOR VEHICLES COUNTED PER 16-HOUR WEEK-DAY - 6 A.M. TO 10 P.M.

	1	930 COUNTS	S	19	37 COUNT	S
STATION	In	Out	Total	In	Out	Total
NORTH BOUNDARY	1.014	0.040	0.070	0.451	0.000	4.040
Lankershim Blvd. north of Sherman Way San Fernando Road south of Radford	3,127	2,042 3,118	3,956 6,245	$\frac{2,471}{4,447}$	2,369 4,448	4,840 8,895†
Sunland Blvd. north of San Fernando Road Verdugo Road south of La Crescenta Avenue	3,988	$1,029 \\ 4,258$	$2,159 \\ 8,246$	$\begin{array}{c} 2,145 \\ 6,447 \end{array}$	2,030 6,399	$\frac{4,175}{12,846}$
La Canada-Verdugo Road, Flintridge Sub-total North Boundary		$\frac{2,101}{12,548}$	$\frac{4,079}{24,685}$	$\frac{2,862}{18,372}$	$\frac{2,862}{18,108}$	$\frac{5,724 \dagger}{36,480}$
Per Cent Increase	12,101	12,010	21,000	51.4%	44.3%	47.8%
EAST BOUNDARY Sierra Madre Blvd, west of Sierra Madre Avenue		No Road		895	754	1.649
Foothill Blvd. west of Rosemead	2,906	2,336 No Road	5,242	$\frac{3,435}{6,408}$	3,436 6,408	6,871 12,816†
Huntington Drive west of Rosemead	2,929	3,037	5,966	3,890 380	3,570 430	7,460
Duarte Road west of Rosemead. Las Tunas Drive west of Rosemead.	$742 \\ 1,254$	698 1,308	$\frac{1,440}{2,562}$	$975 \\ 2,185$	800 2,410	1,775 4,595
Broadway west of Rosemead		468	963	990	895	1,885
Mission Drive west of Rosemead. Valley Blvd. west of Rosemead Garvey Avenue west of Rosemead		852 4,083	1,834 8,342	$\frac{1,135}{5,503}$	1,135 $5,601$	2,270 $11,104$
Syphon Avenue west of Rosemead	1,089	$\begin{array}{c} 2,052 \\ 991 \end{array}$	$\frac{4,185}{2,080}$	$7,330 \\ 900$	$7,330 \\ 900$	14,660† 1,800
Beverly Blvd. west of San Gabriel Avenue	6,992	$\frac{1,195}{8,356}$	$\begin{array}{c} 2,311 \\ 15,348 \end{array}$	$\begin{array}{c} 2,166 \\ 5,274 \end{array}$	$\frac{1,726}{5,274}$	$3,892 \\ 10,548\dagger$
Telegraph Road west of San Gabriel Blvd Easy Street west of San Gabriel Blvd	3,224	$\frac{3,239}{709}$	$6,463 \\ 1,288$	$\begin{array}{c} 3,215 \\ 613 \end{array}$	$\frac{2,850}{709}$	$6,065 \\ 1,322$
Firestone Blvd. west of Woodruff	738	$\frac{792}{831}$	1,530 $1,609$	2,780 · 855	2,779 740	5,559† 1,595
Sub-total East Boundary		30,947	61,163	48,929	47,747	96,676
Per Cent Increase				61.9%	54.3%	58.1%
Somerset Avenue north of Compton BlvdLakewood Blvd. north of Compton Blvd	575	583	1,158	851 560	507 797	1,358 1,357
Paramount Blvd. north of Compton Blvd	2,085	2,271	4,356	3,054	3,036	6,090
Michigan Avenue north of Compton BlvdOrange Avenue north of Compton Blvd		1,129	2,051	1,439 218	$\begin{array}{c} 1,315 \\ 306 \end{array}$	$2,754 \\ 524$
Atlantic Blvd. north of Compton Blvd Long Beach Blvd. north of Compton Blvd	7,965	$\frac{3,172}{8,319}$	$6,371 \\ 16,284$	$\frac{4,246}{7,380}$	$\frac{4,498}{7,327}$	$8,744 \\ 14,707$
Alameda Street north of Compton Blvd		5,416	10,297	$3,477 \\ 1,575$	$\frac{4,484}{1,703}$	7,961* 3,278
Wilmington Avenue north of Compton Blvd	1,262	$1,159 \\ 1,333$	$\frac{2,421}{2,687}$	1,357 900	$\frac{1,028}{1,077}$	2,385 1,977
Avalon Blvd. north of Compton Blvd	1,288	1,486	2,774	$\frac{2,091}{1,745}$	$\frac{2,022}{1,535}$	4,113 3,280
Main Street north of Redondo Beach Blvd Broadway north of Redondo Beach Blvd	1,741	2,154 1,040	$\frac{3,895}{2,316}$	1,409 860	1,409 700	2,818 1,560
Figueroa Street north of Redondo Beach BlvdVermont Avenue north of Redondo Beach Blvd		4,163	8,093	$2,556 \\ 3,312$	$\frac{2,580}{3,371}$	5,136 6,683
Western Avenue north of Redondo Beach Blvd	2,335	2,440	4,775	2,632	2,506	5,138
Prairie Avenue north of Redondo Beach Blyd	831	834	1,665	$\frac{416}{597}$	441 577	857 1,174
Inglewood Avenue north of Redondo Beach Blvd	$\frac{1,350}{351}$	$\frac{1,543}{386}$	$\frac{2,893}{737}$	$ \begin{array}{r} 1,824 \\ 438 \end{array} $	$\frac{1,825}{416}$	3,649† 854
Sub-total South Boundary Per Cent Increase		37,428	72,773	$\frac{42,937}{21.5\%}$	$\frac{43,460}{16.1\%}$	86,397 18.7%
WEST BOUNDARY						
Center Street east of Inglewood-Redondo Road Rosecrans Avenue east of Inglewood-Redondo Road	428	$\begin{array}{c} 306 \\ 422 \end{array}$	$\frac{611}{850}$	$\frac{340}{700}$	$\frac{340}{700}$	680 1,400
El Segundo Blvd. east of Inglewood-Redondo Road Imperial Highway east of Inglewood-Redondo Road	928	$\frac{701}{933}$	$1,299 \\ 1,861$	$\frac{452}{2,384}$	$\begin{array}{c} 593 \\ 2,301 \end{array}$	$\frac{1,045}{4,685}$
Century Blvd. east of Inglewood-Redondo Road Arbor Vitae Street east of Inglewood-Redondo Road				148 185	$\begin{array}{c} 122 \\ 233 \end{array}$	270 418
Manchester Avenue east of Inglewood-Redondo Road Redondo Blvd. north of Manchester Avenue		898	1,719	$2,\overline{176} \\ 1,\overline{238}$	$2,536 \\ 1,015$	$4,712 \\ 2,253$
Centinela Blvd. east of La Tijera. La Tijera and Slauson west of La Brea	1,994	2,337 1,511	4,331 2,864	1,330 6,038	1,675 6,090	3,005 12,128
Washington Blvd, west of National. Venice Blvd, west of National.	9,028	9,660	18,688 7,080	5,737 9,577	5,605 9,384	11,342* 18,961
National Blvd. west of Robertson	1,783	3,465 $1,874$	3,657	2,230	2,560	4,790
Pico Blvd. east of Beverly DriveOlympic Blvd. west of Doheny Drive		8,301	16,474	$\begin{array}{c} 11,123 \\ 7,685 \end{array}$	11,008 8,561	$ \begin{array}{r} 22,131 \\ 16,246 \end{array} $
Wilshire Blvd. west of Doheny Drive	2,195	$12,734 \\ 1,950$	26,348 4,145	15,654 5,888	$14,973 \\ 4,530$	30,627 $10,418$
3rd Street west of Doheny Drive	11.037	11,110	22,147	$1,088 \\ 15,038$	$\begin{array}{c} 2,040 \\ 15,228 \end{array}$	$\frac{3,128}{30,266}$
Sunset Blvd. west of Holloway Drive Laurel Canyon Blvd. north of Hollywood Blvd	1 802	$\begin{array}{c} 5,702 \\ 1,675 \end{array}$	$\frac{11,238}{3,477}$	$11,704 \\ 4,348$	$\frac{12,056}{4,344}$	$\frac{23,760}{8,692}$
Ventura Blyd, east of Laurel Canyon Blyd	4.289	4,054	8,343	$6,408 \\ 773$	6,018 680	$12,426 \\ 1,453$
Moorpark Street east of Laurel Canyon Blvd. Riverside Drive east of Laurel Canyon Blvd. Magnolia Blvd. east of Laurel Canyon Blvd.	740 576	717 645	$1,457 \\ 1,221$	$\frac{1,922}{1,660}$	1,949 1,660	3,871 3,320
Chandler Blvd. east of Laurel Canyon Blvd	753	866 567	1,619 1,081	1,337 765	1,338 765	2,675
Burbank Blvd. east of Laurel Canyon Blvd	233	202	435	420	420	1,530 840
Victory Blvd. east of Laurel Canyon Blvd Van Owen Street east of Laurel Canyon Blvd	553	$1,126 \\ 532 \\ 145$	2,238 1,085	2,245 857	2,245 858	$4,490 \\ 1,715$
Sherman Way west of Lankershim Blvd		$\frac{147}{72,435}$	$\frac{292}{144,560}$	$\frac{402}{121,852}$	$\frac{359}{122,186}$	$\frac{761}{244,038}$
Per Cent Increase				68.9%	68.7%	68.8%
GRAND TOTAL Per Cent Increase.		153,358	303,181	232,090 54.9%	231,501 51.0%	463,591 52.9%
				01.0 /0	01.070	02.076

TRAFFIC CHECKS AT LOS ANGELES COUNTY LINE

AVERAGE WEEK-DAY — 6 A.M. to 10 P.M.

Counts on State Highways Based on State Surveys of July 1930 and July 1936 Counts on County Roads by Automobile Club, September 1930 and March 1937

	19	30 COUNT	S	1936	-1937 COU	NTS
STATION AT LOS ANGELES COUNTY LINE	In	Out	Total	In	Out	Total
Malibu Road, Route 60	942 989 460	$\begin{array}{c} 945 \\ 990 \\ 429 \end{array}$	1,887 1,979 889	1,852 778 640	1,853 778 641	3,705 1,556* 1,281
Santa Paula-Castaic, Route 79	$508 \\ 1,168 \\ 312$	$508 \\ 1,167 \\ 311$	$1,016 \\ 2,335 \\ 623$	$\begin{array}{c} 659 \\ 2,272 \\ 542 \end{array}$	$\begin{array}{c} 660 \\ 2,272 \\ 541 \end{array}$	1,319 4,544 1,083
Base Line Avenue, Route 190	1,630 908	1,629 788	$\begin{smallmatrix} 0 \\ 3,259 \\ 1,696 \end{smallmatrix}$	$\begin{array}{c} 73 \\ 2,650 \\ 565 \end{array}$	$\begin{array}{c} 73 \\ 2,649 \\ 747 \end{array}$	$146 \\ 5,299 \\ 1,312$
Holt Avenue, Route 26. 5th Avenue, Route 19. Whittier Blvd., Route 2.	3,463 $1,586$ $2,351$	3,463 $1,587$ $2,350$	6,926 $3,173$ $4,701$	4,832 $2,276$ $2,941$	4,832 $2,276$ $2,941$	9,664 4,552 5,882
Telegraph Road Imperial Highway La Mirada Road, Route 171.	1,264 2,934	1,199 2,889	$2,463 \\ 0 \\ 5,823$	$1,208 \\ 245 \\ 1,042$	$943 \\ 245 \\ 1,042$	2,151 490 2,084†
Firestone Blvd., Route 174	797 1,499	904 1,480	$0 \\ 1,701 \\ 2,979$	2,765 425 957	2,765 425 956	5,530 850 1,913
Lincoln Avenue, Route 178. Spring Street	2,171	2,306	$0* \\ 0 \\ 4,477$	$1,262 \\ 391 \\ 1,675$	1,263 392 1,675	2,525 783 3,350
Hathaway Avenue, Route 60	6,001	6,002	$\begin{smallmatrix}0\\12,003\end{smallmatrix}$	$3,391 \\ 2,260$	$3,391 \\ 2,261$	$6,782 \\ 4,521$
TOTAL Per Cent Increase	28,983	28,947	57,930	35,701 23.2%	35,621 23.1%	71,322 23.1%

^{*}Road under Construction.

TABLE No. 6

SHOWING NUMBER OF MOTOR VEHICLES ENTERING AND LEAVING THE CENTRAL BUSINESS DISTRICT (BOUNDED BY SUNSET, SAN PEDRO, WASHINGTON AND FIGUEROA STREET) ON AN AVERAGE WEEK DAY FROM 6 A.M. to 10 P.M.

Traffic Counts by Automobile Club of Southern California, 1936

	TOTAL VEHICLES		HOURLY D	TOTAL VEHICLES	
HOURS	In	Out	In	Out	ACCUMULATED IN DISTRICT
A.M.					
6- 7	9,046	6,524	2,522		2,522
7-8		13,065	14,384		16,906
8- 9		15,423	15,094		32,000
9-10		16,369	6,822		38,822
10-11	20,956	17,379	3,577		42,399
11-12		17,742	2,098		44,497
P.M.					11,101
12- 1	17.114	16,402	712		15 200
1- 2		17,220	947		$45,209 \\ 46,156*$
2- 3		19,762		262	
3- 4		21,477		2.373	45,894
4- 5		27,419		6,952	43,521 $36,569$
5-6		35,093		15,685	
6- 7		17,938		4.497	20,884
7-8		13,407	1,584	1,101	16,387
8- 9		12,195	2,001	152	17,971
9-10		11,851		3,343	17,819
				3,343	14,476
TOTAL	293,742	279,266			

 $^{{\}bf *Maximum\ number\ accumulated\ from\ vehicles\ crossing\ District\ Boundaries.}$

[†]Estimated from State Counts on Routes 62 and 171, July, 1936.

MISCELLANEOUS TRAFFIC COUNTS NUMBER OF MOTOR VEHICLES PER 16-HOUR WEEK-DAY FROM 6 A.M. TO 10 P.M.

Traffic Counts by Automobile Club of Southern California, September and August 1937

STREET	LOCATION	N or E	S or W	TOTAL
Silver Lake Boulevard	.East of Eagle Rock	5,263	$6,794 \\ 5,529 \\ 10,720$	13,074 10,792 21,281
Figueroa Street	North of Figueroa Street Bridge. South of Los Angeles River Bridge. On Los Angeles River Bridge.	13,886	8,710 15,112 6,513	15,015 28,998 14,205
Sunset Boulevard	On Los Angeles River Bridge East of Figueroa Street. North of Temple Street.	11,655	9,834 14,189 9,989	17,491 25,844 20,528
Figueroa Street	North of Olympic Boulevard. North of Washington Boulevard. North of 4th Street.	12,018	$12,545 \\ 12,388 \\ 11,226$	25,234 24,406 22,618
San Pedro Street	North of 3rd Street	12,529	10,293 $10,980$ $15,637$	19,820 23,509 31,099
Washington Boulevard	West of San Pedro Street	13,433	$16,793 \\ 14,604 \\ 7,987$	32,085 28,037 16,142
Workman Street	On Arroyo Seco Bridge	5,763	6,938 6,251 9,009	13,635 12,014 18,292
	North of 30th Street		9,464 11,166	19,584 22,365

TABLE No. 8

SHOWING NUMBER OF MOTOR VEHICLES CROSSING FIGUEROA STREET ON PRINCIPAL EAST AND WEST STREETS OUTSIDE CENTRAL BUSINESS DISTRICT PER 16-HOUR WEEK-DAY FROM 6 A.M. TO 10 P.M.

Traffic Counts by Automobile Club of Southern California, July and August 1937

STREET	LOCATION	EAST	WEST	TOTAL
NORTH OF SUNSET BOULE	VARD			
York Boulevard	East of Figueroa Street. West of Figueroa Street. South of Figueroa Street.	6.280	7,426 6,794 6,697	14,851 13,074 13,635
	South of Figueroa StreetEast of Figueroa Street		11,015 14,189	22,030 25,844
Sub-total North of Sun	set Boulevard	43,313	46,121	89,434
SOUTH OF WASHINGTON B	BOULEVARD			
23rd Street		2,240	15,637 2,449 7,898	31,099 4,689 15,761
Jefferson Boulevard	East of Figueroa Street. East of Figueroa Street. East of Figueroa Street.	7,976	998 7,774 1,780	2,283 15,750 4,447
Santa Barbara Avenue	North of Figueroa Street. East of Figueroa Street. East of Figueroa Street.	10.996	7,216 12,316 4,120	16,622 23,312 8,195
46th Street	East of Figueroa Street. East of Figueroa Street. East of Figueroa Street.	1,700	1,890 1,895 1,241	3,609 3,595 2,255
Slauson Avenue		11.579	$ \begin{array}{c} 1,749 \\ 10,273 \\ 11,363 \end{array} $	3,657 $21,852$ $22,204$
Redondo Beach Bouleva		1,830	$^{11,276}_{1,830}$ 700	22,552 $3,660$ $1,400$
Sepulveda Boulevard . State Street		1,000 $3,500$	1,800 1,000 3,500 3,500	3,600 2,000 7,000 7,000
Sub-total South of Was	shington Boulevard		112,205	226,542
GRAND TOTAL OUTSI	IDE CENTRAL BUSINESS DISTRICT		158,326	315,976

SHOWING NUMBER OF MOTOR VEHICLES CROSSING OLYMPIC BOULEVARD ON PRINCIPAL NORTH-SOUTH STREETS OUTSIDE CENTRAL BUSINESS DISTRICT PER 16-HOUR WEEK-DAY FROM 6 A.M. TO 10 P.M.

Traffic Counts by Automobile Club of Southern California, July and August 1937

STREET	LOCATION	NORTH	SOUTH	TOTAL
WEST OF FIGUEROA STREET				
Lincoln Boulevard Sawtelle Boulevard	South of Olympic Boulevard	1,500	7,500 $1,500$ $3,703$	15,000 3,000 7,406†
Beverly Glen Boulevard	South of Olympic Boulevard	1,500	2,500 $1,500$ $2,257$	5,000 3,000 3,914
La Cienega Boulevard	North of Olympic Boulevard	8,279	3,483 8,199 5,429	7,287 16,478 9,375
La Brea Avenue		12,733	836 11,467 1,768	2,016 $24,200$ $3,977$
Crenshaw Boulevard	North of Olympic Boulevard	10,752	3,652 7,553 13,124	8,119 18,305 26,656
Vermont Avenue	North of Olympic Boulevard. North of Olympic Boulevard. North of Olympic Boulevard.	12,999	1,642 12,214 4,636	3,286 25,213 9,618
Union Avenue	North of Olympic Boulevard	4,466	8,215 $4,303$ $12,545$	$ \begin{array}{c} 16,489 \\ 8,769 \\ 25,234 \end{array} $
Sub-total West of Figueroa	Street		118,026	242,342
EAST OF SAN PEDRO STREET				
Central Avenue	South of Olympic Boulevard	9,407	$10,980 \\ 10,359 \\ 13,364$	$23,509 \\ 19,766 \\ 26,472$
Soto Street	South of Olympic BoulevardSouth of Olympic Boulevard	12,429	9,235 $12,075$ $6,362$	18,610 $24,504$ $13,045$
Atlantic Boulevard	South Anaheim-Telegraph Road	9,396	9,396	18,792*
Sub-total East of San Pedro	o Street	72,927	71,771	144,698
GRAND TOTAL OUTSIDE	CENTRAL BUSINESS DISTRICT		189,797	387,040

[†]State Highway Department Count, July, 1937.

TABLE No. 10

SHOWING NUMBER OF MOTOR VEHICLES IN THE CENTRAL BUSINESS DISTRICT (BOUNDED BY SUNSET, SAN PEDRO, WASHINGTON AND FIGUEROA STREET) ON AN AVERAGE WEEK-DAY IN SEPTEMBER, 1937, AT NOON

Parked	in	Garages
Parked	in	Parking Lots
		Curb
Moving	on	Streets
TOTAL	IN	DISTRICT53,456

^{*}State Highway Department Count, July, 1936.

CAPACITY AND AVERAGE DAILY USE OF PUBLIC PARKING GARAGES IN THE AREA BOUNDED BY SUNSET, SAN PEDRO, WASHINGTON AND FIGUEROA STREET

Determined by Survey by Automobile Club of Southern California, July 1929

FROM	то	NUMBER	Capacity at One Time (1)	Average Number of Cars Parked at One Time (1)	Average Number of Cars Parked Per Day (1)
BETWEEN FIGUEROA SAN PEDRO STREETS	AND				
Washington Blvd.	Venice Blvd	2	40	24	31
Venice Blvd	Pico Street	8	226	136	157
Pico Street	12th Street	4	315	193	200
12th Street	11th Street	2	65	30	35
	10th Street		464	309	370
10th Street	9th Street		1,255	1,060	1,882
9th Street	8th Street		1,384	1,001	1,386
8th Street	7th Street	5	575	430	610
7th Street	6th Street		730	600	900
6th Street	5th Street	8	920	685	900
5th Street	4th Street		3,308	2,615	3,450
4th Street	3rd Street		1,817	1,150	1,765
3rd Street	2nd Street	7	649	448	500
2nd Street	1st Street	1	115	55	60
1st Street	Temple-Market	4	540	395	450
Temple Street	Sunset Blvd	6	395	250	360
TOTAL		111	12,798	9,381	13,056

⁽¹⁾ Estimated by Operator.

TABLE No. 12

CAPACITY AND AVERAGE DAILY USE OF PUBLIC PARKING GARAGES IN THE AREA BOUNDED BY SUNSET, SAN PEDRO, WASHINGTON AND FIGUEROA STREET

FROM	TO	NUMBER	Capacity at One Time (1)	Average Number of Cars Parked at One Time (1)	Average Number of Cars Parked Per Day (1)
BETWEEN FIGUEROA SAN PEDRO STREETS	AND				
Washington Blvd.	Venice Blvd	2	75	35	50
Venice Blvd	Pico Street	5	153	79	114
Pico Street	12th Street	4	400	225	245
12th Street	11th Street	3	120	100	100
11th Street	Olympic Blvd		669	508	545
Olympic Blvd	9th Street,		1,405	1,205	1,984
9th Street	8th Street	16	1,265	978	1.073
8th Street	7th Street	7	940	712	930
7th Street	6th Street	9	1,030	815	1,110
6th Street	5th Street		1.091	870	1,295
5th Street	4th Street	13	3,448	2,745	3,630
4th Street	3rd Street	11	1,328	945	1,260
3rd Street	2nd Street	5	550	345	405
2nd Street	1st Street	1	115	50	60
1st Street	Temple Street .	6	465	315	355
Temple Street	Sunset Blvd	4	255	175	215
TOTAL		124	13,309	10,102	13,371

⁽¹⁾ Estimated by Operator.

CAPACITY AND AVERAGE DAILY USE OF PUBLIC PARKING LOTS IN THE AREA BOUNDED BY SUNSET, SAN PEDRO, WASHINGTON AND FIGUEROA STREET

Determined by Survey by Automobile Club of Southern California, July 1929

FROM	TO	NUMBER	Capacity at One Time (1)	Average Number of Cars Parked at One Time (1)
BETWEEN FIGUEROA AND SAN PEDRO STREETS				
Washington Blvd	Venice Blvd	16	3,030	206
Venice Blvd	Pico Street	15	638	220
Pico Street	12th Street	14	815	501
12th Street	11th Street	24	1,720	976
11th Street		19	2,335	1,725
10th Street	9th Street	35	4,612	3,535
9th Street	8th Street	34	2,906	2,250
8th Street	7th Street	35	3,922	2,924
7th Street	6th Street	29	2,814	2,103
6th Street	5th Street	22	2,267	1,553
5th Street	4th Street	22	2,228	1,645
4th Street	3rd Street	24	1,699	1,339
3rd Street	2nd Street	16	1,270	980
2nd Street	1st Street	16	1,076	658
1st Street	Temple-Market	14	1,312	761
Temple Street	Sunset Blvd		727	565
TOTAL		346	33,371	21,941

⁽¹⁾ Estimated by Operator.

TABLE No. 14

CAPACITY AND AVERAGE DAILY USE OF PUBLIC PARKING LOTS IN THE AREA BOUNDED BY SUNSET, SAN PEDRO, WASHINGTON AND FIGUEROA STREET

то	NUMBER	Capacity at One Time (1)	Average Number of Cars Parked at One Time (1)
Venice Blvd	41	3,250	504
Pico Street	59	2,775	1,049
12th Street	29	1,431	970
11th Street	44	2,496	1,408
Olympic Blvd	38	2,653	1,703
9th Street	57	4,435	3,422
8th Street	55	4,385	3,347
7th Street	39	4,215	3,139
6th Street	42	3,505	2,616
5th Street	26	2,230	1,687
4th Street	41	2,925	2,279
3rd Street	32	2,412	1,878
2nd Street	31	1,935	1,230
1st Street	27	1,892	1,439
Temple Street	22	1,600	1,060
Sunset Blvd	26	1,725	1,033
		43,864	28,764
	Venice Blvd.		TO NUMBER One Time (1) . Venice Blvd. 41 3,250 . Pico Street 59 2,775 . 12th Street 29 1,431 . 11th Street 44 2,496 . Olympic Blvd. 38 2,653 . 9th Street 57 4,435 . Sth Street 55 4,385 . 7th Street 39 4,215 . 6th Street 42 3,505 . 5th Street 42 3,505 . 5th Street 26 2,230 . 4th Street 41 2,925 . 3rd Street 31 1,935 . 3rd Street 32 2,412 . 2nd Street 31 1,935 . 1st Street 27 1,892 . Temple Street 22 1,600 . Sunset Blvd. 26 1,725

⁽¹⁾ Determined by Aerial Photographs, September 8, 1937.

NUMBER OF MOVING CARS ON THE STREETS AT 12:30 P.M. ON SEPTEMBER 8, 1937, IN THE AREA BOUND BY SUNSET, SAN PEDRO, WASHINGTON AND FIGUEROA STREET

Determined from Aerial Photographs by Automobile Club of Southern California

STREE	Γ	FROM	ТО		NUMBER
NORTH	I AND SOUTH STREETS				
	Figueroa Street	Washington Bou	levardTem	ple Street	189
	Grand Avenue Olive Street Hill Street	Washington Boul	levardTem	ple Street	122
	Broadway Spring Street Main Street	9th Street	Suns	set Boulevard	139
	Los Angeles Street Santee Street Maple Avenue	Washington Bou	levardNort	h of 8th Street	26
	Wall Street Cecilia Trinity-Myrtle San Julian	9th Street Washington Bou	8th levardPico	Street	1
	San Pedro	Arcadia	Plaz	a	3
	Sub-total North and South Str	eets			2,183
EAST	AND WEST STREETS				
	Washington Boulevard 18th Street 17th Street	Figueroa Street	Mair	a Street	11
	Venice Boulevard		San	Pedro Street	17
	Pico Street	Figueroa Street	San	Pedro Street	66
	10th Street	Figueroa Street	San	Pedro Street	120
	7th Street	Figueroa Street	Gra	nd Avenue	38
	5th Street	Main Street	San	Pedro Street	4
	Boyd Street	Figueroa Street	San	Pedro Street	
	1st Street	2nd Street	1st	Street	7
	Sunset Boulevard Court Street California	Flower Street		Street	1
	Boston Ft. Moore Jackson		Just	icia,	0
	Commercial Street Plaza		Los	Angeles Street	3
	Arcadia	Main Street	Los	Angeles Street	1
	Sub-total East and West Stre				-

SHOWING NUMBER OF VEHICLES PARKED AT THE CURB ON AVERAGE WEEK-DAY IN JULY, 1929, AND IN OCTOBER, 1937, IN THE AREA BOUNDED BY SUNSET, SAN PEDRO, WASHINGTON AND FIGUEROA STREET

Survey by Automobile Club of Southern California

STREET	FR	OM	то	NO. PAI 1929	1937
NORTH	AND SOUTH STREETS				
	Figueroa Street Wa Flower Street Wa Hope Street Wa	shington Boulevard	Temple Street	419 485 453	370 503 503
	Grand Avenue Wa Olive Street Wa Hill Street Wa	ashington Boulevard	Temple Street	592 675 485	533 526 428
	Hill Street Over Broadway Wa Broadway Over Over Over Over Over Over Over Over	ashington Boulevard	Sunset Boulevard	$\begin{array}{c} 35 \\ 420 \\ 121 \end{array}$	$\begin{array}{r} 40 \\ 464 \\ 94 \end{array}$
	Broadway PlaceMa Spring Street9th Main StreetWa	Street	Sunset Boulevard	20 307 493	19 280 503
	Los Angeles Street	mmercial Street	Sunset Boulevard	572 109 248	603 59 366
	Maple Avenue Wa Wall Street Wa Cecilia 9th	ashington Boulevardashington Boulevard	.5th Street	359 457	360 480 45
	Trinity-Myrtle	ashington Boulevardh Street	Pico Street	82 375	73 405 485
	Sanchez Arc Bunker Hill 4th Justicia Ft.	cadia 1 Street	.Plaza	36 188	36 126
	Margo Pic Clay 4th Stockton Sou	co Street	.14th Street		54 14 19
	PavilionSou	uth of California	• • • • • • • • • • • • • • • • • • • •		9
TARM	Sub-total North and South Streets AND WEST STREETS		• • • • • • • • • • • • • • • • • • • •	7,556	7,397
EAST	Washington Boulevard Fig. 18th Street Fig. 17th Street Ho	gueroa Street	. Main Street	130	139 140 184
	Venice Boulevard Fig. 15th Street Ho 14th Street Gr.	gueroa Street	.San Pedro Street	112 214	150 226 161
	14th Place Hi Pico Street Fi 12th Street Fi	ll Streetgueroa Street	.Main Street	149	41 205 183
	11th Street Fig. Olympic Boulevard Fig. 9th Street Fig.	gueroa Street	.San Julian Street	193	147 162 156
	8th Street	gueroa Street	.San Pedro Street	155	163 125 59
	$\begin{array}{cccc} 6 th \ Street & Fi_1 \\ 5 th \ Street & Fi_2 \\ Winston \ Street & Ma \end{array}$	gueroa Street	.San Pedro Street	228	79 149 109
	4th Street Fig. Boyd Street Lo 3rd Street Fig.	gueroa Streets Angeles Street	.San Pedro Street	. 187 . 53	146 57 85
	3rd Street Ov 2nd Street Fig 2nd Street Ov	ver Tunnelgueroa Street		16	28 29 30
	1st Street Fig. Weller 1st Temple Street Fig.	gueroa Street t Street	.San Pedro Street	. 183 . 50	134 53
	Sunset Boulevard Fig Court Street Fl California Fig	gueroa Streetower Street	.Los Angeles Street	. 78 . 100	50 85
	Boston Fig Ft. Moore Hi Jackson Lo	gueroa Streetill Street	Bunker Hill	. 38	106 5 24
	Market Street MacCommercial Street MacPlaza MacPlaza MacPlaza	ain Street	.San Pedro Street	. 33	6 2
	Aliso Lo Arcadia Ma Republic Ne	os Angeles Streetain Street	.San Pedro Street	. 16	3 1 2 10
	Sub-total East and West Streets				3,518
	GRAND TOTAL				10,915

SHOWING NUMBER OF VEHICLES PARKED AT CURB ON AVERAGE WEEK-DAY, OCTOBER, 1937, IN THE AREA BOUNDED BY FIRST, MAIN, NINTH AND FIGUEROA STREETS

Survey by Automobile Club of Southern California

STREET	FROM	то	NO. PARKED 1937
NORTH AND SOUTH	STREETS		
Flower Street .	9th Street 9th Street 9th Street	1st Street	205
Olive Street	9th Street	1st Street	272
Spring Street		1st Street	
	and South Streets		1,769
8th Street	REETSFigueroa StreetFigueroa StreetFigueroa StreetFigueroa Street		76
6th Street	rardFigueroa StreetFigueroa StreetFigueroa Street	Main Street	
3rd Street	Figueroa Street Figueroa Street Figueroa Street Figueroa Street		42
3rd Street	Figueroa Street Over Tunnel Over Tunnel		28
Sub-total East a	and West Streets		
GRAND TOTAL			

TABLE No. 18

CAPACITY AND AVERAGE DAILY USE OF PUBLIC PARKING GARAGES IN THE AREA BOUNDED BY FIRST, MAIN, NINTH AND FIGUEROA

FROM	то	NUMBER	Capacity at One Time (1)	Average Number of Cars Parked at One Time (1)	Average Number of Cars Parked Per Day (1)
BETWEEN FIGUEROA AND MAIN STREETS					
9th Street	8th Street		1.157	885	975
	7th Street		860	632	832
	6th Street		570	405	510
6th Street	5th Street	6	551	400	755
5th Street	4th Street	6	2,900	2,325	3,005
4th Street	3rd Street	6	1,090	750	1,055
3rd Street	2nd Street	3	215	110	120
2nd Street	1st Street	<u>1</u>	115	50	60
TOTAL		46	7,458	5,557	7,312

⁽¹⁾ Estimated by Operator.

CAPACITY AND AVERAGE DAILY USE OF PUBLIC PARKING LOTS IN THE AREA BOUNDED BY FIRST, MAIN, NINTH AND FIGUEROA

FROM	TO NU	MBER	Capacity at One Time (1)	Average Number of Cars Parked at One Time (1)
BETWEEN AND MAIN	FIGUEROA STREETS			
9th	Street8th Street	32	2,870	2,267
8th	Street7th Street	20	2,035	1,650
7th	Street6th Street	21	1,880	1,497
6th	Street5th Street	15	1,245	940
5th	Street4th Street	26	2,245	1,737
4th	Street3rd Street	22	1,837	1,425
3rd	Street2nd Street	25	1,710	1,049
2nd	Street1st Street	23	1,522	1,160
тот	YAL	184	15,344	11,725

⁽¹⁾ Determined by Aerial Photographs, September 8, 1937.



MEMORANDA