

PARKS PLAYGROUNDS  
AND BEACHES FOR  
THE LOS ANGELES REGION

PARKS, PLAYGROUNDS  
AND BEACHES  
FOR THE LOS ANGELES REGION

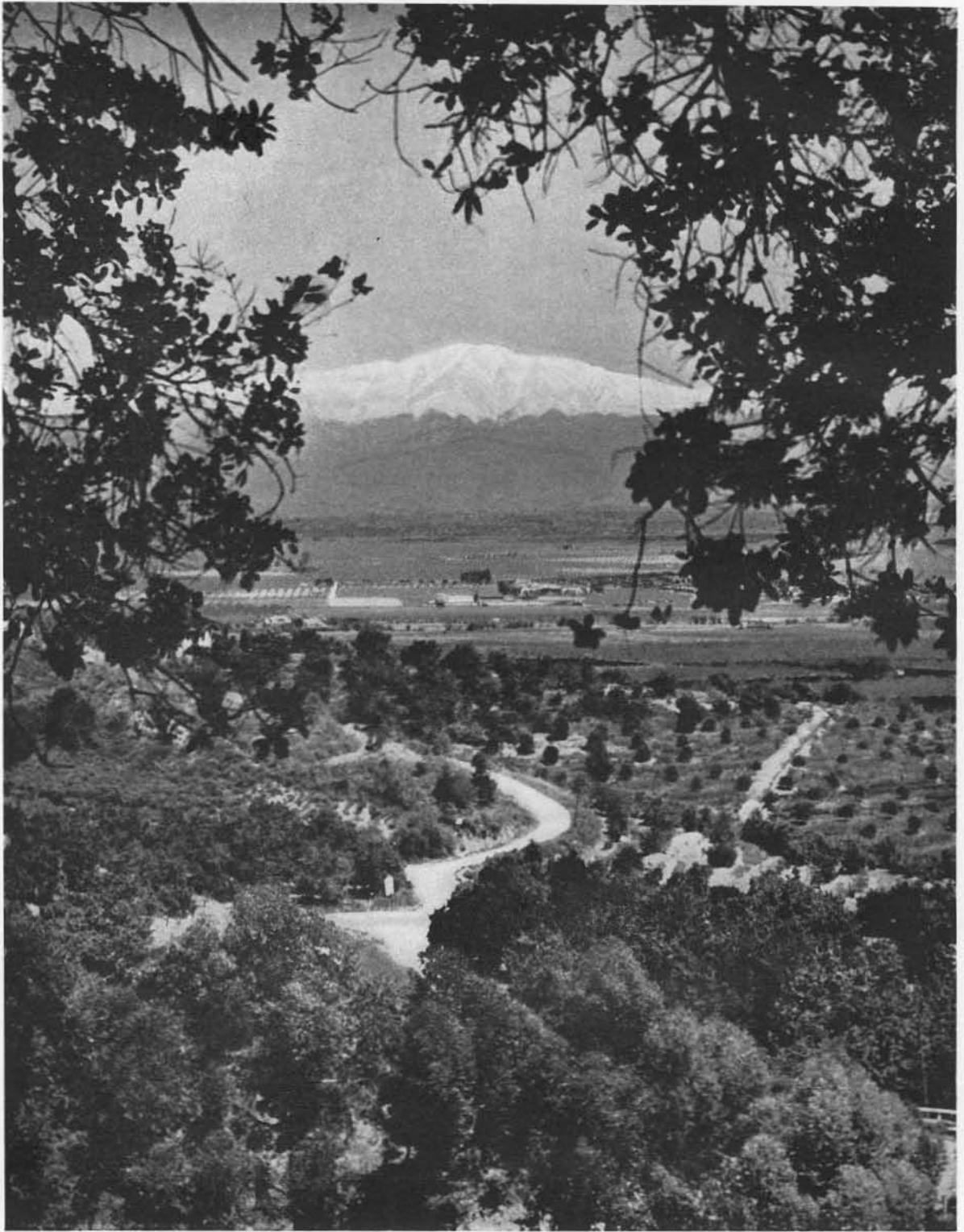


PLATE 1. View toward the mountains from the proposed parkway along the Puente Hills.

PARKS, PLAYGROUNDS<sup>c</sup>  
AND BEACHES  
FOR THE LOS ANGELES REGION

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*A Report submitted to the Citizens' Committee on Parks, Playgrounds,  
and Beaches, by Olmsted Brothers and Bartholomew  
and Associates, Consultants*

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1930

LOS ANGELES, CALIFORNIA

~~Van Kleen Smith~~

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## LETTER OF TRANSMITTAL

*To the Members of the  
Citizens' Committee on Parks, Playgrounds and Beaches:*

The Citizens' Committee on Parks, Playgrounds and Beaches was organized during 1927 at the instance of the Los Angeles Chamber of Commerce. It was charged with responsibility for the following tasks:

- (a) To make a survey of existing conditions as to publicly owned parks, playgrounds and beaches throughout the County;
- (b) To prepare a report as to needed amplification of these facilities;
- (c) To submit recommendations as to ways and means of carrying out the foregoing program.

In fulfillment of these tasks the report herewith transmitted has been prepared by Olmsted Brothers and Bartholomew & Associates, Landscape Architects and City Planners, entitled *Parks, Playgrounds and Beaches for the Los Angeles Region*. It has been printed for distribution to the members of the Citizens' Committee.

The report contains a survey of the present parks and other grounds giving recreation service in the part of Los Angeles County chiefly lying south of the mountains and comprising about 1,500 square miles. It compares this service with that of other American regions of similar size and circumstances. It then describes the unique characteristics of the Los Angeles Region, in regard to which there can be no profitable comparison with other regions. Recommendations are made as to needed enlargement of recreation facilities, and as to ways and means of carrying out plans for enlargement.

The report finds the Los Angeles Region far short not only of the minimum recreation facilities of the average American city, but also of those that are especially needed here. Its recommendations for remedying this condition are made in detail; they are supported throughout by analogies from the experience of other great cities in this country; and the detailed recommendations are clearly summarized in each instance. The report contains an array of facts, statistics, and maps to illustrate the recommendations; and a much larger accumulation of these, too voluminous to print here, will be deposited with the Los Angeles Chamber of Commerce in further support of the policy advocated.

The situation revealed by the report is so disquieting as to make it highly expedient to impress upon the public as soon as possible the present crisis in the welfare of Los Angeles and the surrounding region. It shows that the park question is closely related to the community's health, and that the policy followed in the past is by no means a safe one from now on, since there is a radical difference between the needs of a small city and a great one in the matter of park and recreation facilities. The requirements of a great city of the motor-vehicle age are shown by the report to be sharply distinguished from those of the age in which older cities developed, and the distinction of the Los Angeles Region in this regard is clearly brought out in the report.

Your executive committee believes that the acquisition of lands specified in the report, the general policy it recommends, and the form of administration it proposes, are the best obtainable specifications and recommendations. And the committee is especially impressed with the need for proceeding immediately with an endeavor to arouse the public to the same sense of urgency that is felt by the experts and this committee.

The eventual requirements of the Region will be evident to those who seriously examine the situation, and no preconceptions should stand in the way of that examination. The fact that the Los Angeles Region is committed to other great outlays should not close our minds against a study of the outlay here proposed. The fact that it is a large outlay should not discourage action, for the need is large. Nor is the absolute amount for which the Region is already bonded the sole test of our capacity to satisfy this need. It is important to consider the question also from the standpoint of the relative or per capita cost and of the probable effect upon the tax rate.

The dilemma confronting us is the large expenditure involved in action, on the one hand, and the heavy penalty of delay, on the other. The way to reconcile our needs with our means is to assign the task to a competent body, charged with power and responsibility. The great program of park development contained in this report can be carried out in measured steps under firm and wise management without increasing taxes beyond 15 cents on the \$100 of assessed valuation as a maximum in any year; normally a lower rate can be maintained, averaging about 10 cents. This is equivalent to the cost of operating each pleasure automobile in the County approximately eight miles per month. A city destined to be one of the great cities of the earth is justified in assuming such a burden for the well-being of its inhabitants and for its renown throughout the world.

Your executive committee takes this opportunity to thank the men who have prepared this report for their unwearied devotion to their task, which has been of a magnitude that few can appreciate who have not accomplished similar studies. The services of Mr. George Gibbs, assistant to the consultants, deserve especial mention, as

do also the excellent co-operation and assistance rendered by Mr. Hugh Pomeroy, Executive Secretary of the Citizens' Committee on Parks, Playgrounds and Beaches.

Acknowledgment is hereby made of the important services furnished to the committee without charge by O'Melveny, Tuller & Myers; Eberle Economic Service; Price, Waterhouse & Company; Rogers Aircraft, Inc. and others; and the invaluable aid rendered by the Automobile Club of Southern California; the Park Departments and Playground Departments and other officials of the County and its various cities.

At an early date a meeting of the Citizens' Committee on Parks, Playgrounds and Beaches will be called to discuss the program set forth here, and determine what steps shall be taken toward making it public.

Respectfully yours,

EXECUTIVE COMMITTEE,  
*Citizens' Committee on Parks,  
Playgrounds and Beaches.*

JOHN TREANOR, *Chairman.*

PART ONE  
GENERAL REPORT

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PART ONE—GENERAL REPORT

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CHAPTER I

GENERAL CONSIDERATIONS AND SUMMARY OF  
CONCLUSIONS

THE metropolitan part of Los Angeles County, which may be called "the Los Angeles Region," is the site of more than forty prosperous cities; in addition to the City of Los Angeles. Here are over two million people in an area of fifteen hundred square miles. The Region is noted for its many natural charms and its varied human interests. The population is increasing very rapidly and changing somewhat in character. As it does so the Region is losing some of its most valued charms, for lack of a methodical plan for preserving them. Among the things that make it most attractive are the very ones that are the first to suffer from changes and deteriorate through neglect. Especially attractive, and especially subject to destruction, are the opportunities offered in the Region for enjoyment of out-of-door life.

But these invaluable assets, now on the verge of disappearing, can easily be preserved by concerted action. They can, indeed, be greatly increased by systematic care on a scale large enough to match the rapid growth of population.

*Continued prosperity will depend on providing needed parks, because, with the growth of a great metropolis here, the absence of parks will make living conditions less and less attractive, less and less wholesome, though parks have been easily dispensed with under the conditions of the past. In so far, therefore, as the*

*people fail to show the understanding, courage, and organizing ability necessary at this crisis, the growth of the Region will tend to strangle itself.*

The present chapter deals with general considerations which should determine public policy concerning recreation facilities in the Los Angeles Region. These general considerations are based on a study of experience in other cities, a study of conditions peculiar to this Region, and on general principles derived from both studies. The chapter ends with a summary of conclusions drawn from these studies, the details of which will be set forth in later chapters. The immediate purpose is to show why more parks and other means of recreation *are now urgently needed*; to suggest the most effective ways of meeting this need; and to point out the evils that will follow further delay in adopting and executing a sound and comprehensive policy.

PARK-SYSTEM FUNCTIONS AND  
ALLIED FUNCTIONS

Private enterprise on private land offers, in every city, a limited opportunity for recreation; and it is good as far as it goes. But in the most populous regions the need for recreation is not normally met in such a manner and cannot be adequately provided for in that way. The problem must be faced as a public responsibility.



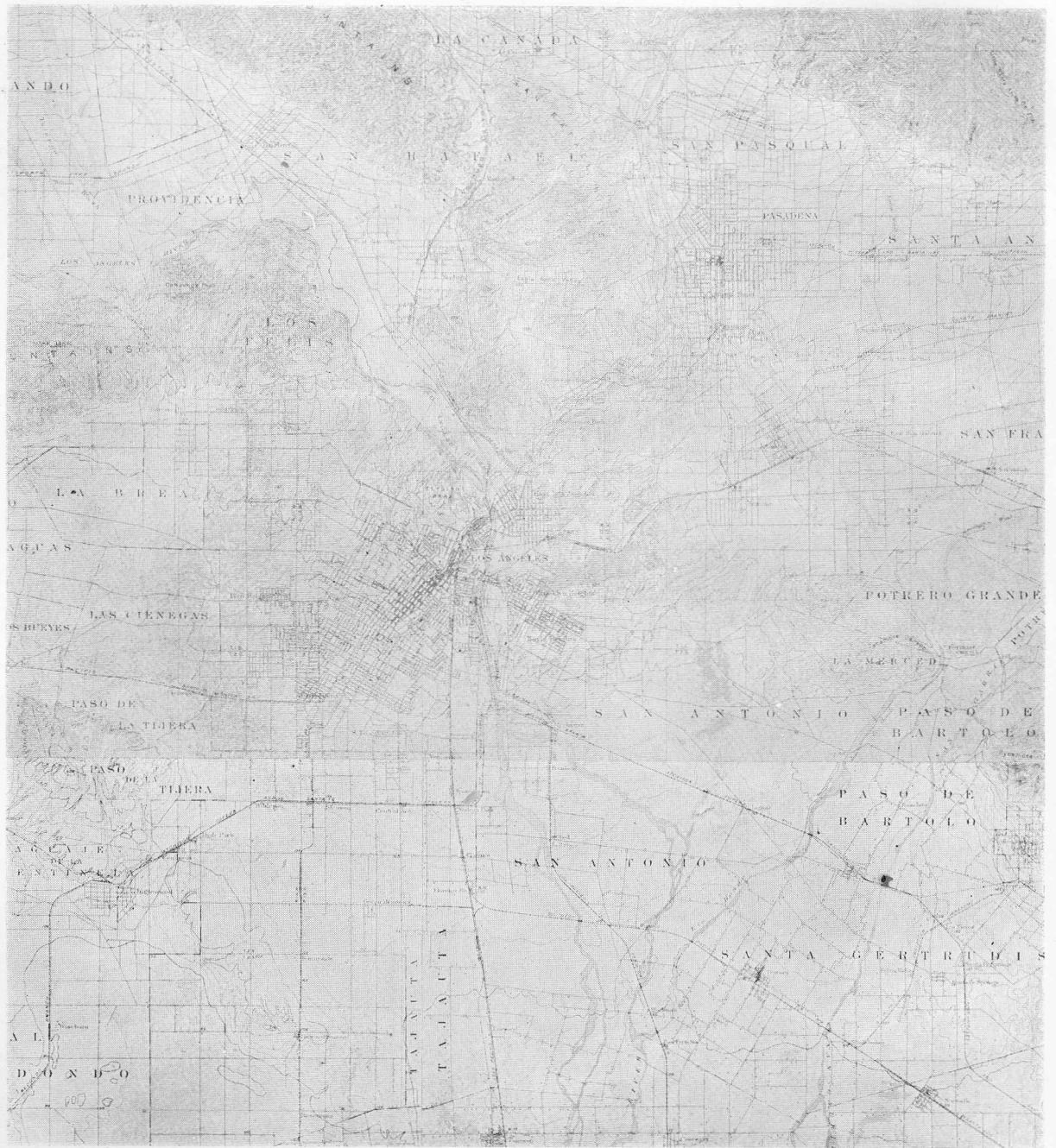


PLATE 2. Los Angeles as it was in 1894, from United States Geological survey, showing a relatively small urban region at that time.

In a large city or group of cities this responsibility attaches to the functions of a park system, and these functions are found to be related to certain other administrative functions, performed by various agencies. In the performance or administration of one group of functions, another group, or several other groups, will be found not merely to relate to it but to overlap it. Thus the group of park functions, ministering to the need for recreation, may be found to overlap the functions of the schools, the highways, or commercial enterprises, which also help to serve the same need. Whether the park agencies, or these others, furnish the opportunity for recreation is solely a matter of expediency, provided the services do not fall between two stools and fail altogether.

There is not and cannot be a sharp boundary line between the various responsibilities of public agencies. Practical experience under varying conditions is the only valuable guide as to how far a park system ought to ignore such boundaries. In some small communities, fortunately circumstanced, there may be no need for public parks at all. But in great urban areas bitter experience proves that, *without adequate parks, the bulk of the people are progressively cut off from many kinds of recreation of the utmost importance to their health, happiness, and moral welfare.* Public agencies, therefore, must progressively fill the more and more numerous gaps left by commercial and other private agencies.

#### *Related Educational Functions.*

Any educational undertaking for developing physical, mental, or spiritual capacities has also a recreational function, whether its agent is the school, playground, museum, park, private home, or what you will. The recreational function may be served by any such agency, in so far as emphasis is laid on the pleasure that accompanies and directly arises from the healthful exercise of such capacities.

Thus the schools, taking a broad view of

their problem, reach beyond the traditional function of book-teaching and include play in their program. They provide for it both indoors and out, and even extend the service of their facilities to parents and other older people. Just in proportion as they do this will they meet recreational needs which might otherwise be met by agencies devoted specifically to park and recreation functions.

#### *Related Highway Functions.*

The prime function of the highway system is to facilitate the movement of people and goods, irrespective of the reasons for their movement. The prime use of the highways is economic, but in addition to the economic use there is an enormous use for recreation, especially for the pleasure of simply riding through more or less pleasant surroundings. Probably nowhere else in the world does highway recreation form so large an element in the lives of the people as in Southern California.

Now, in proportion as the highways *and* their surroundings are adapted to recreational uses, and remain so, the need for other recreational areas will be reduced. On the other hand, in proportion as the highway system is ill adapted to recreation, or tends to become so, the demand for specifically recreational areas is increased. Long stretches of congested streets, through mile after mile of monotonous urban surroundings must be offset somehow. The functions of the highway department are thus seen to overlap somewhat the functions of other agencies not chiefly interested in highways.

#### *Related Commercial Enterprises.*

Another important overlapping field is that of recreation furnished on a commercial basis, or by private clubs. This plainly overlaps some of the recreation furnished by the public park systems, either free or for pay, of kinds intended especially for those unable to secure such recreation elsewhere.

*Proper Limit of Park-System Functions and Facilities.*

The sensible limit of park-system functions is not a matter for theorizing or bias, either for or against their extension. On the contrary, it is a matter of expediency, that should be determined by common sense, applied to local present and prospective circumstances. Past experience, here in California and elsewhere under comparable conditions, is the best guide as to the proper scope of park functions.

So also as to park facilities. No one knows any scientifically correct ratio of facilities to population, or to land area. It is known, however, that under such and such circumstances certain cities have provided themselves with such and such park facilities; and that they appear satisfied with them, or have found them too costly for their value, or worth their cost but not extensive enough. Such experience is probably the best available guide for this Region.

## PARK SHORTAGE IN THE LOS ANGELES REGION

The facts are so complicated that condensed statistical comparisons, without personal knowledge of local conditions, can be very misleading. But when the situation in the Los Angeles Region is measured carefully and patiently by the crude but common-sense method of comparison with experience elsewhere, four conclusions become unmistakably clear:

1. There is a serious shortage of park system facilities in this Region, even for the present population.
2. There has been a serious lack of increase of such facilities in comparison with the rapid increase of population.
3. These shortages seem quite unreasonable considering the agreeable climate, the economic prosperity, and the exceptionally favorable social conditions here.
4. They appear not only unreasonable but positively reprehensible, because of the very

close and direct influence of agreeable living conditions on the continued health of the people and the prosperity of the community.

All this has been realized for years, as indicated in the interesting report of the Los Angeles Park Superintendent in 1924. (See Appendix No. VI.) The bad conditions shown to exist at that time are more acute today, of course, owing to the lack of increase in park facilities pointed out above in paragraph 2.

The nature of existing park shortage and its alarming character will be considered at length below.

*The Peculiar Economic Status as a Reason for the Lack of Parks.*

The most disconcerting fact about it all is that the rapid growth of population, which makes the rapid expansion of park-system facilities so urgent, also makes its financing peculiarly difficult. The rapid influx creates an exceptionally insistent need for capital to invest in those private and public improvements which are always the first requirements of a new population, such as buildings, streets, sewers, and water supply. The annual absorption of capital in these primary improvements is therefore exceptionally high—high in proportion to present population, high in proportion to the value of existing improvements, and high in proportion to the current rental value of all real estate.

In short, the demand for capital investment in other things than parks is far more urgent here than in slower-growing communities of comparable size. This makes it just so much more difficult here to obtain money for parks.

Furthermore, the rapid growth of population leads inevitably to a high speculative capitalization of *future* rental values, in the form of high present speculative market prices for land. Of course, this makes the cost of park land far greater than in slower-growing communities of comparable size.

The situation is in many respects like that of the swiftly expanding pioneer communities

that made America for so long a debtor country. We were a debtor country not because we were unproductive or unthrifty, but because the speed of expansion and the urgency of the opportunities for immediately useful employment of capital far outran even the phenomenally great annual productiveness of the pioneers. They followed two courses in varying combinations. They borrowed capital from outside, in the aggregate prodigiously, often paying heavily for it. And they also stinted themselves of many things they needed by postponing what seemed to each of them the least urgent among his many urgent needs. To get more land quickly into crops, to increase their livestock more quickly to what the land would support, they themselves often lived for a time like cattle. They postponed many of the finer things of life, perforce, in the effort to build up rapidly the wherewithal to enjoy them. And sometimes they killed themselves or their women folk in the process.

Similarly the Los Angeles Region, in its feverish growth, has postponed and postponed such things as park facilities, because every dollar its people could save, or reasonably borrow, seemed to be more urgently needed at the moment for something else. "Parks could wait." Whenever it came to the point, the price of land for parks has seemed so high (as it inevitably must be high in a rapidly growing community, optimistic as to future values) that people have generally shied off from the proposal. They have felt something like this: "The benefit of parks bought now will accrue largely in future years and even to future generations. We can get along without them a while longer, anyhow. And if land at those prices is a good purchase, we would rather use our money to get lots on speculation for personal profit than give it up in taxes for our share of a park system." As a result of such reasoning, most park proposals have gone by the board.

The conditions underlying this state of mind are chronic in this Region, and will probably remain so as long as the rate of growth keeps ahead of or even close to the rate of accumulation of capital. But they are not necessarily prohibitive of effective community action.

#### *The Crisis that Confronts the People.*

The Los Angeles Region probably has a greater future need for parks, of certain kinds at least, than any other community of its size. And it is perhaps harder, financially and politically, for Los Angeles to get them than for any other such community.

The more closely the problem is compared with similar problems elsewhere the more serious appear to be the financial and psychological (or political) obstacles to development of an adequate park system. So, too, in the long run, the seriousness of failure to make that development, becomes more evident.

The real question is, how far will the people, so rapidly gathered here from all sorts of communities where they have had no occasion to face this peculiar problem, be able to meet the test? Will they overcome the difficulties and provide while it is still possible for things that will be necessary to continued prosperity and success?

#### PARK-SYSTEM FACILITIES

Various functions and facilities embraced in the park systems of large metropolitan communities are fully discussed in later chapters. Here they are summarily divided into two classes:

I. Those that serve mainly *local* needs and can be reduplicated in small and easily accessible units in every part of the Region, as is done with schools and fire-houses.

II. Those that serve mainly *regional* needs, which people can reasonably be expected to travel rather longer distances to reach, and which cannot be reduplicated locally; more or less comparable to public museums and auditoriums.

## CLASS I: LOCAL RECREATION FACILITIES

*Including Playgrounds, Recreation Parks,  
and Special Units*

The most typical local recreation facilities are: children's playgrounds, in conjunction with schools or separately; and provision for certain kinds of adult recreation. Both of these must be readily accessible if they are to be of daily use. The value of such local facilities increases very rapidly as scattered suburban communities grow into a continuous metropolis of great extent and considerable density.

Facilities that should be provided in such localities vary greatly with local conditions, and should include provision for active exercise and games, alternating with rest, for all ages; for example, basket-ball, tennis, hand-ball, quoits, swimming, or mere walking and sitting in pleasant and refreshing outdoor surroundings. They may include opportunities for both outdoor and indoor meetings, dances, concerts, and many other neighborhood activities of social importance, if these are not satisfactorily provided, for the masses of the people, on a commercial basis or on a private club basis. One of the most important purposes of a park, and yet one of the most difficult to describe, is that of providing the peculiarly refreshing quality which has such a restful and beneficent effect on the nervous system. This is a subtle and complex thing, which brings, along with a sense of beauty, a sense of spaciousness, of freedom, and of contrast with urban conditions.

The importance of the different kinds of local facilities varies greatly with the time and place. And the necessary land area per thousand of population varies far more. In the change from rural or suburban to urban conditions, the first need to emerge as seriously urgent is public provision for children's play. With increasing congestion and increasing metropolitan size, the other needs become increasingly insistent.

Most of the local functions above outlined clearly lie in that borderland belonging to both recreation and education. This is a fact which is everywhere finding expression in the extending community use of school facilities. But the school authorities generally find themselves unable to meet the want when it relates more distinctly to adult recreation than to education of the young, except in co-operation with well-financed agencies frankly and squarely addressing themselves to recreational rather than to specifically educational problems. This is especially true when the demand is for ample outdoor space amid agreeable and refreshing surroundings. And here arises the question: How many and how large should the recreation centers or units be?

*Efficient Size and Range  
for a Recreation Unit.*

The effective radius of service for a recreation unit varies widely with the function of the unit. It may vary from a radius of a quarter of a mile for little children's play, to several miles for some specialized services appealing mainly to adults. The efficient size of a unit depends chiefly on the number and kinds of functions to be included, and the prospective density of population within the effective service-radius. But it is also affected by the differentials in cost per acre of acquiring tracts of different sizes.

*A single large and diversified unit gives better service and involves less overhead cost than several detached smaller units.* For meeting the local recreation needs in a large metropolis, experience seems to emphasize the practical advantages of neighborhood recreation parks of about twenty acres, serving mainly the people in an area of about one square mile, associated where practicable with a school center but including many functions not normally assumed by school boards.

These major local units usually need to be supplemented by more closely spaced and much smaller playgrounds for little children

who can not go so far, on or adjoining school grounds where practicable, but detached where necessary because of inadequate school-grounds and the impracticability of enlargement.

So far as these two kinds of units fall short of meeting the reasonable demands of the people, they should be supplemented by certain other types, such as ornamental squares and triangles, and local parks of scenic interest, the value of which is dissociated from the activities of a well-rounded neighborhood recreation park.

#### *Administration of Local Facilities.*

All such local recreation facilities should be closely adapted to local conditions and needs. There are disadvantages in centralizing the administration in a single organization which, since it covers so many units, tends to become unresponsive to local peculiarities. Such centralization is likely to hold back progressive and prosperous neighborhoods by standardizing at levels which are merely the best that can be attained by unprogressive or impoverished neighborhoods. On the other hand, as in the case of the schools, efficiency demands that management be centralized for districts very much larger than the territory served by a single neighborhood unit, as otherwise good management can be secured only at an excessive overhead cost. Roughly speaking, a good sized administrative unit for local recreation facilities is that of the ordinary municipality or school district.

### CLASS II: REGIONAL RECREATION FACILITIES

The second, or primarily regional, class of recreation facilities involves very different problems from the local, even though no hard and fast line can be drawn between the two classes. Regional facilities include beaches, mountains, and such other recreation areas as it is impossible to provide by reduplication in small units in every part of a metropolis. While such facilities may, it is true, be made available by local enterprise, primarily for the

use of those who live near them, and at local expense, experience shows that local enterprise *will not* alone provide in any adequate way for the great mass of people in a metropolitan community. For them there is needed a public agency specifically charged with this duty, supported by taxation falling upon a correspondingly large area, operating on a large scale, and consistently pursuing plans which involve very large expenditures and require many years to come to fruition.

The four types of regional recreation facilities needed by the Los Angeles Region are these:

1. Public beaches.
2. Regional athletic fields.
3. Large reservations in mountains, canyons, deserts, and islands.
4. Pleasureway parks or parkways, and related large parks.

Each of these will be considered separately.

#### PUBLIC BEACHES

Public control of the ocean shore, especially where there are broad and satisfactory beaches, is one of the prime needs of the Region, chiefly for the use of throngs of people coming from inland, but also for those living near by.

Private control of a portion of the ocean shore is, it is true, a legitimate and fruitful way for enjoying the recreational possibilities of the shore, and the value people attach to such property is evidenced by the prices they will pay. But the great problem is to get from the beaches the maximum possible recreation values of *all* legitimate kinds, both local *and* regional, whether public or private, in reasonable proportion one to the other.

#### *Desirable Features of Regional Beaches.*

The two things most to be desired in a regional public beach are:

First, to meet the demand for bathing, strolling, and sitting down near the shore, and for occupation and amusement associated with



PLATE 3. New highway along the ocean front, showing narrow strip of private lands fenced in and cutting off all access to the publicly owned tidelands.

the coolness and refreshment of the sea breezes, the surf, and the view of the ocean, together with convenient and reasonably agreeable access, parking space for cars, toilet facilities, bathhouse facilities, and the like. This demand is very strong, and bids fair to increase indefinitely with the increase in population, and probably at a rate faster than the population because of the gradual cutting off of certain other opportunities for recreation. The demand is already very large at its peaks, although extremely fluctuating with weather conditions and the incidence of holidays.

Second, to meet a demand, also great and increasing, but considerably less fluctuating with weather conditions, for motoring along pleasantly while overlooking the ocean, the surf, the beach activities, and the picturesque

coastwise views, with opportunity to stop and take part in beach activities as well.

What percentage of the limited available ocean frontage of the region could most advantageously be used for these purposes, as against other valuable uses (such as beach clubs, exclusive private use, and other non-regional uses), only the experience of years to come can definitely prove. But in the meantime the public holdings should be very materially increased.

The present difficulty, and a very critical aspect of the situation, is that the demand for private uses of the shore is promptly effective, and is leading to the investment of millions of dollars per annum in acquiring property rights above mean high water and in the installation of improvements which largely determine the

use of the beaches in perpetuity; while the demand for public control of beaches has no corresponding effective means of making its real strength felt now, while the situation still remains largely flexible.

### *Conflict of Private and Public Beach Rights.*

The public owns all tidelands and submerged lands, and has an unquestionable right to use that part of *all* beaches lying below mean high tide. The law is clear on this point, as will be seen by consulting the exhaustive opinion given in Appendix No. V. But this use is largely dependent on reasonably frequent and adequate access to the beach from the landward side. It is also dependent on the occurrence of sufficient lengths of unobstructed public beach *above* mean high tide, for use when the tide is up.

All this is coming to be widely understood; but what is not so clear, either to the general public or to those purchasing lots with what they suppose to be "private beach" rights, is that the value of shore sites is very largely dependent on the manner in which public control of *all* beaches below mean high water may be exercised.

The present tendency is toward a condition in which private and public ownership will be ranged against each other on opposite sides of mean high water on an indefinite line which cuts the beach in two longitudinally near its upper edge, dividing it so that neither faction can secure what it wants except by sufferance of the other. Each, in that condition, will be hostile and aggressive, and able to retaliate by developments greatly injurious to the values possessed by the other. This will result in lower total values of all kinds than the physical situation is perfectly capable of rendering.

In the long run the representatives of the general public will hold the whip-hand unless they forfeit their rights, because, since the public already owns the tidelands, it is only a question of construction cost (when the de-

mand becomes great enough) to reclaim additional lands from the sea and proceed to their development for use by the public. *But a do-nothing policy at the present time is certain to result in greater total expenditures and in poorer total results than would otherwise be involved.* Furthermore, the evil results of delay will damage the private owners as well as the public.

Everyone agrees that opportunities for adequate regional beach reservations are slipping away very fast. And there is a general and well-founded belief that prompt action on a bold financial scale is needful to seize these opportunities. That belief is opposed mainly by two sorts of people: those who are moved by selfish considerations, and those who are so fearful of the mistakes and extravagances which might be committed by any public agency capable of acting promptly and boldly, that they would rather risk the loss of the beaches, by delay and debate and insistence on unworkably complicated checks and balances and red tape, than grant to any agency the power to act promptly and on a large scale. The proper view to take of the question is that, while the power to get results is inseparable from the power to make some mistakes, the need for results far outweighs the risk involved.

### REGIONAL ATHLETIC FIELDS

The highly important social need for healthful outlets for the energies of youths of "the dangerous age" instead of forcing them into pernicious channels, makes it comparatively economical and immensely important to supply a few large athletic fields or "sports parks" serving large areas of population.

These youths cannot distribute their recreation throughout the week so uniformly as the younger boys and girls; and they can go long distances to get to athletic fields when the occasion arrives. But to secure local recreation grounds large enough for field sports and the gathering of large crowds is difficult, and few local districts can compass it. Where they can-



not, it is clearly a regional function to provide such fields.

The most efficient unit for economical administration appears to be one hundred acres or more of nearly level land, large enough to provide space for baseball games, football, track events, tennis, swimming, and various other games and sports, with field houses, lockers, and other necessary conveniences.

#### LARGE RESERVATIONS IN MOUNTAINS, CANYONS, DESERTS, AND ISLANDS

From a recreational standpoint the people of the Los Angeles Region are fortunate in having comparatively near at hand many hundreds of square miles of country so mountainous, or so arid and difficult to irrigate, or so intractable in other ways, that it has remained comparatively unsubdued by man. It is not so intractable, however, but that the pressure of population and of land speculation is constantly encroaching upon it and impairing its natural recreational value for city people.

The natural resistance of some of the mountain lands to uses destructive of their recreational value has been reinforced by the farsighted action of the Federal Government in setting apart large areas as national forests for protection of watershed vegetation and related public purposes. These areas are in the main permanently open to use for public recreation.

The Angeles National Forest embraces about 640,000 acres of such land in the County, reaching to within twelve miles of the heart of Los Angeles. As a matter of bald statistics this makes the impressive showing of one acre of mountain reservation for each  $3\frac{1}{2}$  people. On that basis a careless statistician might claim that the people of this Region are more amply provided with public recreational areas than those of any other metropolis in the United States. One could make an even more striking statistical showing of a speciously great per capita extent of open spaces adjacent to Los Angeles by reckoning as such a few million

acres of the Pacific Ocean, which certainly has recreational value.

Permanent reservation of thousands of acres of steep, brush-covered mountain slopes such as characterize the Angeles National Forest (and most of Griffith Park) is of unquestionable recreational value to the Los Angeles people. It would be so, merely for the scenic effect of those mountains as viewed from elsewhere in the Region, even if they were administered exclusively for protection of watershed values and if the public were fenced off from setting foot upon them. But it would be utterly misleading to reckon them acre for acre as an adequate substitute for areas adapted to more intensive recreational uses.

Large continuous mountain areas, preserved substantially in a natural condition, have an important scenic value as viewed either from within or without, and in many cases a large economic value as a partial source of water supply.

Within the mountains occur occasional parcels of notable value per acre for direct recreational use but of limited extent. And there, also, occasional opportunities exist for delightful roads and trails, the value of which depends chiefly on the extent and scenic beauty of the practically untraversable mountain slopes around them.

It costs so much in the long run to adapt rough mountain lands satisfactorily to ordinary intensive private uses that their real net value as raw material for such use is generally far less than their value for watershed protection and for public recreation. Unfortunately in the local speculative land market this fact is often ignored and subdivision sales are made which commit the community to extravagantly wasteful private and public expenditures for converting a good thing of one kind into a poor thing of another kind.

The simple fact is that the raw land value of such intractable areas is relatively low, because it costs a disproportionately large amount per acre in improvements and in the carrying

charges to get any very large return from the land. And the most significant fact about many large intractable areas is that, where recreational value can be obtained from them with so small an investment for altering their natural condition, recreational use will bring a larger return than private urban or suburban uses.

In such a large area all that is necessary for recreational use is the improvement of a few widely spaced roads, trails, and gathering places. These can be exceptionally valuable per man-hour of use simply because they are surrounded by protected landscapes, on land that may remain practically unimproved and unpenetrated by the public at all.

Considering the numbers of people of the Los Angeles Region who, under increasing difficulties, seek the kind of recreation to be obtained from trips into these wild districts, and considering the price per trip that people show themselves willing to pay for this recreation in terms of automobile mileage alone, it is clear that there is a very large and strong demand for such recreation. The permanent maintenance of an area of this kind which would enable an average of, say, 2,000 automobile-loads of people a week to reach what they want of this sort of thing, twenty miles nearer home than they would otherwise have to go for it, would show a saving of 2,000,000 car-miles a year, which at eight cents a car-mile is \$160,000 a year, or interest on \$3,000,000. Returns of such magnitude, obtainable from a small investment in improvements, would be better business than to convert an intractable area to intensive suburban uses at a far greater cost.

If the market value of raw land were based solely on the ultimate possible returns, and on a well-informed and honest comparison of the total cost of improvements both public and private necessary to adapt it to various uses, the intractable lands best adapted to large scenic reservations would be more or less automatically assigned to that purpose. Unfortunately the decision to commit a given piece of

intractable land irretrievably to subdivision and intensive development at large cost for improvements, as against leaving it in substantially its natural condition for recreation, is normally based on the judgment of the promoter simply as to whether possible purchasers in a speculative market can be persuaded to take the project off his hands at a satisfactory profit to him above the costs which *he* will have to meet *before he is able to get out from under*, leaving a large amount of costs to be borne by the purchasers or the public. Until promoters are required to provide for the full development of the property, it will be only in extreme cases that large reservations of intractable lands, intrinsically best suited to public recreation, can be reserved for the public without paying excessive and fictitious prices for the raw land.

Because land-market conditions are so unfavorable, recommendations for additional public reservations of the type here discussed must be made much more conservatively than the physical conditions and the strictly economic conditions of this Region would warrant. Yet, because of such conditions, the development of this great metropolis must unnecessarily suffer. Its people will have to travel much farther from their homes to get the enjoyment of large areas of wild land than they would under better planning and public control of such lands.

#### PLEASUREWAY PARKS OR PARKWAYS AND RELATED LARGE PARKS

Under this heading are a series of problems which are peculiarly associated with great modern cities. The seriousness of these problems here no one can possibly realize who approaches the subject from the point of view of past conditions, or without a broad and alert understanding of what is occurring in other great urban areas of the world.

The experience of other metropolitan areas in respect to their park systems points certain lessons, which are emphasized by analysis of

conditions and trends that are specially marked in the Los Angeles Region and are specially associated with the motor-vehicle age as distinguished from the age in which the older metropolitan regions grew.

So far as we can see, these conditions and problems are here to stay. Due mainly to improved transportation, especially to the wide use of the automobile, the population living in continuous metropolitan urban and suburban conditions spreads over an area much greater than was formerly possible. Due to the automobile, there exists an enormously increased range of average daily and holiday travel, limited not by the time and private means available, as in the past, but by the capacity and character of the public ways open to such travel. By means of automobile travel a large portion of the population therefore seeks out-



PLATE 4. Broad, quiet, attractive parkway in Delaware Avenue, Buffalo, where travel is a pleasure. Such ways are almost unknown in the Los Angeles Region.

door recreation to an enormous aggregate amount, and over long distances both within the metropolitan area and by passing through it to the country beyond.

As a result of the great spread of continuously occupied territory, this new, popular,



PLATE 5. Another parkway in Olmsted Park in Boston where adjacent houses have a pleasant outlook and where passing travel is surrounded by park conditions.

and valuable form of recreation is losing its value in the absence of a means for preserving it; and traveling on congested roads, through long, tedious stretches of unrefreshing, monotonously urbanized territory, is proving too great a waste of time and effort in proportion to the mileage of attractive country traversed.

The desirability therefore of a few specially agreeable routes of pleasure travel within cities has long been recognized, and experiments in great variety have been tried in the older, larger, and wealthier cities of the world. But most of those experiments were designed to meet the requirements of horse-drawn vehicles, low speed, and a short radius of travel. Therefore, they fall far short of meeting the needs of the automobile. More recently some progressive communities have been creating routes deliberately designed upon a regional scale and of a character intended to meet the metropolitan conditions of the automobile age.

Under modern conditions, with endless expedients for combining the regional pleasure travel functions with those of ordinary residential and business thoroughfares, *experience elsewhere points clearly to one of the most urgent park needs of the Los Angeles Region*

—*the need for a system of interconnected pleasureway parks, regional in scope.*

Such a system should be so distributed that no home will be more than a few miles from some part of it; and should be so designed that, having reached any part of it, one may drive within the system for pleasure, and *with* pleasure, for many miles under thoroughly agreeable conditions and in pleasant surroundings. Free from interruption of ordinary urban and suburban conditions, driving there may be either wholly for the pleasure of such driving or, more generally, it may be over the pleasantest if not always the shortest route to some other recreational objective.

#### *“Pleasureway Parks” and Parkway Defined.*

In order to provide for travel amid pleasant surroundings, parkways necessarily should be greatly elongated real *parks*. Except that they include roadways for automobile travel, they have almost nothing in common with “boulevards” as that term is generally used in America. Varying in width, and having few cross-traffic intersections, they should provide for traveling long distances by automobile, and should be well screened from the urban and suburban surroundings through which they pass. They should be wide enough and have trees enough to produce, along with the topographic conditions, some sense of spaciousness and seclusion, and a variety of scenic effects. Especially in the broader park enlargements that may be secured where land is cheaper or otherwise more available, much of the land may be used incidentally for many other park purposes.

The branches of such a system of pleasureway parks may be few, and many miles apart, but they must be ample and far reaching. In the old days only a small percentage of the people could enjoy park scenery from moving vehicles, and even they would not often travel many miles through city streets for that pleasure. As to the mass of the people, an isolated

park that gave opportunity to drive or walk a mile or two in pleasant park scenery by going only a short distance through the streets satisfied them well. Today, almost everybody can, and frequently does without hesitation, get into a car and go five or ten miles through uninteresting streets to get to what he considers a really pleasant route of pleasure travel, perhaps in a park or public forest, but more likely just a region that isn't yet all built up. But the majority, when they get out of town, want to drive fifty or a hundred miles in pleasant surroundings, coming home by a different route.

All this is more true of the Los Angeles Region than of any other great metropolis. The people here can and do get an immense amount of outdoor recreation in just this manner, and voluntarily spend an amount of time and money in getting it (in car-mile costs, for example) which gives a rough indication of what they find it worth. It is certainly worth much more to them than the price in car-mile costs or they would not keep on doing it.

#### *Present Cost of Recreation Travel.*

There is no reliable basis for computing the aggregate car-mile costs which are thus voluntarily and gladly paid; but if anyone will figure for himself, on any reasonable car-mile basis, about how many dollars a year his own family and those of his acquaintances spend in pursuit of this kind of recreation, and then consider that 714,804 pleasure cars were registered in Los Angeles County up to June 30, 1929, he will get some real notion of how much the people think it is worth to them to ride long distances in pleasant surroundings. The proof of the pudding is in the eating. *The people are voluntarily spending millions of dollars every year for such recreation under conditions which are growing more and more imperfect and unsatisfactory.*

Unless the opportunity is preserved to newcomers and future generations in a system of continuous parks and parkways, interpenetrating the Region and connecting it with the

countryside, the immense value to the people of this kind of recreation is absolutely doomed to disappear. Urban growth will fill in one after another of the open spaces, and extend continuously for score after score of miles.

To people of today, how great would be the value of a home only a few miles from a parkway of ample road capacity and agreeable scenery, where one might drive through a chain of similar parkways to distant parts and enjoy the open country of Southern California! Contrast this with the far inferior worth of a home shut off from any considerable area of open land by twenty to fifty miles of practically uninterrupted cities and suburbs.

#### COST OF LAND FOR A PARK SYSTEM

What would be the cost in land withdrawn from private occupancy? In a given region parkways, averaging a quarter mile in width, if spaced eight miles apart in each direction, would occupy six and a quarter per cent of the area. To compensate for this withdrawal, the community could be extended an equal amount into the surrounding unoccupied lands. In a region thirty miles in radius, an equal area added around the outside, to accommodate the people displaced by the parks, would make a band a little less than a mile in width. Travel to the center of the region would, at the farthest, therefore, be lengthened only three per cent, and for such extensions, here, plenty of land is available.

What would be the cost in taxes to pay for such reservations? It has been estimated that an increase in the annual tax rate of ten or fifteen cents should suffice to acquire and develop a complete park system, including parkway reservations. Land withdrawn from private use to form such parks should have less value than land for other uses because the parks should be located mainly in those interstices of the metropolitan district that have been left vacant precisely because they are for various reasons least valuable or least available for intensive private uses.

#### PARKS AND THE DRAINAGE PROBLEM

To the experienced eye, the slopes of the land show approximately where water must concentrate in times of heavy rainfall. No matter how innocent it may look in dry weather, low land must always be far less valuable for building purposes than other land. But the lowlands may be just as good as any other for providing spaciousness of open scenery for parks and parkways; and it ought to be relatively cheap to acquire. Because of the innocent look it has in dry weather, it is not as cheap as it ought to be. Between floods it looks pretty good for building purposes to those who never saw what storm water can do in this country. Unsuspecting purchasers, victims of their own ignorance, will fall into the traps laid for them by the sharp practice of ruthless promoters, and such lands will be cut up, sold, and occupied. Unfortunately, the burden of such a wrong development does not fall on the purchaser alone, and scarcely ever on the vendor, but most heavily on the community at large. There is, of course, a remedy, but it requires vision and vigor to apply it. Remedial legislation might prevent further mistakes and correct those of the past.

To sum up this vexatious matter: The community is confronted with four possible courses:

First, and best, police regulation can be adopted to prevent costly improvements in floodways unless and until adequate spaces have been set apart for handling the maximum floods and the floods have been confined to them by permanent channels, reservoirs, and reserved areas for percolation into the ground. The cost would thus be fairly divided between the community at large and the owners of land more or less subject to flooding. Such a policy would not only be a direct financial benefit to the community, but would indirectly prevent the sharp practice above mentioned and stop the ill-directed spread of the population. It would also open the way to an economical

purchase of park lands in the very areas where nothing else is so clearly practicable.

Second, the community can purchase such lands for park and flood-control purposes, while still vacant, but at speculative prices, that are high because based on the cupidity of speculators unrestrained by police regulations.

Third, the community can permit the lands to become built up, and periodically spend

large sums to repair recurrent flood damage.

Fourth, after long delay, the community can, through heavy expenditure, permanently remove the flood menace by the purchase and destruction of costly improvements.

These are, of course, primarily flood-control and water-conservation problems; but there are many opportunities for combining with them, at little extra cost, parks along nat-

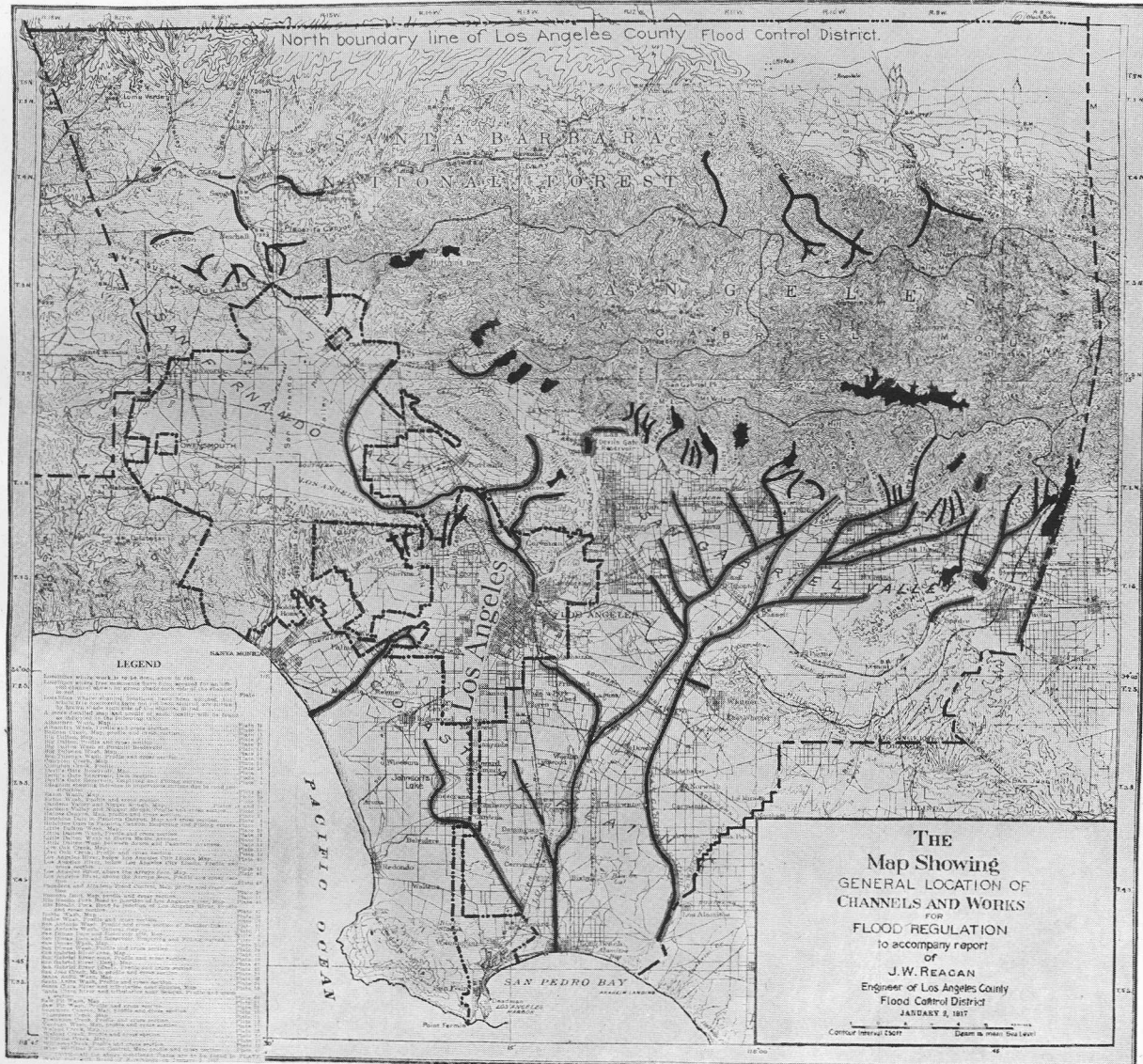


PLATE 6. Map showing channels and areas of interest to the flood-control problem that may have joint value for park and parkway uses. From 1917 report, with additional areas indicated.

ural drainage lines on lands relatively cheap, and extensive enough for recreation purposes. Such land would have to be acquired only once, yet would serve a double purpose—flood-control use and park use—not conflicting but positively beneficial to each other. Especially would this be true of the land acquired as a margin of safety; the open land skirting the chief flood-control area which prudence would include in the purchase.

Where flood control alone is dealt with in computing the size of anticipated floods, there is a natural tendency to curtail the area of land to be acquired in this speculative market. Such curtailment is likely to reduce the factor of safety beyond the danger point. Such a policy defeats itself. It compels large outlays for costly construction on narrow rights of way which would not be necessary on wider rights of way. The combination of parks with flood-control necessities is frequently possible, and wherever practiced it not only will yield a double return on the investment in land but also may lead to *an ampler and better solution of both problems at a much lower cost of construction than either would separately pay*. An example of such a problem is discussed in detail in a letter on Nigger Slough and other lands. (See Appendix No. III.)

#### SUMMARY OF CONCLUSIONS

*(As Set Forth in Greater Detail  
in Succeeding Chapters)*

Most of the population, of over two millions, now lives within a region of about 1,500 square miles. Population is increasing at a rapid rate. It is thinly spread over a large part of the central portion of this area. There is no great congested district, such as is found in other large cities. There is no evidence that congestion will become a serious problem in the future.

Development of a satisfactory park system requires a suitable agency. The park and recreation agencies of the cities, the county, the state, and the nation have definite functions

to perform in this Region, and any such agency may be somewhat expanded. But in the Los Angeles Region there is no authority now existing that could or should assume the full responsibility of acquiring and developing a complete regional recreation system. Such authority should be created, with power to raise funds in order to acquire and develop property, free from the disturbing influence of frequent political overturnings, and operating over a long period under a continuing policy.

Local recreation facilities are needed throughout the occupied sections. Local playgrounds and recreation grounds exist, but they are inequitably distributed in the Region. Much more than half the subdivided area is practically unsupplied. Only 73 of the 726 schools in the Region have five acres or more of play space. School areas, even at best, are not adequate to meet all local requirements, but they have great value which should be coordinated with other recreation features. The present available recreation *space per capita* decreases in proportion as population increases. Therefore, more space should be acquired promptly, by the municipalities or by the schools, or both. To provide each district in the subdivided area with reasonable local recreation facilities might cost, over an extended period, \$40,000,000 or more, but would be well worth the cost.

The public needs and should have a larger proportion of the beaches. Fourteen miles of beach is now publicly owned, six miles is quasi-public, and thirty-two miles is clearly of sufficient public value to warrant immediate acquisition. The balance of the ocean frontage within and near the County lines is now used for other purposes or is less urgently needed by the public. The public holdings are in general very narrow. Much of the area that may be acquired is relatively narrow, lying between existing highways or built-up areas and the sea. To acquire the shore-front properties and a small amount of adjacent land would probably cost about fifteen million dollars; to make

them fairly usable would require not less than two million more. This doubtless should be increased to include a pleasure bay at a cost, for its share of breakwaters and improvements, of another ten million dollars, making in all, \$27,000,000.

To meet the requirements of general recreation, some regional athletic fields are needed. Ten of the large reservations recommended as enlargements in the general park system are now fairly accessible to the populous centers, and should be set apart for this purpose. As many more in districts more remote may be needed eventually for this purpose. A fair share of the cost of the ten now most accessible has been estimated to be about \$7,000,000 for acquisition and improvements.

In the more remote tracts embracing the mountains, canyons, deserts, and islands, large reservations should be acquired and made accessible. The cost of acquirement is estimated at less than a million dollars, but the cost for improvements, primarily for roads, eventually may reach twelve to fourteen millions, a large share of which, however, can doubtless be obtained from existing sources such as road-construction funds and labor.

Pleasureway parks or parkways as herein described practically do not exist in the Los

Angeles Region. Large parks, publicly owned water lands, and the like, to the extent of about 16,000 acres, lie along feasible routes for pleasureways of which they may serve to form a part; 440 miles of parks and parkways, with approximately 70,000 acres of land (54,000 more than now owned) are needed to provide park areas, reservations, roadways, border streets, drainage channels, and the like, to serve the various public needs that can thus be jointly served. To acquire the lands at present prices may cost a hundred million dollars; to improve them may cost forty-five million dollars more. A part of each cost, however, includes costs that should be chargeable (in part at least) to drainage, local streets, highways, and other public purposes that will be served.

The above estimates for a complete park and recreation system include a number of projects and involve large sums of money; but the total is not unreasonable; it is not disproportionate to the character, magnitude, and wealth of the Region; and it is not out of scale with the provision for recreation being made in other large metropolitan Regions. The recommended expenditures should not all be made at once, but *should extend over a period of possibly forty or fifty years*, and thus not involve a heavy burden at any time.





Beautiful foothills roadway near Pasadena, California, scenery that should be preserved with its border plantations and views into the mountains as a part of proposed parkway. (See Chapter VIII.)  
(Photo by Friss.)

## CHAPTER II

### CONDITIONS AFFECTING THE NEED FOR PARK AND RECREATION FACILITIES IN THE LOS ANGELES REGION

THE previous chapter has indicated the kinds of park and recreation facilities needed in the Los Angeles Region. Another study is now to be presented, examining the conditions which may affect the many problems of meeting the need. The first of these conditions is, of course, the character of the Region itself, and the first of the problems is thoroughly to understand the people for whom its solution is of such great importance. Incidental to these are studies of what has already been done, what the existing facilities are, and what is the wealth of the Region. The extent of the use of automobiles is considered, with the volume of tourist travel; movements of population are carefully estimated, also the possible effects of zoning and other restrictions. Regional or local conditions that now exist or that can be fairly predicted for a not distant future are considered; and the whole chapter is an effort to determine just what the people of the Region are, what they have, and what they can do and should do in the matter of parks and recreation in order to preserve and advance the prosperity of the Region.

#### CHARACTER OF THE REGION

The Los Angeles Region is a large one, including about one-third of the County. The other two-thirds are mountains and deserts. The Region lies south of the mountains, covering 1,500 square miles of coastal plain, low hills, and high agricultural development, into which the population has spread, very thinly,

and is still spreading. In this Region more than forty cities and a number of unincorporated communities form local centers, with separate jurisdictions, and deal with park development with no common or general policy, with no generally accepted uniform standards, and with no unity of control. There has been wide variation among them in park development. And, partly because of the newness of many of the communities, the need for such facilities has in some cases been almost wholly unrealized.

#### THE POPULATION

With a population of over 2,000,000 in the Region, but recently gathered from all quarters of the nation and constantly increasing, community life is not yet highly developed and recognition of local interests is limited. The population of the Region, having grown from a little over 100,000 thirty years ago to twenty times that number now, bids fair to double again by 1950.

With the growth of population the urban area is becoming greater; the large open spaces of the countryside are being pushed farther and farther from the center and are being made less and less accessible to the people, except in those lamentably few cases where land is acquired to be kept open for public uses. The area almost wholly cut into lots now extends out ten miles or more from the center and covers nearly 400 square miles, within which few large spaces are now available for park uses.

This area is extending still farther, and in it most of the population is now gathered.

From the spread of population for 1922 (shown in Plate 7) and that for 1928 (in Plate 8) and from the record of the change during that time (Plate 9) the trend of growth in recent years is fairly evident. There is a general spreading in all directions, a more intensive growth toward the west, south of the hills, and some added concentration on the west side of the center. Also, the change shows a loss of population in the south side of the city, where business and industries are driving out the small homes.

*Low Density of Population.*

These studies show a remarkable freedom from congestion of population as compared with any other great city. It is true that nearly half the population lives within five miles of the center of Los Angeles, in a space little more than five per cent of the 1,500 square miles south of the mountains, but even here the average densities are low, as follows:

Zone	Population	Area Sq. Mi.	Ave. Density per Acre
In a circle 1 mile in radius	54,800	3.14	27.3
In a ring 1-2 miles in radius	163,600	10.42	24.5
In a ring 2-3 miles in radius	220,700	14.70	23.5
In a ring 3-4 miles in radius	258,700	21.98	18.4
In a ring 4-5 miles in radius	292,200	28.26	16.2
Total within 5-mile radius	990,000	78.50	19.7

But such *average* densities over large areas may be very misleading. The entire New York Region, for example, with a population of nine millions, has an average density of only two and one-half persons to the acre, and even if the boundaries are contracted to include only six and one-half million people the average density is only twenty-nine per acre. But the majority in the New York Region are crowded into districts of much greater density than occurs anywhere in Los Angeles Region.

There is here no truly congested area and congestion is not developing. The following table and the spot-and-dot maps (Plates 7, 8 and 10) show densities for 1922 and 1928 respectively, throughout the entire region by small enumeration districts, few including over 4,000 people and others much smaller:

	1922	1928
Over 50 per acre	1 sq. mi.	1½ sq. mi.
Over 25 and under 50	11 sq. mi.	23½ sq. mi.
Over 10 and under 25	45½ sq. mi.	90 sq. mi.
Over 5 and under 10	55½ sq. mi.	75 sq. mi.
Under 5 in areas subdivided into building lots		202 sq. mi.

There are no densities of 200, 300 or 500 persons per acre, such as are found in eastern cities. There are only two enumeration districts, one of 52 acres and one of 57 acres, which have a density of over 100 persons per acre.

*Effect of Low Density of Population on the Park Problem.*

Los Angeles is unique among populous metropolitan regions in the fact that the great mass of its people live in detached bungalows and cottages with a high proportion of open space on their lots.

Low density of population means that fewer people live within easy walking distance of any one given unit of local recreation facilities. A permanently low density of population means either a larger radius of service for local recreation units, or smaller local areas, to avoid excessive per capita costs.

Furthermore, although private home yards of fair size partially satisfy the need for outdoor recreation, especially for little children and for old and inactive people, they do not provide at all for the growing number of those, both transient and permanent residents of the Region, who by preference or necessity live in apartments and hotels without such yards. Except for the very wealthy, who own

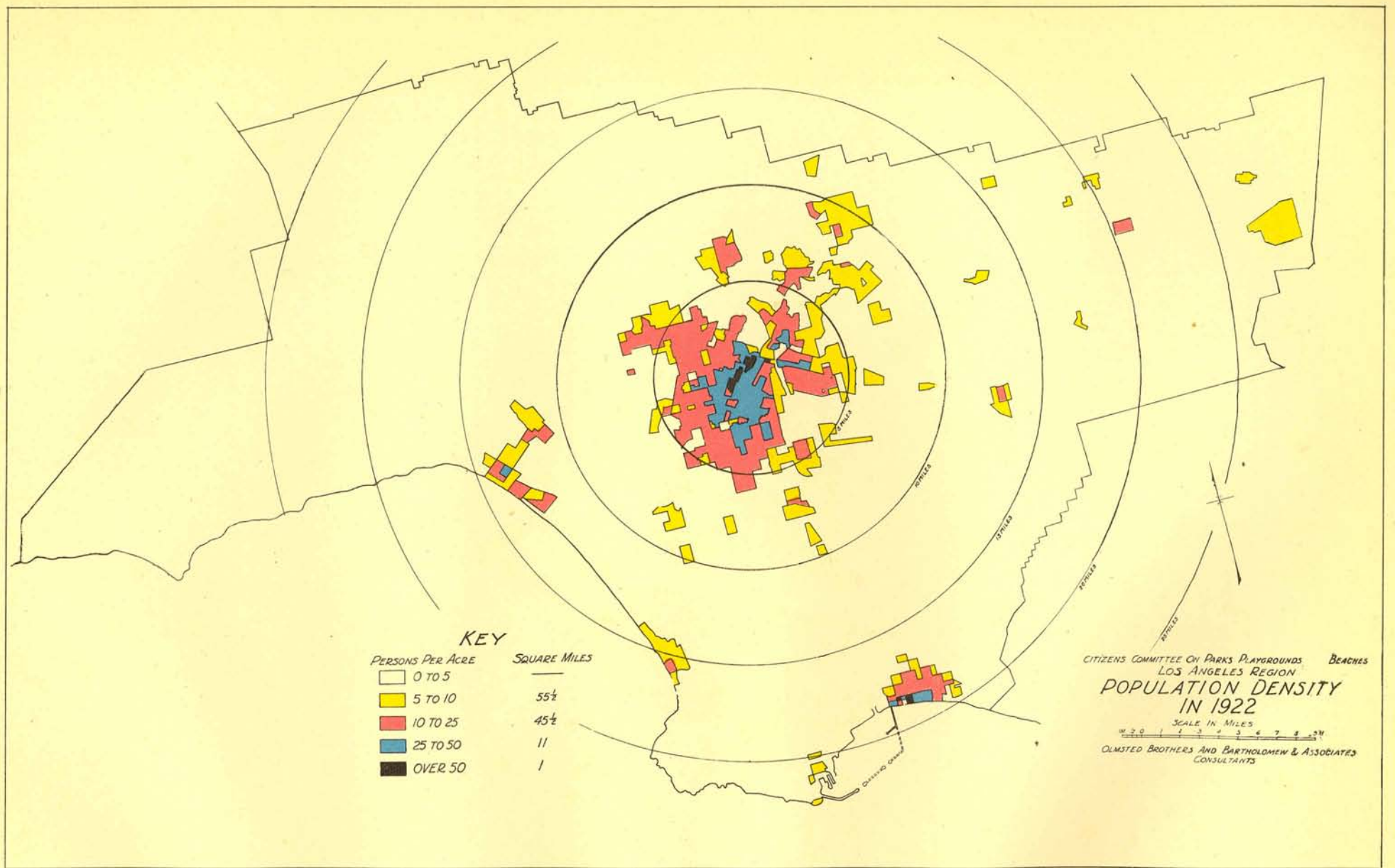


PLATE 7. Diagram showing density of population in the Los Angeles Region in 1922.

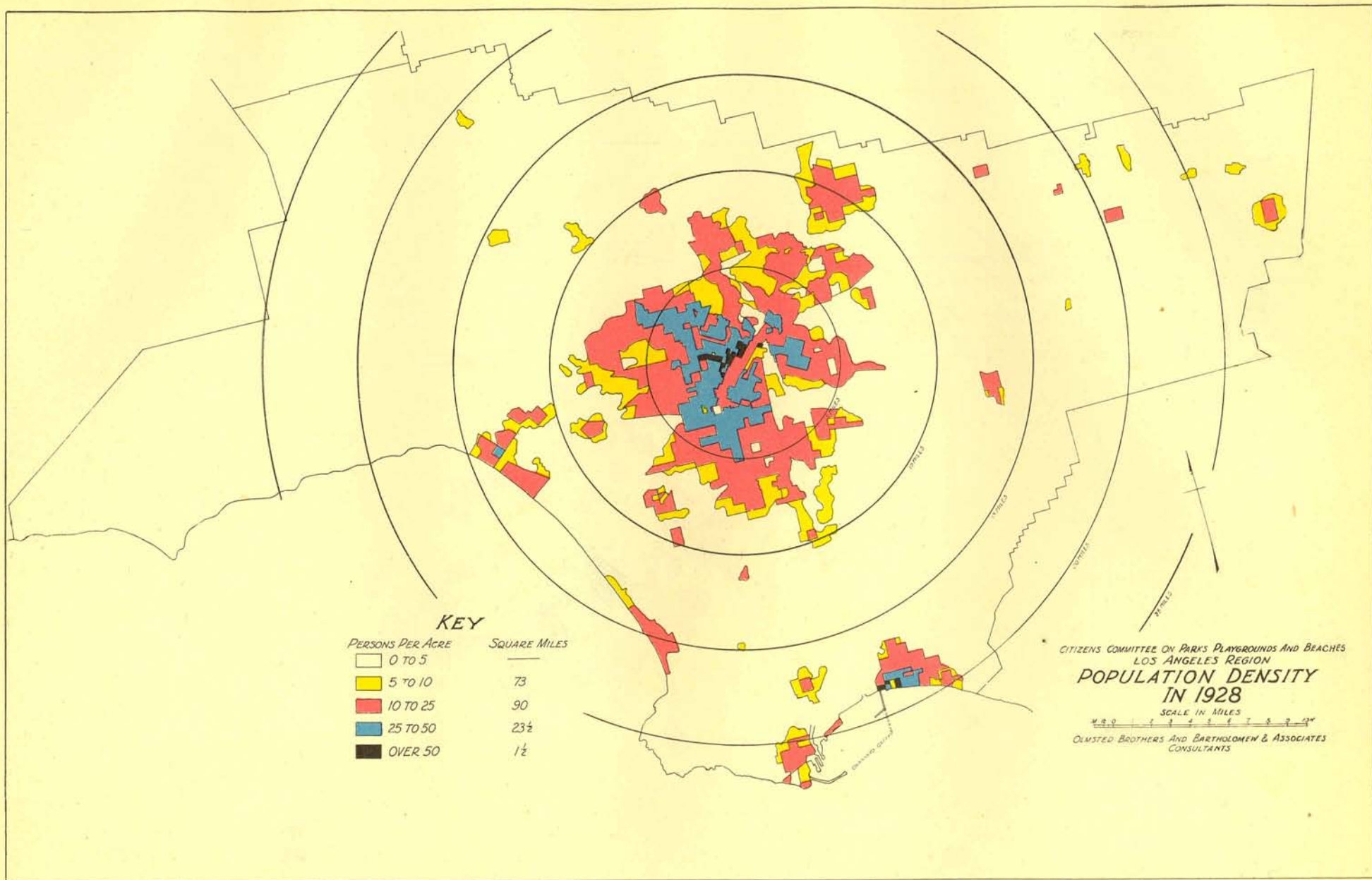


PLATE 8. Diagram showing density of population in the Los Angeles Region in 1928.

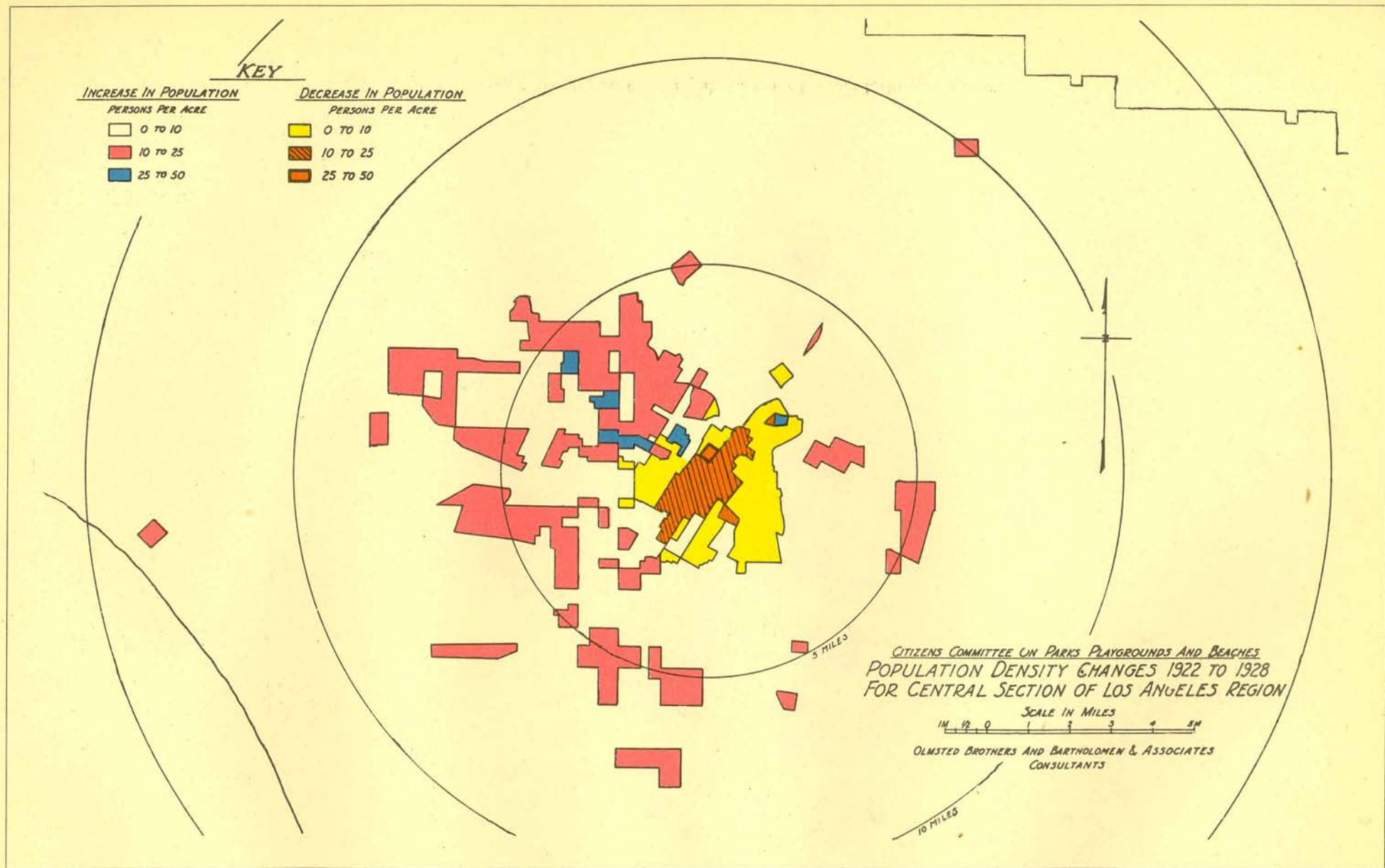
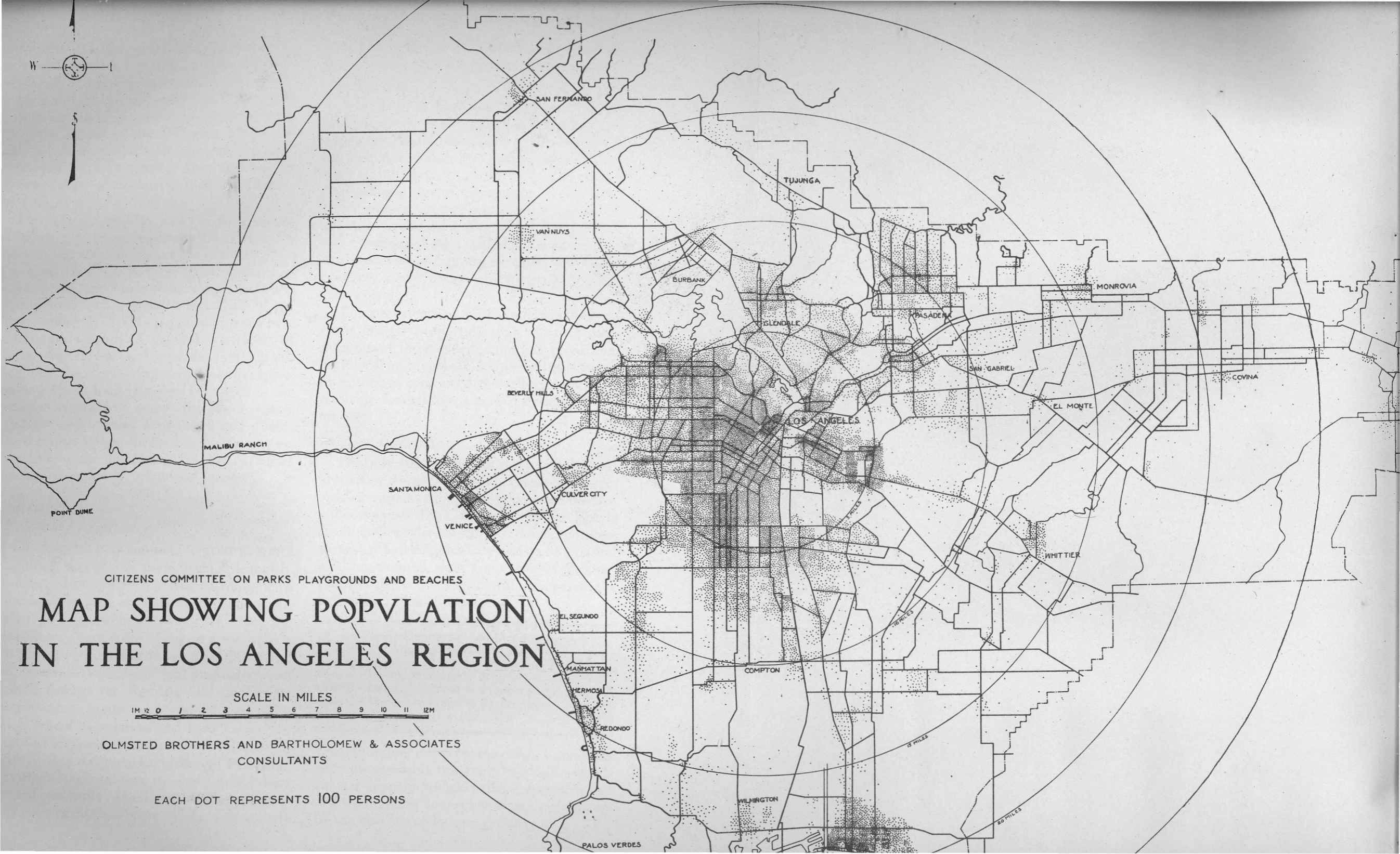
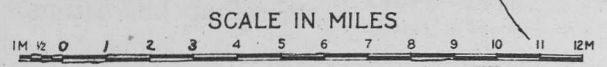


PLATE 9. Diagram showing increases and decreases in population in the Los Angeles Region 1922 to 1928.



CITIZENS COMMITTEE ON PARKS PLAYGROUNDS AND BEACHES

# MAP SHOWING POPULATION IN THE LOS ANGELES REGION



OLMSTED BROTHERS AND BARTHOLOMEW & ASSOCIATES  
CONSULTANTS

EACH DOT REPRESENTS 100 PERSONS

and maintain large private or club properties, such yards provide for none of those forms of recreation which require broad spaces, whether for active games and sports, and other gregarious activities, or for landscape enjoyment. Also, the spread of private house lots over a vast urban area tends to remove the open countryside to a far greater distance from the homes of most of the people than would denser types of development.

The relative sparsity and the wide spread of urban population is presumably due in the main to the combination of two factors: first, a general fondness for the single family detached house, peculiarly desirable in this favorable climate and especially attractive to the large number of elderly people who come here to live; and second, the general availability of the automobile during the period in which this Region has been growing to metropolitan size, making fairly long distances of travel in the common errands of every-day life a matter of slight importance. This trend will doubtless continue unless checked by traffic congestion and by the increasing lengths of travel through completely urbanized territory.

*Evils of the  
"Friction of Distance."*

Los Angeles may continue to grow as a metropolis of automobile users, living pleasantly in detached houses with plenty of room, with a minor percentage of apartment dwellers, but *only* if it provides motor ways (of which the pleasureway park is one type) on a truly modern scale undreamed of in the past. Otherwise the "friction of distance" will gradually press it back toward the familiar and deplorable metropolitan conditions obtaining in older cities, where population and land values are crowded into much smaller areas. Already in parts of Los Angeles, Long Beach, Pasadena, and other larger centers, there is a strong drift toward multiple dwellings which probably will increase in the future. So far as this drift

goes, the need for local parks and recreation grounds will be much greater than at present.

*Age Groups.*

A study of the population in Los Angeles by age groups shows a larger percentage of adults here than in most cities, due probably to the fact that climate and living conditions attract many adults to settle here, with a correspondingly lower percentage of children under twenty: 26 per cent here as against 36 per cent in most other large cities. Long Beach and Pasadena show a still smaller percentage of children than Los Angeles, and this would probably apply to some other parts of the Region as well.

This prevalence of adults indicates the need for a greater proportion than in other communities of those types of outdoor recreation, both local and regional, adapted to enjoyment by adults, as contrasted with playgrounds exclusively for children, essential though the latter are.

*Income Groups.*

The only satisfactory data on income groups in the Los Angeles Region is found in the records of organizations which have made economic surveys. Data, furnished by the Eberle Economic Service, based on a house-to-house survey of Los Angeles City and on rentals and building permits, show for a total of 328,685 families checked in the central urban area, the following ratios of incomes:

INCOME GROUPS BY FAMILIES FOR 1927, AND PERCENTAGE IN EACH	
Class A—Income over \$5000 per year.....	8.3%
Class B—Income of \$2500 to \$5000 a year.....	27.2%
Class C—Income of \$1000 to \$2500 a year.....	55.2%
Class D—Income under \$1000 a year.....	9.3%

Corresponding ratios for the entire County are not now available but from random observations it appears probable that a complete record would show somewhat larger proportions of the two lower income groups.



These facts have a decided bearing upon the types of recreational facilities needed. People having large incomes (Classes A and B) are able to satisfy leisure-time desires and to live under whatever conditions seem most pleasant and enjoyable. Those of lower incomes (Classes C and D) generally live in small-lot, single-family home districts, and have more children and less leisure time in which to go to distant parks and recreational areas. These families comprise 65 per cent of the population, and they should be given first consideration, not only for their own good but for the welfare of the community.

### HOUSING

Los Angeles is a city of single-family detached houses, but in certain urban areas apartments are gradually taking their place. The traffic volume on nearly all streets, the sharp rise of land values and consequent increase of taxes and assessments, are making large sections no longer suitable for ordinary single-family houses. The following table is a summary of the results of a house count made in 1925 by the Southern California Telephone Company for the urban area, having its outer limits approximately eight miles from the central business district, including portions of Beverly Hills, but excluding San Pedro, Long Beach and the west coast communities. The classification "residences" includes duplexes and bungalow courts, but is probably about one-half single-family residences.

TYPES OF HOUSING PROVIDED IN AN EIGHT-MILE RADIUS, WITH NUMBER AND PERCENTAGES OF FAMILIES LIVING IN EACH TYPE

Year	Residences	Flats	Apartments
1917	101,644	21,069	11,885
1922	157,045	37,722	14,725
1925	234,853	46,999	27,182
Year	Lodging Houses	Light Housekeeping	Total
1917	2,067	5,743	142,408
1922	4,608	7,653	221,753
1925	5,580	5,243	319,857

PERCENTAGES						
Year	Residences	Flats	Apartments	Lodging Houses	Light Housekeeping	Total
1917	71.30%	14.70%	8.35%	1.45%	4.20%	100
1922	70.80	17.00	6.65	2.10	3.45	100
1925	73.40	14.70	8.50	1.75	1.65	100

These figures show only slight annual changes in the proportions of people living in the different types of dwellings. The increase of families living in multiple family dwellings is offset by the increased number of single-family houses in the outskirts of the city.

Los Angeles City building-permit records throw a somewhat different light upon the changing character of housing.

ACCOMMODATIONS FOR FAMILIES IN NEW BUILDINGS IN LOS ANGELES CITY

Year	Apartments	Flats	Single Dwellings	Double Dwellings	Total Families	Per Cent of Single Family to Total
1919	277	384	4,111	589	5,311	77.5
1920	561	475	8,850	956	10,842	81.5
1921	976	1,888	13,303	3,434	19,601	68.1
1922	4,458	2,184	15,373	6,018	28,033	54.8
1923	10,803	2,448	19,509	11,082	43,842	44.5
1924	7,652	-----	14,669	7,543	29,894	49.0
1925	6,095	-----	12,482	3,495	22,072	56.5
1926	7,459	-----	9,999	2,559	20,017	50.0
1927	9,968	-----	8,213	2,436	20,801	38.5

It will be seen that the percentage of single-family dwellings to total family accommodations has been almost steadily decreasing.

### CLIMATE

It is needless here to praise the Los Angeles climate or to note the reduced cost of heating houses. Any real enjoyment of climate is *out-door enjoyment*. Without facilities for out-door recreation, climatic advantages might just as well be written down to a mere differential in heating bills. As an asset, the Los Angeles cli-

mate is worth far more than that; but it will be frittered away just as surely as outdoor means for enjoying it are not conserved.

Enjoyment of climate is in this region interwoven with all other forms of outdoor recreation and serves to heighten the pleasure they give. But the most conspicuous effect of climate and scenery is to increase very greatly the use of the automobile for recreation. On holidays and in leisure hours throughout the entire year thousands of motor vehicles are carrying young and old over the highways on pleasure trips. For increasingly frequent periods the primary highways are congested to a degree which makes the so-called pleasure trip anything but pleasurable, except to those who can enjoy any conditions so long as they sit in an automobile.

Obstacles to enjoyment of the climate deserve special consideration with reference to the tourist population. The widely-advertised attractions of climate and scenery bring thousands to the Los Angeles Region every year. They find the climate fully equal to expectations but the facilities by which the outdoors may be enjoyed often prove a surprise and disappointment. The pressure of growing masses upon the now available beaches, canyons, forests, and country roads is lessening their attractiveness and producing unfavorable reactions in newcomers. The beaches, which are pictured in the magazines to attract the eastern visitors, are suffering from the rapid encroachment of private use; the wild canyons are fast being subjected to subdivision and cheek-by-jowl cabin construction; the forests suffer annually from devastating fires; the roadsides are more and more disfigured by signboards, shacks, garages, filling stations, destruction of trees, and multiplication of poles and wires. So that driving for pleasure is often an exhausting and hazardous ordeal rather than a recreation.

### SCENIC RESOURCES

A large number of those who have come to this section of California have been attracted to it by its scenic qualities. They have read that "no other part of the world offers such a diversity of scenery and climate in such a small area." These qualities contribute distinctly to the agreeable living conditions which induce visitors to become permanent residents. The natural beauties of the Los Angeles Region must, therefore, be considered among its primary assets, drawing new population and promoting contentment and satisfaction among those who choose to live here.

But scenic resources are dwindling. The beaches are being fenced off and withdrawn from general use with alarming rapidity. The opportunities now existing for the enjoyment of views out over the sea from the highways along the shore and from privately owned open spaces are being rapidly lost. A practically continuous row of buildings, walls and planting between motorists and the seacoast of Los Angeles County is in prospect. There are now only six miles of highway along the entire coast of Los Angeles County where views of the sea cannot be so cut off at the will of private landowners. There are no large parks or permanent public open spaces along the coast, such as the waterfront parts of Chicago, Belle Isle of Detroit, or Stanley Park, Vancouver. The few small squares, shore parks, and narrow beaches now existing are wholly out of scale with the present population and are deplorably inadequate for the future.

The mountains, which are dominant scenic assets, are slowly losing value because of the intensive urban growth. On the one hand such growth is steadily cutting off views of the mountains, views that can be effectively obtained only across open foregrounds sufficient in scale to complete and unify the landscape composition. The constant process of building upon open areas, the confinement of highways between rows of dwellings, stores, advertising

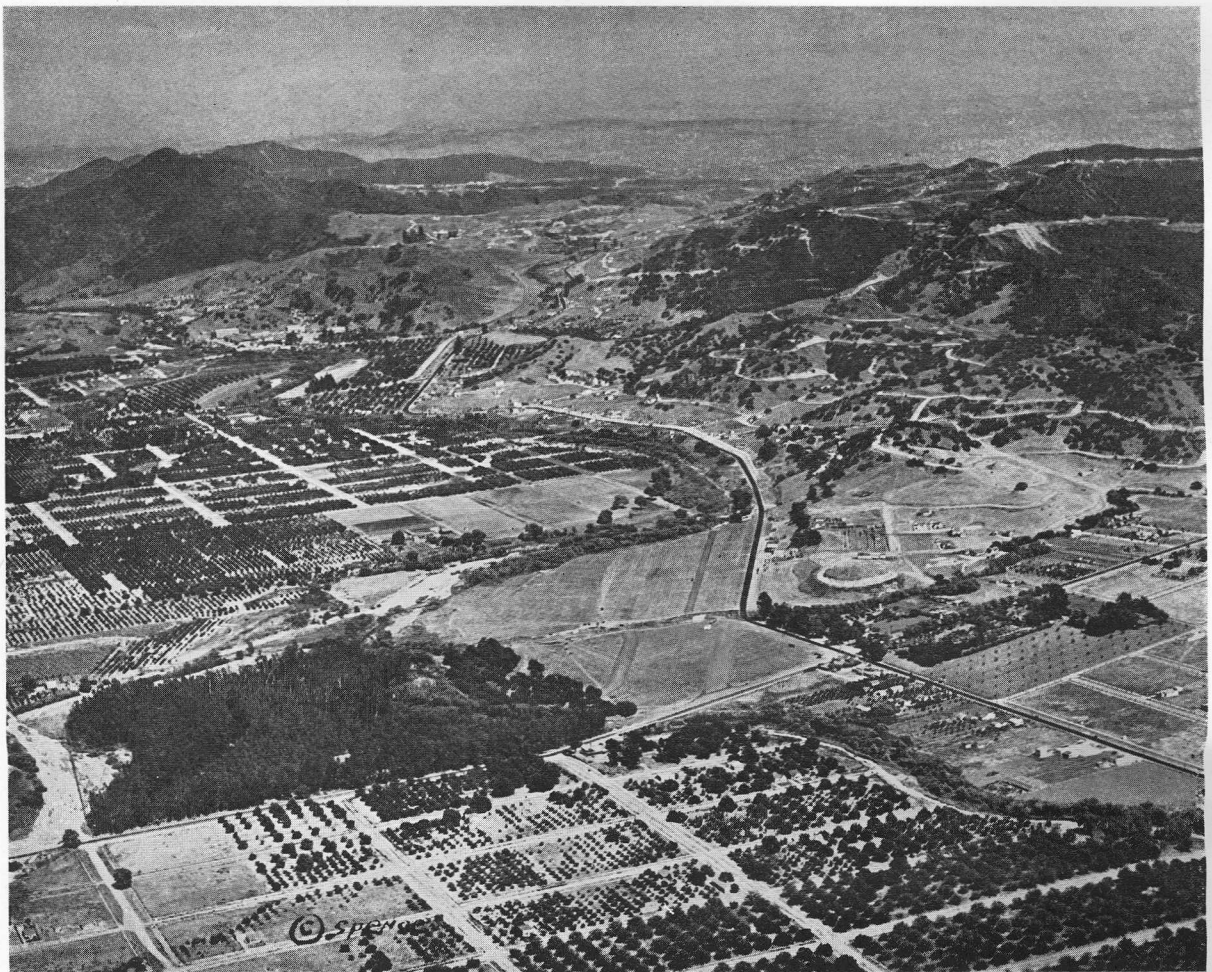


PLATE 11. San Fernando Valley, looking toward the city, showing possible location for scenic routes along the hills and showing the washes where subdivision is spreading but has not yet absorbed all the areas needed for parks and parkways. (*Photo by Spence.*)

structures and other near-by obstructions is gradually eliminating enjoyment of the inspiring mountain scenery from the plains. This is a great loss which can be stopped only by reservation of occasional public open foregrounds. It is immaterial whether these be small local parks or parts of regional parkways.

Within the mountain areas certain characteristics of the mountains most enjoyed by intimate contact are being depreciated by misuse. Only certain canyons and ridges are readily

accessible and easily usable, but these in some cases have been so occupied by motor roads, cabin construction, and commercial uses as to seem no longer distinctly mountain country, but merely reproductions of some of the poorer neighborhoods of the city.

The hills and slightly eminences in and around Los Angeles have never been properly worked into the expanding structure of the city in order to preserve their landscape value or save for public enjoyment the magnificent views from their summits. Land-platting and

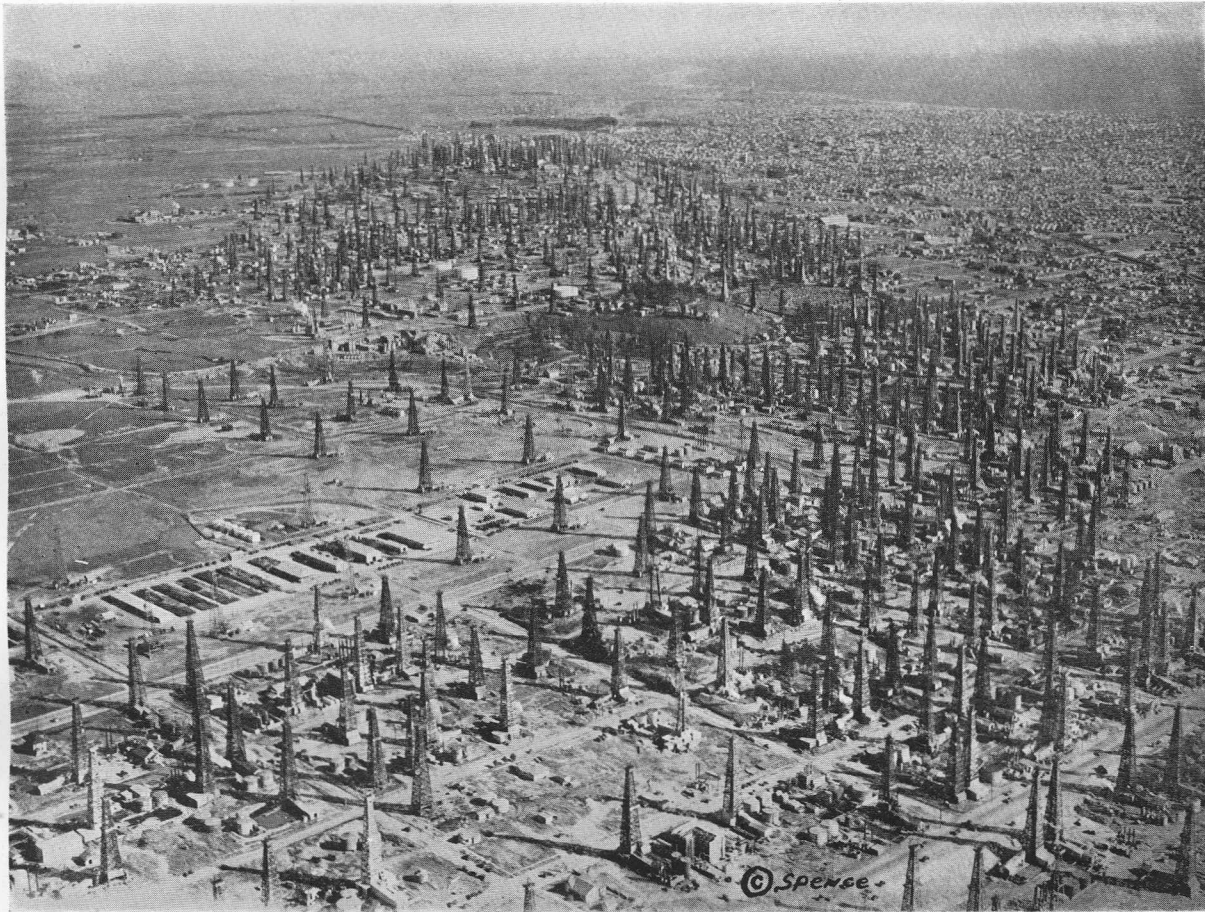


PLATE 12. Signal Hill with its oil wells showing Long Beach on the plain to the right; along the ridge among the oil wells a parkway is needed. (Photo by Spence.)

road-building on steep hillsides generally result in scars and gashes which nature has great difficulty in healing. There are almost no continuous well-planned scenic drives in the hills behind Hollywood or Glendale or those on the east side. The drives and outlook points in Elysian Park are merely suggestive of the treatment that this great metropolis might reasonably be expected to give to many such elevated areas.

The value to tourists and residents alike of scenic routes *permanently protected against obstructive building on the side toward the view* in such situations as high on the Baldwin

Hills, the Montebello and Puente Hills and just above the base of the mountains, would be enormous. Many thousands of visitors come to this Region expecting to find superb panoramas of the great city, the orange groves, the mountains and the sea from these high places, but month by month the opportunities to make them permanently available are slipping away. Even yet, however, many opportunities remain to carry out projects similar to such famous and popular drives as the skyline boulevards of Oakland and San Francisco, Mission Ridge Road and Lookout Mountain Highway in Chattanooga, the 25-mile scenic route on

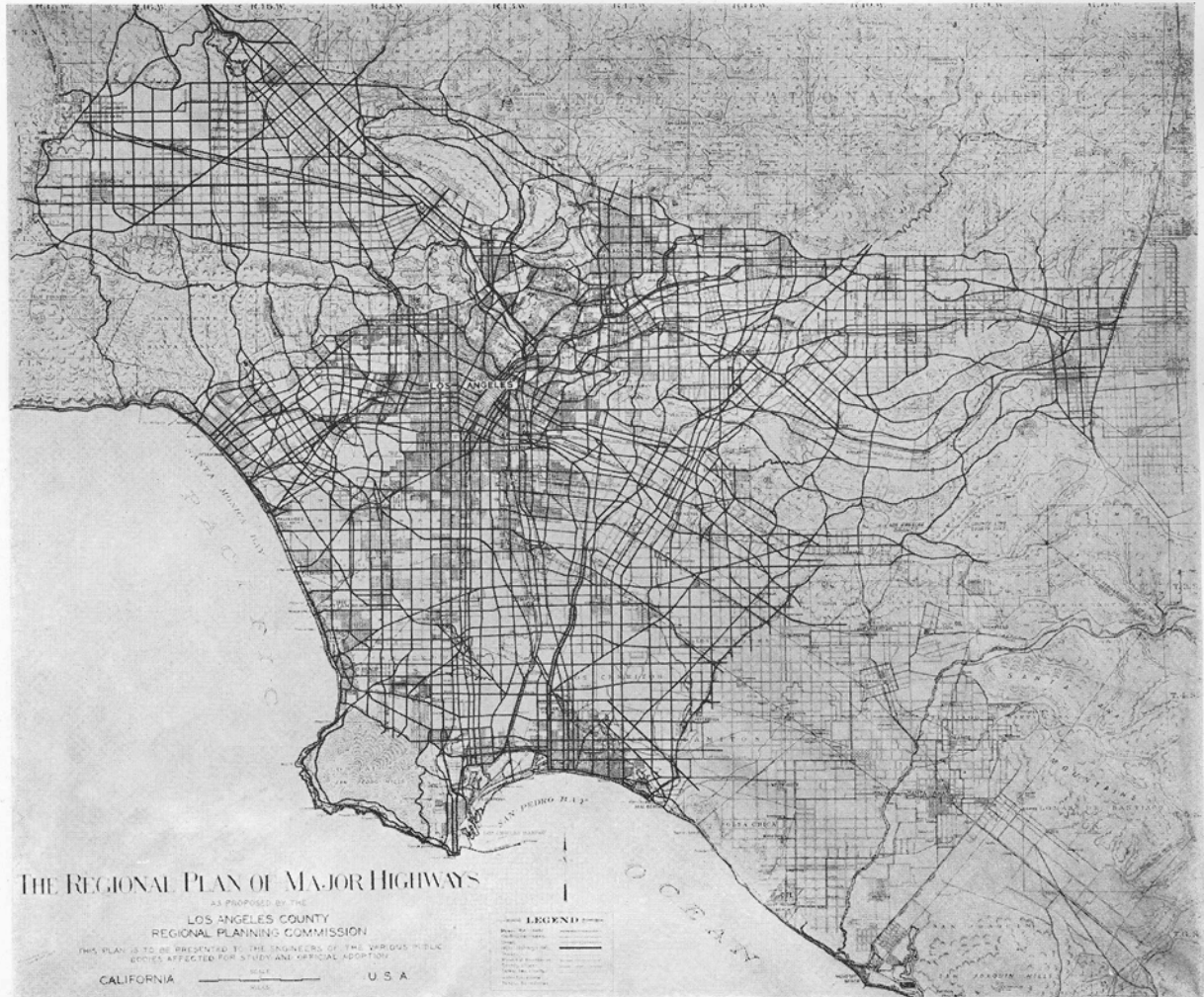


PLATE 13. Plan for highways in the Los Angeles Region as prepared a few years ago by the Regional Planning Commission, showing a complete network of major highways.

the hills behind Duluth, Terwilliger Boulevard and the Columbia Highway at Portland, Oregon, and the hillside parkways at Seattle.

Native trees were never numerous in the Los Angeles Region, and every grove is precious. The introduction of an adequate water supply has banished desert conditions, and the planting of orchards and ornamental trees has of course enriched the view. Few concerted efforts, however, are made to save existing trees when in the path of subdivisions. They

are being destroyed by the spread of the city. In widening the highways, mature trees are cut down, thus removing the one effective relief to the monotony of commercial buildings. Many miles of once pleasant, tree-bordered rural roads are annually added to the already tremendous total of unsightly commercialized streets. Is this good business? It is through increasing lengths of such treeless streets that both citizens and visitors will be forced to travel in search of pleasure—unless the evil

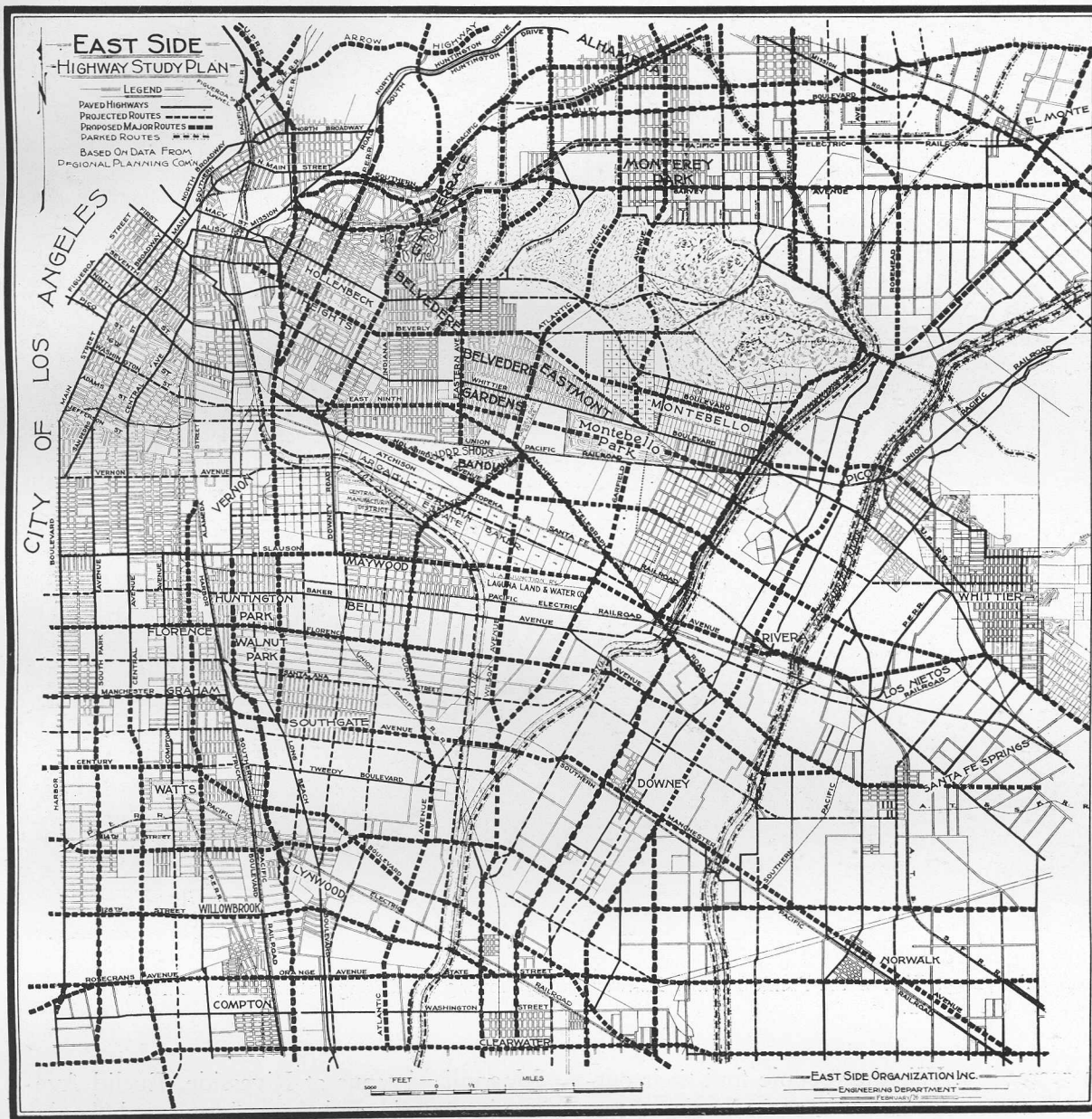


PLATE 14. Plan for highways in the East Side as suggested by the East Side Organization in consultation with the Regional Planning Commission.

results of present highway construction are somehow counteracted and future improvements consider the good of the whole community.

### STREETS AND HIGHWAYS

The streets and highways are developed primarily for other than recreational ends, but they play, or ought to play, an important part



the city; the terminal park has become less profitable and street-car extensions into new areas have been limited. It is doubtful, in view of the wide use of the automobile for transportation and pleasure, whether any considerable extensions will be made in street-car facilities as other new recreation objectives are developed.

The most advantageous recreational feature of the present transit plan is the extensive service rendered the beaches and beach communities. There are now opportunities to approach by rail almost every stretch of usable ocean frontage from Santa Monica southward to Palos Verdes; lines extend to San Pedro, Wilmington and Long Beach and for miles along the coast farther south.

To the mountains there is very little street-car service and likely to be little in the future, as the total capacity of resorts there is necessarily limited and not likely to encourage costly railway building.

Steam railroads, other than as controlling factors in the location of industries and stations and as barriers between residential neighborhoods, do not materially affect the recreation problem.

#### ZONING TO CONTROL THE USE OF THE LAND

Los Angeles and other cities in the Region have adopted some regulations to control the use of the land, maintain standards in each section, prevent improper uses of the land, and keep the sizes of buildings in scale with conditions surrounding them. One-third of the municipalities have zoned for use, about one-fourth for height and area, and a few for side and rear yards. But there is no regulation of population densities, and most places zoned permit multiple dwellings almost everywhere and offer little protection to the small home owner. Hence there is little indication of where private residences are likely to continue in large numbers.

Where apartment-house construction is permitted practically all over a city, as is the case here, two evil consequences may result: first, the danger of the intrusion of apartments almost anywhere discourages the building of single-family houses, even though the fraction of the total area actually occupied by apartments will remain comparatively small. Second, apartments will be scattered and illogically bunched, and while their occupants will have far greater need for local park facilities than other people, it will have been impossible to provide for them adequately in advance of building operations.

Zoning for business frontage in most of the Los Angeles Region is far from reasonable. The speculative urge has almost everywhere led to permission of business on far more frontage than can ever be used, with resultant injury to property fronting on many streets that might otherwise form pleasant residential neighborhoods. In a study of property uses in twenty-three cities, by the Regional Plan of New York, the findings were as follows. Notice the business frontage:

PROPERTY USE IN TWENTY-THREE CITIES—FRONTAGES

<i>Use</i>	<i>Percentage in Residential Cities</i>	<i>Percentage in Industrial Cities</i>
Residences .....	54.0 to 62.0	34 to 48
Business .....	1.4 to 2.8	5 to 10
Industry .....	3 to 5	21 to 26
Streets (fairly constant).....	25 to 25	25 to 25
Parks (very wide variance)	2 to 17.5	2 to 17.5

#### SPECULATIVE LAND SUBDIVISION

Subdivision has been carried so far here that acreage parcels desirable for park purposes, because near in and of scenic interest, are rarely obtainable. And even when found they are often held at such high prices, set by lot sales in the vicinity, that it is difficult to prove that at such prices they will show satisfactory returns to the public as parks and recreation grounds.



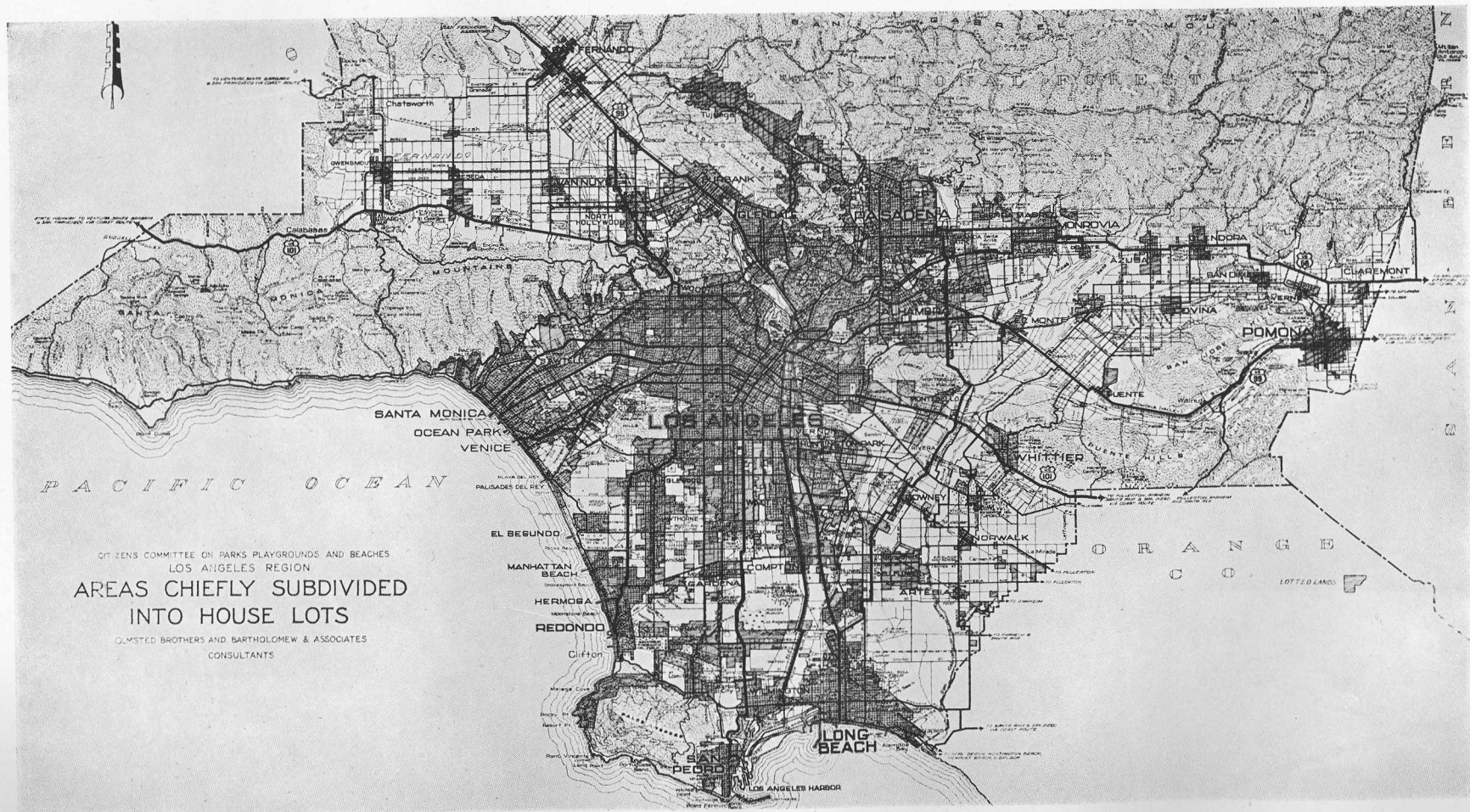
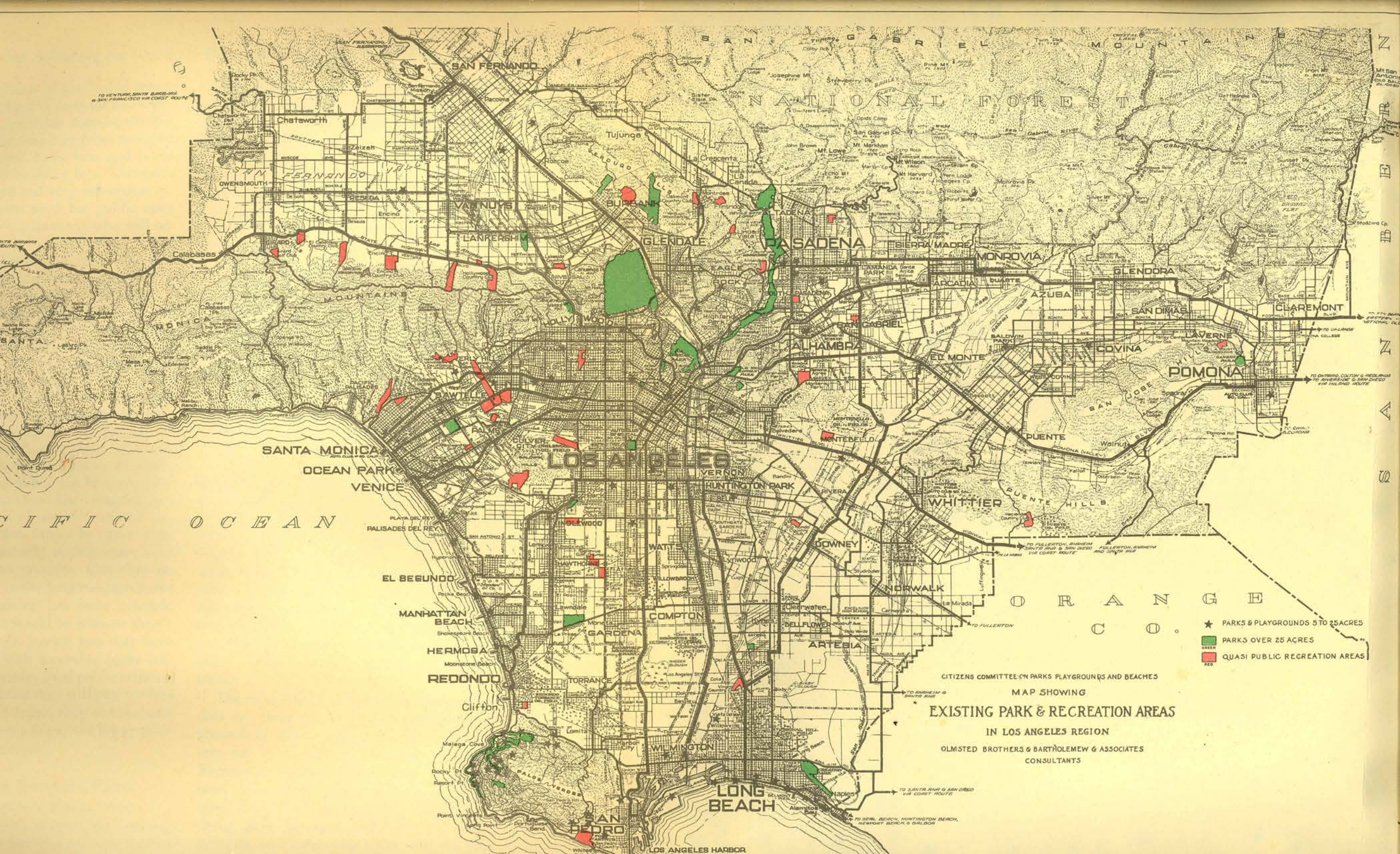


PLATE 16. Map showing areas now almost wholly subdivided into house lot units. (Base map by courtesy of Automobile Club of Southern California.)



- ★ PARKS & PLAYGROUNDS 5 TO 25 ACRES
- GREEN PARKS OVER 25 ACRES
- RED QUASI PUBLIC RECREATION AREAS

CITIZENS COMMITTEE ON PARKS, PLAYGROUNDS AND BEACHES  
MAP SHOWING  
**EXISTING PARK & RECREATION AREAS**  
IN LOS ANGELES REGION  
OLMSTED BROTHERS & BARTHOLEMW & ASSOCIATES  
CONSULTANTS

There are few places in the world where land subdivision has been so constant and widespread as here. The habitable areas of the Region are very rapidly changing from pastures, orchards, farms, small farm lots, and brush land into streets and building lots. This takes place with only slight and very infrequent regard for the ultimate need for public open spaces by the increasing numbers who will occupy the subdivisions.

In the Los Angeles market, those who first buy lots from subdividers are largely intent on speculative resale—to anybody for any use. They are easily persuaded that almost any lot may turn out to be valuable for *business use*; they do not realize that only a very small percentage of lots ever will be so used; and perhaps they do not care; they are intent upon resale, nothing else. They do not appreciate the value of residential neighborhoods permanently satisfactory to live in because of having adequate local recreation grounds. They may be penny-wise and pound-foolish. Until the lot-buying public can be more generally educated to purchase discriminately, instead of on the basis of undifferentiated lottery tickets, subdividers cannot be expected to go very far in voluntarily setting apart local parks and recreation grounds. Can they be made to realize that in the long run such parks will make the remaining lots more valuable than the whole tract would be without them?

If people persist in buying lots that have not been provided with accessible parks and other ultimately necessary local public utilities, at almost the same price they will pay for lots that have those advantages, they or their successors will simply have to pay the heavy price for such shortsightedness.

#### SHORTAGE IN EXISTING PARK AND RECREATION FACILITIES

In the Los Angeles Region the existing parks and recreation facilities are very limited in extent and very irregularly distributed. The

total acreage is not only below the standards of other cities, but below any reasonable minimum, either on an acreage or a population basis. Comparison on the basis of population is here illogical because population is increasing so rapidly and because such large sections still have an abnormal percentage of vacant lots. Comparison, as in the table below, on an acreage basis is more logical, as the total acreage will remain constant.

There is no satisfactory summary of statistical comparisons in regard to parks and related facilities in American cities, whether in relation to population or to area, and statistics are liable to serious misinterpretation without a personal knowledge of local conditions. The statistics used in the following table, whether originally made by the U. S. Census or other compilers, were mainly obtained from incorporated cities, though in some cases from special park districts, school districts, or counties. They show that the boundaries of administrative units relate in the most arbitrary and diverse ways to the distribution of urban territory and population. They frequently overlap each other so that the officials of any one of them may control and report on recreation areas within the jurisdiction of one or more other administrative bodies. Some of them own and operate recreation facilities outside their own boundaries. And there is much diversity in the types of recreation facilities classified under the same heading by different political units.

The most nearly complete and comparable data are those for the parks and recreation grounds of incorporated cities. From the figures for 1925-1926 of the Playground and Recreation Association of America a table has been made showing for Los Angeles and ten other cities (arranged by population) the existing park acreages, exclusive of school grounds, and comparing them with the total acreages of the cities, as follows:

[ 32 ] PARKS, PLAYGROUNDS AND BEACHES FOR THE LOS ANGELES REGION

TABLE SHOWING EXTENT OF PARKS IN ELEVEN CITIES\*

City	Population in Thousands (1920)	Under Five Acres	Number of Parks by Sizes				Over 1000 Acres	Total Park Acreage	Acreage of City	Per Cent of Park Area to City Area
			5-25	25-100	100-1000					
Chicago.....	2702	18	36	10	9	0	4,487	131,190	3.41	
Philadelphia.....	1824	4	10	7	4	2	7,802	80,017	9.75	
Detroit.....	994	37	10	4	6	1	3,733	76,245	4.96	
St. Louis.....	773	58	16	7	6	1	2,881	39,405	7.07	
Boston.....	748	74	9	8	8	0	2,637	30,598	8.61	
Los Angeles.....	576	42	16	4	2	1	4,906	262,893	1.87	
San Francisco.....	507	20	31	7	4	1	2,536	81,280	3.12	
Minneapolis.....	381	78	28	13	13	0	4,738	34,105	13.88	
Kansas City.....	324	25	37	18	3	1	3,238	38,400	8.42	
Seattle.....	315	36	67	8	6	0	2,145	45,760	4.70	
Portland.....	258	25	41	8	6	0	2,182	42,240	5.18	

\*Exclusive, as in the other statistics, of school playgrounds, and exclusive of the National Forests.

Minneapolis has the most properties, the largest percentage of park acreage, the best distribution of areas, and the best develop-

ment and maintenance. The data for Minneapolis, for Los Angeles City and for Los Angeles Region are in detail as follows:

COMPARISON OF PARKS IN MINNEAPOLIS AND LOS ANGELES  
Number of Parks by Sizes

	Under 5 Acres	5-25	25-100	100-1000	Over 1000 Acres	Total Park Acreage	Acreage of City or Region	Population in 1920
MINNEAPOLIS:								
Number.....	78	28	13	13	-----	-----	-----	-----
Aggregate acreage.....	63	331	627	3,714	-----	4,737	34,105	380,582
LOS ANGELES CITY:								
Number.....	42	16	4	2	1	-----	-----	-----
Aggregate acreage.....	48	216	176	713	3,752	4,905	262,893	576,673
LOS ANGELES REGION:								
Number.....	95	69	19	12	1	-----	-----	-----
Aggregate acreage.....	247	839	934	3,896	3,752	9,668	960,000	936,000

Within the Los Angeles Region a wide variation is found in the percentages of park areas. In Pasadena, relatively large areas are now publicly owned. In Palos Verdes, 25 per cent of the entire residential district (800 acres out of 3200) is set aside for park and recreational uses. On the other hand, in many other districts the percentage of public open space is extremely low.

The total park area in the Los Angeles Region is 9,668 acres, or about 15 square miles.

That is to say, in a region of 960,000 acres, or 1500 square miles, there are only 15 square miles of park lands. This is only about *one per cent* of the total area. Compare this with the fact that there are now in the same region 42 areas in golf clubs and country clubs privately owned outside the park areas, and containing 6,179 acres, or about two-thirds as much as the total public park lands.

The following table shows what has been

done and is now being done in four large metropolitan regions. Los Angeles has a relatively large area in municipal parks, but it includes a number of mountainous areas having lim-

ited recreational value. In Metropolitan, County and State parks, Los Angeles is far behind other cities—in fact, has hardly made a beginning.

REGIONAL PARK AREAS—PUBLIC LANDS IN ACRES

METROPOLITAN REGION	Municipal Parks	Municipal Water-shed Properties	Metro-politan County and State Parks	Adjacent National Forest and Park Areas	Acreage of the Region	Population of the Region
CHICAGO:						
Cook County only, 1928	5,800	-----	32,000	-----	597,000	3,760,000
Chicago Region, 1928	12,000	-----	38,900	-----	5,000,000	4,800,000
Chicago Region official recommendations and estimates for 1950—						
(Minimum)	21,000	-----	64,000	-----	5,000,000	8,000,000
(Maximum)	74,000	-----	-----	-----	-----	-----
BOSTON:						
Metropolitan District, 1928	7,054	712	11,142	-----	262,400	1,840,912
NEW YORK:						
New York Region, 1927	13,736	56,999	76,266	655,874	3,537,249	10,340,000
LOS ANGELES:						
Los Angeles Region, 1928	9,161	6,523	507	640,000	960,000	2,000,000

DISTRIBUTION OF SPACES NEEDED FOR LOCAL SERVICE

In order to indicate the extent to which existing public open spaces may serve local recreational and park needs in the Los Angeles Region, a diagram has been made (Plate No. 18) showing all public recreational areas: parks, playgrounds, school grounds, and others, together with the surrounding district for which they can logically be expected to provide local service. The diagram was drawn on the assumption that local service should extend over a district twenty times the size of the unit (the park area being 5 per cent of total area) but not more than half a mile distant from the unit.\* On this diagram all such districts, and all large areas not requiring recreation facilities (industrial areas, hilltops, steep slopes, college grounds, and private recreation grounds) have been left in white;

within the region now almost wholly cut up into building lots all other areas have been shown in black; outside the intensively subdivided (black) areas all lands not served by existing parks and not withdrawn from residence uses have been shown cross-hatched. This diagram shows a lack of open spaces for local service in a large percentage of the Region.

Parkways or pleasureway parks in any adequate recreational sense, as they are known for example in New York, Boston, Chicago, Cleveland, Detroit, Minneapolis, and Kansas

\*Five per cent of the total area would be a low standard for a region of great population densities. (The island of Manhattan has 12.4% of its total area in parks and, with a population density approximating 200 per acre, is very inadequately supplied. The Borough of the Bronx has 16.8% of its 26,524 acres in parks.) But 5% seems reasonable for the lower prevailing densities of the Los Angeles Region. The half-mile limit of effective service radius for local recreation facilities is based on observations and attendance counts in many eastern cities, but possibly the radius should be extended here because of the much more extensive use of automobile transportation.

City, are almost wholly lacking here. This lack cannot be due to a smaller need because of the peculiarities of the Region. The people of Los Angeles County have not less but more need and desire for outdoor enjoyment by automobile. Yet compare the almost complete lack here with the mileages in the following list:

LENGTHS OF PARKWAYS OR PLEASUREWAY PARKS	
New York City ..79 miles	Detroit .....15 miles
Boston .....20 miles	Minneapolis ...55 miles
Chicago .....84 miles	Kansas City.....90 miles
Cleveland .....43 miles	Los Angeles.....
	.....No true parkways

Some of the mileage reported in this table does not come up to the standards for a true parkway as considered in this report.

### CONCLUSION

It is realized that in a review of Los Angeles park needs, too much emphasis must not be put upon comparisons with other cities. The problem here must be solved almost entirely on the basis of local or at least California experience. In the last analysis the people of this Region must determine their own recreation

needs and meet them in the same manner as they are working out the problems of water supply, flood protection, harbor improvement, transportation and other matters having significance beyond the boundaries of any single city.

The people of the Los Angeles Region have essentially the same normal desire to play and they derive the same benefits from exercise in the open as people elsewhere; youth here finds fully as keen enjoyment and healthful development in games and sports as youth in other cities; the climate constantly beckons outdoors, far more than elsewhere. Study has unearthed no factor which indicates that the people of this Region will be permanently satisfied with lower standards than those of other great communities, and many that point toward the expediency of higher standards. The big question is whether the people are socially and politically so slow, in comparison with the amazing rapidity of urban growth here, that they will dumbly let the procession go by and pay a heavy penalty in later years for their slowness and timidity today.

SAN GABRIEL MOUNTAINS

ANGELES NATIONAL FOREST

Yerbugo Mts

SANTA MONICA MOUNTAINS

SAN JOSE HILLS

PUENTE HILLS

SAN BERNARDINO

COUNTY

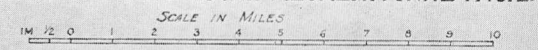
ORANGE

PALOS VERDES HILLS

VENTURA COUNTY

- KEY
- EXTENT OF POSSIBLE RECREATIONAL SERVICE OF EXISTING FACILITIES
  - INDUSTRIAL AREAS AND OTHER NON-RESIDENTIAL AREAS
  - RESIDENTIAL AREAS LYING OUTSIDE ANY REASONABLE RANGE OF LOCAL RECREATIONAL SERVICE OF EXISTING FACILITIES
  - ▨ AREAS NOW PARTLY LOTTED, INTO WHICH INTENSIVE USE FOR RESIDENTIAL PURPOSES IS NOW SPREADING

CITIZENS COMMITTEE ON PARKS PLAYGROUNDS AND BEACHES  
 LOS ANGELES COUNTY - CALIFORNIA  
 DIAGRAM SHOWING LOCAL RECREATIONAL FACILITIES



OLMSTED BROTHERS — BARTHOLOMEW AND ASSOCIATES

## CHAPTER III

### ADMINISTRATIVE, LEGAL AND FINANCIAL CONDITIONS AFFECTING THE CREATION OF AN ADEQUATE PARK AND RECREATION SYSTEM FOR THE LOS ANGELES REGION

AN adequate park and recreation system should recognize two distinct types of functions in order to meet needs that are primarily local and those that are regional. This difference of need and consequently of function profoundly affects the selection of sites, the design, and the legal, financial and administrative problems of control and maintenance. But there is no such sharp distinction between the kinds of parks that may serve such needs. Many park areas, primarily intended for the one purpose, may serve the other, or may serve both, and thus make for efficiency and for economy. Indeed, many a local recreation area such as a public city beach, created and operated by a single city primarily for its own people, is now effectively serving as a regional area drawing people from all parts of the region in even greater numbers than are other areas intended strictly for regional use.

A multitude of agencies, with responsibilities and powers overlapping in complicated ways, have in every metropolis developed serious deficiencies in practice and have left important needs uncared for. This is especially true of recreation, which is slighted far more than other branches of administration. As new needs have tardily been recognized, they have been imperfectly dealt with either by expanding the scope of existing departments or by creating subsidiary bureaus. This has been especially true of problems transcending jurisdictional boundaries.

#### *Local Authorities and Co-operative Action.*

Operating throughout every metropolitan region, and dealing with some of the problems here considered, are the school boards, which naturally deal with facilities that serve the people near at hand. At the same time and in the same area a number of other agencies, more or less independent, work upon recreation problems, some from a local point of view, others from a regional one. Among these some now act in co-operation with one another, and to this voluntary co-operation and interchange of views have been largely due such even moderately well-balanced and satisfactory results as have been obtained.

Existing methods have worked out best in those matters of local recreation where results have approximated standards which the local people demand and are willing to pay for. It is therefore believed that in such local matters the best results for the least money can be obtained by stimulating the activities of existing municipal agencies and school boards.

#### *Regional Authority and Continuing Policies.*

It may confidently be said that the more truly regional park and recreation needs have never been satisfied in a metropolis merely by adding to local agencies such regional functions as each municipality may see fit to under-



take. Success requires an agency created for the regional purpose alone, and guided by the principle of unity—singleness of responsibility, authority, purpose, and policy.

Responsibility for and jurisdiction over a broad territory may be focused in one agency covering the entire metropolitan area. The agency may cover it as one unit or as more than one, but should in any case cover a section large enough to emphasize unmistakably its regional responsibility. For example, the Boston Region has one metropolitan park agency covering about forty municipalities, each with its own local agency. The New York Region extends into three states and has several park agencies of wide jurisdiction, mainly covering an entire county each; it also has two special commissions (one interstate and one for the State of New York) each having jurisdiction over several counties; there are in addition four hundred municipal agencies.

The success of such agencies depends on concentration of purpose. *Responsibility for park and recreation problems should not be made a side issue.* Continuity, stability of policy, and control of the budget are essential. This is true especially because the results of park expenditures are very slow to materialize, slower perhaps than those of any other expenditures.

Of the conditions most essential to success are: first, stability of tenure of personnel; second, a small deliberative body of large-minded persons, responsible for the policy but willing to delegate executive work in pursuance of the policy; and, third, a method of financing which permits budgeting systematically for considerable periods in advance.

#### *Legislation Recommended.*

Legislation embodying the principle above outlined exists in other states, and the principle is not unknown here in California. The East Bay Municipal Utilities District is an example of regional authority overlapping both city and county boundaries.\*

\*For a detailed comparison of powers, duties and resources of such agencies see Appendix No. IV.

Legislation is needed here to permit the creation of a regional park district. A large part of the needs of the Los Angeles Region is essentially regional, and can best be developed through the creation of a regional authority. To create such an authority will require legislation.

The Legislature should pass an enabling act providing for an initiative petition signed by a large enough number of persons, possibly five thousand, to show popular demand and to prevent hasty action. This provision would limit application of the act to populous districts where the recreational need really exists. The petition should be filed with the board of supervisors, who may reject or approve it, or reduce the boundaries of the proposed district. When the petition is approved, an election should be called in the proposed district to determine whether the district shall be formed.

Government of such a district should be vested in a board of five directors, to serve without compensation, with four-year overlapping terms, to be appointed by the Governor. In this respect the proposed act would follow closely the example of other successful park acts, such as that for Boston, or for the counties of New Jersey, where splendid personnels have been secured, consisting of leading citizens willing to give much time and thought to this question, capable of resisting political influence and attracted to the office by considerations of public service where no salary is involved.

The board of directors of the proposed district should have the following powers:

to control such affairs in the district as are necessary to carry out the purposes of the act. This power should be substantially the same as that of the flood-control, sanitation, and other districts now existing here, and that of similar park districts elsewhere, including the power to acquire and hold land and rights in land for the purpose of developing a system of parks and other recreation facilities.

to levy, in addition to taxes for service of bond issues, an annual tax for maintenance not to exceed five cents per hundred dollars of assessed valuation.

to issue bonds not to exceed two per cent of the assessed valuation of the district, by giving notice and holding hearings, with the provision that if a referendum petition is filed an election must be held, requiring a two-thirds vote to carry the bonds. Of such bonds, not more than one-half of one per cent of assessed valuation to be issued in the first year, nor more than one-quarter of one per cent in any one year thereafter.

to issue bonds thereafter, when approved by a two-thirds vote of the electorate of the district, above two per cent but not above five per cent of the assessed valuation.

The provisions above outlined are based upon a study of the probable financial requirements involved in acquiring and constructing a system of regional parks for the Los Angeles Region as fully described elsewhere in this report.

#### ESTIMATED COST OF THE PROPOSED PARK SYSTEM

To acquire and develop a comprehensive system of parks as here proposed will require a period of many years. It is difficult to approximate the probable cost very closely, but estimates have been made, as carefully as possible, under the three heads of acquisition, improvement, and maintenance.

Costs of acquisition will be high in the early years of the program. Improvement costs will vary with the rapidity with which acquired areas are brought to their fullest usefulness; but if sufficient funds are available the annual improvement costs will probably be highest from five to ten years after the greatest acquisition of property. Maintenance costs will be low in the early years and will gradually increase until the acquisition and improvement have been largely completed.

The total cost to acquire and develop the entire system of parks and recreation areas, inso-

far as such development is herein recommended, including all local as well as regional features, is estimated at \$224,000,000. But this estimate includes a number of features, such as highways and flood-control areas now being developed or now contemplated, for which funds will be wholly or partly available from various other sources, the total of which is large, possibly \$100,000,000. This leaves \$124,000,000 for which special financing is needed. This estimate is necessarily preliminary only and is subject to various modifications, but it is a fair measure of the size of the problem that confronts this Region. The cost of accomplishment will vary with time as well as with change in land values, for it will take many years even to approach a completion of the program.

#### *Factors That May Modify Costs.*

While spread of urban conditions and local improvements will tend to increase costs, there are several factors that should aid in reducing them.

The fact that a comprehensive plan exists for park development may encourage the donation of large areas by persons who might not otherwise be inspired to make such gifts. A public park makes a splendid memorial. Bequests of this sort have been popular in the older communities; and, already, here in this Region, several parks have been given, such as Griffith Park, Brand Park, and Stough Park. It is possible that further gifts, even on a large scale, may be made which will materially help to reduce the total costs.

The proposed park authorities should have sufficient power and leeway to make favorable purchases of lands, and it is possible that such favorable purchases may aid materially in keeping down the total costs.

There will undoubtedly be various instances where the creation of parks will lead to a very material increase in the value of adjacent lands. Such increase is a legitimate source for recovery in the assessment of benefits; and while it is not here proposed that the park

board shall have authority to assess for benefits, it is possible that local communities may join in obtaining lands and use their power to assess benefits. Also, the fact of created benefits often serves to persuade owners of large tracts to give lands for parks in return for benefits the parks will create, and thus aid in reducing the total cost.

In the operation of the properties there will be certain features such as golf courses, bath-houses, boat landings, refectories, and possibly sites for amusement devices, that may produce some revenue to offset in part the cost of maintenance.

Large areas of proposed park lands in the rivers and drainage channels will have double value to the public because they will serve both park and drainage purposes. The cost of acquiring these areas has been included in the estimates for the park system, but part of the cost should be chargeable to drainage works, and thus reduce park costs. In either case the public will have to pay but once for the property, whether through park or flood-control authorities, and will gain in the greater usefulness of the areas under such a plan. As a matter of public record it would be more just if a portion of acquisition be borne by each of the departments, rather than by the parks alone.

*Possible Source of Funds.*

Bonds to the extent of two per cent of the assessed valuation of the district, based on the present valuation of approximately \$3,500,000,000 will produce approximately \$70,000,000. Assuming that the full amount of this sum may be issued in five per cent interest-bearing bonds in the first few years, with provision for \$2,000,000 retirement annually, and that \$2,000,000 of new bonds can then be issued annually, it will require from twenty-five to fifty years to secure sufficient funds to carry out the entire plan. The effect upon the present tax rate will then be as follows:

<i>Charges</i>	<i>Tax rate on \$100 Valuation</i>
Interest of 5% on \$70,000,000=	
\$3,500,000 .....	10.0 cents
Principal retirement \$2,000,000 .....	5.7 cents
Maintenance tax proposed .....	5.0 cents
<b>MAXIMUM TOTAL</b> .....	<b>20.7 cents</b>

As previously stated, there are numerous factors which may reduce this tax rate, such as gifts of land and money, favorable conditions of purchase, co-operation with the flood-control district and with local agencies, use of special assessments, and revenues from operation. There are still other factors that may assist in reducing the tax rate, the most important of which is the probable increase in the assessed valuations of the district. At the present rate of increase the total assessed valuations will approximately double in twenty years, which will automatically reduce the rate to approximately half the amount herein estimated at a maximum of 20.7 cents.

In the first few years after creating the park district it will of course be impossible to use any sum approaching the full amount of the bonds. Therefore, for several years, the tax rate will be considerably below the maximum. As these years pass, the assessed value will increase, and the tax rate will correspondingly decrease.

It is also possible that the total interest charges may be reduced by favorable methods of retirement of principal, or through special forms of serial bonds, or because of lower interest rates prevailing at the time of issue.

Against all the factors that may reduce the tax rate there is one that will tend to increase it: the higher cost of land likely to result from delay in acquisitions.

A balancing of all these factors leads to the conclusion that a maximum tax rate of fifteen cents may be required at certain times. *But it is believed that no more than eight or ten cents will be required for several years, with a prob-*

able maximum average of ten cents over the forty or fifty years required to complete the system. But whatever the rate, the authority to incur expense should be established as herein recommended.

JUSTIFICATION FOR THE PROPOSED EXPENDITURES

To compare the present plan with accomplishments in other regions is difficult if not impossible, because of numerous dissimilar factors. The Los Angeles Region has a far wider and thinner spread of population than any other metropolis, and a far greater use of automobiles.

The Los Angeles Region is the only great metropolis that has developed almost wholly since the invention of the automobile. The recreation of its people is largely dependent on the automobile. Favorable climate and recreational advantages attract great numbers of tourists, to the profit of the community. To continue to attract such tourists or to increase the volume until it reaches an economic value comparable, for instance, with that of Paris, parks and pleasureways on about the scale here proposed are essential.

Here is a most interesting opportunity for comparison. Paris transformed itself from an unsightly place to a beautiful city. It has long been the center of world tourist traffic. The improvement plan that has so profitably resulted was undertaken in 1850, when Paris had a population of about a million and a half. During the next forty years about \$400,000,000 was spent in carrying out the plan. During that period, money was worth far more than it is today. Moreover, Paris had far fewer economic possibilities, a much less advantageous location, and a smaller population than Los Angeles; and a climate that compares unfavorably. Yet Paris is now the world's travel center.

If Paris, with all her handicaps, had enough confidence in her future to plan and execute a \$400,000,000 program in 1850 at \$267 per capita when money was actually of greater

value than it is today, has Los Angeles less confidence in herself and her future? Has she the courage to initiate an equally important program at an estimated cost of \$62 per capita—less than a fourth of what Paris paid?

In America, the most recent and most comparable metropolitan park plan is that of Westchester County, New York, where a \$60,000,000 program was undertaken by a population of about 361,000, the total assessed valuation being about \$670,000,000. The park system

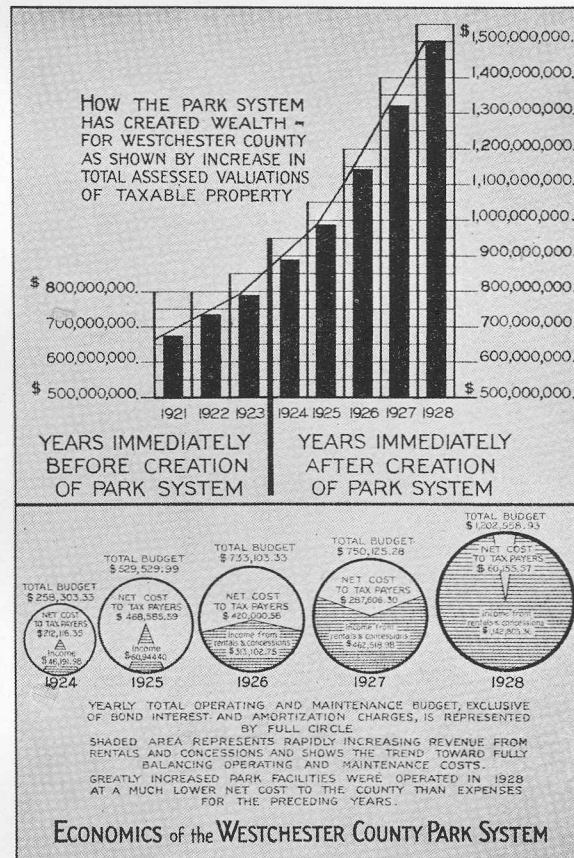


PLATE 19. Diagram taken from 1929 Report of Park Commission of Westchester County, New York, where a large development of parks has recently been undertaken.

of Westchester County will comprise 16,000 acres of parks and 140 miles of parkways. It represented, at the time of initiation, a total

cost of about \$100 per capita, which should be compared with the \$62 estimated for a complete park system for the Los Angeles Region. The Westchester system represented 10% of the total assessed valuation at the time of its initiation. The entire system here recommended for the Los Angeles Region represents 3½%. The accompanying chart, Plate No. 19, illustrates how, within six years, assessed valuations have doubled in Westchester County along with the development of the park system. Certainly such a system should serve to increase and maintain property values in the Los Angeles Region. Indeed, *in the absence of such a system urban growth will destroy conditions which have been among the important factors in creating and maintaining the present values.*

In addition to the enormous value the park system will have for the people of the Los Angeles Region, its very great value also as an attraction to tourists, might *even alone* justify its cost. Its total cost will be less than the sum

now spent annually in Paris by American tourists. When completed, the Region will have here, in the beaches, mountains, and plains, over six hundred miles of pleasant driveways, a remarkable combination of scenic values *unequaled elsewhere in the world*—a great asset for the people, a stimulus for the value of home properties, and an attraction for tourist traffic heretofore undreamed of.

### Industrial Growth.

A study of the economic resources of the Los Angeles Region, undertaken as a part of this report, shows that Los Angeles enjoys a unique position among large cities. In number of wage earners, in value of manufactured products, wages paid, and the like, Los Angeles now ranks industrially only about one-tenth of the size of New York; but Los Angeles is enjoying the greatest industrial growth of any of the large cities; and there is little reason to doubt the continuance of this growth, as suggested in the following table.

## COMPARISON OF MANUFACTURES FOR 1923 AND 1925

(Source: Census of Manufactures, U. S. Dept. of Commerce)

	Los Angeles	New York	Chicago	Philadelphia	Detroit	Boston	St. Louis	New Orleans
NUMBER OF ESTABLISHMENTS								
1923.....	2,323	27,423	9,299	6,399	1,686	2,791	2,440	632
1925.....	2,691	23,714	9,112	5,636	1,614	2,620	2,367	661
Per cent change.....	+15.8	-13.5	-2.0	-13.5	-4.3	-6.5	-3.0	+4.6
AVERAGE NUMBER OF WAGE EARNERS								
1923.....	55,270	577,971	384,769	273,980	170,960	82,450	112,698	21,379
1925.....	58,086	538,845	370,041	246,680	172,742	77,334	105,022	22,118
Per cent change.....	+5.1	-6.8	-3.8	-11.1	+1.0	-6.6	-6.8	+3.5
WAGES PAID—UNIT: \$1000								
1923.....	81,236	849,937	570,689	356,120	282,672	107,256	134,823	18,591
1925.....	85,736	844,648	563,635	332,415	293,896	103,812	130,857	20,291
Per cent change.....	+5.5	-0.6	-1.2	-7.1	+4.0	-3.3	-2.9	+9.1
COST OF MATERIALS—UNIT: \$1,000,000								
1925*.....	275	2,719	1,882	1,049	906	290	513	93
VALUE OF PRODUCTS—UNIT: \$1,000,000								
1923.....	413	5,310	3,288	1,987	1,436	567	897	131
1925.....	532	5,324	3,439	1,937	1,599	586	875	135
Per cent change.....	+28.6	+0.3	+4.6	-2.6	+11.3	+3.3	-2.5	+2.5
VALUE ADDED BY MANUFACTURE UNIT: \$1,000,000								
1925*.....	257	2,605	1,557	888	693	296	362	62

\*No figures available for 1923.

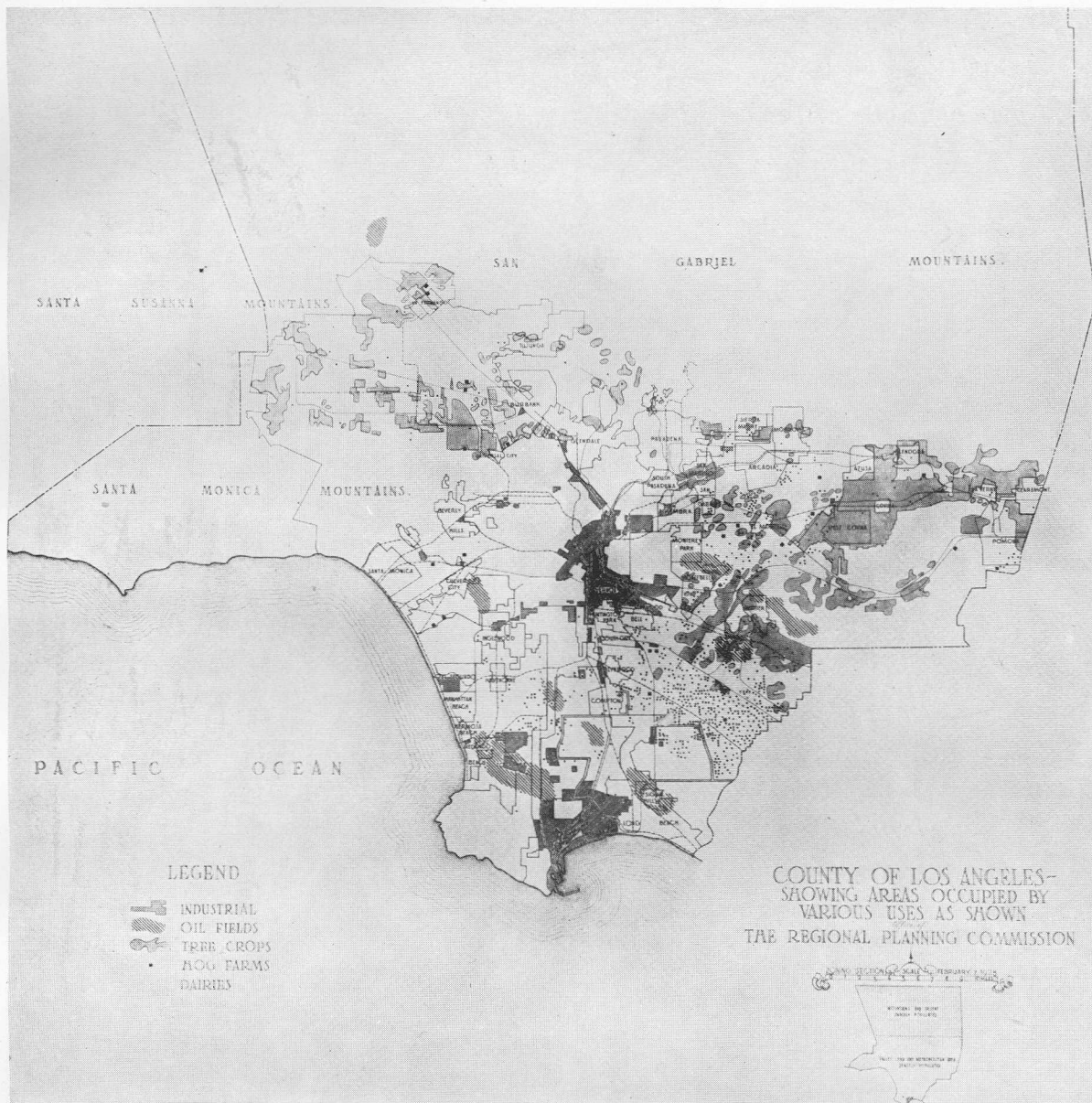


PLATE 20. Map of the Region showing areas used for industries and oil fields and areas in agriculture for tree crops, hog farms and dairies, as prepared by the Regional Planning Commission.

Within the Region enormous deposits of oil yield a large income not enjoyed by other large cities. Agriculture forms another large source of revenue.

In 1923 Los Angeles suffered a period of exploitation that perhaps retarded its commer-

cial prosperity, but the last few years have seen a steady and gratifying progress. The increase of population, unequalled by any other large city of the world, is a continuing evidence of the basic soundness and growing commercial strength of the Region.

*The Burden of Speculative Land Values.*

The magnitude of local real estate business, which has successfully withstood several periods of reaction, indicates that an enormous population throughout the country looks to this Region as a most desirable place for an ultimate residence. It has been estimated that the carrying charges on vacant lots in the Los Angeles Region must approximate \$100,000,000 per year. This is a very large sum for property not in use but held for future homes or as an investment waiting for a rise in value. Certainly the hopes of those who contemplate this as their future home and also of those who are anticipating favorable opportunities for resale would find a greater and earlier chance for realization if even a small portion of such a sum as this were devoted annually to the highly constructive purpose of creating an adequate park system.

ESTIMATED COST FOR MAINTENANCE

The public recreation facilities now available are maintained by various agencies wholly or partly devoted to such service. The local park and local and county recreation departments are established for that purpose alone; the school departments furnish a definite recreation service, and spend considerable funds in maintenance; and to a lesser degree some other departments make expenditures for maintenance that serve recreation purposes. The total expenditures for maintenance from all sources amount probably to several million dollars a year, but are involved with improvements and other factors and are not readily ascertainable.

Such maintenance costs will doubtless continue to be met and additional costs for maintenance will arise: fairly heavy costs for the maintenance of local recreation facilities in built-up sections and for completed parkways and regional parks; and relatively low costs for the maintenance of large reservations.

The maintenance of local areas can probably best be met by local agencies in extension of or readjustment of their present activities. The maintenance of regional factors should be met by a general agency established for regional park development. The costs for such regional maintenance during the first few years will be relatively low as there will then be but little to maintain. But when the total system is developed as proposed the maintenance may cost approximately as follows:

1. For large reservations and areas not intensively used .....	\$ 200,000
2. For 600 miles of park and parkway roads, planting, etc., at \$2,000 a mile....	1,200,000
3. Regional athletic fields .....	200,000
	\$1,600,000
4. General overhead, engineering, accounting, Custodian and Guardian force, etc. \$	500,000
	\$2,100,000

This total exceeds the proposed budget of five cents maximum tax on the basis of present valuation, but is not greater than such a tax will produce by the time the system has been fully developed.

*Cost of the Plan to the Average Home Owner.*

Assuming that the maximum estimated tax rate of 15c should be necessary at the present time, the average cost to the owner of a home assessed at \$10,000 would be \$15.00 a year; to a workman whose home is assessed at \$2,000, the average cost would be \$3.00 a year. To them the benefits would be far greater than this small annual cost, and to other taxpayers and investors the benefits will come both directly and indirectly, through general increase in values in the community. Certainly this represents a small increase in present cost per family in order to produce more enjoyable neighborhood living conditions, and also more pleasurable opportunities for outings on Saturdays, Sundays and holidays, amid pleasant

and agreeable surroundings—*an opportunity now fast disappearing in the Los Angeles Region.*

*Early Action Needed  
to Obtain Results.*

A complete plan and program is here proposed based on conditions existing and anticipated in the Region. Much of the value of the plan will be lost, however, if work in accordance with it is not started soon. Changes are taking place and the chances for accomplishment will be seriously interfered with by delays. Local agencies can adopt and may be ready to adopt portions of the plan, and should be encouraged to do so promptly. Other agencies interested in portions of the plan may be ready to adapt their plans to the larger scheme for general public benefit and should

be urged to do so. Any other means should be encouraged which would stimulate public interest and keep open the possibilities for the finest park development in the world, so that when a regional authority is set up it may find a start already made and many existing fine features preserved.

Local existing agencies at their best cannot accomplish all that is needed. Legislation should be obtained and a board established to acquire and preserve the best features of the Region. The plan here presented should serve as a guide and an aid toward development. The present opportunity thus to improve the Region should not be lost. The public must be informed of the economic urgency of the enterprise as a means to protect and promote the health, welfare, and contentment of the people now here and the millions yet to come.



PART TWO  
SPECIFIC RECOMMENDATIONS

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PART TWO—SPECIFIC RECOMMENDATIONS

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CHAPTER IV

RECOMMENDATIONS FOR LOCAL RECREATION FACILITIES  
PLAYGROUNDS, RECREATION PARKS, AND SPECIAL UNITS

THE chief means of serving local recreation functions are the municipal parks and playgrounds, and the school playgrounds.\* Certain other functions, notably educational ones, are often to some extent combined with the recreational; and local functions may also be combined with regional ones.

*The School Grounds.*

Public schools with their playgrounds are probably the most equitably distributed institutions we have. Their distribution has come about through a systematic, unremitting, and largely successful effort to locate the schools at points accessible from the homes of all the children; locations being determined chiefly by the distances which pupils of various ages can reasonably be expected to go daily, by the present and prospective density of population, and by the economical and efficient sizes for school units.

These are practically the identical considerations that should control the placing of local recreation centers for children of elementary school age. And the considerations controlling location of high schools and junior high schools are substantially those that might control the placing of recreation facilities for adults. This practical identity of policy strongly counsels associating school playgrounds, as

\*For general statements relating to local recreation facilities, see Chapter I.

far as practicable, with other local recreation grounds in combined neighborhood units. And it should be immaterial whether the lands are acquired and the facilities operated by the school or the recreation authorities, or by the two jointly.\*\*

There are in this Region numerous examples of school grounds that provide adequate recreation for the children, and contribute not a little to other recreation needs of the neighborhood, especially by community use of school buildings, good architecture, and pleasant landscape settings. But there are few schools having ample areas for outdoor recreation, even for children of school age; and the great majority of school grounds are decidedly inadequate. Only 73 of the 726 public schools have five or more acres available for play. (See Appendix No. I.) The remaining 652 have an average of less than two acres each.

The total area—2,057 acres—available for active recreation on all the school grounds of the Region, is a comparatively small one for a growing population of over two million people.\*\*\* A map (Plate 18) shows the distribu-

\*\*Interrelation and overlapping of school and recreation functions were discussed in Chapter I. Expediency alone should decide how much should be done by schools and how much by the park agencies; practice varies widely. This report does not attempt to discuss the apportionment of responsibility; it is enough merely to urge the importance of co-operation.

\*\*\*All other existing public and quasi-public open spaces directly or indirectly valuable for outdoor recreation are listed in Appendix No. II.

tion of all recreation areas and indicates, on the basis of assumed standards, all territory not conveniently accessible to any such area of adequate size.

*Existing Public Parks and Playgrounds.*

While under existing agencies public parks have been developed in various parts of the region and playgrounds have been established in some cases in such parks and in other cases upon independent grounds, they are, as explained in Chapter II, very inequitably dis-

tributed, being almost wholly lacking in large sections of the region while fairly complete in others. In the city of Los Angeles the Department of Playground and Recreation maintains fifty or more properties, including 160 acres in city playgrounds and recreation centers, 5 miles of beaches considered herein under the chapter on beaches, and 6 mountain camps, and, under the plans of the Department, increased facilities will be provided in other parts of the city also. These areas, together with those under the Park Department of the city, however, are still far below the needs as estimated on any reasonable stand-

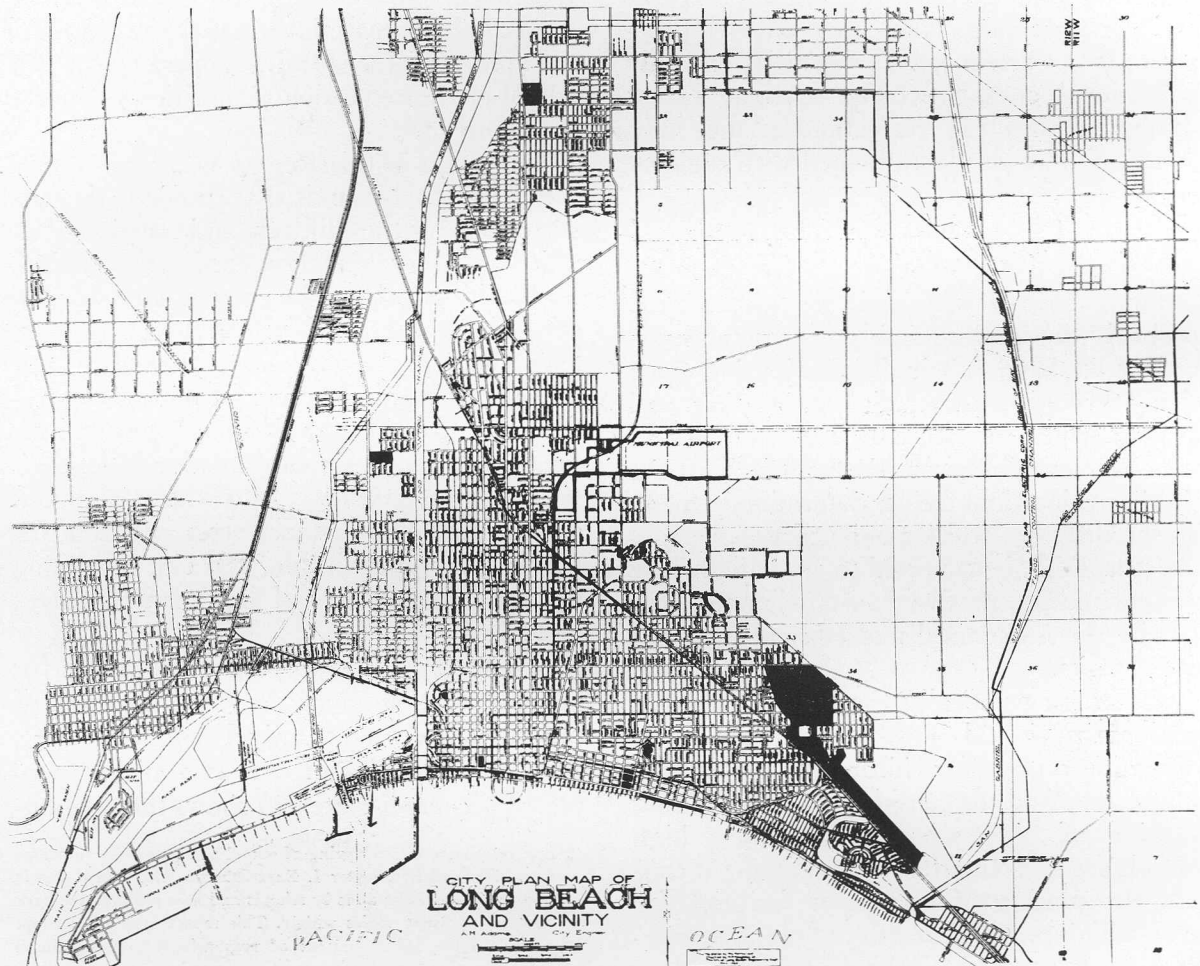


PLATE 21. Map of Long Beach showing in black the existing park areas and in outline the water lands and the airport.

# CITY OF SANTA MONICA

AUGUST 1926.

HOWARD B. CARTER, CITY ENGINEER

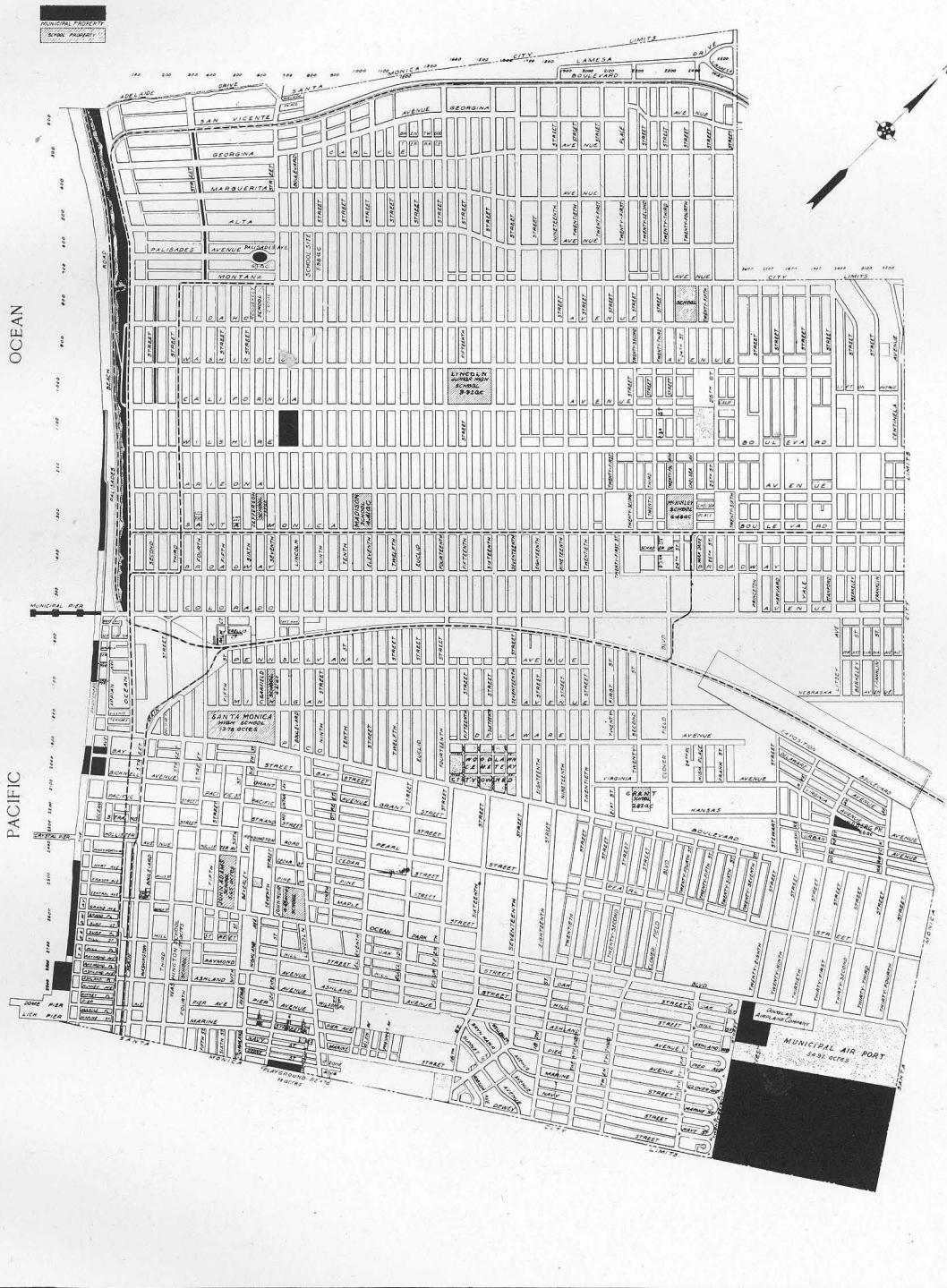


PLATE 22. Map of Santa Monica showing in black the existing park areas and cross hatched the school areas, and near the large park the airport.

ards, as are those also of many other cities of the Region.

Long Beach (Plate No. 21) has one large park, several smaller parks and has an airport and some water lands that have some recreational value, but as yet many districts in the city are not provided with local parks other than school grounds.

Santa Monica (Plate No. 22) like Long Beach, has several parks, but has many districts not yet provided with local facilities

other than school grounds.

In Pasadena (Plate No. 23) there is one large string of city parks along the west boundary in Arroyo Seco with several smaller parks scattered more fully throughout the district. And there, as in Long Beach, the Department of Parks and Recreation has planned, under cooperative management, to develop the school grounds and playground areas in a way to serve as completely as possible for the entire city. (Plate No. 24.)

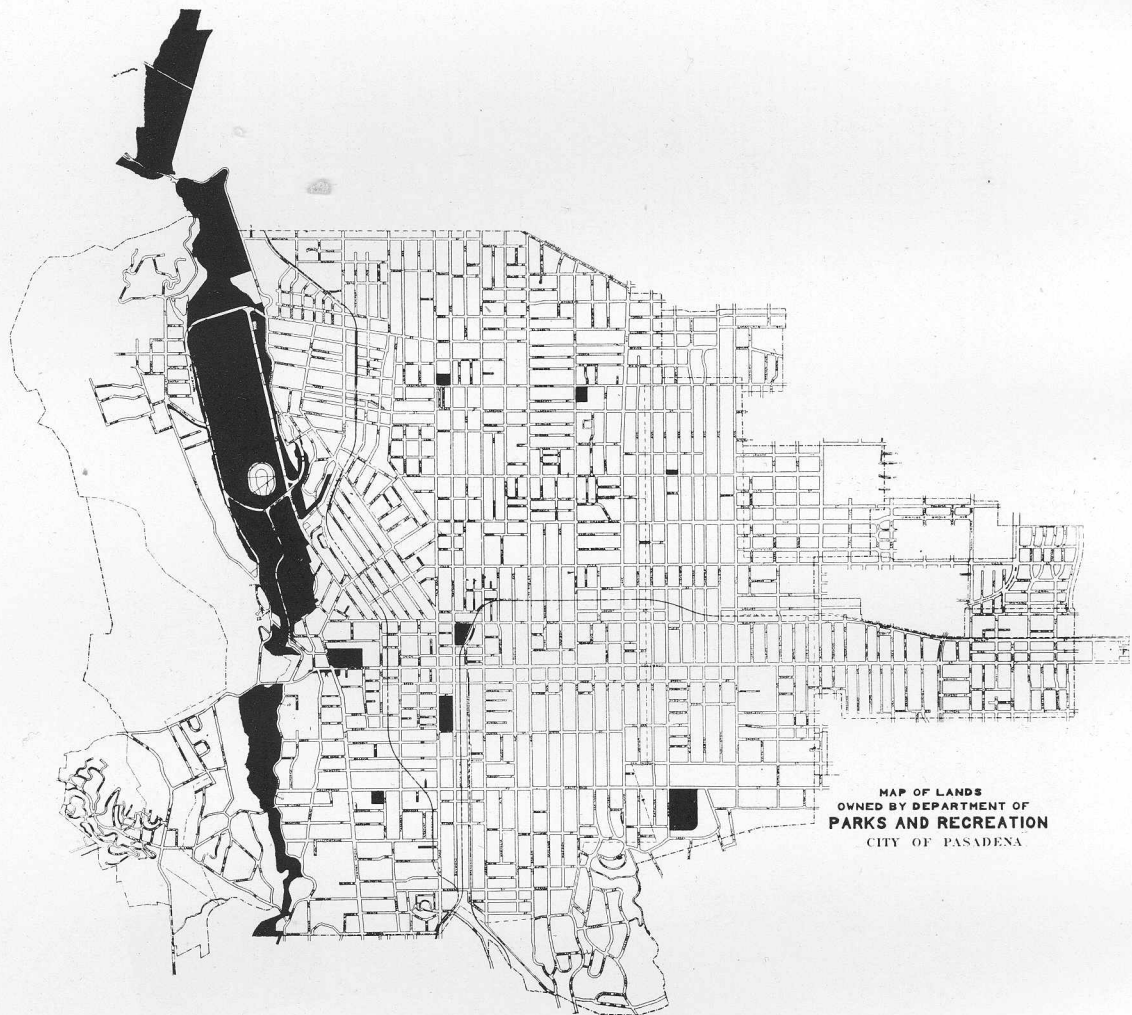


PLATE 23. Map of Pasadena showing large parks in the Arroyo Seco near the west boundary and showing smaller parks in other parts of the city.

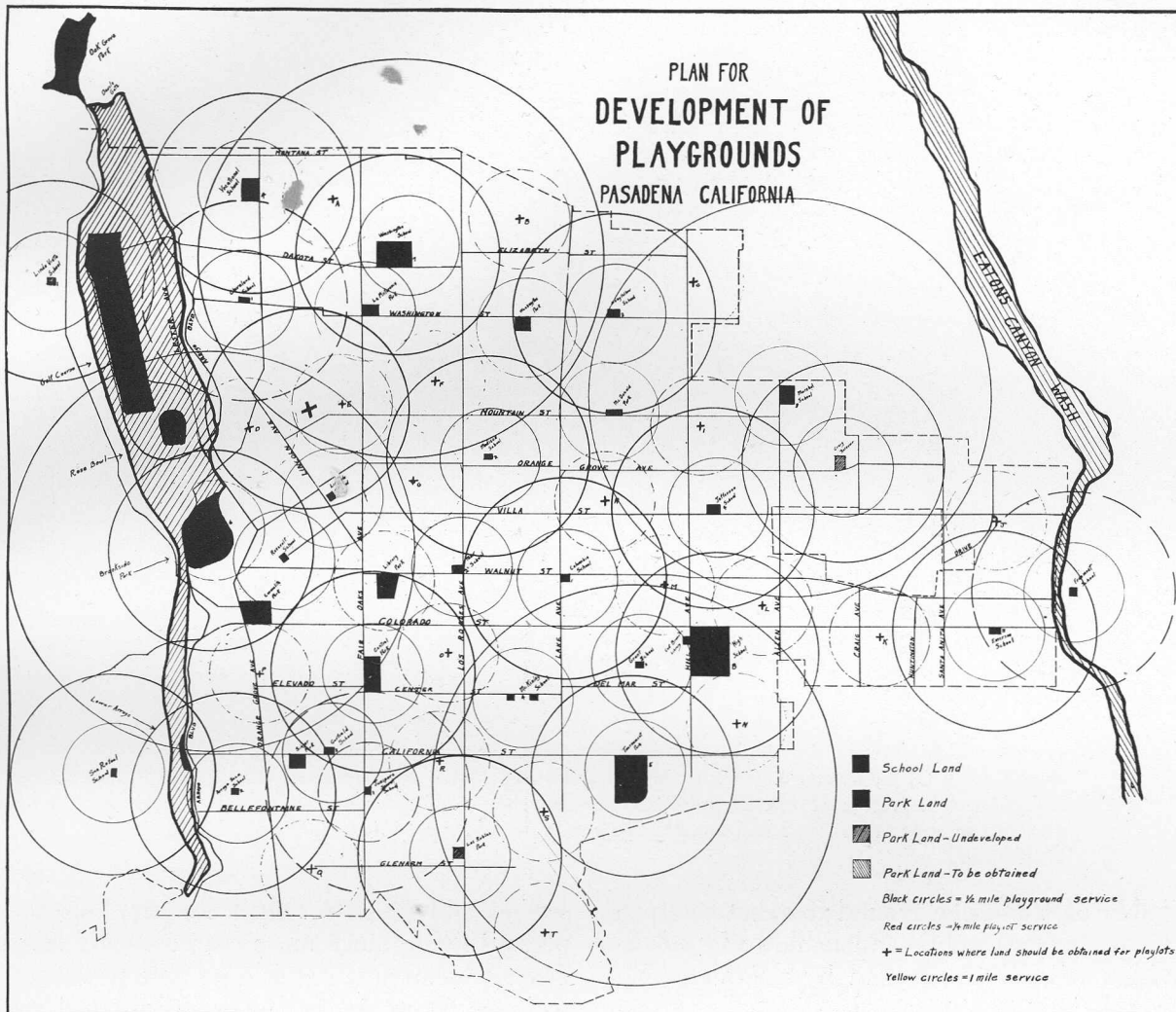


PLATE 24. Plan of the Department of Parks and Recreation of Pasadena for development of playground service.

Similar maps are available for some of the other cities and sections of the Los Angeles Region showing more or less similar conditions.

In the entire Los Angeles Region south of the mountains there are now 195 public park and playground areas, exclusive of the school grounds, of more than one acre each in extent, and having a total combined area of 9,559 acres, as listed in Appendix No. II.

Nearly all of the large existing park areas

lie in the line of the proposed regional Park and Parkway System, except Stough Park, in Burbank, 120 acres; Malaga Park, in Palos Verdes, 249 acres; the Huntington Estate, in Pasadena, 200 acres; and the proposed California Botanical Gardens (to be 800 acres), near Sawtelle, each having some regional value as well as some local park value.

In the Region there are also private golf and country club grounds, amounting to 6,288 acres, or nearly two-thirds as much as the total



PLATE 25. Map showing the Region divided for convenience into classes of use, residential districts "A, B, C, D, E, and F," mountain and hill stricts "M," and industrial districts "Y," and each district or portion of district numbered for convenience of reference as listed in school and park lists in appendices No. I and No. II. (Base map by courtesy of Automobile Club of Southern California.)

public park and playground area, but not open to the general public and liable to be subdivided when most needed by the increasing population.

The entire Region has been divided for convenience of reference into classes: Residential (A, B, C, D, E and F); mountain and hill districts (M); and industrial and commercial districts (Y); and these in turn have been divided into units as numbered on Plate 25, to which the numbers in the appendices refer.

#### PROPER SIZE AND DISTRIBUTION FOR LOCAL RECREATION UNITS

Experience has shown that people living within less than one-half mile of any park or recreation unit adapted to their local needs tend to visit it frequently, use it extensively, take personal pride in it as a neighborhood pos-

session, and get large values from it; but that persons living much more than one-half mile from such an area are seldom able to visit it and are certain to gain less from it than those living nearer by.\* It is probable, however, that the reasonable average service radius will prove somewhat greater here than in eastern cities, because of the lower population density, the more favorable climate, and the more nearly universal use of automobiles. The people of each locality will have to work out for them-

\*As to the use of local parks and playgrounds, the Los Angeles City Department of Playground and Recreation in its 1926-27 report shows an average daily attendance for the twelve months for 25 playgrounds, containing 147.6 acres. This average is 8,144 persons, ranging from 84 persons per day on the 20-acre playground at Griffith Park, to 761 persons on the 2-acre playground at South Park. The average shows 326 persons per day per acre, and 55 persons per day per acre. The extremes show from 84 to 761 persons per area per day, and 4 to 380 persons per acre per day. The extremes in the case of Griffith Park are probably due chiefly to its newness and its present remoteness from populous areas.

selves, gradually, how much they want and what they are willing to pay for. Suffice it here to indicate what seems a reasonable norm that should be approximated.

*Local Recreation Districts and Recreation Centers.*

To this end it is convenient to regard the Region as divided into residential neighborhood districts, each a square mile or more in extent, not infrequently considerably larger. Their boundaries are largely determined by natural or artificial barriers, such as hills, canyons, railway tracks, main thoroughfares, industrial districts, or business districts. They also may be determined by very marked and relatively permanent social differences, or differences in economic status. Recognition of these barriers may lead to a considerable variation in the size and shape of certain districts.

In each such district the most effective method of meeting local park and recreation needs, other than those met by the schools, is to establish a single, adequate neighborhood center, in co-operation with the schools wherever feasible. It should provide for people of all ages: sand piles and wading pools for the little tots; playground apparatus and small play areas for boys and girls; tennis courts, local ball fields, playground apparatus, and other facilities for active play; parklike areas for quiet and mental refreshment; field house and swimming facilities, also club rooms and other indoor facilities for community use. This list can be curtailed so far as the schools adequately provide for community use on school premises.

Such a center, serving many kinds of needs in a well-balanced and economical manner, is a development of comparatively recent years and is probably not familiar to many of the people in Los Angeles. In it there should be agreeable landscape features, such as are found in Westlake Park, Bixby Park in Long Beach, and Central Park in Pasadena, combined with playgrounds and athletic fields. And, further, the better school-community centers should

have some at least of the elements found variously combined in Lincoln Park, Hazard Park, and Echo Park in Los Angeles, Brookside Park in Pasadena, and Monrovia Park in Monrovia. All of these more or less suggest the desirable type.

How far it is practicable to consolidate these functions in one center for one district, and do it efficiently and economically, is a matter of local expediency. And how far it may be unavoidable to distribute the functions to separate centers because of the first cost of getting enough land in one piece, or of starts already made, is also a matter of local expediency. But in the long run it is most likely that the convenience, efficiency, and economy of administration of a large, consolidated unit will more than offset a considerable initial outlay for the purchase of land.

In a district of one square mile entirely built up with single-family houses and having an average population density of 25 per acre, there would be accommodations for approximately 16,000 people,\* and they would fall into the following age groups, according to Los Angeles ratios:

1. Children under 5 .....	1,000
2. Children of 5-12 (elementary-school age).....	1,500
3. Children of 12-15 (junior high-school age).....	600
4. Children of 15-18 (high-school age).....	600
5. Youths and active adults of 18-35.....	4,800
6. Adults of 35-65.....	6,400
7. Elderly group, of 65 and over.....	1,100

Of these the children under five can be and properly should be accommodated mainly on private grounds throughout practically all the Los Angeles Region, owing to the prevalence of single-family residences with good-sized yards. But already the multiple-dwelling problem has become insistent, since within eight miles of the central business district, from 25-30 per cent of the families live in multiple dwellings. Such dwellings are mostly

\*Many districts may be much more extensive, the size being offset for a long time by a much sparser population. Others, of the normal square-mile size, may, in the more densely populated parts of Los Angeles, have as many as 40,000 inhabitants.



without yards, but doubtless a very much smaller percentage of young children live in them than elsewhere.

Children of school age always have some play space on school grounds. Nevertheless, school grounds are generally so inadequate that even if considerably enlarged they will still remain inadequate. Therefore, the most efficient and economical way to meet adequately the needs of these children would be to concentrate most of the possible additional space in one unit for the entire neighborhood, whether that includes one school or many.

Unless neighborhood centers are provided for them, the people above school age—12,300 in all, or three-fourths of the entire district population—will have outdoor recreation only in private yards and in the streets, with possibly a partial use of school grounds.

#### *Standards for Recreation Centers.*

In considering the desirable acreage, and also the least that is at all adequate, three distinct kinds of area should be included:

1. Intensively used areas for organized or supervised play, such as outdoor gymnasia, minor local ball fields, tennis courts, swimming pools, and the like. These are normally from 5 to 10 acres in each unit.
2. Open meadows and playfields for general exercise and free undirected play, normally from 5 to 10 acres.
3. Park-like areas for quiet, rest, and mental relaxation, for picnic groves, and music courts. They should include planted borders and areas, in order to give to the open fields and playgrounds a satisfactory enclosure and setting. Normally they should contain not less than 10 to 15 acres for each unit.

These three kinds of areas, together, would therefore require a total of 20 to 35 acres, or from 3 to 5 per cent of a square-mile district, in order to form a neighborhood park and recreation center reasonably complete.

#### *The Problem of Acquiring the Necessary Lands.*

In districts where considerable land remains unimproved it is possible that park sites can be acquired at prices admitting the purchase of areas of this standard size, or even larger. And larger areas may be desirable, especially where the topography is irregular, and where regional interest can also be served.

Where land values are very high, or existing improvements must be destroyed to make space for a park, it may be impossible to justify the acquisition of as much as twenty acres. It is also probable that no area of that size could be found free of improvements of excessively high cost. Therefore, in such districts it may be necessary to consider a smaller total area, or even to use two or more separate units.

But no single area of less than 10 or 12 acres can be expected to approach adequate service to a square mile or more of residential district, even if developed to the highest possible efficiency. Furthermore, the district where the temptation to buy small parcels is strongest is nearly always the very place where it should be most strongly resisted, because such a district is usually a densely populated one, or becoming so, and the need for recreation space is correspondingly greater than elsewhere. Therefore, any wholesome departure from standard should be toward larger rather than smaller units.

On the other hand, in districts having a population density of less than 10 per acre, there is today relatively small need for or justification for fully improved neighborhood park and recreation grounds. But in such districts the opportunity in some cases now exists to obtain land at a cost far below the prices that will obtain after the community has been more fully built up. And it is possible also in those districts that needed park lands may be acquired now through dedication or gifts, at little or no cost to the community.

*The Example of Palos Verdes.*

Such standards have already been applied within this Region in connection with the establishment of combined school and neighborhood park sites in Palos Verdes, where in the process of subdivision of a large tract, sites averaging a mile apart were set aside, each with a space for a local playground and community park. The total area of each unit is in some cases less than the minimum above proposed because of the existence of other large parks nearby, but is larger than that required for schools alone. There the total number of pupils predicted on a basis of the total number of families possible in each district under the zoning regulations was available. These areas were as follows:

1. High school and local park and playground containing 46 acres in two terraces of 18 and 15 acres, and the balance in steep slopes to be planted as park land. School to serve 1,200 pupils.

2. Junior High School and local park and playground combined with one elementary school, containing 28 acres all nearly level land. Junior High to serve 1,700, elementary school to serve 800 pupils.

3. Six other elementary school and local park and playground areas, ranging in size from 6 to 11 acres each, that will be required to serve less than 1,500 pupils each.

*Types of Districts in Which to Acquire Land Promptly.*

Speculative value in land is an unusually serious problem in the Los Angeles Region, especially within subdivided areas, where market land values are generally higher than in other large cities. Future increases of rental value are here more highly capitalized than in other metropolitan regions. On the other hand, the value of improvements is lower, and the improvements are subject to more rapid depreciation. Consequently, in areas already

subdivided, there is less to be lost financially through postponing the purchase of recreation grounds until the need for them is urgent and insistent, because the increment in land cost, less depreciation of improvements, is not likely to outrun the accumulation of compound interest on an earlier purchase.

Summing up this phase of the subject: the three types of districts in which it is most urgent to acquire land promptly for local units of recreation are:

*Outlying unsubdivided areas where a sharp speculative rise in price has not yet taken place;*

*Older districts in which, after a dormant period of one type of occupancy, rebuilding for a denser population is reasonably to be expected; and*

*Well-established districts in which the present urgent need clearly justifies the present cost of securing the land.*

In all three instances, again, the relation to the school situation and the possibility of correlative action should be considered.

In this connection a few places in the Los Angeles Region have been noted where the effective service of present playground and school facilities could be increased very materially by eliminating obstacles between nearly adjacent areas. For example, between the Manchester Playground and the Manchester School, where an alley and one row of buildings separate the two. Again, at the Euclid Avenue School, where Argonne Street might well be vacated to increase materially the usefulness of school grounds and buildings, which are now on both sides of the street. At Hazard Park a playground, two schools, two park areas, and some local streets could all be combined, extended, and redesigned to become a more complete unit and still serve all purposes. And at Roxbury Playground in Beverly Hills adjacent vacant land in the city of Los Angeles should be added to make a more complete neighborhood center.

### SMALL DETACHED LOCAL PARKS

In many districts of the city there are now, beside the school grounds and neighborhood parks, various other park-like areas that have great value, such as small squares, triangles and circles at street intersections, small monument sites, and odd bits of public property and grounds around public buildings, no one of which will go far in itself toward meeting the recreation needs, but each of which has some recreational value as well as great potential value in adding to civic pride and the contentment and happiness of people. Some of these incidental areas may afford space that can be satisfactorily used for play facilities of limited character, such as sand piles, wading pools and park benches, provided those uses do not conflict with any higher value such areas may have for ornamental uses. Terrace Park, St. James Park, Pershing Square, and the Plaza in Los Angeles, Memorial Park in Pasadena, and Drake Park and Santa Cruz Park in Long Beach are areas of this sort.

Such small detached parcels of local park land of course add substantially to the general attractiveness of a neighborhood if well kept up, and their free dedication is far easier to secure in connection with subdivision than that of larger areas. Within rather close limitations the creation of such small local public park areas should be encouraged; but an analysis of costs of park maintenance, especially in Washington, D. C., where such parklets are exceptionally numerous, shows that the public burden of the annual cost of maintenance is excessively high per acre and that even if freely given to the public they are an expensive luxury, to be indulged in only with discretion.

There is one sort of district in which the maintenance cost of small decorative open spaces is practically negligible because of the number of people who benefit from them, provided they are so placed and improved as to give real benefit and to avoid interference with the prime functions of the district. This

is an intensively used central district, where a space such as Pershing Square or City Hall Park is enjoyed by immense numbers of people daily. One such space that has been suggested and that might well be acquired, is the block between 12th and Pico and between Hill and Broadway.

Among other units of park-like character of public interest may well be included landmarks of historical interest, such as the old adobe houses of Southern California, some of which should be preserved as public monuments.

### LOCAL PARKS FOR INDUSTRIAL DISTRICTS

Industrial districts need spaces also for active recreation, some of which are already provided by larger industries on their own grounds. Just how and where additional areas can best be located is now difficult to determine, because of the rapid spread of the industrial districts and the lack of any definite knowledge as to what are going to be the requirements of the industries that may come to occupy the land. Even so, a few areas should be acquired as opportunity offers in the industrial sections.

### A STUDY OF FOUR TYPICAL NEIGHBORHOODS

Four typical neighborhoods of approximately one square mile each in extent, in different parts of the Region, now lacking local recreation facilities, except on school grounds, have been studied in detail to determine the local needs and conditions and present possibilities. The neighborhoods chosen are of widely different character. One is in a small community fairly remote from the main city, one in a region closely built up with inexpensive houses, one in a partly built up section of more expensive character, and the fourth in a more densely populated section where improvements are of relatively high cost. The results of these studies are as follows:

TABLE SHOWING RESULTS OF STUDY OF FOUR TYPICAL RECREATION DISTRICTS

	A	B	C	D
Area of district in acres.....	936	762	592	640
Population in 1922.....	2,240	-----	4,050	-----
Population in 1928.....	3,340	9,950	8,298	20,000
Annual rate of growth.....	8%	-----	17%	-----
Density of population per acre in 1928.....	3½	13	14	31
Total assessed valuation, 1928.....	\$2,104,030	\$2,305,242	\$5,592,430	\$27,390,049
Area of existing school lands in district.....	26.65	11.96	19.47	2.10
Area of same available for recreation.....	8.48*	9.10	16.11†	1.00
Area to be acquired in acres.....	21.6	18.6	3.81	14.5
Assessed valuation of same.....	\$23,500	\$36,089	\$47,800	\$283,320
Estimated cost of same.....	\$58,750	\$90,223	\$119,500	\$608,300
Cost for preliminary development.....	\$21,250	\$30,000	\$10,500	\$141,700
40-year bond issue required.....	\$80,000	\$120,000	\$130,000	\$750,000
Total bonds per capita on present population.....	\$23.95	\$12.06	\$15.67	\$37.50
Annual bond retirement 2½%.....	\$2,000 to 0	\$3,000 to 0	\$3,250 to 0	\$18,750 to 0
5% interest on bonds outstanding.....	\$4,000 to 0	\$6,000 to 0	\$6,500 to 0	\$37,500 to 0
Maintenance and further development.....	\$1,000 to \$4,000	\$1,500 to \$6,000	\$750 to \$2,000	\$3,750 to \$20,000
TOTAL ANNUAL COST.....	\$7,000 to \$4,000	\$10,500 to \$6,000	\$10,500 to \$2,000	\$60,000 to \$20,000
Assessed value of remaining land.....	\$2,080,530	\$2,269,153	\$5,544,630	\$27,106,729
Assessed value in 40 years assumed double.....	\$4,161,060	\$4,538,306	\$11,089,260	\$54,213,458
Tax rate per year required.....	34c to 10c	46c to 13c	19c to 2c	22c to 4c
Annual cost per capita on present population.....	\$2.10	\$1.06	\$1.27	\$3.00

\*Including High School. †Including small park area.

ESTIMATE OF TOTAL COSTS BASED ON THE FOREGOING STUDY

These figures show that fair space for park and recreation purposes in the four chosen districts would cost, if handled entirely as a local district improvement, from \$80,000 to \$750,000 each, would involve annual costs at the outset of from \$7,000 to \$60,000, would involve a local tax increase at the outset of from 19c to 46c and, at the end of 40 years, when bonds have been paid off, of from 2c to 13c. They would involve a cost per capita to the present population of from \$1.06 to \$3.00. At such rates, any family in the district could have access to a local park and playground at all times at an annual cost (even during the period of highest charges) of little more than the cost of taking the family out to the beach or mountains for one holiday trip.

A similar study of other neighborhoods

throughout the Region would presumably show a similar range of conditions to prevail. While the cost for each district may appear from these figures to be higher than can be justified as a totally local charge, the fact should be recognized that various other districts now have local facilities that may have been provided for in whole or in part from general taxes; therefore, some aid from general taxation or from a general Metropolitan Park District can fairly be given to each such districts as may be ready to undertake such improvements.

The estimates for the four local parks and playgrounds show total bonds per capita required of from \$12.06 to \$37.50 and an average of \$26.00 per capita. It seems fair to assume that these represent average conditions for three-quarters of the population of the Region. Since the total population of this Region living within urban and suburban areas

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approaches 2,000,000, this means that the total cost of providing additional complete *local* park and playground facilities for the 1,500,000 people in the entire occupied area of the Los Angeles Region would be about \$39,000,000.

This total estimate is made up of two items that can be divided approximately as follows:

(1) Acquisition .....	\$31,200,000
(2) Development .....	7,800,000
Total .....	\$39,000,000

The above figures are based on per capita estimates. On the other hand, on an area basis, the four units estimated involve a cost of practically one million dollars or at the rate of one-quarter million each, and if there are 160 districts that should now be so treated, the cost would amount to \$40,000,000 or about the same figure. A part of this cost, if not all of it, can be borne by local districts or local municipal or other administrative units unless by mutual agreement the entire problem is to be handled as a regional one.

## CHAPTER V

### RECOMMENDATIONS FOR PUBLIC BEACHES

THE most active demand for more parks today in the entire Los Angeles Region, especially during the summer months, is for more and better beach and waterside facilities. The public now owns and controls for recreation along the ocean front above mean high tide line a number of strips varying in width from a few feet to a hundred feet or more, and in length amounting to 14 miles. The public owns also *all* the land below mean high-tide line and the land under water, but most of this land cannot be used except at low tide without trespassing on private land. (See Appendix No. V.)

With many miles of the finest ocean front in the world, where the climate is ideal—cool but never too cold for enjoyment—the public now finds about nine-tenths of the entire frontage destined to be screened from view from the nearest highways by private developments. The remaining tenth is divided into short disconnected stretches.

About six miles is taken up by the harbor district, which of course can be used for pleasure only temporarily and where not yet needed for commerce. Much of the frontage at Long Beach, Redondo, Venice, and Santa Monica is public, but other portions are occupied by costly improvements and are highly developed out to the water's edge or beyond in a way to preclude extensive public acquisitions in those stretches except at enormous cost. The 17 miles of coast between the harbor district and Redondo Beach is marked by high cliffs, generally with rocky foreshores subject to almost complete submergence at high tides, and has no

wide beaches suitable and safe for use by large bodies of people, although it has a notable scenic drive along the top of the cliffs.

West of Santa Monica the 27 miles of coast has, alternating with the sand beaches, intermittent rocky and bouldery stretches, about 8 miles of such stretches and about 19 miles of fine sandy beaches. While those beaches are public property below ordinary high tide, they



PLATE 26. Coast highway near Topanga Canyon showing line of cottages cutting off all view of the ocean from the highway. (Photo by Stagg.)



PLATE 27. The Harbor from Long Beach showing Long Beach in the foreground, the harbor district in the center, and the San Pedro hills in the distance. (Photo by Spence.)



PLATE 28. Rugged shores and high cliffs of Palos Verdes, attractive to pleasure travel, but not adapted to beach uses. (Photo by Padilla.)

are privately owned above high tide for *practically their entire length.*

For the year 1927 the total number of users of certain beaches was estimated by the Department of Playground and Recreation of the City of Los Angeles, to be as follows:

COUNT OF PERSONS AT BEACHES DURING 1927			
	<i>Spectators</i>	<i>Bathers</i>	<i>Total</i>
Sta. Monica Canyon	828,451	219,892	1,048,343
Venice .....	11,505,062	1,917,338	13,422,400
Playa Del Rey .....	314,811	108,682	423,493
Terminal Island .....	215,812	89,850	305,662
Cabrillo .....	744,411	104,078	848,489
	13,608,547	2,439,840	16,048,387

In order to determine the actual usage of beaches during one busy day, counts were made in 1928 for the Citizens Committee by the De-

partment of Playground and Recreation of Los Angeles, the results of which are shown in the following table:

COUNT OF PERSONS AT BEACHES ON JULY 4, 1928

	Width in Feet	Length in Miles	11 A. M.		3 P. M.	
			Spectators	Bathers	Spectators	Bathers
West County line to Las Flores Canyon	550	19	5,426	1,588	13,456	4,917
Las Flores Canyon to Topanga Canyon	50	3	1,671	620	3,826	1,820
Topanga Canyon to Castle Rock	50	1	1,250	281	3,105	1,230
Castle Rock to Lighthouse Cafe	50	2½	2,505	687	6,525	1,867
Lighthouse Cafe to Santa Monica	150	½	1,246	832	7,825	1,808
City of Santa Monica	50	3	10,694	3,235	36,975	10,695
Ocean Park Pier to Venice Pier	200	1	2,460	4,662	9,872	11,119
Venice Pier to Del Rey	100	2½	2,743	2,564	3,127	2,547
Del Rey to Picnic Grounds	25	½	150	100	475	283
Picnic Grounds to Hyperion Pier	50	2	250	115	725	275
Hyperion Pier to El Segundo Pier	100	1	101	45	225	54
El Segundo Pier to Manhattan Pier	200	2	639	207	1,356	300
Manhattan and Hermosa Beaches	100	2½	15,303 <i>Estimated</i>	9,280	23,657 <i>Estimated</i>	20,137
Cities of Redondo and Torrance	75	3	12,000	5,000	20,000	6,000
Torrance-Palos Verdes Estates	5	11	715	70	1,345	70
San Pedro City	100	2	4,160	1,920	11,640	4,600
Terminal Island, Los Angeles	200	4	2,050	600	2,250	100
Terminal Island, Long Beach	200	1½	1,800	1,400	2,800	2,300
Long Beach City	100	9	8,189	2,444	18,959	5,629
		71	73,352	35,650	168,147	75,751
			109,002		243,898	
		<i>Spectators</i>		<i>Bathers</i>		<i>Total</i>
Total counted		241,499		111,401		352,900
Assumed total for day		515,748		156,915		672,663

These tables both show that the number of spectators using the beaches was several times as great as the number of bathers, and indicate the consequent need for a large amount of up-land area.

From these figures it appears that there were at one time 47,670 people on the beach at Santa Monica, estimated by the observer to be 3 miles long and to average 50 feet wide, or 750,000 square feet of space with an average of *only 15 square feet* of space per person at one time. Beach "widths" are variable and uncertain things to estimate, and the area which these 47,640 occupied may have been considerably larger or smaller than estimated.

*Comparison with Beaches of Other Regions.*

Even with a large allowance for possible error in the Los Angeles figures, it is significant to compare these figures with those at Coney Island, New York, the world's most heavily used beach, where airplane photographs showed an average of *56 square feet* of beach above water-line per person under conditions reported to be unduly crowded, and at Atlantic City, where photographs showed great crowds with an average of *78 square feet* per person, also reported as too crowded for comfort. In New York, where beach is at a high





PLATE 29. Public beach at Venice on July 4th, showing use to capacity, too crowded for comfort.  
(Photo by Stagg.)

premium, it is estimated that a beach having a width of 150 feet with 9 times as much additional upland space can accommodate comfortably about 50,000 people per mile at one time, but in no portion of Los Angeles frontage is such a width of upland now open to public use, or likely to be so.

There were at 3:00 P. M. on July 4th, 1928, 243,898 people along the Los Angeles beaches, and at points they were much crowded. Furthermore, many people of Los Angeles who know that beaches are so crowded either stay away or go elsewhere at a heavy personal expense, when they would prefer to enjoy their own water front, and would flock to the beaches if more public beaches existed.

From conditions actually observed it is fair to assume that all the usable beach frontage here that can be made available for the public

may now be taxed occasionally to capacity if not actually to overcrowding. The demand for public use of beaches will inevitably exceed the supply. Considerable adjoining areas in addition to the beach itself must be available if a beach is to accommodate large crowds. Such adjacent areas may accommodate more people than the beaches themselves, and space is required for parking of automobiles even greater than the space required on the beach for the people who come in them.

#### *Use of Beach Lands.*

There are now other demands for riparian lands along the beaches where private ownership extends down to ordinary high tide, and these have raised to very high levels the market price of such land.

One is for residences close to the beach, in



PLATE 30. Public beach at Atlantic City, New Jersey, showing wide boardwalk and wide, sandy beach beyond.

itself a socially desirable and highly beneficial use, but a use that tends to become less attractive in proportion as great crowds use the neighboring public portions of the beach. Where the public now uses such beaches in spite of some inconvenience, crowds will spread on to the lower parts of the private property above the high tide line, and the value of such land for residential lots may decline.

A second demand is for business lots because of transient crowds that are attracted to the beaches, and for hotel and club house sites. Business may range from services which are of the utmost importance and desirability to the most injurious parasitism. The value of such lots will depend on the amount of profit that can be made from them.

The average beach-goer because of his holiday spirit, is an "easy mark." Helping him at a fair price to derive the maximum benefit from a visit to the beach is fair business. Exploiting him is not and should be prevented. In case after case where large crowds have

once begun to go to a beach for pleasures obtainable only there, commercial exploitation has gradually put the beach or a large part of it wholly out of existence, as by decking it over completely, and has corralled the crowd into indoor commercialized enterprises which might just as well have been elsewhere and which are on the whole distinctly deleterious in character. Those are extreme cases, but tendencies toward such a result accompany commercialization of the opportunity for exploiting beach crowds, just as the tendency exists for crowds of transient visitors to blight the use of beach-front property for residence.

To get the greatest value from the shore lands, the frontage should be segregated to serve either private or public purposes, and should be protected accordingly. Such segregation should recognize the fitness of the lands for each purpose and the proportionate importance of each.

To some extent, such protection would follow use of the police power in one or more of

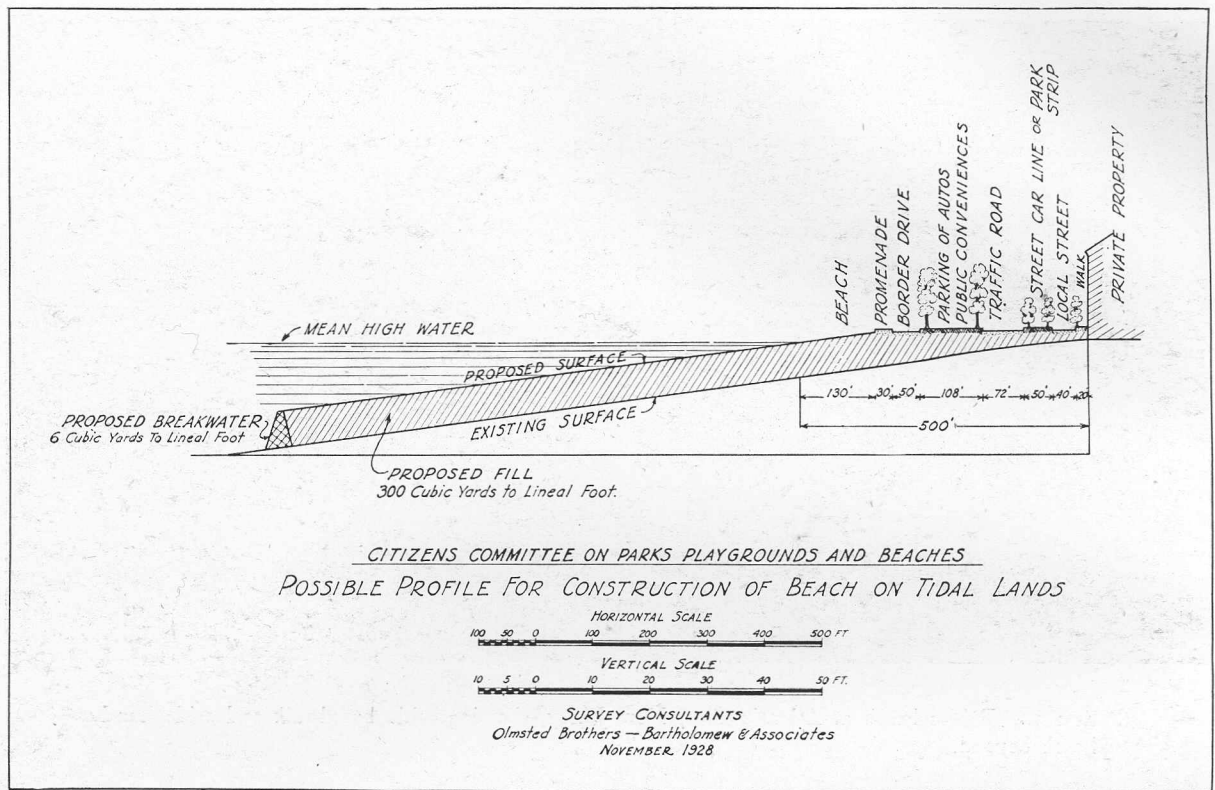


PLATE 31. Possible profile for construction of beach on tidelands.

its many forms, such as zoning of a highly specialized sort applied to properties peculiarly related to beaches. But the technique of this has not yet been developed and tested by experience. The main reliance wherever this problem has become serious has been public ownership and proprietary control of sufficient land to guard against the worst evils. Even such ownership alone may avail but little unless the control is entrusted to an agency specially and exclusively charged with the duty of protecting the recreational interests of the public, and having a job of sufficient size and importance to win and hold the interest of really first rate men.

#### SHORES ADAPTED TO PUBLIC USES

Before proceeding to the detailed enumeration of coast land to be acquired for regional

public recreation, it seems desirable to outline two large problems affecting a long stretch of coast; the first from Santa Monica Canyon westward where conditions have not yet crystallized but soon will; the second from Santa Monica Canyon south to Playa Del Rey, where they have very rigidly crystallized in a manner which is in some respects highly unsatisfactory.

#### West from Santa Monica.

West of Santa Monica the public highway paralleling the shore for many miles is now a busy one and is destined to carry a vastly greater volume of traffic because it is the most direct, most level, and most agreeable route to Ventura and other coastal districts beyond. The time will soon come, as is now clearly recognized by the State Division of Highways, when

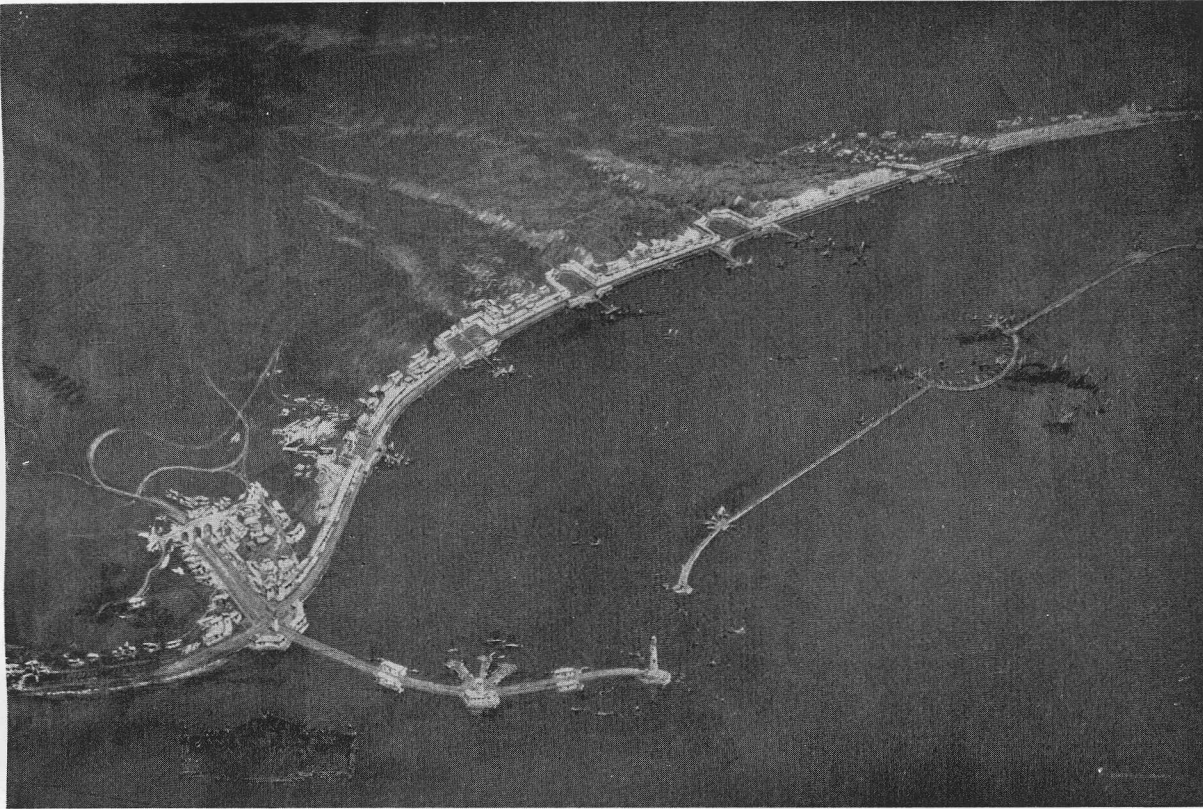


PLATE 32. Yacht harbor suggestion as presented by owners of property just above Santa Monica.

traffic will imperatively demand a much wider right of way than the present 80 feet. For about three miles the highway is built on a narrow strip between very high bluffs and a very narrow belt of privately-owned ocean-front property, where some buildings have already been erected. A continuous barrier of such buildings is likely soon to develop, cutting off from the road views of the sea and public access to the beaches. Farther west, the hills recede and the highway passes through wider areas, part of the way near the shore, where there is a narrow strip of private property outside the highway as in the preceding sections, and part of the way farther back from the shore and on higher levels with large blocks of private property outside the road.

A very fine stretch of beach adjoins the high-

way for nearly three miles just above Point Dume, and back of it lies a very fine seaside mesa.

All the way from Santa Monica to the county line the road must serve not only as a major state highway for all kinds of traffic, but also as a pleasure route of the utmost importance to the Region. It should have a right of way not merely wide enough to carry its destined traffic without serious congestion, but also wide enough to make travel upon it thoroughly agreeable, especially in the first stretch, where everyone driving westward first comes to the ocean and where the visual impression is of great importance. To get a glimpse of the sea and then file into a choked road behind a row of buildings is a calamity. With the opening of the State Highway and the invitation to

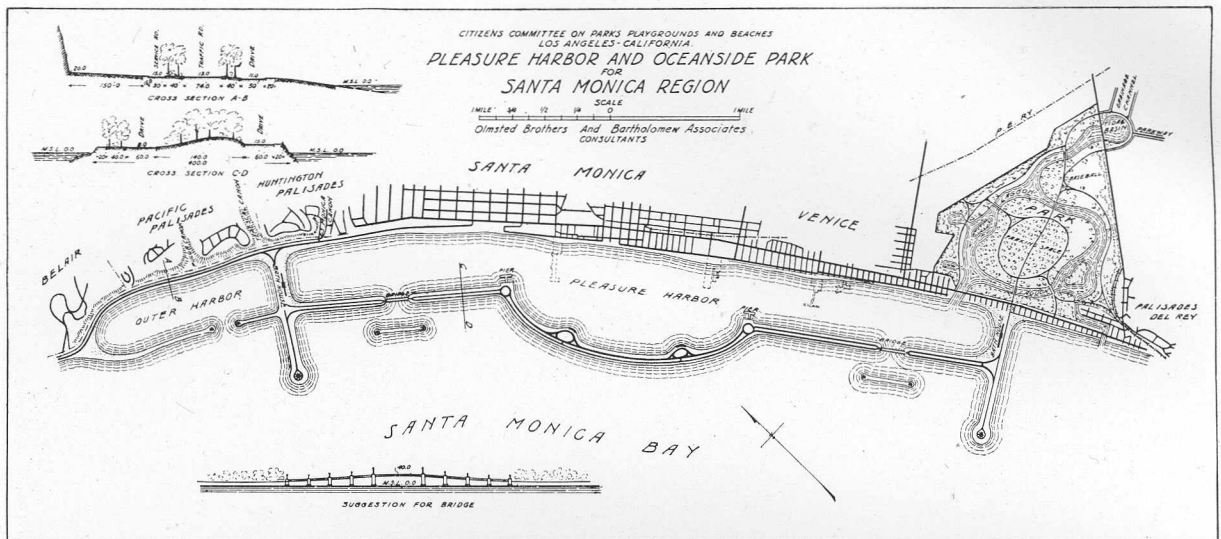


PLATE 33. Plan for an extensive Pleasure Harbor opposite Santa Monica and Venice, with a park in the Del Rey marshes and a parkway on a chain of islands around the outside of the harbor.

crowds to enjoy this coast, a new impetus has been given to the development of privately-owned lands between the highway and the sea. The beach here is generally good, and capable of being widened by groins, as experiments have shown. Already very high land values have been established in places along the shore; but land that is clearly most needed by the public should be acquired before further improvements and further subdivision of those areas make the difficulty of such acquisition still greater.

If the situation is not dealt with adequately now, if a narrow but heavily traveled and congested highway becomes walled in by rows of buildings, if only small openings here and there connect the highway with the beaches and if the crowds push in helter-skelter wherever they can get to the beaches below high tide, conditions will become so bad that reaction will set in and the recently boomed value of the shore lands will fall. Eventually such intolerable conditions will be relieved wholly or in part either by condemnation of the land and improvements, or perhaps by widening and extending the beach itself outside private

holdings and building a new road on the margin of the beach as thus advanced.

But unless immediate action is taken things will be in a mess for years and may never become just right. Any district that once goes wrong is very hard to rehabilitate.

#### *South from Santa Monica.*

South from Santa Monica Canyon to Playa Del Rey practically continuous buildings several blocks in depth separate the beach from the nearest practicable roadway along the coast. In certain places structures on private land extend to the line of mean high tide; in others structures on tidelands leased from the cities cover the beaches and extend on piles far out over the water. The public is now so much aroused, however, that further private encroachments on the tidelands are unlikely, and conditions still rather readily permit broadening the beach to seaward, where buildings on private land have curtailed the use of its upper edge.

In this entire region, three-quarters of a mile off shore, the water is only about 30 feet deep and projects have long been discussed for a

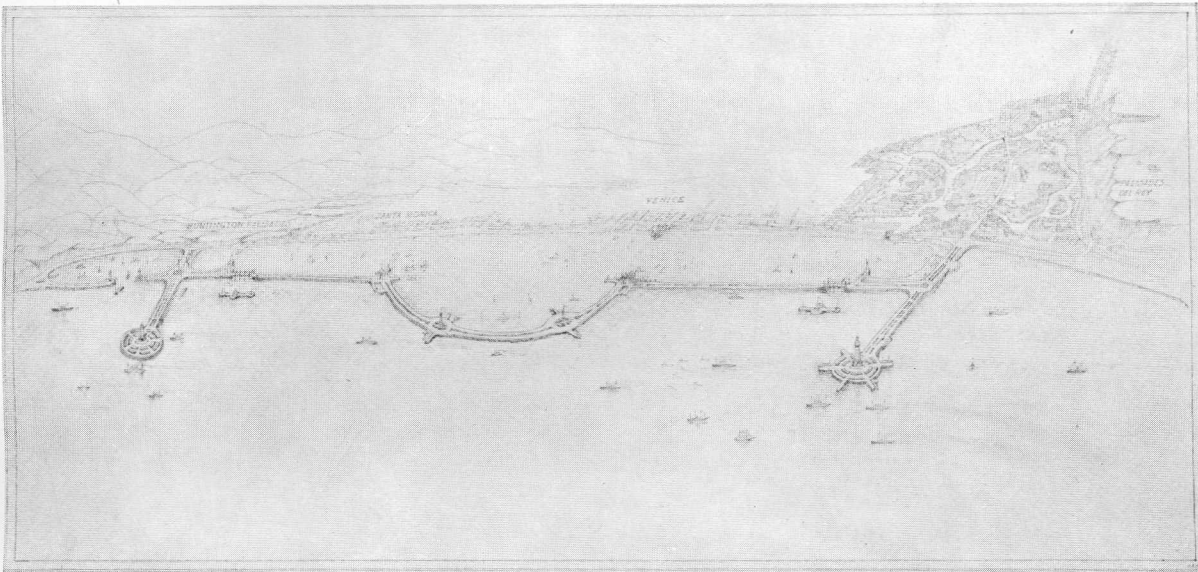


PLATE 34. Sketch for extensive Pleasure Harbor and park and parkway development as shown on Plate 33.

harbor primarily or exclusively for pleasure craft, to be formed by breakwaters about that distance off shore, starting considerably to the west of Santa Monica Canyon.

An off-shore breakwater can be built here so as to add great recreational value, whenever people want it enough to pay for it; and the cost will not increase with delay. It seems not unreasonable to look forward to the time when the Los Angeles Region will follow the example set by Chicago in its great park development out into Lake Michigan, and not merely build a jetty so as to form a harbor open to masted vessels at the head of Santa Monica Bay, but also a long breakwater or chain of narrow islands connected by bridges and carrying a park drive, from the State Highway at Santa Monica Canyon to Playa Del Rey. The sheltered water between there and the beach will be of great value for motor boats and small boating, and the beach bathing will be improved for most people, while a park drive along the chain of narrow islands, absolutely away from buildings and concessions, will be

used and enjoyed by hundreds of automobilists to every user of boats.

SUMMARY OF SHORE FRONT RECOMMENDATIONS  
(The classes lettered A to E are referred to in the last column of the next table.)

	<i>Lands Along Shore Front Length in Miles</i>	<i>Land Back of Highway Area in Acres</i>
A. Now public (for recreation) .....	14	64
B. Now quasi-public (for recreation) .....	6	188
C. Proposed to be acquired for public recreation, in county, extending into Orange County .....	32	206*
D. Specifically assigned to use for other purposes (including harbor) .....	9	---
E. Other lands not included in recommended acquisitions .....	19	650
TOTAL.....	80	1,108

\*In addition to the five other large reservations estimated and included in proposed park system.

UNITS OF THE ENTIRE SHORE FRONT

Classified as A, B, C, D, E, with numbers referring to locations on Plate 35 and to Descriptions following this List

Following the coast from Ventura County eastward into Orange County, the various units have been numbered for convenience of reference.

Refer- ence No.	Name	Approx. length in feet	Approx. width in feet	Back land area in acres	Classi- fica- tion	Refer- ence No.	Name	Approx. length in feet	Approx. width in feet	Back land area in acres	Classi- fica- tion
1.	Sequit Beach	4000	200-300	---	C	29.	Huntington Palisades Beach	1800	10-200	---	E
2.	Arroyo Sequit Park	-----	-----	150	C	30.	Santa Monica Canyon Beach	1110	200-300	---	A
3.	Nicolas and Encinal Beaches and Bluffs	21000	500-600	---	E	31.	Santa Monica Canyon Park	-----	-----	9	C
4.	Zuma Beach	15000	150-250	---	C	32.	Santa Monica Palisades Park	-----	-----	46	A
5.	Dume Park	-----	See Chapter VIII	---	C	33.	Beach Clubs in Los Angeles City	200	-----	---	D
6.	Ramirez Canyon Reservation	-----	See Chapter VIII	---	B	34.	Beach Clubs in Santa Monica City	900	-----	---	D
7.	Dume Point Shore	13000	Narrow	---	D	35.	Georgina Avenue to California Avenue (few small public ways)	3900	10-150	---	E
8.	Ramirez Beach and Bluffs	6000	200-1000	---	E	36.	California Avenue to Arizona Avenue	1350	10-60	---	A
9.	Escondido Beach	5400	10-150	---	C	37.	Arizona Avenue to Broadway	1160	60-125	---	A
10.	Escondido Canyon Mouth	-----	-----	35	C	38.	Broadway to Santa Monica Pier	950	100-300	---	D
11.	Corral Beach	16500	10-150	---	C	39.	Santa Monica Pier and beaches to Lick Pier at Santa Monica City line. Various parcels now public	3700	90-300	---	A
12.	Malibu Beach and Plain	4500	200-1200	---	E	40.	Same—parcels not public	3000	90-150	---	E
13.	Possible Malibu Park	-----	-----	650	E	41.	Lick Pier to Del Rey Pier all in city of Los Angeles in Venice. Various parcels now public	10520	20-200	---	A
14.	Malibu Slough and Beach	2400	200-1200	---	C	42.	Same—Various parcels that should be acquired	5260	20-200	---	C
15.	West Carbon Beach	2400	80-200	---	C	43.	Ballona Creek Marshes	-----	See Chapter VIII	---	C
16.	East Carbon Beach	6200	100-300	---	E	44.	Proposed outside mole and pleasure bay	-----	See Chapter VIII	---	A
17.	Carbon Beach and Las Flores Beach (small area now public)	3600	100-200	---	E	45.	Del Rey Pier to Hyperion Beach, areas now public	3500	20-400	---	A
18.	Las Flores Delta	500	200-300	---	E						
19.	East Las Flores Beach	2800	20-130	---	C						
20.	Pena Canyon Beach	5400	20-130	---	C						
21.	Tuna Canyon Beach	7200	20-130	---	C						
22.	Topanga Canyon Park Upland	-----	See Chapter VIII	---	C						
23.	Topanga Beach to Los Angeles City Line	5300	20-130	---	C						
24.	Topanga Beach in Los Angeles City	1600	20-1130	---	C						
25.	Castellamare Beach	700	100-150	---	B						
26.	Santa Ynez Beach	1900	10-500	---	C						
27.	Bel-Air Pacific Palisades Beach	9000	10-200	---	E						
28.	Lighthouse Cafe Point	300	200	---	E						

Reference No.	Name	Approx. length in feet	Approx. width in feet	Back land area in acres	Classification	Reference No.	Name	Approx. length in feet	Approx. width in feet	Back land area in acres	Classification
46.	Same—Areas to be acquired	8300	10-50	---	C	67-68.	Palos Verdes Ranch	35000	-----	---	E
47.	Los Angeles Hyperion Beach	5350	20-100	---	A	69.	Point Vicente Lighthouse	2000	-----	---	B
48.	Los Angeles Hyperion uplands	-----	-----	180	B	70.	Palos Verdes Hill shore and bluffs	5000	-----	---	C
49.	City of El Segundo (Standard Oil Co. frontage)	1900	70-100	---	C	71.	San Pedro Hills Reservation	-----	Sec Chapter VIII	-----	C
50.	Same—Areas developed for other uses	300	-----	---	D	72.	Royal Palms shore and White's point to Los Angeles County Line	8400	200-500	---	C
51.	In Los Angeles County (Standard Oil Co. beach)	1900	70-100	---	C	73.	White's Point Beach in Los Angeles City	1900	150-200	---	C
52.	County Public Beach in Los Angeles County	1300	80-100	---	A	74.	Point Fermin and the San Pedro shores	7875	100-400	---	A
53.	Parcel owned by County in the City of Manhattan Beach	500	50-80	---	A	75.	Point Fermin—Various parcels	1100	100	---	C
54.	Manhattan Beach, Various parcels city owned	900	50-80	---	A	76.	San Pedro West Bluff	-----	-----	6 acres	C
55.	Manhattan Beach, Other beach to be acquired	7950	50-100	---	C	77.	San Pedro East Bluff	-----	-----	6 acres	C
56.	Park in Manhattan Beach	-----	-----	2	A	78.	Point Fermin Playgrounds	-----	-----	8 acres	B
57.	City of Hermosa Beach frontage now public	5500	20-100	---	A	79.	Harbor Section of Los Angeles and Long Beach on Terminal Island	30600	-----	---	D
58.	Same — Frontage developed for other uses	420	-----	---	D	80.	Harbor Section at Long Beach	3800	100-600	---	A
59.	Same — Beach frontage now public	3500	80-100	---	A	81.	Flood Control Channel and West Beach	3200	100-200	---	A
60.	Redondo North Beach	3950	10-100	---	A	82.	Amusement Zone	1260	-----	---	D
61.	Redondo Amusement Zone	1350	-----	---	D	83.	Long Beach Pier and Auditorium	2000	-----	---	A
62.	Redondo City Park	-----	-----	8	A	84.	Long Beach from Auditorium to East County Line now public (incl. 1800 county owned)	12800	10-50	---	A
63.	Redondo South Beach	7030	10-150	---	C	85.	Same—Area that should be acquired	8100	20-250	---	C
64.	Redondo South Beach	1470	150	---	B	86.	Long Beach Bluff Park	-----	-----	8 acres	A
65.	Torrance Beach	4050	20-80	---	E	87.	Alamitos Bay Shores	-----	-----	3 miles of inland shores	C
66.	Palos Verdes Estates L. A. County	26000	-----	---	B	88.	Bolsa Chica Beach outside city	-----	-----	5 miles	C



DETAILED RECOMMENDATIONS

1. *Sequit Beach (4,000 Feet).*

From the west county line for several thousand feet eastward is a good sandy beach. The old road followed this beach, but the new State Highway follows a line farther back. Any existing rights in the old highway should be retained and the strip between it and high tide should be acquired for public use. This might well be a State Park project in connection with Sequit Canyon, Zuma Beach, and Dume Park (No. 2, No. 4, and No. 5 below) and in connection with shores in Ventura County.

2. *Arroyo Sequit Park (150 Acres).*

At the mouth of the Arroyo Sequit are some fine trees and a bit of open relatively flat land having great value for a park in connection with the beach. The hillsides up as far as they form conspicuous parts of the valley scenery should be included with the floor of the valley and the reservation should extend back from the ocean half a mile or so, as far as beach picnic parties are likely to go.

3. *Nicolas and Encinal Beaches and Bluffs.*

From Sequit Beach to Zuma Beach for a distance of four miles the new highway follows the foot of the hills on a mesa 500 feet or so back from the sea and high above sea level. In this section the beaches are fair, but are remote from the highway. The chance for private development of the upland is excellent and it is believed that this stretch should be left for private use, subject, of course, to the existing right of the public in the tidelands.

The need for widening the right of way must doubtless arise soon and through this section it may be possible to develop a second roadway near the top of the bluffs, as has been done on Palos Verdes, for pleasure travel only, leaving the present highway for commercial uses and heavy travel.

4. *Zuma Beach.*

One of the finest beaches along the coast and one that would serve an enormous number of pleasure seekers is that above Dume Point known as Zuma Beach, three miles in length. This has been included in the recommendations for parks and parkways as an integral part of that plan with the Dume Canyon and mesa and the hills above. If the entire area is acquired as recommended it will be possible eventually to construct an upper level road parallel to the present shore road and to divide and control traffic through this stretch in a way to permit the largest possible use of the shore front for recreation. This beach has already been in part subdivided and some costly private developments have been made, but the entire beach should be acquired and the houses should be removed or remodeled for public uses.

5. *Dume Park.*

Dume Park, back of Zuma Beach, has been included also in the park plan as one of the most valuable, healthful and attractive park features for that part of the general plan, and it is also intimately connected with the beach problem. This area with those to the west of it certainly should be considered in the plan for State Parks as well.

6. *Ramirez Canyon Reservations.*

Four hundred and sixty-four acres now U. S. Lighthouse property that should be made useful for public recreation with Dume Park in the general park and parkway plan.

7. *Dume Point Shore.*

For two miles eastward from Zuma Beach the highway lies a long way back from the shore, and the shore is mostly rocky and narrow, bordered by high bluffs, and is not adapted for use by large numbers of people. This area is well adapted to high-class private development for which it is probably more valuable than for public use. Therefore, it is not recommended for public acquisition. Back of the

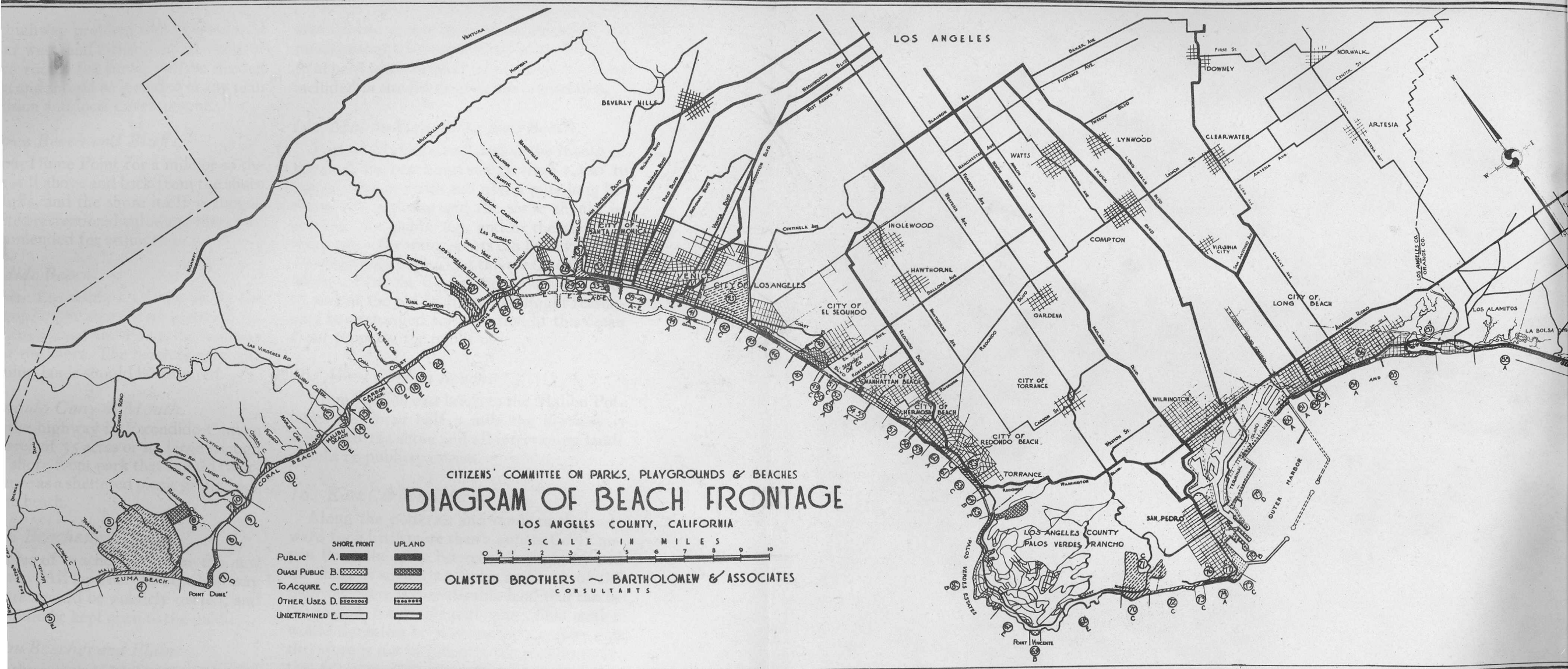


PLATE 35. Diagram showing public and private beach frontages and key to recommendations.

shore the highway problem will be similar to that farther west, and either a wider right of way or two routes for travel will be needed eventually, and should be included in any plan for subdivision and local development.

8. *Ramirez Beach and Bluffs.*

East from Dume Point for a mile or so the highway is still above and back from the shore on high bluffs, and the shore itself is rugged and of limited recreational value and therefore is not recommended for acquisition.

9. *Escondido Beach.*

From near Escondido Canyon where the highway drops to the shore level eastward for a mile to Latigo Road and Point, the highway is very near the shore. The beach is good and all intervening lands should be acquired.

10. *Escondido Canyon Mouth.*

Back of the highway in Escondido Canyon there is an area of 35 acres or so, large enough for a small shore front park that should be acquired to serve as a sheltered picnic ground adjacent to the beach.

11. *Corral Beaches.*

Three miles of beaches very near the new State Highway. All land between the highway and the shore should be publicly owned, and the beach should be kept open to the public.

12. *Malibu Beaches and Plains.*

Opposite the mouth of Malibu Canyon there is a strip of flat land 200' to 1,200' or more in width and nearly a mile in length between the highway and the sea that is now lined with cottages and held at high prices and is well adapted to private uses and likely eventually to be used for larger buildings if the area back of it is developed as a small community center. This beach is not recommended now for acquisition.

13. *Possible Malibu Park.*

Back of the Malibu Beach and extending into Malibu Canyon there is a very attractive

area of one square mile or so, including the ranch headquarters, that could be made a beautiful park with the beach, if acquired, but is not included in the list as of prime importance.

14. *Malibu Slough and East Beach.*

East of Malibu Creek and at the mouth of the creek the beach and slough from 1,200' to 2,000' or so in width and half a mile long between the highway and the shore should be acquired for public use, and in the slough a small space for water sports can be developed. Through the land back of this area and through Malibu Park the County now owns the right of way of the old highway that might reasonably be exchanged for a portion of this ocean front property for public use.

15. *West Carbon Beach.*

From Malibu east beach to the Malibu Potteries for about half a mile the highway is again near the shore and all intervening lands should be publicly owned.

16. *East Carbon Beach.*

Along the potteries and lands to the eastward for a little more than a mile to Coal Canyon Point the space between the highway and the shore is somewhat wider and back of the highway there is considerable land that can be developed for residential uses. This section would doubtless be very costly to acquire and therefore is not included in the recommendation for immediate acquisition, even though it would have great value for the public.

17. *Carbon Bay and*

*Las Flores Beach (3,600 Feet).*

From Carbon Point eastward for a number of feet in Carbon Bay, the highway is now actually against the shore and no private land intervenes, and there public access to the shore can be kept open. Farther eastward costly improvements have been made, and high land values have already been established. Therefore, this beach is not listed for acquisition,



PLATE 36. Mouth of Topanga Canyon, showing areas that should be publicly owned to care for the vast crowds that gather there, and showing an endless chain of autos extending down the beach, cutting off all view of the ocean from the passing travelers. (Photo by Stagg.)

even though it also would have great value for the public.

#### 18. *Las Flores Delta.*

Opposite the mouth of Las Flores Canyon for a relatively short distance of 500' or so, there is a small delta being developed with roadside buildings, cabins and conveniences, that would be costly to acquire and therefore is omitted.

#### 19. *East Las Flores Beach.*

From Las Flores Canyon eastward for half a mile or so to the next point of land, the highway is near the shore below a high bluff all the way and there are 55 small cabins on the seaward side. The land on that side should be acquired for public use and all the cabins should be removed.

#### 20. *Pena Canyon Beach.*

For a mile the highway is very close to the sea, supported most of the way by riprap. Private ownership, if any, in this section should be acquired.

#### 21. *Tuna Canyon Beach.*

At the point opposite the Hearst Private Road, there is a small area outside the highway with a tent, and eastward from there to Topanga Canyon for a mile and a half there are 65 small buildings on the narrow strip between the highway and the ocean. Some of these buildings on high timbers may be standing on public tidelands. All should be removed and all land should be publicly acquired.



PLATE 37. Beach above Santa Monica that would be inside proposed harbor, showing groins built far out on the beach to protect the shore and catch the drifting sands. (Photo by Spence.)

22. *Topanga Canyon Park Uplands.*

At the mouth of Topanga Canyon the small flat area now occupied by a number of small cottages is all needed for a park and picnic area and to hold a large number of automobiles that come to the shore. Here the value to the public would be very much greater as a public park than can be realized on the same area under private ownership.

23. *Topanga Beach.*

From Topanga Canyon to the Los Angeles City line at the Parker Ranch Road for a distance of one mile there are 30 small buildings

on the seaward side of the highway, with high cliffs on the other. The entire strip between the highway and the sea should be publicly owned, as it will have a far greater value for large numbers of people under public ownership.

24. *Topanga Beach in Los Angeles City.*

From the city line to Castellammare Beach, about 1600 feet, Topanga Beach is very narrow. The highway is filled out onto the beach and there is little if any private land on that side except at Castle Rock in the middle of this stretch. Any private land that may exist should be publicly acquired.



PLATE 38. Beach at mouth of Santa Monica Canyon, showing public beach in the center with private club and parking area in the left foreground. (Photo by Stagg.)

25. *Castellammare Beach.*

At the arch over the street and eastward a stretch of beach 700' long has been fenced in for the use of owners of property in Castellammare, thus withdrawn from private ownership and dedicated to quasi-public uses, for which purpose it is recommended that it should be left.

26. *Santa Ynez Beach.*

For a distance of 1,900 feet between the highway and the shore opposite Santa Ynez Canyon there is one old building and some land that should be acquired.

27, 28 and 29. *Bel-Air, Pacific Palisades Beach, Lighthouse Cafe and Huntington Palisades Beach to the County Public Beach.*

Two miles of narrow frontage, a part of which has been built out recently by artificial means upon publicly owned tidelands. Through this section a plan is being considered for constructing a new State road, on a wider right of way, partly on the tidelands just outside the private lands and partly on those lands, and for abandoning the present highway in exchange for property rights along the shore. Either some such exchanges should be worked out or the strips of privately owned shore front lands should be acquired outright.

30. *Santa Monica Canyon Beach.*

The public now has the use of nearly a quarter of a mile of beach at the mouth of Santa Monica Canyon. This is a very valuable beach, fairly broad and now very popular.

31. *Santa Monica Canyon Park (9 Acres).*

At the mouth of Santa Monica Canyon a portion of the partly vacant land back of the highway should be acquired to make a small waterside park for intensive use by automobile parties near the beach, and to provide some of the needed parking space for automobiles and space for a public bath-house to be connected with the beach by a foot subway.

32. *Santa Monica Palisades Park.*

Santa Monica City owns a fine coast park of 46 acres, though it is almost entirely cut off from contact with the ocean, and is high above sea level.

33 and 34. *Beach Clubs in Los Angeles City and in Santa Monica.*

Eleven hundred feet of beach front is now largely taken up for intensive use by a number of beach clubs and houses on the shore. The value of this area and areas farther eastward has mounted so high that it will prove much less costly to leave this land in private ownership; to allow the present shore road to serve for ordinary traffic, and to plan for pleasure travel ultimately to pass outside these properties either on new lands to be filled out on the tidelands or on a chain of islands farther out.

35. *From Georgina Avenue to California Avenue.*

East from the clubs for three-quarters of a mile a very narrow strip of the shore outside existing lots might be acquired, but the lots run almost to high tide and in places may reach it, and the strip is so narrow that it would add little to the area of tidelands already publicly

owned. Therefore, this strip is not listed for acquisition.

36 and 37. *From California Avenue to Broadway.*

From Broadway west to Arizona Avenue the city of Santa Monica now owns a fairly broad strip of beach frontage outside the walk, and west of Arizona Avenue for a quarter of a mile to California Avenue there is a narrow strip where the walk is built up above the tidelands. This land can be widened eventually to seaward by building groins to increase its recreational area.

38. *Broadway to Santa Monica Pier.*

Nine hundred and fifty feet of high value privately owned property is not included in proposed acquisitions.

39 and 40. *Santa Monica Pier and Beaches to Lick Pier.*

From Santa Monica Pier to Lick Pier at the city line there are now a number of narrow parcels of publicly owned beach outside the existing walk, and there is one small park of an acre and a half on the slope above the walk. In this stretch for about half the distance the narrow beach outside the walk is privately owned to tideland and possibly can be acquired at reasonable prices, but here again the cost of acquisition is likely to be greater than the narrow width added to the width of the walk would justify, and it is probably better policy from the public point of view to leave the beach here to be developed eventually farther out by filling on existing public lands rather than by recovery of the private holdings.

At Santa Monica Pier, and again at the Lick Pier, amusement parks have been built far out over the water on flimsy pile construction to attract large crowds with no special provision of space for parking of automobiles. Such facilities should eventually be superseded by more appropriate and adequate ones under public control.



PLATE 39. Shores of Venice and the Del Rey marshes, where a large park and harbor can be developed if the land is soon acquired. (Photo by Spence.)

*41 and 42. From Lick Pier to  
Del Rey Pier through Venice.*

Nearly two miles of beach front in Venice outside the walk is now publicly owned in various parcels, and all of the remaining frontage amounting to another mile should be acquired, subject to such arrangement as may be deemed best with owners of existing piers. This private property lies mostly at the easterly end of the beach. Some of the land claimed to be private property is probably really public now, having resulted from filling out upon public

lands, and is now under litigation. Along most of this frontage the beach is now too narrow to render full value to the public and the entire beach doubtless should be greatly widened eventually by proper use of groins or breakwaters, but whatever is done should form part of a plan for the best possible ultimate use of this entire section of shore, probably as a pleasure bay of large proportions as suggested by the Venice Branch of the Los Angeles Chamber of Commerce and as shown in the sketch plan herewith presented.



*43 and 44. Ballona Creek Marshes and Lagoon and Proposed Outside Mole and Pleasure Bay.*

As described and recommended for the park and parkway system there is opportunity for creating one of the great recreation features of the world at the shore to include the Ballona Creek Marshes, a mole outside Venice and Santa Monica and the enclosed Pleasure Bay. (See Plates 33 and 34.)

At the Del Rey Marshes there is now a large area of low land which can be made into a broad waterside park to supplement the beaches that are elsewhere bordered for so many miles by commercial and residential buildings. Between the marshes and the sandy beaches there is a long, narrow lagoon now popular for still-water bathing.

*45, 46 and 47. Del Rey Pier and the Los Angeles Hyperion Beach, 3½ Miles Long.*

South of the Del Rey Pier for some distance the beach is now fenced in and subdivided; east of there the Pacific Electric car line follows the base of the bluff on the shore itself, in some places so close that a high tide washes the rocks along the tracks. Above the railroad, the newly constructed highway follows the edge of the bluff to Hyperion and there turns a short distance farther inland. The public now owns about 3,500 feet of this frontage south of the subdivision and also a mile of frontage at Hyperion, with a mile of narrow private property of limited value between the two. This private property and a narrow strip at least along the outer side of the subdivided area at Del Rey should be acquired to complete the shore holdings. The beach at Hyperion is now public property and insofar as it is not needed for sewer outfall purposes, it should be made available for recreation under proper inter-departmental arrangements.

*48. Hyperion Uplands.*

About 180 acres of upland is also publicly

owned, stretching for a mile along the bluffs and sand dunes. It will eventually have very great recreational value and should be kept for such purposes, insofar as it is not needed by the Sewer Department.

*49, 50 and 51. El Segundo and Los Angeles County Shores Owned by Standard Oil Company.*

The Standard Oil Company owns nearly a mile of shore front at El Segundo and farther east. This shore from the car line and the highway down to high tide is almost all vacant, and is kept free from buildings as a protection to their property above. A short stretch is used for the pier and accessory uses. The balance of the beach should be publicly owned, and it is possible that under certain restrictions for their own protection the company might reasonably turn this over to the public.

*52 and 53. County Owned Beach at Manhattan.*

The County under favorable opportunity recently acquired about 1,800' of beach frontage at the west edge of Manhattan, as another unit in the public holdings between the railroad and the shore.

*54 and 55. Manhattan Beach Shores.*

The city of Manhattan Beach now owns about half the shore along its frontage and the remainder in long, narrow parcels of limited commercial value should be publicly acquired as opportunity offers. The beach through the city is bordered by the railway and by a walk, but not by the highway.

*56. Manhattan Beach Park.*

Just back of the shore the city owns a small parcel of land overlooking the sea in which a pleasing local park and gathering place can be developed.

*57, 58 and 59. City of Hermosa Beach Frontage.*

Almost all of the beach frontage of Her-

mosa is now public, in a long, narrow strip outside the walk. 420 feet is privately owned at the City Pier, and the question of acquiring that was recently decided adversely by the city owing to high value placed upon it. This short parcel has not been included in the recommendations for acquisition. The entire shore is followed by a walk on which private properties face, but the highway and car lines are farther inland.

*60, 61, 62, 63 and 64. Redondo Beach Shores.*

The North Beach, three-quarters of a mile long (No. 60), is now publicly owned outside the beach walk. For a quarter of a mile, through the center of the city, the beach is occupied by an amusement zone (No. 61), outside a portion of which the city has built a public pier. This frontage is not recommended for acquisition. South of the pier to Avenue I, the beach and bluffs should be publicly acquired for a mile and a half, the easterly portion to extend up to the nearby public highway, the Esplanade.

The city has an 8-acre park (No. 62) near the pier that is used intensively at times for picnics and large gatherings near the beach, for which it is admirably suited.

At the south end of the city for about a quarter of a mile (No. 64) the beach below the Esplanade has recently been dedicated as a quasi-public community beach, and this is not included in the recommendations for public acquisition.

*65. Torrance Beach.*

The extreme southerly end of the sandy beaches of the South Bay District where they merge into the rocky shores of Palos Verdes is in the city of Torrance. It is about three-quarters of a mile long and is bordered by bluffs and very high cliffs, above which the privately owned lands are now being subdivided for residences. The beach, bluffs and cliffs should be, and probably in any case will be, re-

served for recreation and scenic effect, but are of more local than regional value.

*66, 67, 68, 69, 70 and 71. Palos Verdes Estates and Ranch and Lighthouse.*

These areas lie in the unincorporated territory of Los Angeles County, including over 13 miles of coast line. Along the coast at Palos Verdes and all the way to Point Fermin in San Pedro there is very little sandy beach, the shore is generally rocky, and the shoal water for a long distance out is filled with kelp. Above the shore cliffs rise abruptly, 50' to 150' in height, leaving almost no open ground near sea level. Along the top of the bluffs for much of the way a shore front road, the Palos Verdes Coast Road, has been built, from which fine views over the ocean are obtained.

For the first five miles from the Torrance Beach the shore and bluffs and a large amount of canyon and hill land back of the shore, in all several hundred acres, are quasi-public held in trust for park purposes for the benefit of the local community (No. 66). The parkway above the cliffs follows the shore reservation most of the way and commands fine views that are protected by the existence of the reservation along the shore.

Farther east the coast highway follows a fifty-foot right of way owned by the County (Nos. 67 and 68) along or near the top of the bluff, with fair assurance that the Coast Road will be dedicated eventually 170' wide, restricted to pleasure travel only, and that another through road farther back will be dedicated to carry heavy traffic.

At the Point Vicente Lighthouse the U. S. Government owns about 2,000 feet of frontage (No. 69).

Near the easterly end of Palos Verdes Ranch the road was not built along the coast owing to the abandonment of the former connection with Pacific Avenue and Paseo Del Mar in San Pedro, and plans for possible extension will depend on the possibility of reopening that section. A parkway should eventually con-

tinue eastward along the bluffs, possibly to drop down to the seashore along Royal Palms and White's Point, then to rise again to connect with Paseo Del Mar in San Pedro east of White's Point.

The shores along Palos Verdes are of limited value for general public recreation, and no acquisition of shores is recommended, except for one mile at the easterly end (No. 70) where a large reservation is proposed in connection with the park system, to serve as a terminal feature (No. 71) for a large volume of traffic that will come to the shore.

*72 and 73. Royal Palms Shore and White's Point to Paseo Del Mar in San Pedro.*

From the Palos Verdes Ranch east line, eastward along the base of the bluffs and White's Point the shore and the face of the bluffs should be acquired, including a suitable road location following the shore past White's Point (No. 72), then rising to connect with the Paseo Del Mar in San Pedro (No. 73). The construction of a road along the shore will involve costly shore protection and costly inclines at either end, but will make a feature of shore front parkway of great value to the public. It will serve as a local outlet for San Pedro rather than as a through road in the park system, and will turn much traffic into San Pedro from the west to find its way through city streets where an extension of the parkway is impracticable, or to turn back to the San Pedro Hill Reservation.

*74, 75, 76, 77 and 78. Point Fermin and the San Pedro Shores.*

Of the nearly 2 miles of San Pedro Shore over 80% is now publicly owned, of varying width, including much of the bluffs (Nos. 74 and 78). The remaining private property near the shore (No. 75) and two parcels on the bluffs (Nos. 76 and 77) should be acquired to complete this park and beach area, where al-

ready a large number of people go, and where many more may be expected as the city grows.

*79. The Harbor Section and Terminal Island.*

Nearly 6 miles of ocean front from San Pedro across the bay to the old Los Angeles River, including Terminal Island, is practically all taken up for Harbor and Commercial purposes, and aside from minor local recreation grounds for persons employed in the district, this area should be kept free from pleasure seekers and devoted to the commercial and industrial uses for which it is primarily intended.

*80. Harbor Section at Long Beach.*

Thirty-eight hundred feet of the harbor lands lying within the breakwaters is now a public beach belonging to Long Beach. This section now has considerable recreational value, but will doubtless be used in time to meet commercial requirements, for which it is well suited; its recreational use will then be largely or wholly lost to the public.

*81. Flood Control Channel and West Beach.*

Three-fourths of a mile of intensively used beach in Long Beach, now publicly owned.

*82 and 83. Amusement Zone and Municipal Pier and Auditorium.*

Over half a mile of the frontage opposite the main part of the city is occupied by the amusement zone (No. 82), the city pier, and the fill now being made by the city for an Auditorium and other public uses (No. 83).

*84, 85 and 86. Long Beach from the Auditorium to East County Line.*

Four miles of shore east of the Auditorium in Long Beach, having a fine sandy beach and a very broad sandy tideland strip, should all be publicly owned. Three-fifths is now publicly

owned (No. 84), much of that being only a narrow strip below the high bluffs, with a sea wall at the base of the bluff practically at flood tide level. The city owns the strip of Bluff Park for a distance of three-quarters of a mile (No. 86), over which a fair view can be had from the swarms of passing automobiles on Ocean Avenue.

East of the park the bluffs become less and gradually disappear, and from Termino Avenue eastward to Fifty-second Street all private holdings between the highway with its car line and the sea should eventually be publicly acquired and are now being acquired by the city (No. 85). East from Fifty-second Street the narrow strip south of the walk should be acquired to connect with the public beach now owned by the County. At the east County line and just beyond, the entire point east of Seventy-second Street should be publicly acquired. From this point a bridge will eventually be built across Alamitos Channel to connect with the shore road farther eastward, and then the highway along the Long Beach Peninsula will be used by large numbers of pleasure seekers.

87. *Alamitos Bay Shores.*

Alamitos Bay is the only large inland salt-water area in the County now used for recreation. It is of limited extent, having about 3 miles of shores and is only fairly well developed for public use. All the available area in the narrow strips between roads or walks and the shore line should be publicly acquired and some additional public recreation facilities should be established at points where automobiles may park in larger numbers without congesting the shores. For this purpose it seems possible that some of the vacant land northeast of the bay may yet be available.

88. *Bolsa Chica Beach.*

Five miles long, but immediately outside Los Angeles County, the beach between the highway and the tide-line is followed by the Pacific Electric Railway and in places small cottages have been built and the beach has been subdivided, but this entire stretch should be acquired in connection with the Bolsa Chica Marshes. There will be need for a bathhouse and a limited amount of shelter, but no extensive construction need be contemplated at present. There should be two bridges over the railroad with some automobile parking space along the shore side of the tracks.

ESTIMATE OF COSTS

Based on prices now prevailing in the several sections.

I. Land along shore front:		Length in Miles	Acquisition	Improvement
A. Now public	-----	14	-----	-----
B. Now quasi-public	-----	6	-----	-----
C. To be acquired	-----	32	\$ 13,700,000	\$ 1,900,000
II. Lands back of the highway:		Areas in Acres		
A. Now public	-----	64	-----	-----
B. Now quasi-public	-----	188	-----	-----
C. To be acquired	-----	206	\$ 710,000	\$ 240,000
			\$ 14,410,000	\$ 2,140,000
III. <i>Pleasure Bay Improvements:</i>				
(Partly charged under park and parkway plan) Beach share -----				
			-----	\$ 10,000,000
TOTAL -----			\$ 14,410,000	\$ 12,140,000

## CHAPTER VI

### RECOMMENDATIONS FOR REGIONAL ATHLETIC FIELDS

**E**VEN where local parks and playgrounds and school grounds may now adequately provide for ordinary daily use, and where parks and beaches are accessible for holidays and occasional visits, the important requirements of boys and girls just above school age, but not yet established in active employment, full of energy and strength and rapidly passing from the control of parents and teachers, but not yet held down by responsibilities of business, call for some special consideration. For these children, who are just at the "dangerous age" when they will establish their places in the community for good or for bad, there is need for wholesome encouragement and a free outlet for a large amount of energy, space for games of active competition too rough and too widespreading to be played on the local playgrounds. They need such areas as are provided in Franklin Field in Boston, with its many acres of open meadow on which a dozen baseball games are played at the same time, or the great fields in Prospect Park in Brooklyn, and similar fields in Jackson Park and other parks in Chicago.

To provide space for baseball games, football, track events, tennis, swimming and various other games and sports, with field houses, lockers, and other necessary conveniences, and to be able to serve large crowds that will gather at times, each such area should contain 100 acres or more of fairly level land.\*

Such areas, if they are to meet the particular purpose for which they are proposed, should

be within easy reach of a large number of young people at a minimum cost for transportation. They should, therefore, be easily accessible by the street cars for a single carfare. There should be one or more such areas on each side of the center of the city.

Several areas have been included and numbered in the general plan for parks and parkways (See Plate No. 46) in some or all of which large fields can be developed, such as:

31. Culver Recreation Field.
35. Rancho Cienega Recreation Field.
48. Long Beach Water Lands.
55. South Gate Recreation Grounds.
57. Whittier Narrows.
59. Lincoln Park and Recreation Grounds.
61. Brookside Park, Pasadena.
62. Elysian Park (Chavez Ravine Section)
64. Griffith Park Playgrounds.
92. Eaton Canyon Wash.

In each of these areas, a space large enough for an effective large athletic field in agreeable park-like surroundings can be found and in several at least, if not all, the land should be made available, if not already so, for such uses. While some of these areas do not now meet the requirements as to accessibility, they can doubtless all be made easily accessible in time. Still other areas farther out may also be needed in time in the San Fernando Valley, the San Gabriel Valley and the Ballona Creek Basin, for which other large reservations can then be developed to meet this need, such as Alondra Park, the drainage basins, and the reservoir parks.

DETAILED RECOMMENDATIONS

31. *Culver Recreation Field.*

Culver Recreation Field as proposed, including the triangle between La Cienega Avenue and Venice Boulevard with 160 to 190 acres, is a low flat area suitable for such uses. It is, however, a little over a mile from the end of the city car line at Rimpau Boulevard, but is on the Pacific Electric car line.

35. *Rancho Cienega Recreation Field.*

Lying east of Angeles Mesa Drive and south of the line of Exposition Boulevard and lying north of proposed parkway into the city. About 125 acres of flat land is there available, or more if the proposed parkway be included. This area is accessible for a single fare by the yellow car line on Santa Barbara Avenue less than half a mile to the south, and by the Thirty-ninth Street car line one-quarter mile to the east, and by the Jefferson Street line at Ninth Avenue.

48. *The Long Beach Water Lands.*

The Long Beach water lands to serve Long Beach and its extension northward include a large area that can be and should be made available for such uses as the city demands become greater. This area is not now accessible by a low city transportation fare, but is likely to be so served in time.

55. *South Gate Recreation Grounds.*

At South Gate 600 to 700 acres of river bottom land is proposed to be acquired as a park reservation. In this area very large athletic fields can be developed to serve the southeast section. This area is 9 miles out, and it is not on a car line at present but is served by the South Gate Municipal Bus Lines and is a fine field for ultimate development.

57. *Whittier Narrows Recreation Park.*

This park, proposed as another large river-bottom reservation, has a large acreage in which athletic fields can be developed eventually. This area is 10 miles from the center of the

city, is near Montebello, Whittier, El Monte and Alhambra, and may in time be served by a single fare city transportation line, although it is not now so served.

59. *Lincoln Park and Recreation Grounds.*

East of and including the present Lincoln Park, a large area is easily accessible from all of the east side of the city by North Broadway and North Main Street by street cars for a single fare, and is crossed by the Pacific Electric line. It includes rough but usable land that could be made into athletic fields. Part of the area is now occupied by the Ascot Race-track, of doubtful value as such, and there is an auto camp on the Alhambra Avenue side, but the land is now nearly vacant and should be acquired for the purpose, including boundaries satisfactory for the proposed east and west parkway as well.

61. *Brookside Park, Pasadena.*

Pasadena now owns large areas in the Arroyo Seco at Brookside Park that serve in part the purposes of a great athletic field. This park will doubtless be further developed on a large scale for such uses. Brookside Park is now divided for uses as follows:

Playground equipment .....	3 acres
Tennis .....	1 acre
Major sports .....	18 acres
Picnic areas .....	18 acres
Automobile parking .....	5 acres
Planted areas .....	13 acres
	<hr/>
	58 acres
Stadium .....	22 acres
Automobile parking .....	150 acres
Golf course and undeveloped area .....	290 acres
	<hr/>
Total .....	520 acres

62. *Elysian Park (Chavez Ravine Section).*

Elysian Park, near the heart of Los Angeles, on the northerly side, is now chiefly rugged hilltops, but in the plans to extend the

park to include Chavez Ravine and the adjacent slopes space will be available, especially in the lower section of the ravine, where a great athletic field can be developed to meet the requirements of large numbers of people, surrounded by other park features.

64. *Griffith Park Playground.*

The city now has Griffith Park Playground, on a 20 acre tract, a playground and athletic field of limited extent. This area could be very materially extended to include some of the adjacent water lands. The adjacent lands on the easterly side of the river are subdivided and becoming built up in small houses, but it is possible that a fairly large area of such lands can be acquired also, at less cost for extension to the plant already established, than could an equally satisfactory space be found elsewhere. This area is easily accessible from Glendale and from Edendale and the easterly end of Hollywood.

92. *Eaton Canyon Wash.*

In Eaton Canyon Wash 500 acres of the

wash and adjacent slopes are recommended for acquirement, and in that area a large athletic field to serve the east side of Pasadena and adjacent towns on the east can be developed.

ESTIMATE OF COSTS

An estimate has been made of the probable cost for acquisition of areas not yet owned and for development of athletic grounds at each area, insofar as such development is likely to be needed for some time to come. This follows:

Cost of acquisition .....	\$4,700,000
Improvements .....	2,500,000
Total .....	<u>\$7,200,000</u>

This calls for relatively little cost on some areas and high cost on others. For those areas where a much larger reservation is recommended in the general park plan than is needed for athletics alone, a fair portion of the total estimated cost has been included here.

## CHAPTER VII

### RECOMMENDATIONS FOR LARGE RESERVATIONS IN MOUNTAINS, CANYONS, DESERTS AND ISLANDS

**T**HE main Los Angeles Region as herein considered, lying between the mountains and the sea, obviously does not include all the areas of recreational value to the people of the region. With the great use of the automobile, the range for pleasure seekers even in large numbers has been greatly extended, and the need for special provision for recreation in the outlying regions has already been keenly felt.

The County has acquired and developed several areas for recreation in the mountains, and the City of Los Angeles has developed four recreation camps at a long distance from the city. The Government also has developed recreational areas in the Angeles National Forest, and there are other areas far within the interior of the forest, of limited extent and widely separated one from another, that could be used by a large number of visitors if made sufficiently accessible. They can be made accessible by providing reasonably safe and direct roads, and by providing the necessary conveniences, such as running water, some forms of shelter, toilet facilities and sanitation, and stores for food and camping supplies.

With the construction of dams in the San Gabriel Canyon, the present route through the Canyon will necessarily be diverted and may be superseded at least in part by a route farther east through Little Dalton Canyon and the east fork of the San Gabriel River to Vincent Gulch and Big Rock Creek and to the desert beyond with a connection also to Big

Pines Recreation Camp. This would be distinctly a canyon bottom route, and while it would have many attractive features, it will lack that particular interest which is to be found in a high-level route through the high mountains. The San Gabriel Canyon road is now being extended to Crystal Lake, and some road will doubtless be carried from there over the mountains also to Big Rock Creek, but will be fairly steep. A mountain road to afford the greatest scenic value, however, should start near La Canada, pass around the head of the Arroyo Seco as now planned by the State Division of Highways, follow the ridges from there around the west end of the San Gabriel Canyon to open up the mountain plateaus along the ridge, then drop down into Rock Creek and there connect with the Big Pines Recreation Camp road. Farther west in the mountains there have been suggestions for roads over the mountains to Palmdale for commercial use, either along the Arroyo Seco and around the head of the Tujunga Canyon, or through a canyon farther west. Neither of those routes, however, will reach land that has any very great recreational value.

In the mountains and in the desert in the northern part of the County there are several features of recreational value and public interest, notably the top of Liebre Mountain in the National Forest, now partly in private ownership, together with its delightful northern slopes; the Joshua trees and the open des-





PLATE 40. San Gabriel mountains from mouth of Tujunga Canyon, showing steep, barren hillsides, offering little or no recreation space above the valley floor. (Photo by Fiss.)

ert along the north County line, including the bed of Rosamond Lake, which is dry much of the time, but is a typical desert feature with its frequent mirages of considerable scenic interest; and the big Joshua trees at the east end of the Antelope Valley. To get into those areas through fairly agreeable pleasure routes, it would be possible to construct a pleasureway circuit from Newhall Tunnel northward, along the western base of the mountains, east of the occupied areas of Newhall and Saugus; then to follow up the Elizabeth Lake road to Radium Springs; then to climb up to near the top of the ridges of Sawmill Mountain and into Liebre Mountain, with a branch down the northeast slope of Liebre Mountain through Oakgrove Canyon, and from there to the large group of

Joshua trees near Neenach; thence cross the desert, north of the cultivated areas, to Rosamond Lake and to the grove of big Joshua trees between Antelope Valley and Wilsona Valley, and connect from there southward to the Big Pines Recreation Camp road and the roadways in and over the mountains toward Pasadena, Glendora and the other foothill cities. All the privately owned lands along such routes are of very low economic value and the public ownership of a liberal margin of land along such routes, kept in its natural condition, would be of great scenic and recreational value to the people of the Los Angeles Region. In the Owens Valley, far north of the County line, the City of Los Angeles owns many thousands of acres of land formerly cultivated but



PLATE 41. Top of Liebre Mountain, looking down onto nearby ridges, showing native growth not yet ruined by fire or cutting; should be developed as a public recreation park.

now returned to desert because the water has been taken for city use. This area even though remote has some value for recreation and may eventually attract many pleasure seekers, especially in winter.

Within the County there are also the islands lying some distance off the coast, having very considerable possible value for recreation for those who can afford the time and expense required to reach them. Santa Catalina is privately owned and is developed in part for commercial recreation. San Clemente, lying farther out, is owned by the National Government, under the Lighthouse Department, and should be valuable eventually as a County or State recreation and camping place when there is enough demand to warrant the expense of equipping and running a recreation station there and of establishing transportation routes by air or by water or both. It is now chiefly barren, and almost without water, and unin-

habited, but has a fair harbor and a large area with some very attractive features, canyons, cliffs, and volcanic cones as well as interesting shores. So too, the westerly end of Santa Catalina, with the harbor at the isthmus would make an excellent public reservation.

Other recreational areas, such as those in the San Bernardino and San Jacinto Mountains, draw heavily from Los Angeles, and might eventually be included in a plan either as an extension of the Los Angeles System or as State Parks, or as parts of other Metropolitan Systems for the counties east of Los Angeles.

The Park system as proposed provides also for 12 or 13 outlets at the County boundaries from which extensions should be developed eventually through adjacent counties, and to which especial attention of the adjacent counties may well be invited.

In the mountain areas the largest cost to

provide for recreation will undoubtedly be that for road construction, and the value of the investment in these roads will depend largely on the methods and manner of road construction and the control of adjacent lands. The use of the roads involves four kinds of activities: first, driving along and enjoying views and events of the road; second, pausing in the car to enjoy points of special scenic interest; third, stopping to picnic or to enjoy other forms of isolated outdoor recreation near the car; and fourth, parking the car usually at some parking center and leaving it to go elsewhere on foot. Each of these four interests can be, and should be, provided for in the mountain roads, without at the same time detracting from the enjoyment of the road in other ways. Cars parked or pausing on the outer edge of the road necessarily reduce the enjoyment of the road from passing cars. So, too, cars in the outer lane of travel seriously cut off the enjoyment for people traveling next the hillside and even the widening of the roadway to provide for several lines of travel cuts off the plunging mountain views from persons using the inner lanes. Therefore, where roads are made for enjoyment at so high a cost per mile as is inevitable in the mountains, some additional cost can well be justified to obviate this feature, by extra grading and planting if need be, through providing even small hillside or woodland "nooks" or detours, near to but screened from and not in the way of the main traffic. Such nooks can be on higher or lower levels, and as stub ends or as loops, so long as they afford space enough for a few cars and a chance to turn around.

Where many cars will be parked in a scenic region it is well worth spending a considerable amount of money and of ingenuity to render the mass of cars less conspicuous, either behind belts of planting or by parking in "groves," the

cars being at least partly hidden under and among the trees.

Where the volume of traffic in both directions is a considerable one, in mountain regions and where cross-overs are not needed at frequent intervals, there is a great advantage in having two one-way roads of limited width and each on its independent location. The advantage of safety in travel as well as the added opportunity for enjoying the scenery, free from interruption by vehicles passing in the opposite direction, is of very great importance. The danger of meeting on the turns of mountain roads, the glare of headlights at night, and the constant passing of vehicles is a factor of considerable irritation that can be eliminated by one-way roads. Two roads may cost more than one wider one, and two may provide less effectively for travel when the peak load is chiefly going in one direction, but two roads will give infinitely more enjoyment to the travelers whose chief reason for traveling is to find enjoyment. Where preliminary construction calls for making a two-way road, twenty or twenty-five feet wide now, but where a greater capacity will be needed later, it is often possible to plan the location so that the additional width can later be provided in an independent second road, so as to give ultimately the advantages of two one-way roads.

Enjoyment of scenery from an automobile, moving as fast as practicable, is much more possible with broad open scenery from high level roads where the nearby features are unimportant than in narrow canyons and intimate small scale landscape where the scenes are passed so rapidly that no really good views are possible. In general, the canyons should be protected from the rush of through travel, and main roads should be placed where possible on the view-commanding slopes and ridges, where they will also best serve for fire protection.



SUMMARY OF PROPOSED OUTLYING RESERVATIONS AND PARKWAYS

(The lettered classes are referred to in the last column of the next table.)

Class	Miles	Acres
A. Large Reservations in forests.....	14	19,745
B. Large Reservations in desert.....	10	7,500
C. Island Reservations.....	---	60,000
D. Connecting park roads in forests..	97	-----
E. Connecting park roads not in forests .....	81	4,800
F. Camps in mountains .....	---	285
TOTAL .....	202	92,330

LIST OF EXISTING AND PROPOSED PARK RESERVATIONS AND PARKWAYS IN OUTLYING REGIONS

(Numbers on the left margin refer to numbers on Plate No. 42. Letters at the right refer to the class of use for which each is recommended.)

	Length Width in in Feet	Miles	Area in Acres	Class
201—Newhall Parkway	200-500	20	1000	E
202—Elizabeth Lake Canyon and Liebre Mt. Road (mostly through forest land)	200-500	20	-----	D
203—Liebre Mountain Reservation (10,000 acres of National Forest lands)	15,000	7	12,000	A
204—Neenach Parkway	500	8	500	E
205—Neenach Joshua trees reservation	5,000	5	2,500	B
206—Antelope Valley Parkway	500	35	2,200	E
207—Lovejoy Joshua trees reservation	10,000	5	5,000	B
208—Rock Creek Parkway	500	18	1,100	E
209—Big Pines Park Road	500	5	-----	D
210—Big Pines Recreation Camp (existing county reservation)	---	5	4,200	A
211—Rock Creek to Arroyo Seco Ridge Road and Reservations	500-5,000	42	-----	D
212—Mt. Islip Roads	---	3	-----	D

Length Area  
Width in in  
in Feet Miles Acres Class

213—Crystal Lake Reservation (existing county reservation)	---	2	1,290	A
214—Devil's Canyon Road	---	7	-----	D
215—Big Pines Vincent Gulch and Little Dalton Road	---	20	-----	D
216—Camp Seeley, City of Los Angeles	---	---	25	F
217—Camp Radford, City of Los Angeles	---	---	82	F
218—Camp High Sierra, City of Los Angeles	---	---	160	F
219—Camp Oak Flats, City of Los Angeles	---	---	18	F
220—San Clemente Island (Owned by U. S.)	---	---	50,000	C
221—Angeles National Forest, Miscellaneous Areas that should be acquired (The Angeles National Forest contains 670,682 acres within the county of which 41,622 acres are alienated, leaving 629,060 acres U. S. land)	---	---	2,255	A
222—Portion of Santa Catalina Island	---	---	10,000	C

DETAILED RECOMMENDATIONS

201. Newhall Parkway.

From San Fernando Valley toward the northwest there is now a main traveled highway through the Newhall Tunnel, and another parallel to it and a little farther westward is being developed, and through the pass runs also the Southern Pacific Railroad. A parkway route should be developed farther eastward through Grapevine Canyon to cross the foothills a little above the pass and to follow along the easterly side of the railroad along the present highway for a mile or so, then to follow undeveloped lands east of the railroad, to cross over the railroad and highways at Soledad Canyon and to follow around the easterly side of the Santa Clara River Valley, up the easterly side of the Castaic Valley, parallel to

but separated from the Ridge Route. Through Elizabeth Lake Canyon it should turn north-eastward to the forest boundary.

This route would involve some heavy construction, but passes through interesting country that, if protected from fire and from devastation, can be kept attractive. Much of the land is of limited commercial value and a wide right of way should be acquired.

202. *Elizabeth Lake Canyon and Liebre Mountain Road.*

Above the forest line the park road should follow the valley for some distance above Warm Springs. The entire valley should be held as a reservation and the few private holdings should be publicly acquired. Above Warm Springs the canyon becomes narrow and very crooked and about two and one-half miles from the springs the road should turn westward in a branch canyon to rise to the saddle at its head; then should follow the side of Sawmill Mountain, rising northwestward to the notch between this and Liebre Mountain. This section will involve very heavy construction and need not be considered until the demand for it becomes sufficient to warrant the work or until Liebre Mountain is made a popular recreation camp, but the right of way should be planned and it is possible that a fire road might well be built along the line in an effort to prevent further great fire losses, and that the forest area may recover sufficiently in time from the last great fires to make the route more inviting than it is now.

203. *Liebre Mountain Reservation.*

In the northwest corner of the Angeles National Forest there is a fine rolling mountain top just a mile above sea level, extending for several miles eastward from the Ridge Route at Sandbergs, and having a native forest cover not yet ruined by fire, where a large recreation park somewhat similar in function to the Big Pines Recreation Camp, but radically different in landscape character, might be developed. A

small portion of the hill is privately owned, and should be acquired at once by the public. At the base of the north slope of the mountain, there are attractive small valleys containing some fine oaks and pines and beautiful pastoral scenes that should be made a part of the reservation by acquiring the privately owned lands. Through the reservation a road from the Ridge Route eastward along the top, then branching both ways to descend to Sawmill Mountain Notch would serve to afford access and to open up the interior, and from there westward down the north slope it would afford access to the pastoral lands at the base of the mountain.

204. *Neenach Parkway.*

From Sawmill Notch a park road should follow westward down the north face of Liebre Mountain to meet the old road where it crosses the saddle, then turn northeastward along the old road out Oakgrove Canyon, and follow the Los Angeles Aqueduct eastward into the Antelope Valley, where the large groups of Joshua trees now stand, a distance of eight miles through interesting country and some trees, though the region has recently been terribly devastated by fire.

205. *Neenach Joshua Trees Reservation.*

Near Neenach there is a group of Joshua trees on a sandy plain sloping gently toward the north, several thousand acres in extent. The land now has little value. This is an interesting bit of the desert, within fairly easy reach of Los Angeles, and it can well be preserved unchanged in its natural condition.

206. *Antelope Valley Parkway.*

From the Neenach Joshua trees eastward across the Antelope Valley for a distance of 35 miles a parkway is proposed, to follow along the north edge of the farming district around Lancaster close to the County boundary, and to include a strip of desert land wide enough

to form a foreground of desert conditions and to control some of the views over the valley and surrounding hills. This strip should be 400 to 500 feet wide, and wider where interesting buttes and other features occur, and should extend in places to the edge of Rosamond Lake, usually dry, where fine mirages are to be found. East of Rosamond Lake it should turn southeast toward the big Joshua trees in the Lovejoy Buttes and the bed of Rock Creek.

*207. Lovejoy Joshua Trees Reservation.*

At the eastern end of Antelope Valley and just north of the Rock Creek entrance into the mountains, there is a large expanse of waste desert land, some of which should be included in a reservation to preserve its natural character. The reservation should include the very large Joshua trees, some of the river bed, and some of the buttes that have little value for any economic use but are very picturesque and interesting as landscape features.

*208. Rock Creek Parkway.*

From the Lovejoy Joshua trees to the mountains the route should follow the eastern side of Rock Creek Wash up to a point where it can cross the creek to join the present road into the mountains.

*209. Big Pines Park Road.*

From the mouth of Rock Creek Canyon to Big Pines Recreation Camp a new road has recently been constructed on good lines and grades to serve both as a general highway and as a parkway to the recreation camp. In time this road will have to be widened and it is possible that in places two one-way roads can be made to serve better than a single broad road. As this is primarily a pleasure route special care should be taken to protect the scenery along the way, and any private property that

now exists, should either be acquired, or else restricted against building for some distance back from the road.

*210. Big Pines Recreation Camp.*

To meet the urgent need for big open recreation grounds in the mountains near the city, the County of Los Angeles has wisely acquired a large reservation at Big Pines, containing a variety of most interesting and attractive scenery. This area has been made available to the public by building good roads and by providing shelters, fireplaces, stores and other necessary accommodations. In order to meet the needs of a large number of visitors, some for a day, some for longer, a number of local recreational facilities have been developed and doubtless more will follow.

The success of the camp with its large attendance is leading to serious problems of wear and tear and of congestion. The big pines and firs, among the chief charms of the region, can stand only a limited amount of trampling and cutting and regrading about their roots, and intensive use of the grounds may so affect these trees that they will become weakened and will fall ready prey to the ravages of pests and diseases. Therefore, it may be necessary very soon to limit the use to a part of the grounds under the trees in a way to give others a chance to grow.

Other problems of handling many automobiles and of adding buildings will have to be met. Ingenuity and skill may permit more intensive use without destroying the charm of the place; but in any case there are limits on the amount of use that can safely be permitted. Such conditions are acutely felt now at the Yosemite and among the "big trees" where large crowds gather to enjoy the natural conditions, and by so gathering tend to destroy those very conditions they have come to enjoy.

*211. Rock Creek to Arroyo Seco,  
Ridge Road and Reservations.*

From the existing roads in Rock Creek to

the Arroyo Seco, a distance of over 20 miles, there is now no way to travel through the mountains. Various plans have been considered for roads for through travel, for fire protection, and for access to recreation areas in the mountains. Surveys have been considered for short routes from Pasadena and from Azusa or San Dimas to the desert, and in 1919 a report was made by Mr. J. B. Lippincott to the Automobile Club of Southern California recommending a consolidation of efforts to develop one master road over the ridges between Rock Creek and Arroyo Seco.

Already the State is planning to construct a road up the side of Arroyo Seco to the saddle back of Mount Wilson at Red Box, and the Forest Service has built a narrow road from Mount Wilson through Red Box to Barley Flats and along the ridge from there east and north to Little Pine Flats and beyond. Along that route, one road or two one-way roads, dodging heavy construction and high scars where possible, but passing through the most interesting points and areas, will serve as a parkway, a traffic road, and a means of protecting the forest reservation.

Along this route there are only a few sites, of limited area, suitable for general recreation. Those areas can be made accessible only at very large cost, but have a high recreational value. Plans have been considered by the Forest Service for leasing cabin sites at Barley Flats and for turning over to Pasadena a large area at Little Pine Flats. Those areas will represent actually millions of dollars of value by the time safe and satisfactory roads are completed to them, and they may have very high value for general recreation at that time. Therefore, it is believed that those and other areas along the proposed roadway should be reserved for the general public and be developed under such plans as may produce the most general benefit rather than be devoted to private cabin sites. Possibly small sites in those areas should be leased to cities or clubs for special develop-

ment in such a way as to start activities and encourage their use.

All private holdings along this route should be publicly acquired now in advance of road building before high values in them may have been created at public expense.

#### *212. Crystal Lake Reservation.*

The County has recently acquired a reservation of 1,290 acres around Crystal Lake to include the fine canyon basin and pine groves. A road is being built into the basin and development is proposed for this area. A considerable plant for recreational purposes will be needed here and it is possible that under a carefully designed plan a complete plant can be developed in a way to preserve the natural charm of the basin and still to make adequate provision for the needs of the people. Such a plan should be made with much care, to avoid possible wasteful and destructive changes that otherwise may prove necessary later, and to preserve as much as possible of the natural charm.

#### *214. Devil's Canyon Road.*

From Crystal Lake a road is being built down the canyon to Coldbrook Camp and beyond. Below Coldbrook this road may be cut off by a San Gabriel Reservoir and a new road will be needed to the east fork of the San Gabriel. Such a road probably can best cross from near Coldbrook to the head of Devil's Canyon; then drop down across the cliffs of the ridge to Iron Canyon, and down Iron Canyon to the floor of East San Gabriel Gorge, though such a route will involve heavy construction through extremely rugged country.

#### *215. Big Pines—Vincent Gulch and Little Dalton Canyon Road.*

Portions of a road are now being built that will make a fairly direct route between Big Pines Camp and San Dimas, running over Blue Ridge from the camp, then dropping to



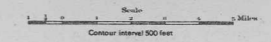
U. S. DEPARTMENT OF AGRICULTURE  
 FOREST SERVICE  
 W. B. GIBBLEY, FORESTER

# ANGELES NATIONAL FOREST

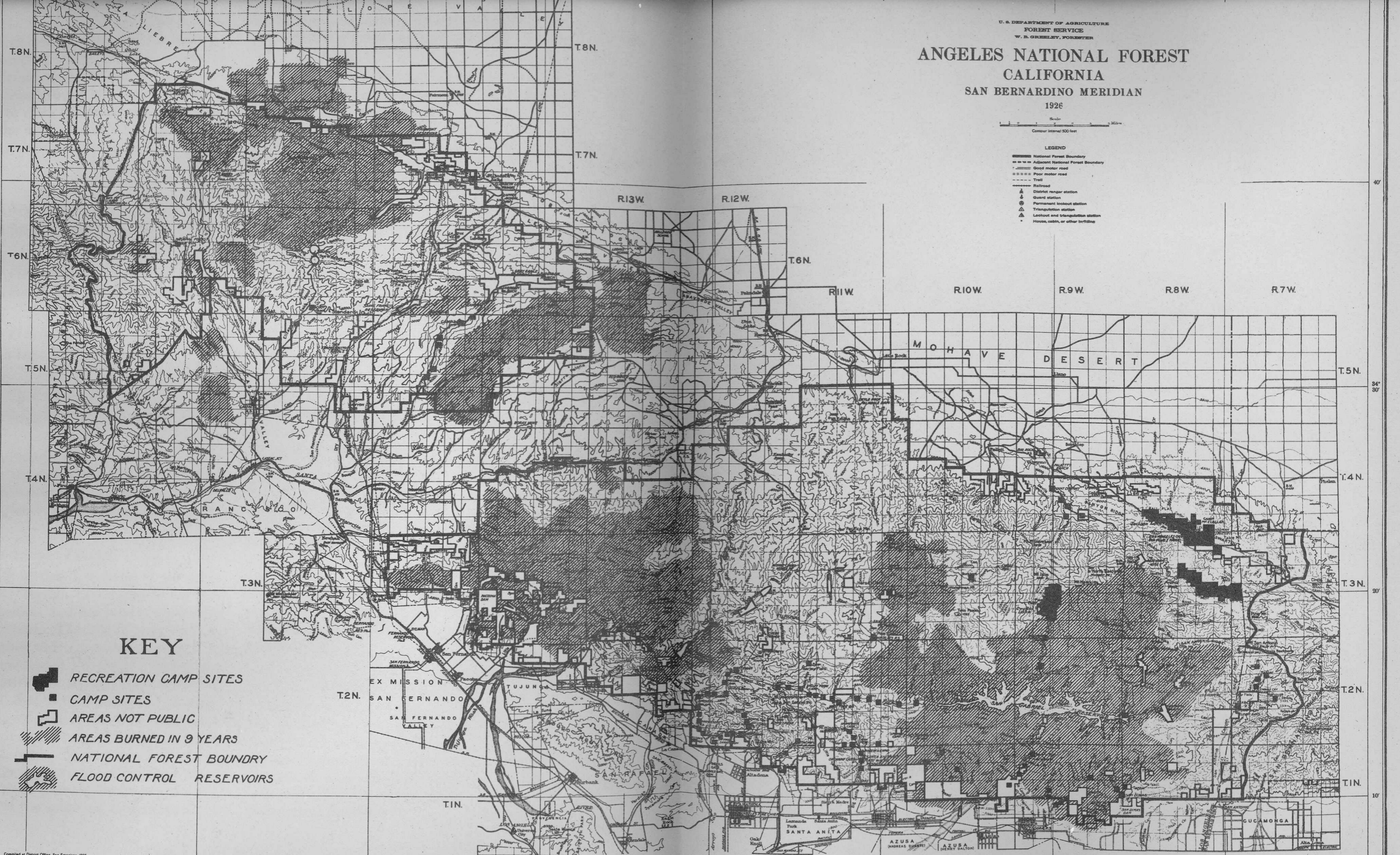
## CALIFORNIA

### SAN BERNARDINO MERIDIAN

1926



- LEGEND**
- National Forest Boundary
  - - - - - Adjacent National Forest Boundary
  - Gravel motor road
  - Paved motor road
  - Trail
  - Railroad
  - ▲ District ranger station
  - Guard station
  - Permanent lookout station
  - △ Triangulation station
  - ▲ Lockout and triangulation station
  - House, cabin, or other building



### KEY

- RECREATION CAMP SITES
- CAMP SITES
- AREAS NOT PUBLIC
- ▨ AREAS BURNED IN 9 YEARS
- NATIONAL FOREST BOUNDARY
- ▨ FLOOD CONTROL RESERVOIRS

Compiled at District Office, San Francisco, 1926  
 from U. S. G. S. G. L. O., Forest Service, and  
 other sources.

the Pass at the head of Vincent Gulch, then down the gulch and the gorge of the San Gabriel to the head of the proposed San Gabriel Reservoir. From there the road should turn westward to rise around the basin of Horse Canyon and to cross the front range; then to wind down the head of Little Dalton Canyon and to connect with roads already built up the canyon.

*216. Camp Seeley.*

25 acres in San Bernardino National Forest.

*217. Camp Radford.*

82 acres in San Bernardino National Forest.

*218. Camp High Sierra.*

160 acres in Inyo National Forest.

*219. Camp Oak Flats.*

18 acres in Angeles National Forest.

These four camps operated by the City of Los Angeles are designed to serve vacationists and campers primarily, and are located far from the city, where attractive conditions exist.

*220. San Clemente Island.*

The Island of San Clemente is 50 miles south of Point Fermin. It belongs to the National Government and has been reserved for lighthouse purposes. The island, 20 miles long and 3 to 5 miles wide, contains about 50,000 acres. It is now leased for sheep grazing and the steeper, attractive north slopes are being badly eroded, due to trampling and grazing. The entire island should eventually be used for a public pleasure resort. There is no water on the island, but a reservoir can be built in one of the larger canyons to hold enough water for domestic uses. Bathing beaches and a fine small harbor at the southeast end offer chance

for bathing and boating. The larger area could be treated as a game and bird preserve.

*221. Angeles National Forest and Miscellaneous Areas Therein That Should be Acquired.*

The Angeles National Forest contains in all 690,540 acres, of which 670,682 acres lie in the County. This area includes 41,622 acres that have been alienated, leaving 629,060 acres of public lands. About two-fifths of this area is in the forest above Saugus and three-fifths in the nearer section. Most of the areas alienated are held as water preserves, but there are a number of small areas in private hands that should be publicly acquired to protect the reservation for general recreation. In all, about 2,255 acres of such holdings have been listed by the United States Forest Service as likely to lead to undesirable development or usage if not so acquired, and these should be acquired at once by the Los Angeles Region, since the Forest Service is not now in a position to acquire them, and since it is mainly for the service of the people of the Region that they are needed.

*222. Santa Catalina Island.*

The westerly end of Santa Catalina Island is now unused and is of limited commercial value. The isthmus and its small harbor, with the nearby slopes on the east and with the westerly end of the island, might well be acquired as a public reservation to be developed when demand is sufficient to warrant the necessary expense.

ESTIMATE OF COSTS

An estimate has been made of the probable cost of acquiring and of improving all of the above listed units, based on the present sales values of property near each unit, and on the amount of work deemed justifiable to make each unit available to the public. These estimates are as follows:

[ 94 ] PARKS, PLAYGROUNDS AND BEACHES FOR THE LOS ANGELES REGION

	<i>Length Miles</i>	<i>Area in Acres</i>	<i>Cost of Acquisition</i>	<i>Cost of Improvement</i>	<i>Total Cost</i>
A. Large Reservations in Forests.....	14.0	19,745	\$140,000	\$ 800,000	\$ 940,000
B. Large Reservations in Desert.....	10.0	7,500	110,000	200,000	310,000
C. Island Reservations.....	-----	60,000	100,000*	500,000	500,000
D. Connecting park roads in Forests.....	97.0	-----	50,000	9,000,000	9,050,000
E. Connecting park roads not in Forests.....	81.0	4,800	300,000	2,300,000	2,700,000
F. Public Camps in Mountains.....	-----	285	-----	-----	-----
	202	92,330	\$700,000	\$12,800,000	\$13,500,000

\*The cost of acquiring the islands must depend on negotiations, possible concessions or gifts and other factors; therefore, only a nominal figure is used here.

On the basis of the above figures a relatively small amount of money is needed for the acquisition of lands, while a large amount is needed for road building and making the areas available for use, especially in the mountains. The improvements may be made gradually over a long period of years. Doubtless a con-

siderable share will be paid by the State Division of Highways and the National Forest Service, and many of the roads will be built by the County, whether a systematic park program is adopted or not. But many of the land acquirements are now urgent.

## CHAPTER VIII

### RECOMMENDATIONS FOR PLEASUREWAY PARKS OR PARKWAYS AND RELATED LARGE PARKS

THE most extensive and possibly the most urgently needed class of park and recreation facilities recommended for the Los Angeles Region is that of parkways and related large parks. The general considerations controlling this group of subjects, the meaning of the term "pleasureway parks" or parkways, as used in this report, and the extraordinary importance of such parks to a metropolis of the automobile age and particularly for Los Angeles, are set forth in Chapter I, pages 12-14. Their relation to flood control and water conservation problems is discussed in Chapter I, page 14. The general character of such parks and the contrast between them and more or less decorated highways to which the terms "boulevard" and "parkway" are often applied, are indicated by the illustrations (Plates 4, 5, 53 and 56).

Westchester County, in the New York Region, offers the most up-to-date example in this sort of development, which is everywhere becoming urgent in response to the demands of a new age. It had in 1927 a length of approximately 140 miles of parkways in a total county area of less than 450 square miles, with 5.6 per cent its total area in parks, mainly of this type. Westchester County occupies a position corresponding to the outer parts of the Los Angeles Region, having an average density of population in 1927 of a little less than two per acre, but directly in the tide of outer suburban residential development of the bet-

ter sort. What this would mean in the Los Angeles Region is suggested in a diagram (Plate 44).

Elsewhere in the New York Region and in many other metropolitan regions—such as Boston, Cleveland, Chicago, Minneapolis, Kansas City, Seattle, Portland, Oregon, and Portland, Maine—there are excellent examples of real parkways; and in most metropolitan regions there are intermediate types shading off gradually from real parks, through admirable but generally narrower and more citified parkways, both informal and formal, to so-called parkways and boulevards which are but slightly glorified streets.

In creating any extensive system of parks in a region like that of Los Angeles where urban and suburban growth has been active, critical places are almost inevitably encountered through which it is of the utmost importance to secure a reasonably pleasant and convenient connection but where the cost or physical difficulties of securing a parkway really worthy of the name would be prohibitive. There it is the part of wisdom to introduce a different sort of link in the chain, good of its sort but different. An occasional narrow neck of no appreciable length with ample widenings on either end of the neck need not impair the park-like quality at all. Much irregularity of boundaries is in fact desirable as facilitating the introduction of many special features of park value which could nowhere be secured if the width were

less fluctuating. A general trimming down of width for considerable distances, however, would result in an unprofitable compromise, costing as much but less effective than if part of the length were an adequate park, with good scenery and opportunities for many park functions besides mere driving through, and the rest were a narrower parkway of a frankly different type. Some cross sections at various parts of the proposed system have been made to illustrate what should be done (Plate No. 48).

There is no standard for the amount of area that should be devoted to large parks in any one region, to say nothing of real parkways, which are a peculiarly modern need that has only recently begun to be met. But the lack of large parks in most sections of the Los Angeles Region and the absolute lack of real parkways, is evident (See Plate No. 17). In the 1,500 square miles of the Region, there are now 33 parks of over 25 acres each, and only 12 of these are of more than 100 acres. The 12 have an aggregate area of 7,539 acres, or about one-half of one per cent of the total area of the region, and even then approximately half the acreage consists of steep and rugged mountain lands in Griffith, Elysian and Brand Parks.

In the large central urban area, approximately 20 miles in diameter, where most of the people live, there is now but one possible parkway extending east and west through Elysian and Griffith Parks, and but one route north through the Arroyo Seco that possibly can be extended southward from Elysian Park to the Baldwin Hills. In this urban area, there are a large number of radial streets leading out in various directions, many of which have been designated as "boulevards" and on some of which an effort is made to maintain trees and to keep the routes attractive, but the general demand for very wide pavements for large volumes of traffic has been so great that most of these interior routes have been paved for almost their entire width, and very little space is left for planting.

Therefore, most of the travel originating within the urban district must probably continue in the future as it has in the past, to find its way through existing highways out to the regions in which parks and parkways can reasonably be established, and travel from the outside must either find its way around the city through the proposed parkway system, or cross through the center by the ordinary highways, even though this area, 20 miles in diameter, contains the people most in need of access to park facilities, and is nearly as large as the region in which the entire Boston system of City and Metropolitan Parks has been developed (See Plate No. 45).

The plans as proposed contemplate the acquisition of a relatively large amount of land, but the areas have been selected, so far as possible, to use much land which, though less valuable for commercial, industrial, or residential use, has great value for park and recreation purposes.

The total area of this proposed regional system of parkways and large parks, including 16,000 acres of existing publicly owned parks, water lands, and similar areas is approximately 70,000 acres, and the aggregate length of the proposed routes is 440 miles. Seventy thousand acres is a large amount of park land, but, looking to the future of this extraordinary region, it seems entirely reasonable. It is only about  $7 \frac{1}{3}$  per cent of the total area of the region. This percentage would be almost imperceptibly increased by including the limited area of the beaches, which cannot be precisely expressed in acres because of their indefinite outer boundary, while the gradual increase, with the spread of population, of local playgrounds and other strictly local recreation areas, not included in this regional system, might be expected ultimately to increase the percentage a few points further. The islands, deserts, forests and mountains with relatively large acreages for recreation, lie wholly outside the Region.

As an *objective*, and for a metropolis that is



Map of the Los Angeles Region with the Westchester County park system superposed in red to show what that system of parks and parkways would be like in this region. Boundaries of Westchester County are shown by a broken line. (Base map by courtesy of Auto-Club of Southern California.)

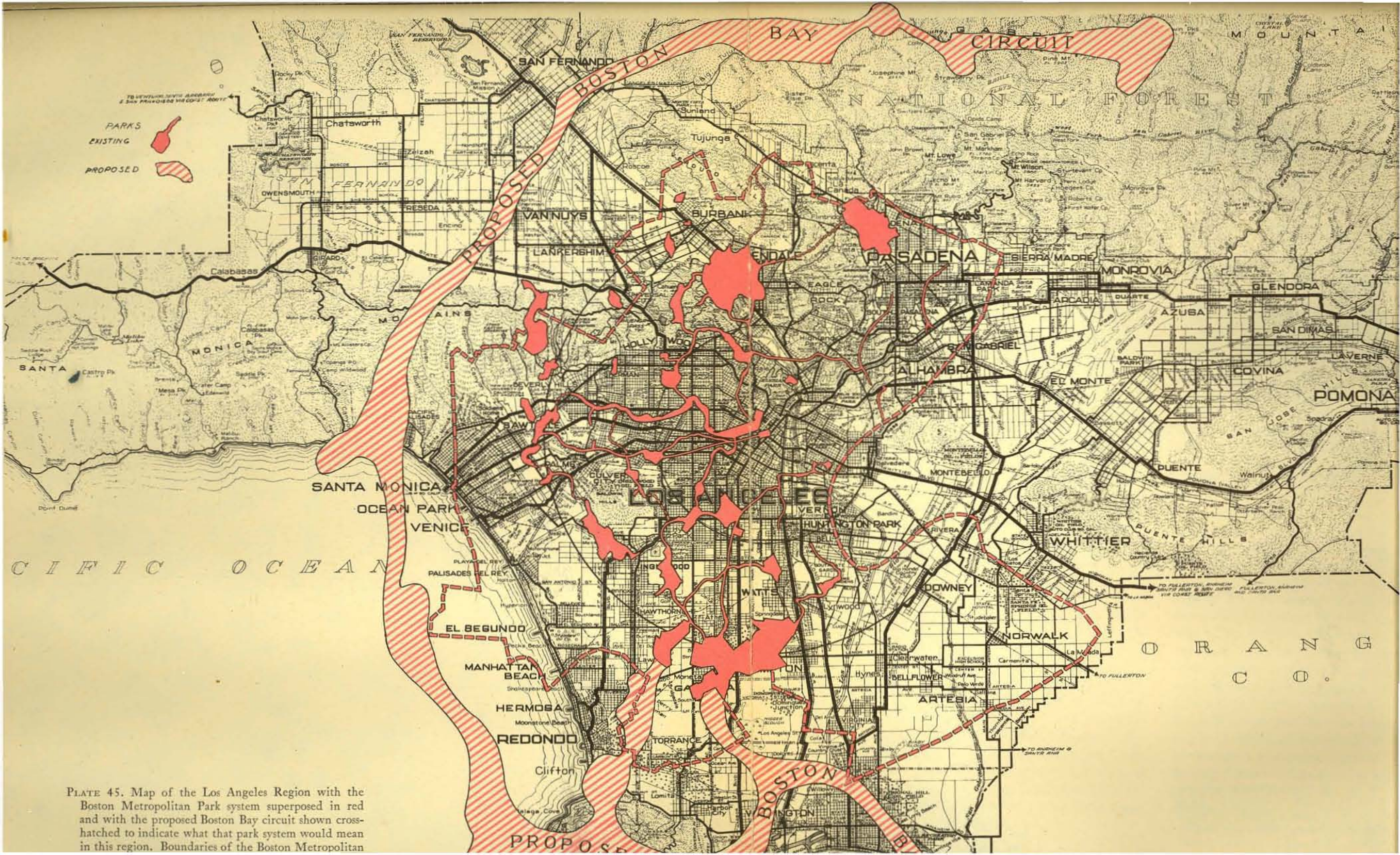
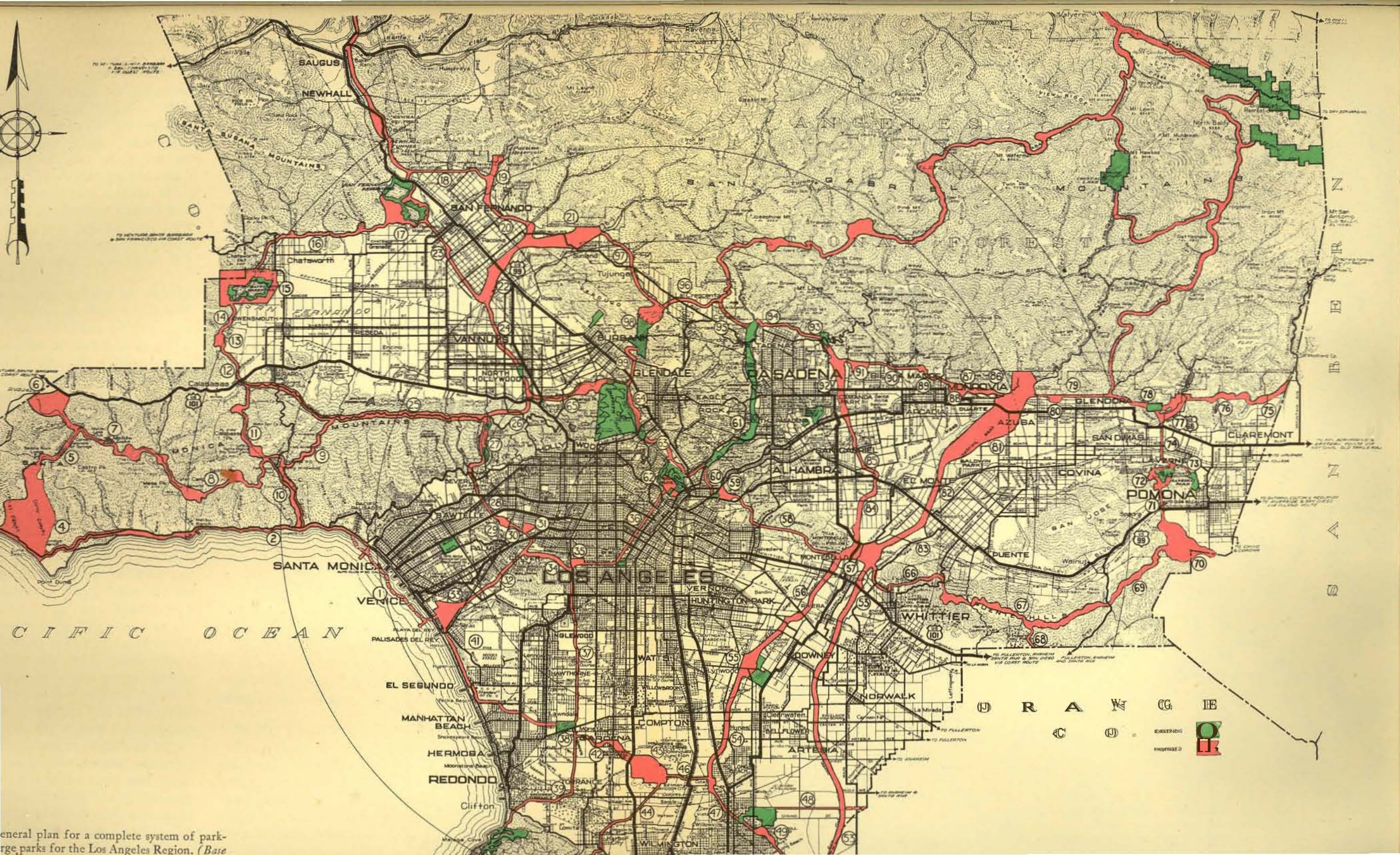


PLATE 45. Map of the Los Angeles Region with the Boston Metropolitan Park system superposed in red and with the proposed Boston Bay Circuit shown cross-hatched to indicate what that park system would mean in this region. Boundaries of the Boston Metropolitan



General plan for a complete system of parks and large parks for the Los Angeles Region. (Base



growing up under 20th century conditions, with the special urge to outdoor recreation which the people of the Los Angeles Region must feel, compare this with the fact that Chicago *already has* within Cook County over 6 per cent of the total area in parks; that Greater New York *already has* 5.5 per cent in parks; and that three adjoining counties of the New York Metropolitan District *already have* from 4.9 to 5.6 per cent in parks (from 5.8 to 13.4 per cent in parks and municipal watershed lands combined); and that they are all diligently striving for more.

In the following pages there are descriptions, unit by unit, under numbers which refer to the accompanying map (Plate 46), of a proposed complete system of parkways and associated large parks for the entire region, such as appears reasonable in connection with the other types of units discussed in other chapters. The proposed system is grouped chiefly along three main east and west routes and six north and south routes as follows:

### THREE EASTERLY AND WESTERLY CHAINS

#### *The Mountain Chain:*

Extending along the base of the mountains from the Newhall Tunnel to the eastern County line and connecting with all roads into the mountains, it is in large part placed high enough on the slopes to be above most of the urban development, so as to command superb views over the plains and cities, and should be always *wide enough* to keep forever open in park areas the foregrounds of these views as seen from the main roadway. The parks in this chain in places directly adjoin the Angeles National Forest lands and constitute an extension or rectification of the present southerly forest boundaries. Elsewhere they leave considerable private lands above them. But any private lands, either above or below, should front upon separate border roads or other supplementary roads and *not* crowd in upon the

main roadway. The units along this chain are Nos. 18 to 21, 75 to 80, and 86 to 97.

#### *The Coast Chain:*

Along or near the coast from Ventura County to and into Orange County, designed to meet requirements for through pleasure travel and for pleasant following of the shores, the value of this chain will depend very largely upon the amount of public control of lands lying between the roadways and the sea. From El Segundo to the east end of Long Beach this route is inland, passing through Nigger Slough and over Signal Hill to connect the best points of interest along the route. The units along this chain are Nos. 1 to 3, 33, 38, 41, 43 and 46 to 52.

#### *The Hilltop Chain:*

From Triunfo to Pomona along the Santa Monica Mountains, Griffith, Elysian and Lincoln Parks, the Montebello Hills and Puente Hills, a scenic middle route connecting a large number of points of interest and tapping a large number of urban streets. This route commands some of the finest views into the mountains and over the plains and cities. It includes units Nos. 6 to 9, 25 and 26, and 57 to 60, and 62 to 74.

### SIX NORTHERLY AND SOUTHERLY CHAINS

#### *The San Gabriel Chain:*

From the mountains to the sea along the San Gabriel River, a route having the advantage of following the drainage channel. This includes units Nos. 53 and 81, 82 and 83.

#### *The Rio Hondo and Eaton Wash Chain:*

From the mountains to Long Beach near the sea, parallel to and just west of the San Gabriel Chain, this route taps the cities on its borders and benefits by following the large drainage channels with their points of interest. This chain includes units Nos. 54 to 57, 84, 85 and 92.

*Arroyo Seco and Palos Verdes*

*Loop Chain:*

From the mountains to the sea through the heart of the city. This chain follows the present large public holdings in the Arroyo Seco and Elysian Park with a proposed extension through Exposition Park to the slopes of Baldwin Hills, and from there south to the sea at Palos Verdes, with a loop around the Palos Verdes shores and back to Nigger Slough, tapping the heart of the city and affording a pleasant outlet in both directions for a very large population. This chain includes Nos. 35 to 40, 44 and 45, 61 and 62.

*Tujunga Valley and Ballona*

*Creek Chain:*

From the mountains to the sea over the Santa Monica hills. This chain follows the

wash and valley of the Tujunga to a favorable place to cross over the hills, dropping down along the Franklin Canyon Reservoirs to cross the west side of Beverly Hills along the various Golf Courses to the Baldwin Hills, then to follow Ballona Creek to the Ballona Slough at Del Rey. It includes units Nos. 21 to 24, and 26 to 33.

*Newhall, Chatsworth and Topanga Canyon Chain:*

Also from the mountains to the sea. This chain passes the two large reservoirs, skirts the head of San Fernando Valley to pass over the Santa Monica hills and down Topanga Canyon. It includes a number of points of interest and forms an important route. It includes units Nos. 10 to 17.

*Dume Canyon Chain:*

From Ventura Boulevard at Triunfo across

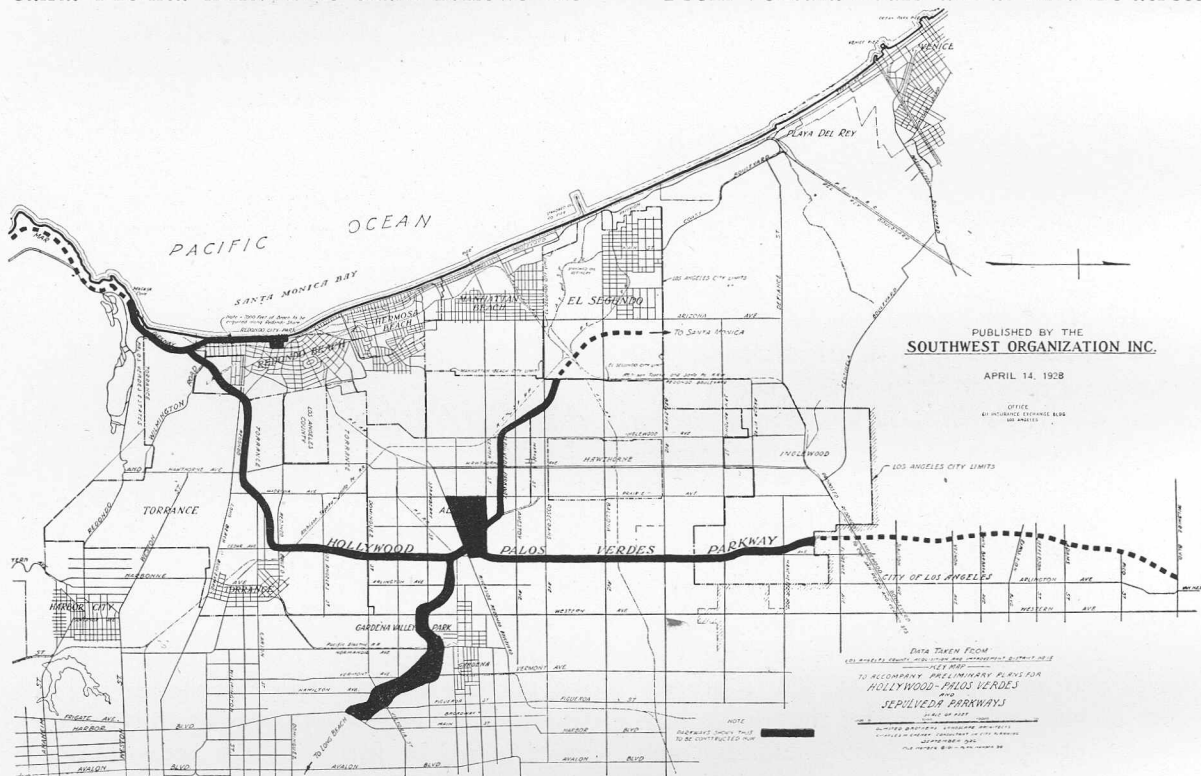


PLATE 47. Parkway from Los Angeles to Palos Verdes now being planned by the County as the first real parkway in the Los Angeles Region; the plan shows also Alondra Park in the center and the proposed Sepulveda Parkway and Gardena Valley Park across the center.

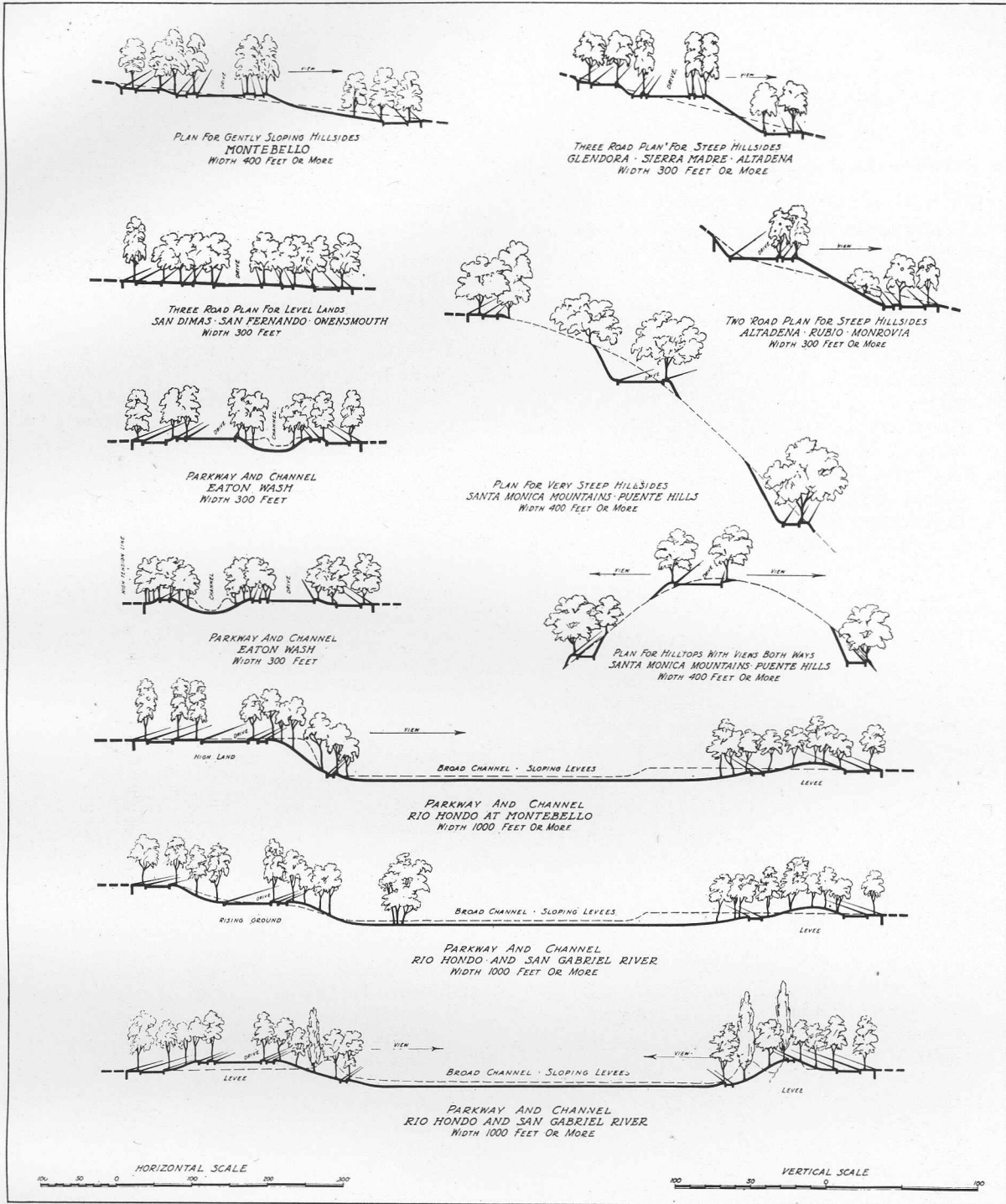


PLATE 48. Typical sections for parkways, showing how various slopes may be treated in a way to produce interesting variety and to protect good views and interesting scenery.

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the westerly end of the Santa Monica Mountains to the proposed large terminal park and beach reservation in Dume Canyon. This chain includes Nos. 4 and 5.

SUMMARY OF RECOMMENDATIONS

The areas considered have been numbered for convenience as approximately 100 units and these have been grouped and classified as follows:

Class	Length Miles	Area Acres
A. Shore Front Roads and Park Areas	36.5	6,690
B. Large Upland Reservations	87.5	30,575
C. Large Drainage Basin Reservations	34.3	11,600
D. Narrower Drainage Basin Reservations	53.9	6,270
E. Connecting Parkway	214.0	11,560
F. Enlargements specially valuable for athletic fields, golf, etc.	13.8	4,515
TOTALS	440.0	71,310

LIST OF PROPOSED PARKWAYS AND RELATED LARGE PARKS

Giving the approximate width, length and area of each, together with the class of purpose for which it is recommended, and numbered as on the General Plan (Plate No. 46).

	Approx. Width in Feet	Length in Miles	Area in Acres	Class
1. Venice and Santa Monica Shore Parkway (land now public)	200-400	7.0	40	A
2. Lower Malibu Coast Parkway (partly in existing highway)	200-400	15.0	350	A
3. Upper Malibu Coast Parkway (partly in existing highway)	200-400	4.0	100	A
4. Dume Canyon Park (including 464 acres U. S. water lands in Ramirez Canyon)		6.0	4500	B
5. Dume Canyon Parkway and Cliffs	400-7000	6.0	2000	E
6. Russell Valley Park		2.0	1400	B
7. Triunfo Canyon Parkway and Cliffs	400-2500	9.0	2200	C
8. Saddle Peak Parkway and Reservation	300-3500	12.0	1000	E
9. Topanga-Mulholland Parkway	300-600	5.0	250	E
10. Lower Topanga Canyon and Cliffs (now highway)	500-1500	5.0	500	E
11. Old Topanga and Dry Canyon Parkway and Cliffs (now highway)	300-2500	6.0	300	E
12. Calabasas Parkway	300	2.3	80	E
13. Escorpion Park		1.1	300	B
14. Escorpion Parkway	300	1.7	60	E
15. Chatsworth Reservoir Park (1170 acres now public)		2.6	2700	B
16. Chatsworth Parkway	300	9.3	500	E
17. San Fernando Reservoir Park (1154 acres now public)		7.7	2750	B
18. San Fernando Parkway	300	4.9	180	E
19. Pacoima Wash Reservation (partly for drainage and percolation)		2.1	400	C
20. Pacoima Parkway	300	3.0	250	E
21. Tujunga Valley Park (partly for drainage and percolation)		4.5	1400	C
22. Tujunga Wash (partly for drainage and percolation)	1200-3500	4.9	1300	C
23. San Fernando Mission Parkway (partly for drainage)	150-400	4.7	190	E
24. Lower Tujunga Parkway (partly existing parks)	300-1200	6.0	530	E
25. Mulholland Parkway (now a highway)	300-600	17.0	500	E
26. Mulholland-Tujunga Parkway	200-600	3.0	150	E
27. Franklin Reservoir Reservations (322 acres in reservoir)		5.0	500	E
28. Beverly Hills Parkway	200-300	4.0	60	E
29. Culver Park Reservation		1.0	150	B
30. Culver Connection	225	0.5	10	E

	Approx. Width in Feet	Length in Miles	Area in Acres	Class		Approx. Width in Feet	Length in Miles	Area in Acres	Class
31. Culver Recreation Field		0.2	160	F	49. Signal Hill Park and Parkway		6.0	400	B
32. Ballona Creek Parkway (part for drainage)	600-1000	5.9	430	D	50. Long Beach Recreation Park (now public 400 acres)		3.0	420	B
33. Del Rey Park and Bird Refuge (part for drainage) (549 acres in Gun Clubs)		2.0	1000	A	51. San Gabriel River Mouth (Partly for drainage)	1000	2.3	300	D
34. Baldwin Hills Parkway	225-600	3.2	90	E	52. Bolsa Chica Park Reservation, Bird Refuge and Beach (Outside County limits) (2200 acres in Bolsa Chica Gun Club)		5.5	5000	A
35. Rancho Cienega Recreation Field		0.5	125	F	53. Lower San Gabriel River Parkway (partly for drainage)	1000	17.2	2300	D
36. In-town Parkway (including Exposition Park 114 acres)	200-300	8.0	350	E	54. Lower Los Angeles River Parkway (partly for drainage)	1000	6.8	830	D
37. Inglewood Parkway (Plans for acquisition now being completed for southerly portion)	225-300	8.2	225	E	55. South Gate Recreation Area		1.7	670	F
38. Alondra Park (now public)		0.5	315	B	56. Lower Rio Hondo Parkway (partly for drainage)	1000	6.4	800	D
39. Alondra-Palos Verdes Parkway (Plans for acquisition now being completed)	225	8.3	250	E	57. Whittier Narrows Recreation Park and Drainage Basin		6.0	1250	F
40. Palos Verdes Coast Road (now in part dedicated)	170-300	9.0	200	A	58. Montebello Parkway	225-400	12.5	270	E
41. Alondra-Del Rey Parkway	200	9.1	250	E	59. Lincoln Park and Recreation grounds (46.0 acres in existing Park)		0.7	230	F
42. Gardena Valley Park and Parkway Reservation (Plans for acquisition now being completed)		3.9	500	B	60. Lincoln-Arroyo Seco Parkway	225	1.8	50	E
43. Nigger Slough Reservation (part for drainage)		3.0	2000	B	61. Arroyo Seco Park and Parkway, including—Sycamore Grove, 15 acres; Victory Park No. 1, 160 acres; Victory Park No. 2, 187 acres; Lower Arroyo, 70 acres; Arroyo Seco, 90 acres; Brookside, 521 acres; Oakgrove and water lands, 334 acres	1377	11.0	1420	B
44. San Pedro Parkway	225	10.0	300	E					
45. San Pedro Hills Reservation		2.1	800	B					
46. Dominguez Ranch Parkway	225	2.6	70	E					
47. Los Cerritos Parkway		3.0	150	E					
48. Bixby Ranch Parkway and Reservation (including 680 acres water and airport lands of Long Beach)	225	5.3	780	E					

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	<i>Approx. Width in Feet</i>	<i>Length in Miles</i>	<i>Area in Acres</i>	<i>Class</i>		<i>Approx. Width in Feet</i>	<i>Length in Miles</i>	<i>Area in Acres</i>	<i>Class</i>
62. Elysian Park (600 acres now public) -----		3.0	1020	B	79. Glendora-Azusa Parkway -----		4.2	150	E
63. Los Angeles River Parkway -----	250-500	2.8	50	E	80. Azusa Golf Grounds Site -----		0.5	120	F
64. Griffith Park and adjacent areas (including Griffith Park, 3752 acres; water lands, 443 acres; water lands, 43 acres; water lands, 24 acres; water lands, 42 acres; Playground, 20 acres; total 4324 acres -----		4.0	4330	B	81. San Gabriel Wash Reservation (partly for drainage and percolation) -----		7.2	5000	C
65. Upper Los Angeles River Parkway (also includes drainage channel) -----	225-1500	4.0	500	E	82. Upper San Gabriel River Parkway (partly for drainage) -----	1000-1200	5.5	750	D
66. Turnbull Ridge Parkway -----	225-400	5.3	210	E	83. San Gabriel River Golf Grounds -----		0.5	360	F
67. West Puente Hills Parkway and Reservation -----		12.9	1700	B	84. Upper Rio Hondo Parkway (partly for drainage) -----	1000	3.2	500	D
68. La Habra Connection 300 -----		1.5	50	E	85. Eaton Wash Parkway (partly for drainage) -----	300-400	6.6	360	D
69. East Puente Hills Parkway and Reservation -----		4.9	620	B	86. Monrovia-Mt. Olivet Parkway -----		1.7	190	E
70. Pomona Basin Reservation -----		3.0	2400	B	87. Monrovia Parkway -----		2.1	80	E
71. Pomona Parkway 225 -----		1.3	35	E	88. Monrovia Golf Grounds Site -----		0.5	250	F
72. Puddingstone Reservoir Park (500 acres now in flood control basin) -----		2.8	1700	B	89. Santa Anita Canyon Park and Parkway -----		1.5	220	B
73. Ganesha Parkway -----		4.2	90	E	90. Sierra Madre Parkway (including 70 acres of public water lands) -----	300	3.8	140	E
74. La Verne Parkway 225 -----		1.9	50	E	91. Sierra Madre Golf Grounds Site -----		0.2	250	F
75. San Antonio Cone Reservation (partly for drainage and percolation) -----		1.7	200	C	92. Eaton Canyon Wash Reservation (partly for drainage and percolation) -----		2.8	500	C
76. Live Oak Park and Parkway -----		3.8	500	B	93. Mt. Rubio Parkway 300 -----		1.7	70	E
77. San Dimas Cone Reservation (partly drainage and percolation) -----		2.1	600	C	94. Altadena Parkway 225 -----		1.9	50	E
78. Glendora-San Dimas Park and Parkway (96 acres now in parks) -----		3.4	165	E	95. Arroyo Seco Canyon Parkway to Angeles Mountain Road 300 -----		3.0	100	E
					96. La Canada Parkway 300 -----		1.7	85	E
					97. Verdugo Creek-Tujunga Parkway 300 -----		5.0	300	E
					98. Whiting's Woods and Brand Park Reservation (park now 616 acres) -----		4.0	1100	F
					99. Glendale Parkway 225 -----		2.0	100	E

## DETAILED RECOMMENDATIONS

These areas, numbered geographically and not in their order of relative urgency or importance, are described briefly below according to the numbers assigned them.

1. *Venice and Santa Monica Shore Parkway.*

Much of the shore at Venice and a part of that at Santa Monica is now owned by the public to a line just above extreme high-tide line in a way to provide considerable space for bathing and beach recreation, but not wide enough to provide for long-shore pleasure travel. The land under water is publicly owned, and can be developed when the need becomes sufficiently urgent. If groins or underwater longitudinal breakwaters are built, the upland can be widened seaward onto the shallow areas far enough to provide some space at least for pleasure travel parallel to the shore along the fronts of private property. A possible scheme is shown on Plate No. 31. Such a plan would have the objectionable feature, however, of introducing a busy thoroughfare between users of the beach and users of adjacent buildings. Another possible plan that would involve heavy cost but that may in time be justified as already suggested under beaches (Chapters I and V) would be to extend a mole out to sea at the Del Rey marshes and to carry it along two to four thousand feet outside the bathing beaches parallel to the shore, where the water is now 25 to 40 feet deep, to meet the shore again above the private holdings of Santa Monica. Such a plan if developed upon a generous scale, would enclose a large pleasure harbor, would provide relatively still water for bathing, would carry through travel around outside the throngs of beach users and would provide a considerable parking space for autos as well, out of the way of the beach crowds. Bridges in the mole could be made to permit free flow of tides and afford access to small pleasure boats. An outer harbor

has been suggested above the pleasure bay that would care for sailboats and other craft too large to pass under the bridges. As a feature in the general long-shore travel, such a mole would also have great value.

2. *Lower Malibu Coast Parkway.*

From Santa Monica westward to Dume Canyon, the State has acquired a right of way near the shore and has opened a thoroughfare that is destined to be a busy one, especially on holidays and Sundays. This thoroughfare, designed to carry a large volume of traffic, now has an 80 foot right of way for most of its length. It is designed for a single roadway, in a relatively narrow belt of lowland. It extends to publicly owned tidelands on the seaward side in only a few places; there are almost no side roads above it into which parking of cars or congestion of traffic can be diverted, and there is little chance for such roads or areas to be developed because of the cliffs above the road for much of its length.

Most of the pleasure travel that will follow this route will be attracted by the cool sea breezes, the hope of enjoying sea views and the desire to travel along the coast or to stop at the beaches. More than this 80 feet of width will soon be needed, and should be provided. Where the highway is near the shore, few if any buildings should be permitted to interfere with the enjoyment of this route. Where the highway is farther back, private property can be left to develop; but the right of way should be wide enough to permit widening the roads very materially in the future, or possibly creating two or three separate roads for division of traffic either by classes or in one-way roads.

Already the creation of the roadway has led to much activity in use of the adjacent lands and to large increase in land values, and soon this development will create a serious obstacle to any possibility for widening. A right of way 200 feet or more in width would protect the public traffic and pleasure needs for all time; and this, in connection with the acquisition of



PLATE 49. Airplane view of Dume Canyon and Dume Point, showing in dash the Rancho line and in solid line the areas including the beach, the mesa near the shore, the hill slopes and the peak suited for development of a fine oceanside park, and showing United States land in Ramirez Canyon that should be included. (Photo by Fairchild.)

such frontage as may be needed for beach uses, should be accomplished now before further increase in developments is permitted. The County now owns a number of remnants of roadway along parts of this route that might well be exchanged for additional width in the main shore road.

### 3. *Upper Malibu Coast Parkway.*

Above Dume Canyon, still within the County limits but more remote from the Metropolitan District of Los Angeles, the highway follows the coast for a part of the way, then runs farther inland on the coastal mesa. In this re-



gion also a widening of the right of way should be made to 200 feet or more, or the route should be doubled for the same reasons as for Section 2, and in this section State aid may be available both for that part lying within the County and for the part following the shore in Ventura County.

#### *4. Dume Canyon Park.*

Northwest of Point Dume at Zuma Beach there is a fine shore, about three miles of sandy beach, with the highway just above the storm tide-line, and above this beach the coastal mesa widens out enough to afford space for a fine water-front park having the advantages of the cool ocean-front climate. It is at a reasonable distance from the city for a large terminal reservation; it contains beautiful trees, canyons, and gentle slopes, where park and recreation features in great variety can be developed; and back of this mesa the hills rise to prominent points offering reasonable opportunity for hill climbing and more vigorous exercises, with fine scenery.

The area as a whole is surrounded by natural boundaries that should be recognized, and on the east the United States now has a reservation under lighthouse control in Ramirez Canyon that should also be acquired, and, subject to Government requirements, be made a part of the reservation.

To acquire the beach and mesa land will doubtless prove costly, but the hills and mountain lands comprising possibly  $\frac{2}{3}$  of the total area are of limited value. The entire project, properly developed, would be of enormous value to great numbers of pleasure-seeking, auto-driving people who will come from the cities and all the inland regions, as well as to visitors from afar. Once acquired, the land may well be held for the present largely as a reservation open to the public. Buildings can be added, conveniences developed and various types of usage encouraged by improvements, as the demand may warrant.

#### *5. Dume Canyon Parkway and Cliffs.*

From the proposed park above described there should be a cross road leading inland. This should climb the hills above Dume Canyon and should be kept attractive by the preservation of the canyon slopes below and the hill slopes above. In the small basin at the upper end of Dume Canyon, subdivision has started. The valley is so attractive that it would be desirable to preserve this basin also, but that may not prove feasible. The lower end should be 7,000 feet or more in width to include all of Dume Canyon, but at the head of the canyon this can be reduced to 300 or 400 feet, and from there to Triunfo Canyon the road should drop down Sierra Canyon in a reservation that need not be over 300 to 400 feet wide in places, but up to 1,000 feet in others. The land should be acquired now before further improvements are started. The boundaries should preferably follow either ridge lines or be high enough to protect views from proposed roads, in which case they can well be placed on lines where boundary roads may eventually be developed.

Dume Canyon is narrow and very rugged, with high cliffs especially on the east. There are huge boulders in the bottom of the canyon, with sycamores in the lower reaches and fine oaks in the upper end. La Sierra Canyon is more like a broad basin, less picturesque and not so interesting, but is well clothed with shrub growth and has ample room in which to construct a satisfactory parkway, although there is already some inexpensive development along the route.

#### *6. Russell Valley Park.*

In the northerly corner of the west end of the County, the head of Russell Valley with rolling plains and open areas and with fine oaks offers a place where an inland rural park reservation of large proportions may well be set aside, a space where golf, horseback riding, ball fields, picnics and camping can be encouraged with ample open surroundings. The

southeasterly boundary should follow the hills 500 or 600 feet higher south of Triunfo Canyon to include in all about 1,400 acres between the County line, Ventura Boulevard, the old Rancho El Conejo boundary and the slopes above Triunfo Canyon.

#### 7. *Triunfo Canyon Parkway and Cliffs.*

From Russell Park and Sierra Canyon eastward down Triunfo Canyon to Malibu Creek Canyon there is chance for a parkway of remarkable scenic interest and beauty. The boundaries should include the bottom of the valley and so far as possible the cliffs and side slopes as high as can be seen from a satisfactory road line. A width of 400 feet to 2,500 feet should be reserved west of Sierra Canyon, while 250 to 300 feet may suffice in places east from there to Malibu Lake. Around the lake both shores should be protected, with space for a park roadway along the northerly side, and possibly a second local road above that. From the lake eastward to Las Virgenes Canyon Road the reservation should include the narrow valley and some of the Goat Butte lands on the south. The buttes have almost no value for development but are extremely bold and picturesque and should be protected against despoliation.

From there to Cold Creek is a charming bit of pastoral scenery and agricultural development bordering the existing roads. Land that has limited cabin value, but great park value, should have the boundaries far enough back to preserve the scenery and some of the adjacent canyons as well.

The basin at the head of Malibu Canyon offers a fine place for picnics and camping, and there also a widening of the reservation should be made. From there a reservation down Malibu Canyon might well be made eventually, and that too would make an interesting reservation, more picturesque than Topanga Canyon, but this has not been included. No road should ever be built in the bottom of that canyon and a parkway up on the slopes would be

very difficult and very costly to construct.

Where the parkway will pass through relatively open areas it may be of limited width, but the boundaries should be so chosen that border roads can be developed. In the gorges the entire bottom and slopes should be acquired. In some of the side valleys it is possible that groups of coast redwoods can be established and many existing trees can be preserved, with ample space for recreation and camping and possibly for golf and other sports as well.

#### 8. *Saddle Peak Parkway and Reservation.*

The top of Saddle Peak is the highest point in the front row of hills; it is a fine outlook point and is being considered as a possible site for an observatory. Already a road has been built up to the peak from the east, and even though very difficult to construct, this road should be extended westward toward Triunfo Canyon in a strip of sufficient width to protect the scenery and to provide a few places at least for automobiles to stop. A road has been surveyed by the County from Cold Creek at the head of Malibu Canyon to Coal Creek on the coast highway to provide a local outlet. This road can be followed from Cold Creek up the hill to the point where it begins to descend and can be continued from there to the Peak on a suitable line.

Following the road recently constructed from the Peak to the Tuna Canyon Road the parkway should turn north at the point where that road begins to descend steeply, and from there at about elevation 1,250 a new route on easier grades and above the local subdivisions should drop down to Topanga Canyon to enter just above Topanga Post Office.

#### 9. *Topanga-Mulholland Parkway.*

From Topanga Canyon and the proposed Saddle Peak route eastward there is now no direct route towards the city, and Mulholland



PLATE 50. Rugged and picturesque cliffs along Lower Topanga Canyon, where land has little value for houses and should be preserved for scenery. (Photo by Stagg.)

Highway itself does not command any fine views toward the ocean. Therefore, from a point about 2,500 feet above Topanga Post Office in Old Topanga Canyon a new route is proposed to bridge over the Topanga Canyon Road and to climb gradually to the ridges and then follow the crest northeastward to Mulholland Highway. Throughout a considerable portion of its length where the side slopes are not too rugged and steep, this reservation should be wide enough to allow for development eventually of border roads as well as the central way, and in all the higher portions, at

least, the borders should be far enough from the roadway to protect views and to preserve an uninterrupted open foreground.

The route is for the most part through rugged mountain country, but near the westerly end it passes the Trippet Ranch on rolling hills. The mountains are covered with shrubby growth and south of the Trippet Ranch there are fine live oaks.

#### *10. Lower Topanga Canyon and Cliffs.*

Extending back from the Coast Highway through an extremely rugged canyon and

gorge the lower Topanga Canyon Road is now one of the notable scenic features of the region. Much of the route is still unspoiled, although economic pressure on landowners to realize on the adjacent lands, and desire on the part of others to stop amidst such surroundings is leading to a kind of development that bids fair to destroy much of the character that now forms the chief attraction to the canyon. Much of the land along the lower canyon is unsuited to residential uses, is needed for possible roadway improvements, paths and local stopping places, and has some value for roadside recreation in addition to its large value purely for scenic purposes.

The slopes above the road on both sides should be acquired up to the practical limits of views, and should be kept undeveloped. The bottom of the canyon also should be acquired to be kept for general recreation, relatively free from buildings throughout most of the distance, including all of the lowland at and near the mouth of the canyon, where a number of small cottages now occupy land that would otherwise have great value for the gathering of very large numbers of pleasure seekers around camp fires and stoves and in pleasant groves, with a few general buildings capable of caring for very large numbers of people.

#### 11. *Old Topanga and Dry Canyon Parkway and Cliffs.*

Above Topanga Post Office a new road is now being completed to Calabasas through old Topanga Canyon and Dry Canyon. This road passes through some very attractive small basins having good trees and local open spaces. Cabins are being spread over these areas, and the public is being confined more and more to the limits of the roadway. These areas have very great recreational value for picnics and general enjoyment and the entire canyon bottom with some of the side slopes should be publicly owned. Near the divide there are some very interesting rocks and cliffs, having

little commercial value, that should be included in the proposed reservation.

Along the route where the roadway necessarily occupies one side of the canyon the land above the road need be little more than 100 feet wide from the center of the road, but on the other side the bottom of the canyon and the slopes for some distance above form a part of the scenery and on that side the reservation should be from 200 feet or 300 feet wide to 1,200 feet or more in places.

#### 12. *Calabasas Parkway.*

From Ventura Boulevard northward, in extension of the Topanga Parkway, a route is proposed through open land and a few walnut and fruit orchards. This should be a 300-foot three-road parkway, with live oaks, peppers and simple dignified planting.

#### 13. *Escorpion Park.*

At the extreme western end of the San Fernando Valley the old Rancho Escorpion with grazing land and a few scattered trees on rolling hills offers a chance for an enlargement in the parkway much like an English country park, with possible space for golf and other forms of open land recreation, near to but in addition to the proposed reservation at Chatsworth Reservoir.

#### 14. *Escorpion Parkway.*

Like the Calabasas route this section also can well be made a simple three-road way, 300 feet or so in width, partly through citrus groves.

#### 15. *Chatsworth Reservoir Park.*

At the Chatsworth Reservoir there is now a reservation of 1,170 acres of water lands, and around this area there are a number of hills and slopes that should be added to the reservation with the definite purpose of using the areas for recreational purposes, insofar as that will not interfere with reservoir requirements.



PLATE 51. Upper San Fernando Valley with rocks of Chatsworth in the distance, along the base of which the proposed Chatsworth parkway should extend. (Photo by Fiss.)

The existence of a large reservation will make possible development of park-like character, and the presence of water will add charm to the park scenery even though the body of water itself cannot be used for recreation.

The boundaries should be selected on reasonable lines for boundary streets, and it is suggested that on the northwest the boundary should extend into Ventura County. The northerly boundary should extend to Oakwood Cemetery.

The area proposed should be treated as a large reservation, to be kept undefiled and to be planted in places, and, as demand increases, to be adapted to use for various appropriate kinds of recreation.

#### *16. Chatsworth Parkway.*

Following north and east around the head of the San Fernando Valley from the Chatsworth Reservoir to the San Fernando Reservoir a route is proposed, to be about 300 feet wide and 9 miles long, to be treated most of the way with three roads and planting, with en-

largements for recreation and views at the mouth of Limekiln Canyon, at Mission Canyon, and on the mesa just west of San Fernando Reservoir Park. At the easterly end near the San Fernando Reservoir, the route enters Bull Canyon, there to cross the canyon and follow the easterly side northward through pasture land, leaving houses and citrus groves undisturbed in the westerly portion, and making the existing road along the westerly edge of the barranca the park boundary.

#### *17. San Fernando Reservoir Park.*

San Fernando Reservoir is in a reservation of 1,154 acres, and like the Chatsworth Reservoir this area affords a nucleus for a large reservation. The westerly boundary should include the hills to the small valley north from Bull Creek, with a possible road from there to the San Fernando Road. The northerly boundary should follow the latter; the easterly boundary should follow a satisfactory line for a border road, and the southerly line should follow the bottom of the hills, where a road

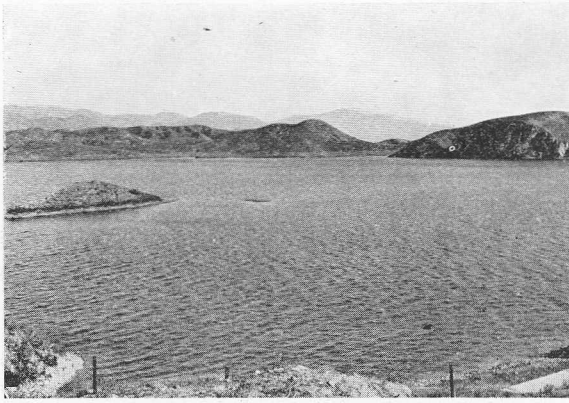


PLATE 52. San Fernando Reservoir and surrounding hills that should be included in a reservation to be made attractive.

can be built near the edge of existing cultivation and should provide for an outlet toward the San Fernando Mission. The Reservation should be acquired and planted in part and held for gradual development as recommended for Chatsworth Reservoir.

#### 18. *San Fernando Parkway.*

From the reservoir north and east around the back of San Fernando and along the border of the Olive View Sanatorium to Pacoima Wash a parkway five miles long and 300 feet wide, with space for three roads and planting, is proposed. This route, chiefly through relatively flat land, can be in part formally treated with rows of large growing trees.

#### 19. *Pacoima Wash Reservation.*

Extending from the forest boundary on the north to Mulholland Street on the south, the Pacoima Wash should be reserved to serve as a drainage channel and percolation basin, and as an interesting park feature as well. The boundary on the west of the southerly portion should follow the top of the steep bank of the wash far enough back to allow for a border road in addition to a park drive. Farther north it should be kept far enough west to allow for a border road only.

On the east the boundary may well follow ranch lines and the city boundary. With the existence of the new dam above this wash, the danger of violent floods is greatly reduced and the area, while occasionally used for percolation, can be used at other times for recreation and can be planted to trees, in part at least, to make an attractive open space.

#### 20. *Pacoima Parkway.*

From the Pacoima Wash eastward to the Tujunga Valley a route is proposed around the base of the mountain and down the little Tujunga Wash. The northerly boundary should extend to the Edison Power Line above Mulholland Street to avoid leaving a strip of waste land. From Mulholland Street east a 300-foot strip is proposed, suitable for a three-road way, to Kagel Canyon. The parkway will connect with the road to the Dexter Canyon Park now being developed by the County. At Little Tujunga Wash the parkway should be widened to include much of the wash and possibly to extend into the forest, although this canyon has relatively little park value. The wash could serve in part at least for flood control and percolation.

#### 21. *Tujunga Valley Park.*

Tujunga Valley, three-quarters of a mile wide where the highway crosses, and nearly five miles long from the Edison Power Line at the westerly end to the forest boundaries on the east, is a flat mostly of gravel and boulders with scattering bushes and a few trees. It is now subject to occasional violent floods, but will be less so when the proposed dams in Tujunga Canyon shall have been constructed.

In addition to use for flood control and percolation, this area can be made useful for certain kinds of recreation and should be developed as a simple open landscape reservation. The boundaries along the north should follow along or near the highway in the central portion, leaving considerable valuable acreage be-



PLATE 53. Shores of lake in Prospect Park, Brooklyn, suggesting the kind of development that could be made around the large reservoirs.

tween to the westward and rising on the steep hillsides to the eastward to include much or all the land between the valley and the forest boundary. The south boundary should include all the wash land and enough of the slope to allow for construction of a suitable border road on that side.

The westerly end of the wash is held by a natural dike, so it may prove desirable and feasible to remove the gravel from a portion of the areas to create a lake as a valuable park feature.

An arm of the park should be extended southward from near the easterly end to connect with the existing park in Sunland, and to include some or all of the small buttes to the west of it, north of Michigan Avenue.

## 22. *Tujunga Wash.*

Extending for 5 miles southward from the

Tujunga Valley, the Tujunga Wash and Cone has spread very wide and made several channels, but this is now being confined to a single channel of sufficient width to allow for drainage and percolation, and, for that purpose, it has been estimated that nearly a thousand acres will be needed. In addition to the area needed for flood control, the edges of the wash should be acquired wide enough for ample driveways. It is possible that if the area is wide enough so that water can be spread very wide and shallow, the park roadways can then be carried along within the basin, subject occasionally to actual flooding rather than to be placed upon border dikes close to adjacent private holdings. Under such a plan border roads should follow both sides of the basin in addition to the park drive.

Any plan for a satisfactory improvement of the wash as a park feature is necessarily com-



PLATE 54. Large area in Tujunga Wash that is subject to occasional flooding and is likely to be made hideous by costly "developments" if not acquired as an interesting and useful public open space. (Photo by Fiss.)

plicated by the existence of enormous gravel plants that operate and should continue to operate in the valley, and also by the need for definite flood control channels that are likely to be very unattractive unless designed on a broad general scheme for a double service of both park and protective purposes. Already some levees have been constructed and others doubtless must be put in to confine flood waters, but if these are kept far enough apart to allow for shallow water, the possibility of developing the area for added park values will be far greater than with narrow, deep channels.

Along this route the question of crossing railroads and busy highways will doubtless lead in time to the consideration of grade separations and probably will mean that the park drive must go over as the other routes are already developed down close to flood levels, leaving little chance for going under them.

### 23. *San Fernando Mission Parkway.*

From the Pacoima Wash near the San Fernando Mission to the Tujunga Wash, plans are being developed for a drainage channel to protect Van Nuys. This channel parallels but does not follow the two great power lines and the proposed Whitnall Highway. A parkway should follow that channel from San Fernando Reservoir past the Mission to connect with the Tujunga Wash, nearly 5 miles away.

At the southerly end Payton Avenue can be made the easterly boundary. The drainage channel, to be 200 feet, should have an additional 250 feet for park roads or even more if the channel can be widened and flattened to give it a more park-like character and border roads. Northerly from Pacoima Wash the park road can follow the westerly side of the power





PLATE 55. San Fernando Mission, a point of interest on proposed line of parkway.

line and parallel to the Whitnall Highway, where an additional width of 150 feet should suffice.

At the Mission the boundaries should be widened out to provide for proper street intersections and for proper relation to the Mission itself.

In the development of the plan space should be available for borders of eucalyptus trees with alders and other deciduous planting along the channel, such as poplars, sycamores and more brilliant autumn trees, including sour gums and sweet gums. Possibly palms and other semi-tropical plants should be used also.

#### *24. Lower Tujunga Parkway.*

Passing Van Nuys the drainage channel follows the nearest wash to the eastward, but will occupy a relatively narrow and deep channel, while in the wash next farther east there are now several parks and there are other stretches of the old wash that could be acquired. Therefore the best location for the next six miles southward follows that wash and the parks already established.

A width of 300 feet or 400 feet up to 1,200 feet or 1,400 feet should be acquired to allow ample space for local recreation and park requirements in addition to pleasure travel. Near the Los Angeles River, south of Second Street

and east of Tujunga Avenue, the parkway should turn south to the Los Angeles River and to Ventura Boulevard.

#### *25. Mulholland Parkway.*

From Calabasas and the Topanga Canyon roads eastward to Franklin Canyon, Mulholland Highway should be made a part of the main park system. From there eastward to Griffith Park the highway becomes more of an urban highway and probably should be considered as such, especially as a parkway is needed from the Franklin Reservoir to the Los Angeles River and to the Tujunga Wash on the north and another to connect with Beverly Hills and the cities beyond on the south.

The question has been raised as to vacating portions of the 200 foot right of way deeded for the Mulholland Highway, since the extra width is not being used, and is not part of any existing plan for use. If the highway is to be made a part of the park system, however, a definite plan should be made for ample parkway development with proper protection of fine views, space for planting and improvements, allowance for widening and improving the roadways, and for double roadways in places and with proper provision for border roads where feasible and for other connections to adjacent lands. Such plans may permit abandoning or exchanging certain areas, but in general should provide rather for acquiring more land for public use and enjoyment, and land enough so that satisfactory roads for access can be developed to serve the adjacent remaining private lands.

From Calabasas to the mountains, the highway should be made 300 feet wide with provision for border roads and central road and ample space for planting. To be of really great park value the lines of roads should be somewhat modified; in places the roadways can be doubled to follow both sides of small summits and there the summits should be acquired also. So much has been done now that it would be

unfortunate not to carry the work farther to a satisfactory completion. Where the proposed route from Topanga Post Office joins the highway a relatively large summit exists that will be surrounded if the junction is made in both directions, and this might also be added to the reservation.

#### *26. Mulholland-Tujunga Parkway.*

From Mulholland Highway at Franklin Reservoir down to the Los Angeles River and the proposed Tujunga Parkway a fairly direct route for comparatively easy construction would drop down through the corner of the Hollywood Country Club lands to the straight portion of Laurel Canyon Road, then rise slightly toward the east to pass around the south and east sides of the subdivided area to meet the Tujunga Parkway just west of Universal City. This route should be 200 feet to 600 feet in width, wide enough to permit proper development of a central roadway with one or two border roads and with space for trees and planting, and with control over the local and distant views.

#### *27. Franklin Reservoir Reservations.*

There are now two water land reservations in Franklin Canyon containing 322 acres and there is a road up through the canyon toward Mulholland Highway. The reservoirs form objects of interest. The land reserved provides definite open space that can be made attractive, and offers a possible route for a parkway for part of the distance through the canyon. From the top of the canyon down to a point below the lower reservoir, the park drive should follow the canyon below the reservoirs; but back of most of the development of Beverly Hills the road should turn westward across the foothills and down Peavine Canyon to the mouth of Benedict Canyon.

#### *28. Beverly Hills Parkway.*

Four miles from Benedict Canyon to the Hillcrest Country Club, crossing the lower end

of Benedict Canyon, the route should follow the westerly edge of the canyon floor southward along the easterly edge of the Los Angeles Country Club to cross Wilshire and Santa Monica Boulevards at the Beverly Hills west city line, continuing along the easterly line of the Westwood Public Golf Course to cross Pico Boulevard and cut through the northeast corner of Hillcrest Country Club and eastward along the old ranch line to the vacant hills beyond. The three country clubs following most of the route are now interesting and probably will remain so for some time to come. As a connecting link through costly lands the reservation may be made relatively narrow. Along the golf courses there will be no need for a border road on that side and a two-road way may prove sufficient with an understanding that should the golf clubs be subdivided, a service road and park strip is to be added by them at that time. In crossing Beverly Boulevard, the route follows that road for 1,000 feet and a special plan for crossing and for parallel roads will be needed and eventually grade separations there and at Wilshire, Santa Monica and Pico Boulevards respectively may also be required. The taking of land now should be sufficient to permit such changes within the park lands when required.

#### *29. Culver Park Reservation.*

East of Hillcrest Country Club on the vacant hills of the Arnaz tract, 150 acres of land along the proposed route is now available and is recommended for a local and general park. This area may be reduced somewhat if the area farther east is acquired as recommended for a large recreation center. Boundaries suggested are, on the north the old ranch line and existing streets, on the east existing streets, on the south and west arbitrary lines to enclose an area of about 150 acres.

#### *30. Culver Connection.*

From the Arnaz tract to La Cienega Boulevard, a little over a mile, there is now compara-



PLATE 56. Back Bay tidal marshes in Boston converted into an attractive waterside park, such as may be possible for the Del Rey marshes.

tively vacant land between Cadillac and David Avenues that should be acquired, and those street lines should be extended eastward to serve as border roads for a parkway.

### *31. Culver Recreation Field.*

East of La Cienega Boulevard and north of the Pacific Electric Railway there is a triangular tract of 165 acres or so, that is still vacant, that would serve as a fine location for a large regional athletic field and recreation center. It is low and subject to occasional flooding and is not ideal for building uses, but could be used for play. It is within a mile and a half of the city car lines, and is on the Pacific Electric.

### *32. Ballona Creek Parkway.*

From Culver City to the sea the channel of Ballona Creek runs on a very flat gradient. This creek will receive a very large volume of

water in occasional storms, from paved streets and roofs of the urban regions above it. The volume of water it may be called on to carry is likely to be much larger at times than is now possible in existing channels and bridges. The new bridge at Culver City has an opening 80 feet wide by 20 feet high. The older bridges are smaller and the channel as defined has less capacity. If the city is allowed to grow around the channel and then widening proves necessary, the economic loss to the community will be very great. It is possible that a channel 10 or 12 feet deep and three or four hundred feet wide may be needed eventually, especially in the lower reaches of the creek. Such a channel if merely walled in is likely to become a very ugly feature in the district, standing empty and dry most of the year, a receptacle for papers and rubbish. The channel can better be developed as part of a parkway. The bottom can have pools and basins in places and a relatively

narrow channel for a small run-off with the remaining floor on a slightly higher level to be covered with low growth and occasional trees. In a broad, low channel it would be possible, as suggested for the Tujunga Wash, to have a park driveway within the channel, above all ordinary floods, but subject to occasional flooding, with border streets on still higher levels to afford access to adjacent properties. The big problem today is to acquire a wide right of way 600 feet 1,000 feet wide while much of the land is still open, and to determine on ultimate lines and grades for border roads where private property will certainly be safe from flooding.

### 33. *Del Rey Park and Bird Refuge.*

At the mouth of Ballona Creek at Del Rey, near Venice, there is a large area of marsh land and low upland subject to occasional flooding and close to sea level. This area might be made usable in part for housing by filling, especially if other portions are dredged to form lakes or canals and the material is thus obtained nearby. Such work necessarily is costly and the result would have no particular advantages over equal areas on the nearby uplands. The marshes are now frequented by swarms of shore birds, especially in rough weather, and 549 acres of the area is owned by two gun clubs. The entire area has already been considered for a boating harbor, lagoons and a seaside park. Any plan for a pleasure harbor at Venice and for attracting additional throngs to the seashore will need a large inland area for auto parking, family picnics, shallow water for small boats, and other forms of recreation, and under a general plan for complete development this marsh area can be made of great recreational value aside from but in connection with the beaches, and some space can still be reserved as a bird refuge.

The entire area should be acquired for such purposes. The boundaries should include nearly all the lands between the two railway lines and, on the west, the ridge and the lagoon near the sea, with one or two broad connections

across the occupied sandy strip next to the seashore, and with space enough to allow for a large outlet from Ballona Creek to the still waters of the proposed pleasure harbor.

### 34. *Baldwin Hills Parkway.*

From Ballona Creek at Culver City eastward along the north face of the Baldwin Hills a route is planned on a line high enough to command views over the city and to the San Gabriel and San Bernardino Mountains. This strip should be wide enough for a good border road above the park drive to serve the uplands and for another border roadway far enough below the drive to keep buildings from encroaching on the views, and to allow space for planting as well. The width should vary from 225 feet to 600 feet at the steeper places. From the northeast corner of the hills a route to the heart of the city is suggested to cross Mesa Drive and the open lands beyond. Around the east side of the hills the parkway should continue southward to take all land between two existing border streets, and the line should run parallel to and one to two blocks west of Mesa Drive to connect with the Inglewood Parkway. This portion of the route will run through a built-up section and a number of houses will have to be removed. The houses are of good quality, rather above the average, but will be less costly than any plan to widen Mesa Drive to a suitable width, even if that were feasible.

### 35. *Rancho Cienega Recreation Field.*

East of Mesa Drive and south of the Pacific Electric Railway there is now a large area of vacant low-lying flat land that would make an ideal site for a regional athletic field. This area of 125 acres should extend from the line of Exposition Boulevard south to the location for the In-town Parkway (No. 36) and from near Mesa Drive eastward across the open lands.

### 36. *In-town Parkway.*

From the Baldwin Hills and the proposed routes to Ballona Creek and to Palos Verdes,

several plans have been considered for a connection toward the center of the city or along the westerly side to Hollywood and Griffith Park or to Silver Lake and Elysian Park. Such plans have been found to involve very great costs through the destruction of expensive buildings without reaching the heart of the city. Just west of the business district of the city in a region of many small houses and shops of less costly character there is a possible location for a connection from the Baldwin Hills to Exposition Park, the campus of the University of Southern California and Elysian Park. This route should be projected at once before big buildings on Sixth Street, Wilshire Boulevard, Seventh Street and elsewhere introduce still further obstacles. For such a route it is possible that some aid may be obtainable from the major highway funds. The route that appears most feasible from a preliminary study runs from Baldwin Hills diagonally across Mesa Drive and the open land to follow the southerly side of Thirty-eighth Place to Thirti-ninth street at Exposition Park; then north across the corners of private property and the park to follow the west side of Hoover and lower Severance Street, and the east side of upper Severance Street through St. James Park and along the east side of Norwood Street, Oak Street, Albany Street and Whittier Street to Seventh Street; then to follow the west side of lower Witmer Street, Hartford Avenue and upper Witmer Street to Beverly Boulevard; then to curve eastward across the small blocks and steep grades to follow the west side of Toluca Street and East Edgeware Road and the east side of Marion Avenue to Sunset Boulevard; then to turn westerly along the south side of Everett Street to the proposed extension of Elysian Park.

This route will enter the proposed extension of the park at an interesting point, where it can bridge over the road in Chavez Ravine to connect with park driveways beyond.

Grade separations at Seventh Street, Wilshire, Sixth Street, Beverly Boulevard, Glen-

dale Boulevard, and Sunset Boulevard will doubtless be required in time and any plan for complete improvements should include sufficient space for such possibilities.

### *37. Inglewood Parkway.*

From Slauson Avenue south to Alondra Park, the route has been designed to follow a block west of and parallel to Mesa Drive south to the city limits, and to remove a number of houses now in the way. The width is planned to be one block part of the way and half a block farther south. At the Santa Fe Railway, plans should provide for ultimately passing under the railroad, but a grade crossing will doubtless be necessary at present.

South of the railroad the Inglewood Cemetery occupies a large area just west of the route and possibly the park lands should bend westward to skirt the cemetery for some distance, then bend eastward again to connect with the parkway 225 feet wide, now being designed from the city line southward to Alondra Park and beyond, passing the Potrero Country Club and following the line of Cypress Street much of the way.

### *38. Alondra Park.*

Southwest of the city in a section where there was no large park of any sort, the County recently acquired 315 acres of gently rolling agricultural land on which to develop a park of both local and regional character. A plan has been made for complete development of the area, to include local playgrounds in the two southern corners, a general athletic field in the central portion, ball fields in the northeast corner and a golf course in the westerly portion, with walks and drives through the area and ample spaces for planting to produce a general park-like character. (See Plate 58.)

### *39. Alondra-Palos Verdes Parkway.*

Much land has been acquired, some construction has been started and plans have been



PLATE 57. Sketch for a broad, dignified and attractive parkway 225 feet in width with three roadways planned to extend from Los Angeles city to the sea at Palos Verdes.

largely completed for the acquisition and improvement of this section of the proposed Hollywood-Palos Verdes Parkway by the County (known as A. & I. No. 15). Designed as a three-road parkway 225 feet or more in width, this bids fair to be the first real parkway in the Los Angeles Region; one to become an important link in a pleasure route from the city to the seashore. In the plans provision has been made for ultimate separation of grades at several crossings.

#### *40. Palos Verdes Coast Road.*

Following along or near the top of the cliffs of the rugged coast line of the hills of Palos Verdes, from the beaches of Redondo to the proposed park reservation near San Pedro, a

pleasure road is already built and in use, and in part has been dedicated of ample width to ensure to the public for all time a route through pleasant surroundings with fine views over the ocean. For the first four miles south of Redondo the parkway has been established 180 feet or more in width between building lines, and for nearly half this distance the land between the highway and the ocean is established as a quasi-public park never to be built upon. The right of way has been restricted against commercial traffic under restrictions that are designed to continue in perpetuity.

Through the unsubdivided areas farther south the present Coast Road has been designed to be 170 feet in width, with reservation of the coastal areas for a part of the way, and

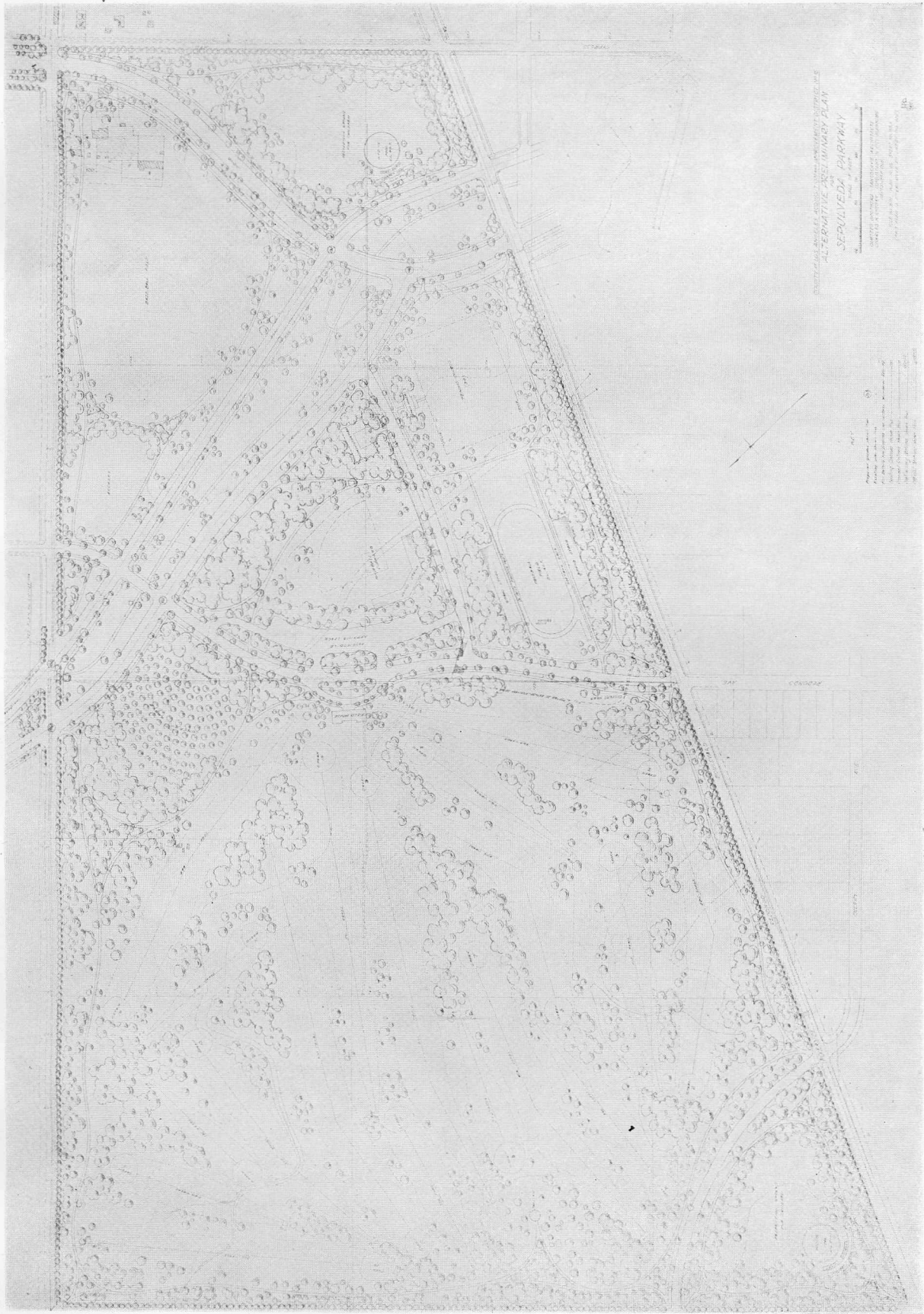


PLATE 58. Design for Alondra Park, 315 acres, recently acquired by the County.

with double roadways wherever possible to afford fine outlooks for travelers in both directions.

*41. Alondra-Del Rey Parkway.*

From the Del Rey Marshes and the proposed terminal park there south and eastward, a parkway connection is needed. Two routes for this offer advantages: one following the shore to the beach cities, then following the hilltops back of the built-up areas to cross to Alondra Park or some point farther south; the other route to follow the line of proposed Sepulveda cut-off that has already been surveyed and planned as a proposed County improvement, making a direct connection from Del Rey Marshes to Alondra Park through areas now mostly undeveloped, but Mines Field, oil wells and other activities now developing may prove serious obstacles to this line. The shore route offers the advantage that the city now has about 200 acres in the Hyperion Sewer Farm, much of which may be available for the creation of a large shore front park just west of El Segundo, all in close connection with a shore front parkway.

*42. Gardena Valley Park and Parkway Reservation.*

Plans have already been considered under a County Project (A. & I. No. 15) to acquire the bottom of Gardena Valley and the side slopes, including border road locations, and a general plan has been made for ultimate development as a pleasant rural park with lakes, boathouses, ball fields, picnic groves and many attractive features. The entire area should be acquired at once, the boundary roads should be developed, and planted; some planting should be done in the interior and the balance can be held as a reservation for more intensive improvement from time to time as demand may warrant. This valley is subject to heavy flooding at rare intervals and the lower end is so near sea level that it will drain very slowly. The area can be

used for park purposes even if flooded occasionally, but is not suitable for other uses. This park reservation should be materially extended through the lower valley as described in the next section.

*43. Nigger Slough Reservation.*

In connection with and in extension of the proposed Gardena Valley Reservation, the broad flat flood plane of Nigger Slough now unfit for residential or commercial uses should be made a park.

Nigger Slough is one of several large areas in the County where the elevation of the land is so near sea level that ordinary methods of gravity drainage by open channels and by storm sewers, whether undertaken at the general expense by the Flood Control District or at local expense by local drainage districts, cannot possibly protect the land from constantly repeated serious inundations, unless the surface of the land is raised in a wholesale manner by filling. (See Appendix No. III.)

This area could be developed as a large lowland park, having interesting interior park character with ample space for various forms of recreation, with possible extension of lakes and pools and water sports suggested for Gardena Valley also.

*44. San Pedro Parkway.*

From Nigger Slough to the hills back of San Pedro a parkway 225 feet or more in width as a connection from the Nigger Slough to the Palos Verdes Coast Road is proposed. This route should cross the lowlands back of Wilmington and Harbor City, skirting the slopes north of San Pedro to the hills overlooking the shore. The route can possibly be designed in a way to benefit by the park reservations already set aside in the Miraleste section of Palos Verdes. The south end of the reservation should be wide enough to connect with both the uphill and the down-hill hairpin turns of the existing Palos Verdes Coast Road.



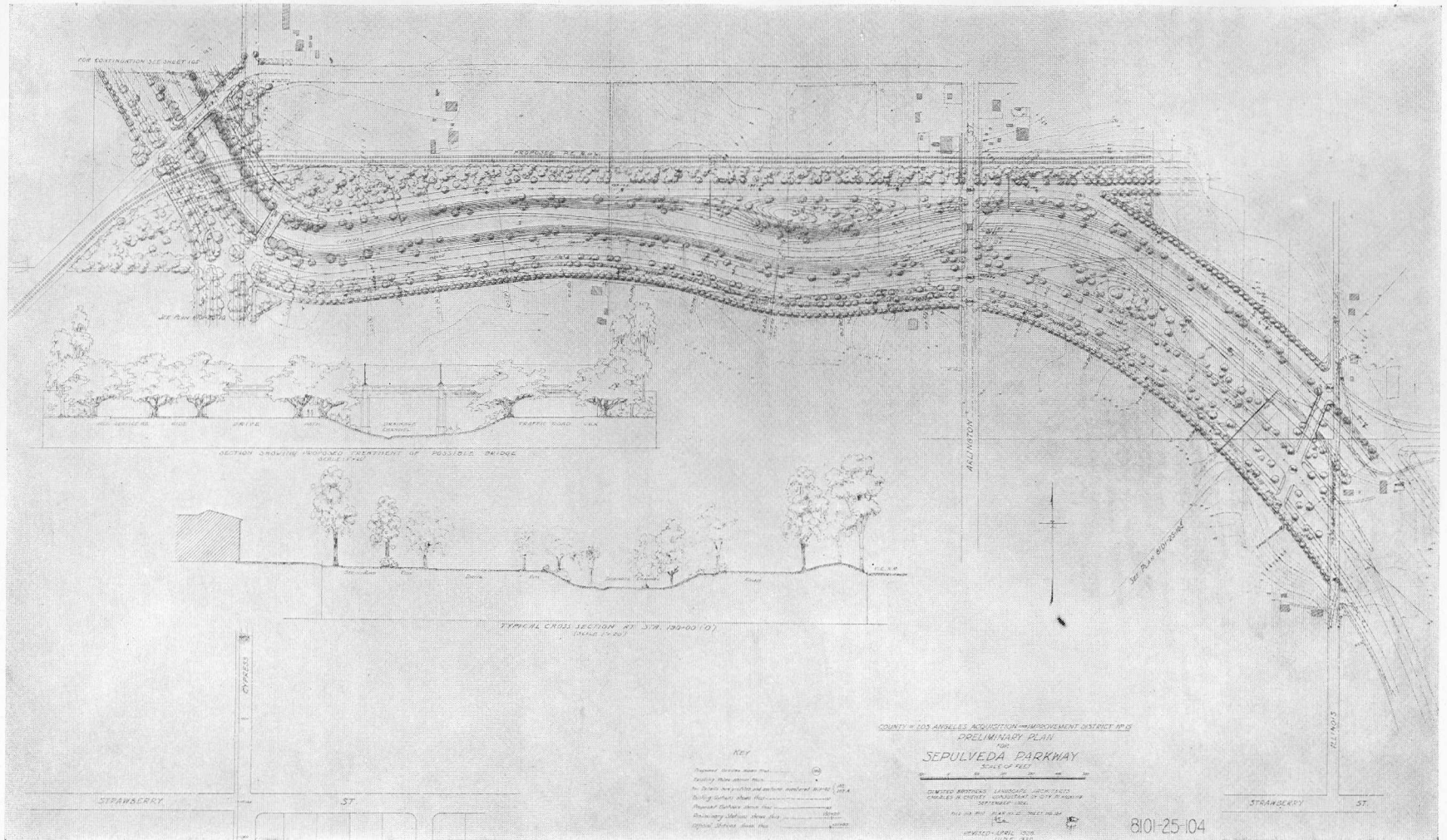


PLATE 59. Design for a parkway through Gardena Valley and Nigger Slough with two border roads, a park drive and a channel for drainage.

45. *San Pedro Hills Reservation.*

San Pedro Hill, just back of San Pedro and close to the sea, rises to a height of 1,480 feet above sea level. It commands views in all directions over the sea and over the coastal plains and the surrounding cities back into the mountains 100 miles or more away. The face of the hill offers space for park development where the cool climate of the sea can be enjoyed. The base of the hills includes the rock coast and cliffs above the sea and connects with the Coast Road toward the west and the Royal Palms Golf Course and possible roads into San Pedro toward the east.

The small amount of fairly level area on the slopes above the sea could be developed for picnic areas and parking of a large number of cars, as that will be a necessary feature of any park in this region. Such a park may offer unusual opportunities for such public interests as a marine biological station and museum, or a botanic garden with experimental stations.

46. *Dominguez Ranch Parkway.*

From Nigger Slough eastward to the Los Angeles River a connecting route is needed as a link in the one main east and west parkway between Los Angeles and the ocean. This section offers no particular interest and should be as direct as possible. It will necessarily pass through industrial areas and cross busy highways. It should be 225 feet or more in width to be ample for planting and for three roadways.

47. *Los Cerritos Parkway.*

From the Pacific Electric bridge over the Los Angeles River at Los Cerritos southeastward to the Union Pacific Railroad at Signal Hill a route is planned, to be 225 feet or more in width. For much of the way the location will be on a side hill and a greater width will be needed for border roadways at the top and bottom of the slopes. There are many oil wells along this route which can be left to operate

within the reservation under special agreements until abandoned.

48. *Bixby Ranch Parkway and Reservation.*

The City of Long Beach now owns nearly 700 acres of airport and water lands north of Signal Hill, most of which should be included in a reservation in connection with a parkway eastward and as a large athletic field or should be correlated in a way to be mutually beneficial for park uses and other uses. East of the water lands, the route crosses flat land and can be 225 feet or more in width, crossing the San Gabriel River to the Orange County line at a point from which it can be extended eventually farther eastward. Through the water lands, two connections toward the southwest are possible, one to Signal Hill on the south, the other near the Union Pacific Railroad to the proposed Signal Hill Parkway.

49. *Signal Hill Park and Parkway.*

Overlooking the City of Long Beach and the plains behind it, Signal Hill stands out alone as a commanding hill. It is now covered with oil wells and shops and oil sumps, but those features are temporary as compared to the life of the city. The time is not far off when activities will slacken and some of the land will be released from oil uses, and gradually the entire area will be opened for other uses.

Under a plan for gradual development, much of the land could doubtless be acquired now, subject to sub-surface rights and partial use of the surface where needed. Possibly much of the surface of the land could be obtained practically without cost in exchange for certain privileges and relinquishments under proper negotiations.

The first need on the hill will be for a through east and west roadway as a link in the park system, and it is possible that this could be developed among the derricks and shops while they are still in active use. At the easterly

end, there is a reservoir that should be included within the limits of the plans.

The park drive should follow one or both sides of the hill high enough in places to afford fine views over the country, the city and the harbor. The hill itself eventually can be made a striking feature in the landscape with forest trees in place of the present oil derricks, with possibly a bowl for concerts, and other park features.

*50. Long Beach Recreation Park.*

The City of Long Beach has a park of 400 acres in the line of the proposed main parkway, extending from Anaheim Road to the San Gabriel River near the County line. The park contains within its boundaries several private holdings that should be eliminated. The width of the easterly end is scarcely sufficient to afford a satisfactory location for a through roadway toward the coast unless the water area be reduced or additional land be acquired. The park doubtless should continue chiefly as a local park and some form of agreement should be made between the city and such authority as may be established to deal with the larger problems of regional pleasure travel.

*51. San Gabriel River Mouth.*

Below Anaheim Street, the San Gabriel River has been relocated to flow between dikes in a relatively narrow channel 300 feet to 330 feet wide. A park strip should be added along each side, several hundred feet in width and so designed that the entire river mouth can be treated as a broad, open parkway.

The southwesterly boundary should extend to the east line of Recreation Park and the south boundary should extend to Alamitos Bay, and a connection toward the southeast should extend to the County line and the Bolsa Chica Marshes.

*52. Bolsa Chica Park Reservation,  
Bird Refuge and Beach.*

Just outside the southeast County line the

large marsh area of Bolsa Chica and Los Alamitos and the beach from Anaheim Landing to Huntington Beach offers a fine location for a big water-front reservation similar to that proposed for the Del Rey Marshes, but more extensive, and to include more actual ocean front. This area, lying in Orange County, but on the main diagonal coast road from Long Beach and the Los Angeles Region southward, offers great possibilities for the development of a large and important recreational area, pleasure bays, picnic grounds, and wild reservations all within easy access of a very large proportion of the people of the metropolitan region.

The beach (as discussed in Chapter V on beaches) is being cut up into small lots and has a number of small houses upon it, but its greatest value would be attained if it were kept open for large numbers of the general public. The marshes have little value, except at the back where oil has been found, and the boundaries should either exclude the oil wells or include them subject to the life of their operations.

Five and one-half miles long by a mile and a half wide, the area that could reasonably be set aside for public use and enjoyment includes about 5,000 acres.

A part of this area, about 2,200 acres, is owned by the Bolsa Chica Gun Club, and that part might reasonably be acquired subject to certain rights and reservations for a definite period of time to permit them to continue to occupy it until the public requires the area.

This reservation should be of much value not only to Los Angeles and Orange County, but also to Riverside and San Bernardino Counties, as it is one of their nearest shores, and one that can be reached without passing through busy urban areas.

*53. Lower San Gabriel River Parkway.*

From the San Gabriel River mouth below Anaheim Road, northward to the Whittier Narrows, a distance of over 17 miles, plans are now being considered for acquiring a channel for flood control for the San Gabriel River.

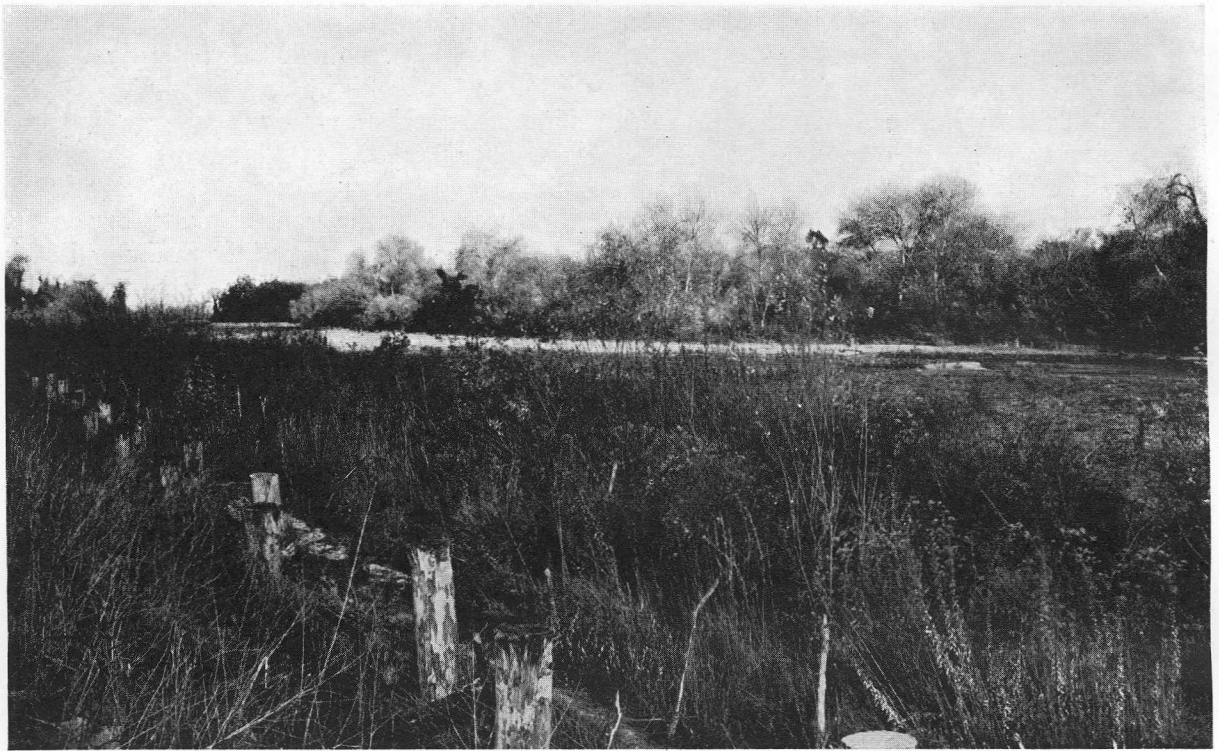


PLATE 60. San Gabriel River near the Narrows, showing area needed for drainage that has park value, especially if the border vegetation can be preserved. (Photo by Fiss.)

The river bed is several hundred feet wide but under control may be narrowed and deepened, thus destroying the not unpleasant tree-bordered wash that now exists. For a parkway it would be far more attractive to preserve much of the character of the present bed, to develop border roads and dikes farther apart in a less formal manner and to make some uses of the land in the bed of the stream during most of the year when little or no water is running.

Just what plan can be developed to bring to the community the most interest and enjoyment from the river treatment will depend on many factors, but of these the first and most important will mean the acquisition of a strip not less than 1,000 feet wide outside which private property may be encouraged to develop, and to hold the central area for carefully de-

vised plans for use and control, and not to change the present character until a definite plan for a satisfactory result has been adopted.

Any plan for development will be somewhat complicated by the existence of electric power lines and railroad lines along the banks in places, and the boundaries should be adjusted to relate properly to these also.

Already a few subdivisions have extended into the line of desired reservation, but not extensively. In places the boundaries should include existing streets subject to right of use.

The most serious question in any plan for improvement will necessarily be that of providing satisfactory and effective revetments or other forms of river control without seriously injuring the landscape value of the river bed. The prospect of a dam in the mountains to control the river offers a possibility of materially



PLATE 61. Riverway in Boston, once a pestilential drainage channel but redeemed under a joint plan for drainage and park uses.

reducing the size of revetments required.

The river banks offer opportunities for special types of tree growth and special effects of foliage with cottonwoods, sycamores, willows and poplars, wild grapes and even sweet gums and sour gums. The already interesting foliage masses can be kept and made a striking feature of the district instead of giving way to an ugly vacant channel.

At the northerly end on the east bank is the old Pio Pico Adobe House, owned by the State, that should be included within the parkway reservation.

#### 54. *Lower Los Angeles River Parkway.*

From Long Beach northward to the Rio Hondo at South Gate the Lower Los Angeles River offers much the same problem as the Lower San Gabriel. Below Los Cerritos the

river has already been confined between revetments 300 feet apart and commercial use of the edges has been encouraged and made possible so that parkway construction of an interesting character would be difficult and costly if attempted, but above there where a right of way 400 feet or 500 feet wide is needed for flood control a width of 1,000 feet or so should be acquired, and above Center Street where the channel is broad and meandering a width of 1,500 feet or so in places seems desirable.

#### 55. *South Gate Recreational Area at the County Farm.*

Between the County Farm and the Rio Hondo and in the point of land between that and the Los Angeles River for a distance of nearly two miles to the Stewart and Gray Road, and for a width of 4,500 feet or so, there is an area that should be acquired for a public



PLATE 62. Gorge in Montebello Hills not yet invaded by development, where a parkway can be located. (Photo by Fiss.)

reservation in connection with park and drainage problems and to serve as a large athletic field as well. This area should be acquired in advance of intensive development and held as a reservation to be made more and more useful to the public as the need for it increases. It is possible that the area might be acquired by the County and used as an extension of the County Farm in part at least, but held as a public trust to become available for recreation when demand for its use becomes sufficiently urgent.

As the Region grows and values increase the time may come that a part or all of the County Farm of 480 acres may be diverted to other uses, or may be available as an extension of the proposed recreation area and it is quite possible that a portion of the farm may be made accessible to the general public in connection with a general plan for the development of the park

and recreational features, and that on the other hand a part of the reservation may be used for grazing by the County live stock in a way to improve the pastoral type of scenery and to add interest to the reservation itself.

#### 56. Lower Rio Hondo Parkway.

Above the County Farm to Montebello and the Whittier Narrows for a distance of 6 miles, the same flood channel problem exists. There again a width of 1,000 feet or more would afford ample space for a satisfactory development. North of Telegraph Road the west shore rises in steep bluffs and offers some interesting problems in locating park drives and border roads. Some small private houses in Montebello should be removed. On the west bank south of Telegraph Road is one of the original adobe ranch houses of the great Span-

ish grant to Don Antonio Maria Lugo. This house, which was later the home of Henry T. Gage, one of California's notable governors, with its adjacent grounds, should be included in the reservation.

57. *Whittier Narrows Recreation Park and Drainage Basin.*

Between the hills at Whittier and at Montebello, the San Gabriel and the Rio Hondo Rivers run parallel and little over a mile apart. There the underground river waters come to the surface forced up by the natural dike that crosses the narrows. In this area, two proposed routes from the south, two from the north and one each from the east and the west converge, so into this area a large amount of pleasure travel will be brought from all directions. Therefore, the entire area should be made a public reservation and recreation field. The boundaries should include both rivers and extend to Lincoln Avenue on the west and to Durfee Road on the north, and should include under agreement the 49 acre water reserve of Pasadena in the valley and extend south to the existing cross street.

In the northwest portion, there are oil wells that should be included in the area but may be allowed to continue to operate under a suitable agreement.

In this area it may be possible to develop lagoons for bathing and boating and to afford various other forms of recreation.

58. *Montebello Parkway.*

From Whittier Narrows west to Lincoln Park a parkway just above the base of Montebello hills is proposed. This route will run through open land most of the way, although plans are being made now for the subdivision of one large tract that should be crossed.

Oil fields will be crossed near the easterly end where special concessions may prove necessary. Just south of Third Street, west of Montebello, a cut 60 or 80 feet in depth will be



PLATE 63. Plan for parkway through gorge in Montebello Hills as prepared by Regional Planning Commission.

necessary through a narrow ridge. West from there to Coyote Pass and Garvey Avenue a side hill parkway is proposed where three roads should be planned, the middle park drive high enough above the lower border road to protect forever a view out over the city, and another border drive above on a satisfactory location. In this section a width of 250 feet to 300 feet at least will be needed. West of Coyote Pass the route should turn northward in the deep canyon already considered by the Regional Planning Commission for a parkway, then turn west at the Pacific Electric tracks, cross the tracks through the pass and then cross Al-

hambra Avenue to the back of Ascot Speedway. This route will involve considerable heavy construction and some costly land takings, but it follows the most feasible line to enter Los Angeles city from the east, and it offers some interesting scenic features along the route. Plans should provide sufficient space for possible grade separations where likely to be needed in the future.

59. *Lincoln Park and Recreation Grounds.*

Los Angeles City now has 46 acres in Lincoln Park developed as a neighborhood park. Just east of this park is a large area as yet undeveloped or slightly used, including the Ascot Track. The entire area, containing possibly 180 acres, should be acquired as one of several proposed regional athletic fields, to be developed for intensive use by a large number of athletic teams and players in various games.

North of Lincoln Park is the Selig Zoo that should be added to the park as a city feature if it can be obtained on advantageous terms. The city now has no satisfactory zoo within easy access and a well-organized public zoo would afford pleasure to many people.

60. *Lincoln-Arroyo Seco Parkway.*

From Lincoln Park to the Arroyo Seco and toward the city a connection is needed, and for that a satisfactory route is not easily found. The best location seems to be to cross Mission Road from Lincoln Park on a viaduct and to skirt the base of the hills northward to the Arroyo. Possibly the small hill opposite Lincoln Park should be included in the taking to provide material for fill and location for an overhead crossing over Mission Road and over North Broadway also. The route if kept east of Pasadena Avenue can drop down into the Arroyo to join with other park roads toward the city. Part of the way the width may be less than 225 feet; in other portions it should be wider to meet existing street and lot lines.

61. *Arroyo Seco Park and Parkway.*

From the Los Angeles River at Elysian Park to the mountains, already much of the land for a park and parkway system up the Arroyo Seco has been acquired, including Sycamore Grove, two Victory Parks, Lower Arroyo Park, Arroyo Seco Park, Brookside Park, Oak Grove Park, and the water lands, 1,377 acres in all. About 43 acres more will be needed to eliminate various small holdings and to complete the route, or more if boundaries are adjusted to allow space for really ample park driveways where narrow streets now exist.

From Riverside Drive at Elysian Park the park road should either cross on the Dayton Avenue bridge or dip down and follow the river bed, or both, then follow the edges of Arroyo Seco low enough to pass under bridges, with connections up to the streets in places.

Through the parks from Victory Park to the mountains some remnants of private property should be acquired and park drives and border streets of ample width are needed to afford pleasant continuous travel from the city to the mountains. At Devil's Gate Dam there is need for a good connection around the dam on one or both sides and possibly for some additional lands to protect park views and park features.

Under the Colorado Street bridge there is still some vacant land in private ownership that should be publicly owned.

62. *Elysian Park.*

The City of Los Angeles now owns 600 acres in Elysian Park hilltops, but does not own the enclosed valleys toward the south. About 420 acres more should be acquired to increase the value of this close-in public property and plans are now being considered by the city to acquire a large additional area. This additional area is partly vacant and should be acquired before large sums are spent to develop it for other uses. A street has been suggested through Chavez Ravine, but it will be much better if



that entire ravine can be devoted to recreation and made a part of the park. From the proposed In-town parkway at the southwest corner a drive should extend along the westerly ridge through the pass at the head of Chavez Ravine to connect with the proposed Los Angeles River Parkway in both directions along the northerly face of the hills.

With the proposed extension of the area, various types of park scenery can be developed within the park itself, and recreation can be encouraged in a way not possible in the hilltops alone. Insofar as possible, the steep slopes surrounding the ravine should be included in the park extension to control the park scenery and to keep private development from detracting from the park value.

The bottom of Chavez Ravine near the easterly end is easily accessible from the city and would make an ideal place for athletic fields of large size to serve large crowds, and on the slopes a golf course may be possible.

### *63. Los Angeles River Parkway.*

Riverside Drive from Elysian Park to Griffith Park has been considered as a possible route for a parkway. It is now being developed as a busy street and is destined to become simply another traffic artery. The south bank of the Los Angeles River on the other hand is a region of low valuations and poor developments, and from the Dayton Avenue bridge to Griffith Park the bank of the river and the river bed should be acquired with enough upland to afford ample space for park-like treatment. This route should connect with the Arroyo Seco under the Dayton Avenue bridge, and with the Elysian Park entrance where it now enters Riverside Drive northwest of the park.

### *64. Griffith Park.*

Griffith Park is the largest public area in the Los Angeles Region, outside the National Forest reserves, available for park and recreation

purposes. The park contains nearly 4,000 acres, largely in steep mountain lands of relatively limited recreational value. About one-quarter of its area, however, is level enough to be used for active recreation. Of this intensively usable land nearly one-fourth has recently been cut off from the main park by Victory Boulevard, a busy highway along the river bottom through the park.

In addition to Griffith Park lands there are now also several other areas of adjacent water lands in public ownership, having high value for park and recreational uses, that should be and doubtless can be made a part of the park reservation. Nearly 600 acres of such lands might be made available and thus serve to almost double the intensively usable area of this great park reservation.

The park and water lands also are unfortunately cut in two by the highway above referred to, so that there is little possibility for creating a single large area having a fine quality of interior park scenery and unity unless that road can be diverted around the park, but in the northwesterly section where much of the water land lies there is still space that can possibly be dedicated to a high type of park use if properly guarded. Victory Boulevard can be and should be relocated east of the river along the power line and the intervening small parcels should be publicly acquired.

In Griffith Park itself there are possibilities for the development of park features and park scenery of far greater value than have as yet been brought out. In time, space should be found elsewhere on land of less value for the propagating houses and shops and work yards so that the interior of the great park area can be made more park-like and beautiful and those fine open spaces can be kept free from obstructions as open scenery for public enjoyment. The valley sections of the park itself can be made finer and finer as time goes on by the gradual development of suitable enclosing and surrounding foliage masses, and by development of interior groups and masses of vegeta-

tion with finely proportioned, varied and interesting open spaces where most appropriate.

There is an enormous value to the people at large in a simple, quiet, beautiful open space screened in and kept free from all evidences of commercial activities and from the less attractive conditions of the outside world. This value can be created and developed only in such an area as Griffith Park or other large reservations, and it is worth creating even to the exclusion of some of the many kinds of activities that insist on finding a place in the best part of every large park.

#### 65. *Upper Los Angeles River Parkway.*

Four miles from Griffith Park westward to the Tujunga Wash, the upper Los Angeles River with adjacent water lands and necessary drainage channels offers a good location for a parkway westward. Already the river is being constricted to an ugly deep channel and the channel is being crowded on both sides. A strip wide enough to provide reasonable space for border streets, and a pleasant roadway should be from four or five hundred feet wide to twelve or fifteen hundred feet in places. Near Griffith Park all of the pleasant valley on the south side of the river should be included in the boundaries. Farther west the present private road may well serve for the south boundary as a park drive and border street. Through Universal City and west to the sharp bend in Ventura Boulevard the local street should form the south boundary.

The banks along the river range from five to thirty feet in height and are higher along the south than the north shore most of the way. The park drive doubtless should follow the southerly shore.

#### 66. *Turnbull Ridge Parkway.*

From the Whittier Narrows eastward up the Puente hillsides to Turnbull Canyon Road, several possible routes for a parkway two

hundred and twenty-five to four hundred feet or more in width have been considered, but the most practical and most attractive route climbs the southerly face of the hills from the Workman Mill Road along the route recently surveyed for a roadway by the County. A width of two hundred and fifty feet along Workman Mill Road is needed to continue that road as a fairly wide traffic road on the easterly edge of the parkway. This route would make a veritable skyline drive overlooking the valley and plains to the south.

#### 67. *West Puente Hills Parkway.*

From the Turnbull Ridge Parkway an extension nearly thirteen miles long and from three hundred to four thousand feet in width is proposed to include the hilltops down to reasonable locations for side roads. This route following along or near the line recently surveyed by the County for a ridge road from Turnbull Canyon to Brea Canyon Road, passes through some interesting canyon tops and upland valleys with attractive native growth and with the finest views toward the mountains. A few oil wells will be encountered and land acquisition can be made subject to existing operating privileges. This is one of the routes where the owners of large areas might well be persuaded to set aside land for a really *fine* public parkway and reservation as a splendid monument to the donors. The plan should be so designed that the remaining property along the sides can be developed to the best advantage and will benefit by being near a really fine public way.

#### 68. *La Habra Connection.*

From the proposed parkway above mentioned, a branch toward La Habra as far as the County line should be acquired to meet the possible location that may seem best in Orange County for future extensions.

*69. East Puente Hills Parkway  
and Reservation.*

East of Brea Canyon Road across the Diamond Bar Ranch to the big basin southwest of Pomona, a route is proposed following the ridge line as surveyed by the County for a short distance, then turning northward across the head of the broad upland valley of the Diamond Bar Ranch to enter the big basin from the west.

A number of fine upland features along the route should be preserved and boundaries have been suggested to include these.

At the head of Rodeo Canyon, two miles east of Brea Canyon Road, where the route turns north, a rugged and picturesque gorge is encountered that will involve heavy construction.

This parkway should be ample in width as proposed for the West Puente Hills Section, and this is another section that might possibly be acquired by gift on the same basis as that suggested for West Puente Hills (No. 67 above).

*70. Pomona Basin Reservation.*

Southwest of the City of Pomona at the east end of the Puente Hills lies a large basin surrounded by rolling hills. The basin with the slopes to the rim of the hills includes about 2,400 acres. The entire area with one farm group and with fine oaks and sycamores in the canyons would make a complete self-contained unit for an extensive rural park of the finest type, with ample space for all sorts of recreation activities, such as golf, ball games, picnic groves, auto camps and hiking trails. The area should be acquired and reserved for later development. It is apparently now in only one or two large ownerships and should be acquired before it may be broken up.

*71. Pomona Parkway.*

From the Pomona basin northward to the

Puddingstone Reservoir to cross the upper end of the Spadra Valley at its narrowest point a connection is planned to drop gradually from the rim of the above mentioned basin along the face of the slopes among existing native walnut trees and in fine command of views of the mountains. Crossing the valley, where two highways and the railroad are in close proximity, plans for the parkway should provide for ultimately bridging over all of them, even though grade crossings may be necessary at present. North of the railroad, walnut groves on flat lands are to be crossed and a three-road parkway 225 feet or 250 feet wide should be made. From there the route should climb northeasterly toward the Puddingstone Reservoir.

*72. Puddingstone Reservoir Park.*

The Puddingstone dam now subjects 500 acres or so of land to flooding and may create at times a fairly large lake, fluctuating with rainy conditions and, therefore, of limited recreational value. The reservoir lies in a basin at the east end of the San Jose Hills. A reservation surrounding the basin and extending to reasonable lines for boundary streets is suggested. Most of the land is unimproved, except some areas lying so low that they will be flooded by the reservoir.

*73. Ganesh Parkway.*

East of the Puddingstone Reservoir, the County owns 73 acres of fair grounds, and south of that the City of Pomona owns 61 acres in Ganesh Park. From the proposed reservation at Puddingstone Reservoir a connection to these two areas may well be made, although not an essential link in the proposed park system.

*74. La Verne Parkway.*

From Puddingstone Reservoir northward to the mountains across the upper end of Walnut Creek and of San Dimas Valley a route is

proposed as a short link between the hills and the mountains. This connection, involving no particular local problems, can best be acquired along the east side of Artesia Avenue, leaving that street for the westerly road of a three-road parkway.

*75. San Antonio Cone Reservation.*

As the easterly unit of the proposed route along the base of the mountains, the San Antonio Cone extending from the County east line to the flood control basin at Palmer Canyon offers a peculiar type of landscape scenery. At the mouth of the San Antonio Canyon a perfect cone has formed as a half circle several miles across, extending into Claremont and far into San Bernardino County. High up on this cone against the base of the mountains, the parkway is planned to cross the cone, and on the cone a broad strip of land having relatively low commercial value should be included in the plan, wide enough to preserve a bit of the natural character of this type of country and wide enough to keep a fairly open view in both directions over the length of the route. This area may doubtless have some value for absorption of water as well. The northerly boundary may well include the existing road along the base of the mountains and an extension of its line westerly. The width should be not less than 1,200 feet to 1,500 feet for much of the distance, to be in scale with the country.

Oaks, sycamores, yuccas, holly and other native growth should be developed to frame the scenery along this route.

*76. Live Oak Park and Parkway.*

From the Palmer Canyon Flood Basin westward to San Dimas Wash the route should pass above the foothills around the branches of Thompson Creek and across Live Oak Creek and Marshall Creek through most interesting rolling uplands of wild and rugged waste lands. The reservation should be broad enough

to control local scenery and to include many interesting local features; the boundaries where practical should follow lines where border roads can be made to encourage favorable development of the adjacent area. Both sides of Marshall Creek should be included in the taking, and west of these Wheeler Street can form the southerly boundary of the proposed reservation; a width of 800 feet to 1,000 feet is desirable.

Along this section ample space should be available for picnic grounds and many forms of recreation for auto parties. This will form one of the most picturesque and attractive sections of the foothills chain of parkways.

*77. San Dimas Cone Reservation.*

From the San Dimas Canyon two miles westward to Artesia Avenue a reservation is proposed on the San Dimas Cone. This cone is less conspicuous as a geological feature than the San Antonio Cone and it has been deeply eroded. The plan proposes to acquire the wash and some of the land to the north of it up to the forest boundary, and to include the 16-acre County park at Artesia Avenue and the 80-acre park on the hills above. The main park driveway may follow one or both of two routes, one along the San Dimas Road to the small park, then turning northwest; the other to cross on the foothills higher up and to connect also with the route from La Verne (No. 74).

*78. Glendora-San Dimas Parkway.*

From Artesia Avenue the route should run west to the Dalton Washes across the foothills high above most of the present developments. This is another picturesque and attractive link in the proposed system, through grazing and wild lands, having much natural charm along the way that should be preserved, and commanding fine outlooks and views over the valley.

*79. Glendora-Azusa Parkway.*

From the Dalton Washes across the foothills above Glendora and Azusa to the San Gabriel Wash, a straight line location has been surveyed by the County for a main highway. This line should be followed, taking a width of 300 feet or so from Sierra Madre Avenue southward to provide for a three-road attractive formal parkway. This route crosses land well developed in citrus orchards, and it is possible that the land can be acquired for three roads to be developed when needed and the citrus groves can be continued in use for many years.

*80. Azusa Golf Grounds Site.*

Northeast of Azusa the hilly spur projecting from the mountain mass and lying south of Sierra Madre Avenue, offers an unusually interesting site for golf grounds and picnic grounds, and for local park uses as well. The land is now undeveloped and should not be costly.

*81. San Gabriel Wash Reservation.*

From the south boundary of the forest at the mouth of San Gabriel Canyon southwestward to the Whittier Narrows, the San Gabriel River has spread out across a basin three or four miles in width, forming an enormous wash in which the river is now partly confined to a limited channel. In the wash are large gravel pits and gravel washing machines, and in places houses and cultivation have spread into the wash, but there is still a large area of waste land subject to possible flooding at long intervals and unsuitable for agricultural or residential development. In this area a spreading basin of several thousand acres is needed for flood waters, and around this area definite boundaries for a good type of development should be established. Within the boundaries of the wash, plans should be made for the most satisfactory development of basins, dikes,

gravel pits, highway crossings, recreation areas and general park scenery of a type suited to the situation and attractive as a foreground over which to enjoy views of the mountains from border streets and park drives. A plan has been studied to include within the wash from the Forest on the north to Los Angeles Street west of Baldwin Park a strip 4,000 feet to 9,000 feet wide and seven miles long, containing 5,000 acres, within which area the land should be definitely withdrawn from real estate development to form a public reservation to be used under a well-devised and appropriate plan for the various purposes it can best be made to serve. In places gravel pits are being sunk to a tremendous depth so close to existing highways and railways that trouble will certainly arise, and conditions are likely to become still worse in time unless properly controlled.

While it is evident that a plan for broad and extensive development is needed to lead toward a satisfactory permanent result in this great area, such as can be produced only under general public control, it is difficult to say just what that plan should be until far more time and study has been given the problem than is possible in a preliminary survey. That such a plan is needed is evident and it is believed that a large reservation such as is here proposed should be made at once subject to joint planning by flood control authorities, park authorities, and suitable agreements regulating the gravel removal that can be and should be permitted or encouraged to continue to operate within the area.

In the area the County already owns gravel pits, various road plans are already being developed and flood control dikes have been built, but so far there is yet no definite plan designed to lead to a complete and satisfactory solution of the problems of the entire area under the many more or less conflicting interests. At the upper end the mountain-side parkway should cross, and border streets and park drives along both sides of the wash should

eventually serve as important north and south routes.

82. *Upper San Gabriel River Parkway.*

From the wash above described southward for five and a half miles to the Whittier Narrows the river wash becomes more constricted. A few hundred feet of width will be required for flood waters and a few hundred feet more should be added for park drives and border streets, making a total of 1,000 feet to 1,200 feet that should be acquired, within which the flood channel can be left rather irregular in outline and less sluice-like than would be necessary within a narrower space.

83. *San Gabriel River Golf Grounds.*

Between the Workman Mill Road and the river north of the Puente Hills, two miles above the Whittier Narrows, there is an area of 360 acres that would make an excellent golf site on rolling mesa land that could well be made a part of the reservation to be reached by pleasant parkways from various directions. The lowland is farmed and the upland is dry farm or pasture land with some fine trees and with room for generous planting when developed.

84. *Upper Rio Hondo Parkway.*

From the Whittier Narrows northward to Eaton Wash, a distance of three miles, a channel 400 feet to 500 feet in width is needed for flood control with three channels entering from the north. Along that wash a strip 1,000 feet or so in width should be acquired for parkway development similar to that proposed for other like channels.

Near the southerly end the west boundary should be kept up on the high bluffs overlooking the valley, where a number of oil wells exist that may be allowed to continue under proper regulation as proposed for other sections also.

85. *Eaton Wash Parkway.*

Six and one-half miles from the Rio Hondo to Villa Avenue, Pasadena, a right of way 50 feet to 110 feet wide will be needed for flood control. Along the northerly portion of this wash the Edison Company has a power line and along the high banks and existing streets the developments suggest a very irregular boundary for a parkway 300 feet to 400 feet wide, just wide enough to include those features of interest and of necessity, and to afford room for a park driveway, and on each side for border streets.

A careful study of the route has shown that a plan can be devised to make a satisfactory parkway along the wash of varied and interesting character, but needing much detailed study to determine the exact boundaries that can best serve for the needed right of way.

86. *Monrovia-Mount Olivet Parkway.*

From the upper end of San Gabriel Wash for nearly two miles westward following along or near the line surveyed by the County, the route should rise gradually to the top of the mesa back of Mt. Olivet Station. In the upland section, a broad area of the rougher lands should be included to protect the scenery along the parkway and to protect fine views out over the valley from this elevated location.

Fine oaks and pines are included within proposed boundaries and afford excellent places for picnics and park enjoyment.

87. *Monrovia Parkway.*

From the canyon above Mt. Olivet westward for the next two miles to the line of Myrtle Avenue in Monrovia the route should follow a line higher up than the line surveyed by the County. The right of way should be 250 feet or 300 feet wide and the lines should be irregular to follow good grades and avoid existing improvements where feasible. For much of the way the route passes through one large estate, and passes along the upper edge

of some fine citrus groves. Heavy grading will be necessary in crossing Monrovia Canyon.

*88. Monrovia Golf Grounds Site.*

Northeast of Monrovia on one large estate there are rolling hills, partly used for grain fields and partly in citrus groves, that would make an ideal site for a country park and golf site, from 120 acres to 250 acres or more in extent. In locating the parkway through this region it may prove more practical and better economy to take much or all of the estate than to pay dearly for a part of it and in that case this additional area most certainly should be included.

*89. Santa Anita Canyon Park and Parkway.*

Behind the mountain spur between the Myrtle Street line and Santa Anita Canyon for a distance of a mile and a half through upland valleys, practically following the line surveyed by the County, the parkway should widen out to include most of the beautiful basin at the easternly end, and all of the smaller valley descending westward to Santa Anita Canyon. Some heavy grading will be necessary in entering the canyon, but that seems unavoidable.

Live oaks, sycamores and eucalyptus trees make this route especially attractive. Some small orchards of doubtful value will be included in the boundaries.

*90. Sierra Madre Parkway.*

From Santa Anita Canyon westward to Eaton Wash, nearly four miles, the proposed route follows the line surveyed by the County part of the way, but rises above it in Sierra Madre and falls below it farther westward. In order to get a fair width the parkway should include some land above Grandview Avenue. Through Sierra Madre a number of houses will necessarily be involved and a number of streets should be included, but as a link in a long line the additional cost for this section

will be justified and the length of the improved area to be crossed is not great as compared to the length of the total scheme.

Several vineyards will be involved and some heavy grading is necessary to cross the many canyons that penetrate the mountains above. Just west of the center of Sierra Madre the 70 acres of publicly owned water land in Bailey Canyon that has been considered for a possible botanic garden joins the parkway on the north and that area should certainly be kept as a public holding with its fine canyon mouth and bit of open land.

*91. Sierra Madre Golf Grounds Site.*

South of the parkway, partly west of but chiefly east of Sierra Madre Villa Avenue, 120 to 250 acres of rolling foothills land now mostly in vineyards or vacant may well be included in the reservation to control the view out over the valley from the parkway and to afford space for a bit of country park and possibly golf grounds.

*92. Eaton Canyon Wash Reservation.*

From Villa Avenue, Pasadena, and Eaton Wash to the mouth of Eaton Canyon proper, a distance of nearly three miles, the wash widens out from 2,000 feet to 3,000 feet in width, forming a broad basin that should be entirely included in a reservation. A drive should follow the westerly rim of the basin, the foothills parkway should swing into the basin from the east on the face of the bluffs to reach the bottom near the head of the basin where the reservation will be relatively narrow, and from there it should follow the northerly face just above the floor along the line surveyed by the County to the upper end of the wash, and cross the Mt. Wilson Toll Road.

The upper end of the wash above New York Avenue is beautifully wooded with oaks and sycamores, and offers a fine place for picnics, regional recreation, and local park interests as well. Extremely fine views over the valley are found from the high mesa along

the proposed upper roadway. About 120 acres of the upper end is now owned by the City of Pasadena as water land.

93. *Mt. Rubio Parkway.*

From Eaton Wash westward about two miles along the line surveyed by the County to Rubio Canyon at Lake Avenue, the route follows a high location through a corner of the National Forest and chiefly back of developed areas. The National Forest section contains some fine eucalyptus trees and there are oaks and sycamores in Rubio Wash. This section should be wide enough to provide for two or three roadways and to control the views below, possibly 250 feet to 300 feet.

94. *Altadena Parkway.*

From Lake Avenue to the Arroyo Seco at Millard Canyon, approximately two miles, the route should follow the surveyed line, except at Millard Canyon, where a higher line is proposed to avoid a dip in the profile. Loma Alta Drive can be used as the lower road of a three-road plan, 225 feet to 300 feet in width. There is little development of costly character above Loma Alta Drive.

At Millard Canyon some costly grading will be required to drop down into and across the canyon. There is now a plan for a State Highway bridge across the mouth of Arroyo Seco, but that will probably be needed primarily for local traffic from many nearby streets.

At the mouth of Arroyo Seco the parkways will meet one of the most agreeable and attractive of the existing canyons lying within the forest boundaries, but now largely privately owned by water companies and others. For the protection of the water, the City of Pasadena would be better served if all private holdings were eliminated and the canyon were closed as a water reservation. The canyon has, however, a very large recreational value, and it is believed that most of the private holdings should be acquired for this purpose. The build-

ings should nearly all be removed and the public should be admitted only under such restrictions as will ensure proper protection of the water. Under any plan the entire floor of the canyon and the adjacent slopes should be acquired as public or semi-public lands.

95. *Arroyo Seco to Angeles Mountain Road Parkway.*

From the mouth of Arroyo Seco Canyon westward, climbing the face of the steep, rugged hills on a five or six per cent grade, the route is planned to rise to the mesa near the Edison Substation overlooking the canyon to the north and the valleys toward the south, and to connect with the proposed Angeles Mountain Road now being planned by the State. (See Chapter VII, No. 211.)

96. *Angeles Mountain Road to La Canada and Whiting's Woods Parkway.*

From the Angeles Mountain Road near the Edison Substation westward along the proposed new State Highway line to Haskell Street and from there westward to cross Michigan Avenue near Rosemont Avenue, and to cross blocks diagonally southwest to Whiting's Woods, a parkway four miles long is planned, most of the way through area partly subdivided and sparsely occupied. This should be 225 feet to 300 feet wide with additional area at a few places where fine views should be protected.

97. *Verdugo Creek-Tujunga Parkway.*

From Whiting's Woods westward the route should follow Verdugo Creek, taking in the drainage channel, which should be 25 feet to 80 feet wide, with enough of the side slopes to include trees and shrubby growth and to preserve the natural charm of the valley, and with width enough also for a broad pleasure drive and for additional border roads. Near the upper end of Verdugo Creek the small



open basin should be included to make an attractive local park. At the head of the valley the route should cross diagonally over to the mountains to wind down around the north side of the City of Tujunga to the saddle where the canyon road now crosses over into Tujunga Canyon. From there the roadway should wind down the north face of the small butte westward to the canyon floor to connect with proposed roads in the Tujunga Wash and with roads into the forest area.

*98. Whiting's Woods and Brand Park Reservation.*

On the south side of Verdugo Hills there is now a public area of 616 acres in Brand Park that is undeveloped and little used. North of this park on the northerly slopes is an attractive wooded canyon and basin at Whiting's Woods that has been suggested for park purposes. The lower portion of the woods offers a fine place for picnics and a small woodland park. The basin back of it affords space for a pleasureway on winding lines and easy grades up to the summit in Brand Park 3,000 feet above the sea with a connection through the saddle a few hundred feet lower, from which the park drive can again wind down the southerly slope in Brand Park to the canyon in its southwesterly boundary to meet the proposed Glendale Parkway to Griffith Park. This proposed road over the hill having the advantage of large park reservations along the route and fine views from the summit will form the only practicable cross connection for a parkway in a distance of ten or fifteen miles between the Tujunga Wash and the Arroyo Seco. Much heavy construction will be involved in making a satisfactory road.

*99. Glendale Parkway.*

From Brand Park to Griffith Park across Glendale a parkway connection is proposed to loop westward, then southeastward back of Glendale, then to cross Grand View Avenue

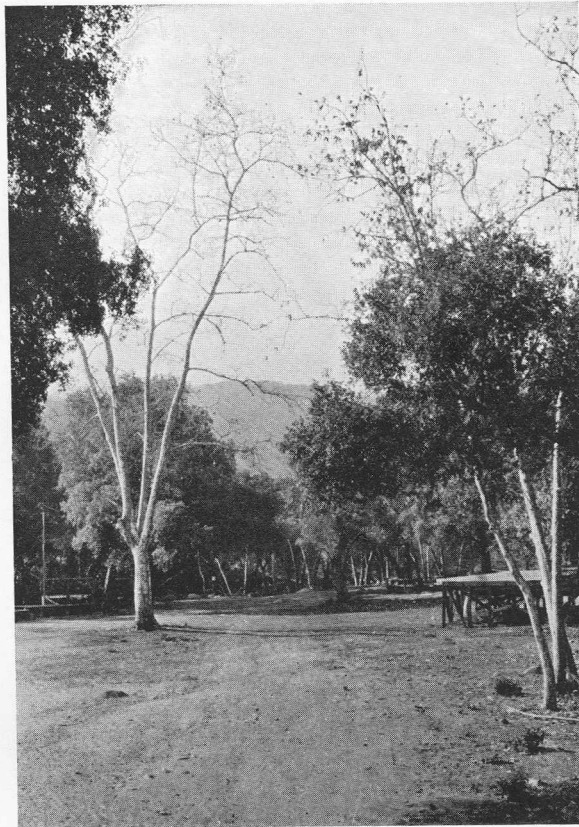


PLATE 64. Whiting's Woods, a shady spot in the north face of Verdugo Hills that should be included in a public reservation. (Photo by Fiss.)

and to turn south parallel to the avenue to the northeast corner of Griffith Park. Some improvements will have to be crossed through Glendale to reach Griffith Park, but the most feasible route should be acquired or made a part of definite plans.

ESTIMATE OF COSTS

A detailed estimate of probable cost for acquisition and for improvement has been made for each unit of the system on the basis of present selling values for acreage and lots in each neighborhood, on the assumption of purchases and of improvements adapted to the conditions near each section.

TABLE OF ESTIMATED PROBABLE PURCHASE COSTS AND IMPROVEMENT COSTS FOR EACH TYPE OF PARK AND PARKWAY

Type of Project Proposed	Length in Miles	Area in Acres	Cost of Acquisition	Cost of Improvements	Total Cost
A. Shore Front Roads and Park Areas (not including costs estimated under Beaches)	36.5	6,690	\$ 7,400,000	\$18,400,000	\$ 25,800,000
B. Large Upland Reservations	87.5	30,575	22,670,000	6,260,000	28,930,000
C. Large Drainage Basin Reservations	34.3	11,600	9,250,000	2,410,000	11,660,000
D. Narrower Drainage Basin Reservations	53.9	6,270	12,800,000	3,150,000	15,950,000
E. Connecting Parkways	214.0	11,560	39,830,000	13,610,000	53,440,000
F. Special sites for large athletic fields, or golf courses or other uses (not including costs included under Regional Athletic Fields)	13.8	4,515	7,220,000	850,000	8,070,000
TOTALS	440.0	71,310	\$99,170,000	\$44,680,000	\$143,850,000

CONCLUSION

The above list of park and parkway projects covers the complete system proposed for the Los Angeles Region south of the National Forest and the mountains. It does include many but not all the existing parks, some of which are fairly large and important. It does not include beaches, strictly local parks and playgrounds, or the more remote reservations in the mountains, deserts and islands, which are discussed in other chapters.

A large number of units involving a large total acreage has been discussed, extending over a great variety of kinds of land and involving many problems. *No attempt has been made to indicate the order of urgency or preference for them*, as such a selection must de-

pend upon local factors that are constantly changing, and that should be determined as the work proceeds and as conditions affecting the various plans call for action.

Two distinct problems are involved in the plans, first the acquisition of lands and second the improvement of the projects to meet existing demands. The need for acquisition of lands is urgent now for nearly all projects before further obstacles make acquisition more difficult. The need for improvement in a general preliminary way is fairly urgent now for most of the plans, but apparently is not realized by the public in general probably because the great possibilities for better things that might be done here and the immense opportunities for better things that are being lost through lack of plans and action have not yet been made sufficiently evident.

APPENDICES

## APPENDIX NO. I

### *List of Schools in the Los Angeles Region Having More Than Five Acres Each of Available Playground Space*

(District and Unit Numbers refer to Plate 25 on Page 52.)

<i>District No.</i>	<i>Unit No.</i>	<i>School Name</i>	<i>Area of Site in Acres</i>	<i>Area of Recreation Space in Acres</i>	<i>District No.</i>	<i>Unit No.</i>	<i>School Name</i>	<i>Area of Site in Acres</i>	<i>Area of Recreation Space in Acres</i>
A-2	2	Owensmouth High	25.2	6.89	C-5	7	Abraham Lincoln, Compton	8.4	5.88
A-5	4	Van Nuys High	23.2	10.32	C-6	2	Narbonne High, Lomita	11.1	9.38
A-6	23	Lankershim High	18.2	14.0	C-6	8	Phineas Banning High, Wilmington	9.5	8.33
A-8	9	Broadway High, Glendale	24.0	22.34	C-7	5	Valmonte Elementary Site, Palos Verdes	11.23	7.86
A-8	18	New High (to be built), Glendale	19.95	10.00	C-7	19	Montemalaga Elementary Site, Palos Verdes	9.67	6.77
A-8	19	Eleanor Toll Junior High, Glendale	9.23	8.	C-7	22	Zurita Elementary Site, Palos Verdes	10.15	7.11
B-1	31	Santa Monica High	13.78	6.89	C-7	35	Coronel Park High Site, Palos Verdes	45.83	23.
B-1	42	Venice High (Jr. & Sr.)	24.95	14.9	C-7	43	Lunada Bay Elementary Site, Palos Verdes	10.58	7.41
B-2	6	Fairfax High, L. A.	24.3	9.5	C-7	47	Margate Elementary, Palos Verdes	27.73	19.4
B-2	21	John Burroughs Junior High	10.4	5.28	D-1	4	Huntington Park High	20.	10.
B-2	23	Los Angeles High	18.5	9.3	D-1	19	High School Site, Huntington Park	18.	9.
B-2	30	Beverly Hills High	18.1	12.1	D-1	30	Lindbergh Elementary, Compton	8.6	6.02
B-3	43	J. A. Foshay Junior High, L. A.	7.4	5.3	D-1	33	Poinsettia Elementary, Compton	7.5	5.25
C-1	1	El Segundo Elementary	7.21	5.	D-3	2	East Whittier Elementary	8.48	5.94
C-1	2	El Segundo High	18.92	15.	D-3	13	Whittier High	13.4	6.7
C-2	9	Inglewood Union High, Lawndale	10.	5.	D-3	20	Excelsior Union High, Norwalk	18.66	9.4
C-2	18	Wiseburn Elementary, Hawthorne	10.	7.	D-5	3	Lowell Elementary, Long Beach	12.02	8.4
C-3	9	Jefferson High, L. A.	18.4	6.86					
C-3	34	George Washington High, L. A.	16.75	11.55					
C-3	47	John C. Fremont High, Los Angeles	26.1	10.9					
C-3	51	Hyde Park Elementary	9.8	5.12					
C-5	4	Enterprise Elementary, Compton	9.	6.3					
C-5	6	Compton High	13.7	6.85					

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District No.	Unit No.		Area of Site in Acres	Area of Recreation Space in Acres	District No.	Unit No.		Area of Site in Acres	Area of Recreation Space in Acres
D-5	5	Wilson High, Long Beach .....	13.56	6.78	F-3	1	San Marino Elementary .....	12.	6.
D-5	27	Long Beach Polytechnic High .....	19.16	9.58	F-3	5	Garfield Elementary, Pasadena .....	11.5	8.05
E-2	617	Hollenbeck Junior High and Boyle Heights School, L.A. ....	9.86	6.1	F-3	12	High School, Alhambra .....	17.82	8.9
E-3	30	James A. Garfield Junior High, L. A. ....	15.	11.5	F-3	21	Alhambra High .....	8.66	6.1
E-3	3	Washington Elementary, Los Angeles .....	7.5	5.25	F-4	11	High School, Monrovia .....	23.6	11.8
E-3	4	Montebello High .....	12.0	6.	F-4	17	Huntington Elementary, Monrovia .....	7.3	5.1
F-1	2	Eagle Rock High .....	12.5	6.25	F-4	18	Monrovia High .....	8.5	5.95
F-2	9	Pasadena High School .....	38.0	12.66	F-4	24	Woodrow Wilson Junior High, Pasadena .....	14.98	13.73
F-2	11	McKinley Junior High, Pasadena .....	8.05	6.05	F-5	2	El Monte High .....	17.	9.
F-2	15	John Muir Technology, Pasadena .....	15.	11.	F-5	3	Columbia Elementary, El Monte .....	12.1	8.47
F-2	17	Thos. Jefferson School, Pasadena .....	10.57	7.	F-6	4	Citrus Union High, Glendora .....	15.68	7.89
F-2	18	John Marshall Junior High, Pasadena .....	14.37	10.8	F-6	19	Puente High .....	10.71	5.85
F-2	21	Henry W. Longfellow School, Pasadena .....	7.75	5.	F-8	3	Bonita High, San Dimas .....	22.41	11.25
F-2	22	Washington Junior High, Pasadena .....	12.64	10.5	F-8	4	La Verne Elementary .....	8.6	6.
F-2	41	South Pasadena City High .....	15.	7.5	F-8	6	Claremont High .....	18.22	9.1
					F-8	13	Pomona High .....	7.9	5.53
					Y-4	2	Torrance High .....	18.75	10.58
					Y-4	3	Torrance Elementary .....	7.55	5.3
					Total				636.82*

\*Since the above was written the Redondo Union High has acquired a 22-acre athletic field.

## APPENDIX NO. II

### *List of Existing Public and Quasi-Public Open Spaces, Each of One Acre or More, in the Los Angeles Region (Not Including School Grounds)*

(District and Unit Numbers refer to Plate 25 on Page 52.)

SUMMARY BY CLASSES			District No.	Unit No.	Areas Class in Acres
<i>Public Recreation Areas:</i>	<i>No. of Areas</i>	<i>No. of Acres</i>			
A. Parks and playgrounds 1 to 5 acres each	95	247	A-4	11	San Fernando Reservoir Lands G 1,154
B. Parks and playgrounds 5 to 25 acres each	69	839	A-4	12	Olive View Sanatorium, San Fernando I 656
C. Parks and playgrounds 25 to 100 acres each	19	934	A-4	14	San Fernando Mission I 4
D. Parks and playgrounds 100 to 1,000 acres each	12	3,896	A-4	15	San Fernando Mission Gardens I 38
E. Parks and playgrounds over 1,000 acres	1	3,752	A-4	16	Maclay Reservoir Site, San Fer- nando G 6
Total	196	9,668	A-4	17	Gravel Pit on San Fernando Road I 40
<i>Quasi-Public Recreation Areas:</i>			A-4	18	Dexter Park, near Little Tujun- ga Canyon K 40
F. Golf Clubs and Country Clubs (outside of park areas)	42	6,179	A-5	9	Sherman Way, San Fernando Valley I 24
<i>Quasi-Public Areas Having Possibly Some Recreational Value:</i>			A-5	10	Whitley Park Country Club, North Hollywood F 210
G. Water Lands	53	6,523	A-5	11	Hollywood Country Club, North Hollywood F 104
H. Cemeteries	17	1,347	A-5	13	Eagle Airport, North Holly- wood J 33
I. Public Institutions and other quasi-public lands (County, City, State and private)	36	6,267	A-5	14	Hollywood Heights Polo and Hunting Club F 78
J. Airports (not including small landing fields)	31	2,991	A-6	9	Pioneer Park, Burbank C 35
			A-6	22	North Hollywood Park and Playground C 90
			A-6	26	Burbank Park, Burbank A 2
			A-6	28	Lakeside Golf Club, North Hollywood F 100
			A-6	30	Glendale Airport, Glendale J 20
			A-6	31	Burbank Civic Center B 20
			A-6	32	Lockheed Airport, Burbank J 16
			A-6	33	Panorama Airport, Burbank J 38
			A-6	34	Valhalla Cemetery, Burbank H 135
			A-6	35	Hollywood Aero Corporation Field, North Hollywood J 40
			A-6	37	Fernangeles Park, North Holly- wood B 10

#### DETAILED LIST OF UNITS \*

District No.	Unit No.	Areas Class in Acres
A-1	4	Chatsworth Reservoir Lands G 1,309
A-1	5	Oakwood Cemetery, Chatsworth H 200
A-2	8	Encino Park, Ventura Blvd. A 4
A-2	9	El Caballero Country Club F 120
A-2	10	St. Andrews Golf Club F 120
A-4	6	Brand Park at San Fernando Mission B 6
A-4	8	County Rock Quarry at Pacoima on San Fernando Road I 191

\*Since this table was compiled, Metropolitan Airport, near Van Nuys, Boeing Airport, in Burbank, Western Air Express Field, in Alhambra, and possibly some others, have been opened, while some airports have been discontinued. Areas included in this table under one acre in extent are shown as one acre; other fractions have also been omitted.

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District Unit		Areas Class in Acres	District Unit		Areas Class in Acres				
No.	No.		No.	No.					
A-6	38	Stonehurst Park, near San Fernando	B	15	B-1	24	Palisades Avenue Park, Santa Monica	A	1
A-6	39	Lopez Water Lands in Burbank	G	53	B-1	26	Palisades Park, Santa Monica	C	46
A-6	40	Lopez Water Lands in Burbank	G	43	B-1	27	Lincoln Park, Santa Monica	B	6
A-6	41	Lopez Water Lands in Burbank	G	10	B-1	34	Santa Monica Playground	A	1
A-6	42	Pomeroy-Hooker Water Land in Burbank	G	445	B-1	40	Machado Park, Venice	A	3
A-6	43	Los Angeles Water Land in Burbank	G	22	B-1	47	Westward Ho Country Club at Venice	F	28
A-6	45	Victory-Van Owen Park, North Hollywood	D	172	B-1	49	Lindbergh Park, Culver City	A	4
A-7	2	Monte Vista Park, Sunland	B	6	B-1	50	Victory Park, Culver City	A	3
A-7	11	Flintridge Country Club	F	70	B-1	53	California Country Club at Culver City	F	115
A-7	13	Oakmont Country Club, Glendale	F	80	B-1	57	South Side Park, Santa Monica	A	1
A-8	13	Nibley Park, Glendale	A	2	B-1	58	Holmby Park, near Beverly Hills	B	10
A-8	16	Brockmont Park, Glendale	A	1	B-1	61	Lindbergh Park, Santa Monica	A	1
A-8	31	Hawley Playground (leased), Los Angeles	B	5	B-1	62	Santa Monica Park	A	4
A-8	32	Griffith Park Playground	B	20	B-1	63	Woodlawn Cemetery, Santa Monica	H	20
A-8	34	Verdugo Park Site, Glendale	B	10	B-1	64	Venice Beach	B	24
A-8	35	Griffith Park Airport, Los Angeles	J	157	B-1	66	Soldiers' Home, Sawtelle	I	712
A-8	37	Raymond Reservoir Site, Glendale	G	6	B-1	68	Santa Monica Reservoir Site	G	5
A-8	39	Grandview Cemetery, Glendale	H	30	B-1	71	Centinela Sewer Lands, Mesmer City	I	40
A-8	45	Glendale Reservoir Park	A	2	B-1	73	Del Rey Gun Club, Venice	F	292
A-8	49	Campbell Street Reservoir Site, Glendale	G	14	B-1	74	Recreation Gun Club, Venice	F	257
A-8	52	Glendale Reservoir Site	G	9	B-2	1	Beverly Hills Park	A	2
A-8	57	Hunters Highland Tract—L.A. Water (San Fernando Road)	G	9	B-2	3	Beverly Hills Park	A	4
A-8	58	L. A. Water Land on Los Angeles River	G	23	B-2	9	Poinsettia Playground, Hollywood	B	7
A-8	59	L. A. Water Land on Glendale Boulevard	G	44	B-2	14	De Longpre Park, Hollywood	A	2
B-1	2	Riviera Golf Club at Santa Monica	F	300	B-2	19	Wilshire Country Club	F	106
B-1	3	Brentwood Country Club at Santa Monica	F	140	B-2	22	Los Angeles High School Memorial Park, Wilshire District	A	2
B-1	7	U.C.L.A. Campus	I	430	B-2	25	Hancock Park, Wilshire District	B	24
B-1	10	Los Angeles Country Club at Beverly Hills	F	334	B-2	27	La Cienega Playground, Beverly Hills	B	9
B-1	11	Westwood Golf Club at Beverly Hills	F	180	B-2	29	Roxbury Playground, Beverly Hills	B	16
B-1	12	Hillcrest Country Club at Beverly Hills	F	141	B-2	38	Queen Anne Playground, Wilshire District	A	4
B-1	13	Rancho Country Club at Beverly Hills	F	187	B-2	41	Vermont Avenue Parkway, Hollywood	B	8
B-1	17	Sawtelle Playground	B	7	B-2	42	Vineyard Playground, Wilshire District	A	1
B-1	18	Clover Field Airport, Santa Monica	J	55	B-2	46	Hollywood Cemetery	H	60
B-1	19	Santa Monica Golf Course	D	109	B-2	47	California Aerial Transport Field, near Beverly Hills	J	30
					B-3	5	Yale Playground, Los Angeles	A	1
					B-3	11	Echo Park Playground, Los Angeles	A	5
					B-3	64	Barnsdall Park, Los Angeles	B	10
					B-3	65	Silver Lake Reservoir Land, Los Angeles	G	147

District No.	Unit No.	Areas Class in Acres	Areas	District No.	Unit No.	Areas Class in Acres	Areas
B-3	68	Echo Park, Los Angeles..... C	27	C-3	10	Ross Snyder Playground, Los Angeles..... B	10
B-3	69	Everett Park, Los Angeles..... A	1	C-3	12	Slauson Community Playground, Los Angeles..... A	1
B-3	70	Old U.C.L.A. Campus, Los Angeles..... I	25	C-3	15	Slauson Playground, Los Angeles..... A	5
B-3	72	La Fayette Park, Los Angeles... B	11	C-3	43	Manchester Playground, Los Angeles..... B	16
B-3	73	Westlake Park, Los Angeles..... C	32	C-3	59	Harvard Playground, Los Angeles..... B	15
B-3	74	Terrace Park..... A	1	C-3	61	Chesterfield Square Park, Los Angeles..... A	2
B-3	75	University of Southern California Campus..... I	10	C-3	67	South Park, Los Angeles..... B	19
B-3	76	Occidental Boulevard Park, Los Angeles..... A	1	C-3	75	Vermont Square Park, Los Angeles..... A	2
B-3	77	St. James Park, Los Angeles..... A	1	C-3	80	Exposition Park, Los Angeles... D	114
B-3	78	Rosedale Cemetery, Los Angeles..... H	50	C-3	87	Pacific Air Transport Field, at Baldwin Hills..... J	17
B-3	79	Belleview Reservoir Land, Los Angeles..... G	9	C-3	88	Lincoln Air Line Field, at Baldwin Hills..... J	17
B-3	80	Rowena Reservoir Land, Los Angeles..... G	10	C-3	89	American Aircraft Field, at Baldwin Hills..... J	38
B-3	81	Darby Street Reservoir Land, Los Angeles..... G	9	C-3	90	Rogers Airport, at Baldwin Hills..... J	14
C-1	3	El Segundo Park..... A	3	C-3	94	Sunset Golf Course, Baldwin Hills..... F	306
C-1	4	Los Angeles University Lands, Del Rey Hills..... I	100	C-4	1	Manhattan Beach Park..... A	3
C-1	5	Loyola University, Del Rey Hills..... I	100	C-4	2	Manhattan Beach Park..... B	6
C-1	6	Del Rey Beach Park..... B	10	C-4	14	Redondo Beach City Park..... B	8
C-1	7	Hyperion Sewer Land, near El Segundo..... I	200	C-4	18	Vincent Park, Redondo Beach... A	2
C-1	9	Mines Field Airport, near Inglewood..... J	640	C-4	19	Hermosa Beach Park..... A	1
C-2	1	Fox Hills Country Club, near Culver City..... F	280	C-4	20	Redondo Beach Country Club... F	176
C-2	3	Inglewood Park..... C	50	C-4	21	County Beach at Manhattan Beach..... A	4
C-2	8	Potrero Country Club, Inglewood..... F	100	C-4	22	City Beach at Manhattan Beach A	1
C-2	15	Western Avenue Golf Course, near Inglewood..... F	160	C-4	26	Hermosa and Redondo Public Beaches..... B	16
C-2	22	Alondra Park, near Lawndale... D	315	C-4	24	Palos Verdes Airport, near Palos Verdes..... J	30
C-2	25	Grevillea Avenue Park, Inglewood..... A	5	C-5	12	Southwest Airport, near Gardena..... J	14
C-2	29	Inglewood Cemetery..... H	300	C-5	13	Short Airport, near Gardena... J	23
C-2	30	Los Angeles Airways Field, near Inglewood..... J	40	C-5	14	Compton Airport..... J	90
C-2	31	Master Aircraft Corporation Field, near Inglewood..... J	115	C-5	16	Roosevelt Cemetery, Gardena... H	40
C-2	32	Aero Corporation of California Field, near Inglewood..... J	18	C-6	9	Banning Park & Playground, Wilmington..... B	22
C-2	33	Kelly Airport, Hawthorne..... J	80	C-6	12	Wilmington Water Land..... G	9
C-2	34	Belleview Golf Course, near Inglewood..... F	98	C-7	1 to 4	Val Monte Park, Palos Verdes... C	35
C-2	35	Dycers Airport, near Gardena... J	160	C-7	7	Val Monte Parkway, Palos Verdes..... A	2
C-3	4	Central Playground, Los Angeles..... A	1	C-7	9	Malaga Strip, Palos Verdes..... B	11
				C-7	10	Malaga Park, Palos Verdes..... D	249



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District No.	Unit No.	Area Class	Acres	District No.	Unit No.	Area Class	Acres
C-7	14	Malaga Hills Park, Palos Verdes	C 62	D-4	12	Virginia Country Club, Long Beach	F 130
C-7	16	Martins Park, Palos Verdes	A 2	D-4	13	Long Beach Water Land & Airport	G 680
C-7	21	Zurita Canyon Park, Palos Verdes	B 17	D-4	15	Long Beach Water Land	G 10
C-7	23	Margate Canyon Park, Palos Verdes	C 35	D-4	16	Long Beach Water Land	G 95
C-7	24	Douglas Hillside, Palos Verdes	C 60	D-4	18	County Farm, near Downey	I 482
C-7	26	Del Sol Hillside, Palos Verdes	B 6	D-5	4	Recreation Park, Long Beach	D 400
C-7	27	La Costa Hillside, Palos Verdes	A 5	D-5	10	Bluff Park, Long Beach	B 7
C-7	28	Malaga Bluffs, Palos Verdes	B 9	D-5	11	Bixby Park, Long Beach	B 10
C-7	29	Bluff Cove Shores, Palos Verdes	C 69	D-5	22	Lincoln Park, Long Beach	A 5
C-7	30	Margate Parkway, Palos Verdes	A 2	D-5	31	Los Cerritos Park, Long Beach	A 2
C-7	31	Estudillo Hillside, Palos Verdes	A 5	D-5	34	Knoll Park, Long Beach	A 2
C-7	32	Landetta Hillside, Palos Verdes	B 10	D-5	36	Santa Cruz Park, Long Beach	A 1
C-7	33	Coronel Canyon, Palos Verdes	B 9	D-5	37	Lookout Park, Long Beach	A 2
C-7	34	Mirola Hill, Palos Verdes	A 5	D-5	38	Ocean Avenue Parks, Long Beach	B 6
C-7	37	Zumaya Trail, Palos Verdes	B 6	D-5	46	Alamitos Beach Park, Long Beach	A 5
C-7	38	Zumaya Canyon Park, Palos Verdes	A 5	D-5	48	Long Beach Reservoir Land	G 25
C-7	40	Lunada Canyon Park, Palos Verdes	C 35	D-5	49	Long Beach Water Land	G 20
C-7	42	Paseo Lunado, Palos Verdes	A 3	D-5	50	Long Beach, Beach	A 5
C-7	44	Resort Point Bluff, Palos Verdes	B 17	D-5	53	Long Beach Public Beach and Auditorium	B 20
C-7	45	Lunada Bay Shore, Palos Verdes	B 25	E-1	12	Downey Playground, Los Angeles	A 5
C-7	46	Rocky Point Bluff, Palos Verdes	B 12	E-1	13	Recreation Center Playground, Los Angeles	A 1
C-8	5	Averill Park, San Pedro	B 11	E-2	3	Whittier Playground, Los Angeles	A 3
C-8	8	Anderson Playground, San Pedro	A 1	E-2	9	Evergreen Playground, Los Angeles	B 6
C-8	10	Alma Park, San Pedro	A 2	E-2	13	Pecan Playground, Los Angeles	A 1
C-8	14	Point Fermin Park, San Pedro	B 23	E-2	17	Prospect Park, Los Angeles	A 3
C-8	15	Leland Park, San Pedro	B 12	E-2	18	State Street Playground, Los Angeles	A 1
C-8	18	Harbor Playgrounds, San Pedro	B 9	E-2	54	Hazard Park and Playground, Los Angeles	C 36
C-8	19	San Pedro Cemetery, San Pedro	H 3	E-2	56	Hollenbeck Park, Los Angeles	B 21
C-8	20	Fort McArthur, San Pedro	I 50	E-2	57	Hostetter Playground, Los Angeles	A 2
C-8	23	Royal Palms Golf and Country Club, San Pedro	F 220	E-2	58	Lincoln Park, Los Angeles	C 46
D-1	8	City Park, Huntington Park	B 8	E-2	59	Evergreen Cemetery, Los Angeles	H 100
D-2	5	Rio Hondo Country Club, near Downey	F 220	E-2	60	New Calvary Cemetery, Belvedere District	H 140
D-2	7	Security Airport, Montebello	J 36	E-2	61	B'nai B'rith Cemetery, Belvedere District	H 13
D-2	8	Pasadena Water Lands, Montebello	G 49	E-2	62	California Airways Field, Belvedere District	J 66
D-3	6	Alta Park, Whittier	A 3	E-2	63	County Hospital, Los Angeles	I 74
D-3	7	Central Park, Whittier	A 2	E-2	66	I.O.O.F. Cemetery, Belvedere District	H 30
D-3	9	Loftus Park, Whittier	A 1	E-3	1	Montebello Golf Club	F 120
D-3	25	Broadway Park, Whittier	A 1	E-3	5	Montebello Park	B 15
D-3	27	Whittier Water Land, Whittier	G 5				
D-3	28	Pio Pico Mansion, Whittier	I 6				
D-3	32	Mt. Olive Cemetery, Whittier	H 10				
D-3	34	State Hospital, at Norwalk	I 300				
D-3	36	State School for Boys, Whittier	I 150				
D-4	10	Houghton Park, Long Beach	C 29				

Appendix No. II

District Unit		Areas		District Unit		Areas	
No.	No.	Class	in Acres	No.	No.	Class	in Acres
E-3	11	Montebello Playground	A	1	F-3	10	Midwick Country Club, Alham-
E-3	14	Belvedere Park, Belvedere Dis-	A	3			bra
E-3	15	Monarch Airport, near Monte-	J	135	F-3	27	Savannah Park, Rosemead
E-3	16	Vail Field Airport, near Monte-	J	411	F-3	28	Airport, San Gabriel
F-1	3	Yosemite Playground, Eagle	B	10	F-3	30	San Gabriel Mission
F-1	4	Occidental College Campus,	I	39	F-3	31	Pasadena Sewer Farm, San Ga-
F-1	7	Sycamore Grove Park, Los	B	15			briel
F-1	8	(Arroyo Seco) Victory Park	D	347	F-4	2	Besse Playground, Lamanda
F-1	16	Garvanza Park, Los Angeles	A	3			Park
F-1	18	Arroyo Seco Playground, Los	A	5	F-4	4	Sierra Madre Park
F-2	47	Oak Grove Park & Water Land,	D	334	F-4	7	Ross Field Airport, Etc. (U. S.),
F-2	50	Garfield Park, South Pasadena	A	5			Arcadia
F-2	51	Raymond Golf Course, South	F	55	F-4	10	Arcadia Park
F-2	52	American Legion Park, Pasa-	A	2	F-4	15	Monrovia Library Park
F-2	53	Singer Park, Pasadena	A	4	F-4	20	Monrovia Park
F-2	54	Central Park, Pasadena	B	10	F-4	26	Santa Anita Riding & Hunting
F-2	55	Memorial Park, Pasadena	A	5			Club, Arcadia
F-2	56	La Pintesca Park, Pasadena	A	3	F-4	27	Precipice Canyon Water Land,
F-2	57	Washington Park, Pasadena	A	3			Altadena
F-2	59	Pasadena Country Club, Alta-	F	115	F-4	28	Eaton Canyon Water Land, Al-
F-2	60	California Institute of Tech-	I	22			tadena
F-2	61	Tournament Park, Pasadena	B	23	F-4	31	Sierra Madre Water Land
F-2	62	San Marino Park, San Marino	C	26	F-4	33	Sierra Madre Water Land
F-2	63	Arroyo Seco Park, South Pasa-	C	90	F-4	34	Michillinda Park, Pasadena
F-2	64	Mission Park, South Pasadena	A	1	F-4	35	Monrovia Water Land, Arcadia
F-2	65	Brookside Park, Pasadena	D	521	F-4	36	Arcadia Water Lands
F-2	66	Carmelita Park, Pasadena	B	13	F-4	37	County Quarry, Azusa
F-2	68	Lower Arroyo Park, Pasadena	C	70	F-4	38	Temple Park, Arcadia
F-2	69	Huntington Estate, San Marino	I	200	F-4	39	Sierra Madre Water Lands
F-2	70	Los Angeles County Nurseries,	I	9	F-4	45	Monrovia Reservoir Site, Ar-
F-2	73	Yard Reservoir Site, Pasadena	G	13			cadia
F-2	82-85	Pasadena Civic Center	B	12	F-4	46	Monrovia Reservoir Site,
F-2	97	Casitas Wells, Altadena	G	5			Arcadia
F-2	98	Mt. View Cemetery, Altadena	H	18	F-6	13	Covina Park
F-2	99	Pasadena Reservoir Site	G	19	F-6	27	County Quarry, Azusa
F-3	2	San Gabriel Country Club, San	F	100	F-6	28	Morgan Park, Baldwin Park
F-3	7	Alhambra Park	B	14	F-8	7	Pomona College, Claremont
					F-8	9	County Fair Grounds, Pomona
					F-8	11	Lincoln Park, Pomona
					F-8	19	Washington Park, Pomona
					F-8	22	Garfield Park, Pomona
					F-8	23	Central Park, Pomona
					F-8	31	Rodgers Field Airport, near
							Puente
					F-8	32	Pomona Airport
					F-8	37	San Dimas Park
					M-1	3	Bel-Air Country Club, near
							Santa Monica
					M-1	4	Occidental College Site, near
							Santa Monica
					M-1	5	California Botanic Gardens, near
							Santa Monica
					M-1	7	Hollywood Bowl

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<i>District No.</i>	<i>Unit No.</i>		<i>Areas Class in Acres</i>	<i>District No.</i>	<i>Unit No.</i>		<i>Areas Class in Acres</i>
M-1	8	Encino Country Club, Ventura Boulevard .....	F 210	M-8	80	Victory Heights Water Land, Los Angeles .....	G 5
M-1	9	Girard Country Club, Girard ..	F 90	M-8	81	Catholic Cemetery, Los Angeles ..	H 11
M-1	10	Upper Franklin Reservoir Land, Beverly Hills .....	G 165	M-8	82	Pest House, Los Angeles .....	I 5
M-1	11	Lower Franklin Reservoir Land, Beverly Hills .....	G 157	M-8	83	Jewish Cemetery, Los Angeles ..	H 5
M-1	12	Stone Canyon Water Lands, Bel-Air .....	G 12	M-8	84	Yale Playground, Los Angeles ..	A 1
M-1	13	Encino Reservoir Site, Encino ..	G 208	M-9	1	Griffith Park, Los Angeles .....	E 3,752
M-1	14	Stone Canyon Reservoir Site, near Santa Monica .....	G 285	M-9	3	Hollywood Reservoir Lands .....	G 231
M-1	15	Girard Reservoir Site, Girard ..	G 6	M-11	2	El Tesoro Canyon Park, Palos Verdes .....	B 13
M-1	16	U. S. Lighthouse Water Lands, Malibu Ranch .....	G 464	M-11	3	Lorraine Boundary Park, Palos Verdes .....	A 3
M-5	1	Stough Park, Burbank .....	D 120	M-11	4	Frascati Canyon Park, Palos Verdes .....	B 8
M-5	2	Sunset Canyon Golf Club, Burbank .....	F 150	M-11	7	Miraleste Canyon Park, Palos Verdes .....	B 11
M-5	3	Brand Park, Glendale .....	D 616	M-13	1	Hacienda Country Club, La Habra .....	F 150
M-5	4	Burbank Reservoir .....	G 7	M-14	1	Mountain Meadows Country Club, Pomona .....	F 220
M-6	1	Chevy Chase Golf Club, Glendale .....	F 50	M-14	2	Ganesha Park, Pomona .....	C 61
M-6	2	Glendale Reservoir Lands .....	G 5	Y-1	1	Plaza, Los Angeles .....	A 1
M-6	3	Chevy Chase Reservoir Lands, Glendale .....	G 6	Y-1	2	Apablasa Playground, Los Angeles .....	A 2
M-6	5	Vacant Water Land, Glendale ..	G 65	Y-1	9	Pershing Square, Los Angeles ..	B 5
M-6	6	Annandale Country Club, Pasadena .....	F 140	Y-1	10	Wall Street Playground, Los Angeles .....	A 1
M-7	1	Verdugo Playgrounds, Los Angeles .....	B 11	Y-1	26	Civic Center, Los Angeles .....	A 5
M-7	4	Forest Lawn Cemetery, Glendale ..	H 212	Y-2	2	Silverado Park, Long Beach .....	B 13
M-7	5	Ascot Reservoir Lands, Los Angeles .....	G 6	Y-3	3	Plaza Park, San Pedro .....	A 4
M-8	76	Elysian Park, Los Angeles .....	D 599	Y-3	4	Terminal Island Playground .....	B 10
M-8	77	Elysian Park Playground, Los Angeles .....	B 9	Y-3	5	Allen Field Airport, Terminal Island .....	J 450
				Y-3	6	Long Beach, Beach .....	B 10
				Y-4	4	Prado Park, Torrance .....	A 2
				Y-4	5	Torrance Airport .....	J 20

## APPENDIX NO. III

### *Copy of Letter on Nigger Slough and Other Lands Lying Below Possible Drainage Levels, Submitted by Olmsted Brothers on May 21st, 1926, to the Board of Supervisors of Los Angeles County*

**G**ENTLEMEN: Our preliminary studies of the Nigger Slough portion of Improvement No. 15 under the Mattoon Act have raised certain problems of drainage and filling, our consideration of which has drawn attention to certain fundamental questions of principle and policy affecting also other large areas of land in Los Angeles County lying wholly outside of the present southwestern improvement district.

These questions are of such far-reaching importance to the County and the need of adopting a sound general method for dealing with them is apparently becoming so urgent that we feel bound to submit this brief outline of them to you, and to advocate their prompt and thorough consideration apart from, but concurrently with, the development of plans for Improvement No. 15.

Nigger Slough is only one of several large areas in the County where the elevation of the land is so near sea level that ordinary methods of gravity drainage by open channels and storm sewers, whether undertaken at the general expense by the Flood Control District or at local expense by local drainage districts, cannot possibly be made to protect the land from constantly repeated serious inundations, unless the surface of the land is raised in a wholesale manner by filling.

For some kinds of park uses, land may be subject to occasional flooding without serious detriment, provided it can be properly drained in the intervals between floods, and the same is true of most agricultural uses. But it is obvious that conditions ought not to be allowed to arise which will subject land used for streets and for building purposes to recurring inundations.

In the absence of definite engineering determination of the elevations to which flood waters can be limited in these low areas by methods which are practicable from an engineering and from an economic standpoint, and in the absence of proper legal control of building operations on such lands, it is as certain as anything can be that, partly through ignorance and partly through unscrupulousness, these areas will be largely developed in such a manner that

in every period of heavy rainfall not only will streets be submerged but the waters will rise over the floors of houses and other buildings, causing enormous inconvenience and economic loss, creating seriously unsanitary conditions, and tending to produce the most objectionable of slums. And the worst of it is that where this condition arises there will be no practicable remedy short of raising bodily the elevation of entire districts after great sums of money may have been spent in building streets, houses and other improvements below the irreducible flood level.

The principles involved can be readily understood from the enclosed diagrams relating to the Nigger Slough basin. With variations of detail the same principles apply to other large areas, notably in the surroundings of the city of Long Beach and in the Ballona Creek Valley.

Diagram 1 is a profile along the line of the Nigger Slough drainage canal of the Flood Control District. The solid line shows the natural surface of the ground. The shaded line indicates the approximate elevation of extreme high tide. The dotted line shows the bottom of the canal as proposed, and as constructed at a temporarily reduced width, by the Flood Control District, with a gradient rising at the rate of only one foot to the mile from tidewater.

The dot and dash line shows the elevations of flood water in the canal computed by the engineers of the District, as it would be if the canal were completed as planned and for a flood discharge of only 1,050 second-feet. *With the installation of streets, buildings, and other improvements in the tributary drainage area a very much larger flood run-off than this is absolutely certain.* We are informed that the City Drainage District Department has computed the drainage area above Main Street at 74 square miles and the run-off as 2,000 second feet, on the assumption that 10% of the drainage area will be built up as industrial, 50% as residential, and 40% will remain in its present condition. Seventy-four into 2,000 gives a run-off of only 27 second-feet per square mile, the equivalent of 1/24 of an inch of rainfall per hour. While

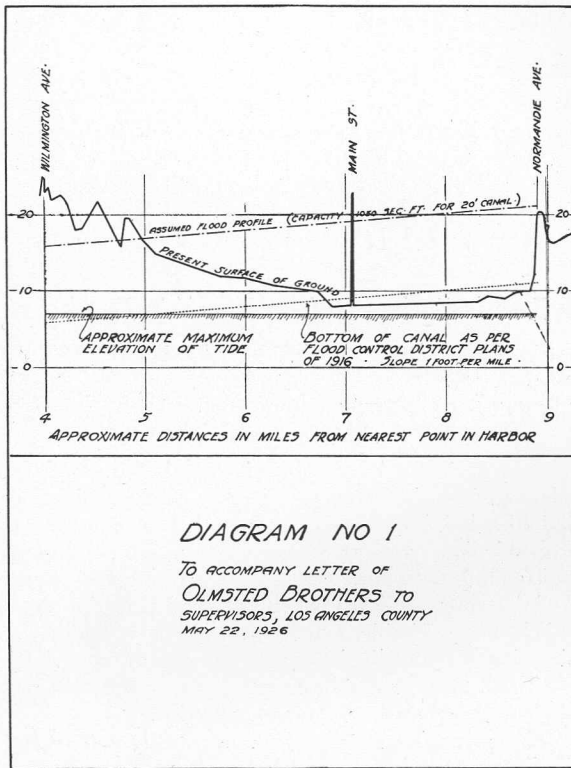


PLATE 65. Profile of Nigger Slough drainage basin, showing assumed flood profile.

such an assumption may be entirely reasonable as a basis for any immediate construction, it seems unreasonable to assume that after urban development shall have continued for (say) two or three generations there will not occur, at rather frequent intervals, a run-off very greatly exceeding 27 second-feet per square mile. It would not be surprising if the maximum run-off in rainy years should in time grow to be five or ten times that figure, and by that time the right of way for the drainage outlet from the basin to the harbor will certainly have become walled-in by innumerable industrial plants, and will have been crossed by many street and railroad embankments, the openings through which will tend to limit the possible capacity of the channel and increase the gradient of flood water discharge.

The down-stream portion of the flood profile could be considerably lowered by dredging the bottom of the canal below high tide level, permitting tidewater to ebb and flow in the canal. This raises questions as to the probable sanitary conditions which would arise in such a long, narrow, semi-stagnant tidal canal; but even if such a deep-dredged channel proved to be feasible without creating a nuisance, it seems obvious that limitations of cost upon the depth and width of the channel, and upon the size of the

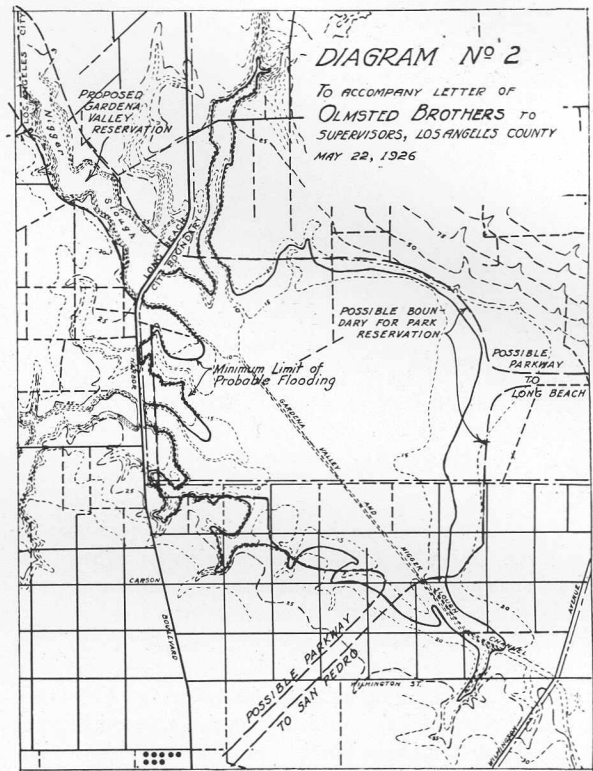


PLATE 66. Plan of Nigger Slough drainage basin, showing areas likely to be flooded.

numerous street bridges across it will make it a matter of very great, if not of insuperable, cost to lower the ultimate flood profile in the neighborhood of Main Street to an elevation appreciably lower than that assumed by the Flood Control District when they figured on a channel 20 feet wide at the bottom for a run-off of less than 14 second-feet per square mile—to say nothing of the chance that floods may in time back up to even higher levels than the profile shown.

Diagram 2 shows the approximate extent of the lands East of Main Street which would be put under water by floods rising to that profile. Their area is approximately 1,500 acres.

If this and similar areas are not taken for park reservations, it seems to us that it is the clear duty of the County authorities, *first*, to determine by painstaking engineering studies the lowest elevations at which it will be practicable to hold the floods in such low areas by providing reasonable sizes of main drainage channels; *second*, to take such steps as are necessary to ensure the reservation of rights of way for such channels and for their ultimate construction at the proper time (presumably at the general expense by the Flood Control District); *third*, to determine at what minimum elevations, in relation to the prospective

controlled flood levels, streets can be established and houses erected without creating conditions prejudicial to the public health, safety and general welfare; and *finally*, to establish, under proper enabling legislation, regulations prohibiting the opening of new streets not graded up to the minimum safe elevation and prohibiting the construction of buildings except at safe elevations, with proper exceptions to allow for agricultural and other improvements of a non-residential character which could be inundated without serious prejudice to the public welfare.

*Agriculture and recreation are the principal uses to which such low land can properly be put without the large expense for filling them up to a level safe from disastrous flooding.*

As the surrounding areas fill up with industrial and residential developments on higher ground it will be expedient and economical to acquire considerable areas of these lands for the recreation of the surrounding population, and this can be done at the price of agricultural land if, and only if, speculators are restrained from developing and marketing building lots on low lands without first filling them sufficiently to make them permanently fit for human habitation.

It is interesting to note that somewhat comparable conditions have been encountered in some of the eastern seaboard cities. In Boston and the Boston Metropolitan District there are thousands of acres where the land is, or originally was, at about the elevation of mean high tide, and therefore subject to frequent, though usually very shallow, inundation. In Boston for about the last seventy years, and for various shorter periods in the surrounding territory, no streets have been permitted to be opened at elevations lower than the standard, computed to be safe from flooding in case of coincidence of a maximum high tide with a heavy rain-storm, and no dwellings or other ordinary urban structures are permitted under the building laws except upon streets at or above the standard minimum elevations and when themselves constructed at such elevations and in such manner as to make them safe and sanitary in view of the predictable maximum water level.

Throughout the whole of the "Back Bay" residential and business district of Boston, and on other areas totaling many square miles in extent, all the streets have been filled six feet or more above the natural surface and any basements extending below street grade are required to be water tight and provided with artificial drainage depending on pumps or ejectors. In Boston and especially in the

surrounding metropolitan district, a considerable fraction of the low lands subject to inundation in their natural state have been acquired for park purposes at very reasonable prices compared with values on adjoining uplands, *because* such low lands cannot be used for building purposes without the costly filling necessary to fit them for such use.

It is to be noted further that the dangers of uncontrolled private development on lands too near sea level to be economically capable of protection from inundation are much more insidious in the Los Angeles district than in eastern seaboard cities because extreme fluctuations in rainfall here make most of these low lands during dry seasons much less unattractive for building operations than in the East, where they are generally water-soaked as often as once or twice a month even though maximum floods may occur no more often than they do here.

Park plans for the portion of Nigger Slough above Main Street have been made on the assumption that the land will be permanently subject to flooding in wet seasons up to levels approximately as high as the flood profile originally assumed by the Flood Control District, frankly recognizing that if these levels are not to be greatly exceeded the capacity of the outlet channel will in time have to be enormously increased beyond that provided for in the District's original plans; but *we cannot too strongly urge the importance of promptly facing the ultimate engineering solution of the whole problem* as affecting not merely the Nigger Slough Basin both inside and outside the Southwest Improvement District, but also the other extensive low areas of the County where subdivisions are steadily creeping in to make untold troubles for the future.

If the permanent determination of the economically practicable water levels, during dry weather and during floods, which can be permanently ensured in the Nigger Slough Basin is not made before the park improvements are actually installed in the area between Normandie Avenue and Main Street, these park improvements will have to be constructed on a gamble, which will involve either the expenditure of a lot of money in construction that may later prove to have been unnecessary or else taking a serious risk of unsatisfactory results and later reconstructions, or both.

*Respectfully submitted,*

OLMSTED BROTHERS.

APPENDIX NO. IV

*Table of Comparative Powers, Duties, and Resources of Various Metropolitan  
Agencies of California and Elsewhere*

[ 154 ] PARKS, PLAYGROUNDS AND BEACHES FOR THE LOS ANGELES REGION

EXISTING CALIFORNIA LEGISLATION

<i>Features Considered</i>	<i>Los Angeles County Flood-Control District</i>	<i>County Sanitation Districts</i>	<i>Metropolitan Water Districts</i>
<i>DISTRICT</i>			
( 1 ) Date of Legislation	1915	1923	1927
( 2 ) How established	Special Act	*Enabling Act	*Enabling Act
( 3 ) Area comprised	Part of County	Cities and parts of County	Cities
( 4 ) Formation of district by	Act	County Board of Supervisors unless 2% demand election	*Election
( 5 ) Vote required	None	*Majority	*Majority
<i>GOVERNING BODY:</i>			
( 6 ) Consists of	Board of Supervisors of Los Angeles County	Board of Directors, consist- ing of Executive of County and of each city	Board of Directors, representing each city
( 7 ) Term of Service	-----	-----	-----
( 8 ) Appointed by	Existing	Existing	Each city
<i>POWER AND DUTIES:</i>			
( 9 ) Acquisition, development and control of land	Yes	Yes	Yes
(10) Eminent domain	Yes	Yes	Yes
(11) Sale of surplus land	Yes	Yes	Yes
(12) Assessment of benefits	-----	-----	-----
(13) Police control	-----	-----	-----
<i>RESOURCES:</i>			
(14) Percentage of assessed valuation allowed in bonds	Not limited	Not limited	15%
(15) Vote required	Majority vote	$\frac{2}{3}$ vote	Majority vote
(16) Operating tax limit	10c per \$100	No limit	*5c per \$100
<i>PROGRESS MADE:</i>			
(17)	In operation since 1915. Bonds issued and authorized about \$40,000,000	Nine such districts in Los Angeles County	Los Angeles and 11 other cities formed a district in 1928

\*Details suitable for Los Angeles Parks are shown with a star. (\*)



PARK LEGISLATION IN OTHER STATES

<i>(Boston) Metropolitan Park District</i>	<i>Westchester County (New York)</i>	<i>New Jersey County Park Districts</i>	<i>Chicago South Park District</i>	<i>Illinois County Forest Preserve District</i>	<i>Missouri Public Reservation Districts</i>
( 1 ) -----	-----	-----	-----	-----	-----
( 2 ) Special Act	Special	*Enabling Act	Special	*Enabling Act	*Enabling Act
( 3 ) *Several Counties	One County	One County	Local	One County	*Several Counties
( 4 ) Act	Act	Vote, in County of over 200,000	Act	*Petition of 500 for election	*5% petition
( 5 ) None	None	*Majority	None	*Majority	*Majority
( 6 ) *Commission of five	*Board of Six	*Commission of five	*Board of five	*Board of five	*Commission of five
( 7 ) 5 years	3 years	5 years	-----	*4 years	5 years
( 8 ) *Governor	County Board of Supervisors	Presiding Judge of Supreme Court of County	First five by Governor, there- after by Judge of Circuit Court	Chairman of County Board of Supervisors	*Governor
( 9 ) *Yes	Yes	Yes	Yes	Yes	Yes
( 10 ) *Yes	Through Supervisors	Yes	Yes	Yes	Yes
( 11 ) *Yes	-----	-----	Yes	-----	-----
( 12 ) *Yes	-----	Yes	Yes	-----	-----
( 13 ) *Yes	-----	Yes	-----	Yes	Yes
( 14 ) Special Acts	*5%	a. \$2,500,000 b. \$2,800,000 c. \$800,000	Was 5%; now not limited	a. To acquire 35,000 acres  b. 1%	a. 1/2 of 1% b. Additional 1/2 of 1%
( 15 ) Not required	Not required	a. Not required b. Majority c. Not required	Majority	a. Not required b. Majority	a. Not required b. 2/3 vote
( 16 ) Annual Legislation	Not limited	Not limited	10c per \$100	Not limited	20c per \$100
( 17 ) Large System Completed. Cost about \$25,000,000	Large system being completed. Estimated cost, \$60,000,000	Essex and Union Counties have systems fairly complete; others starting	Finest small parks and some large ones completed	35,000 acres of forest lands acquired; now being extended	-----

\*Details suitable for Los Angeles Parks are shown with a star. (\*)

## APPENDIX NO. V

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OPINION ON SHORE LAND RIGHTS IN  
CALIFORNIA

*I. The State succeeded to Rights Similar to The Rights of the Other States in Tidelands When California Was Admitted to the Union.*

It is clearly established by statute that the State owns the land "below tidewater and below ordinary high-water mark bordering upon tidewater within the State" (C. C. Sec. 670), and by the Constitution that the ownership of the State extends out into the Pacific Ocean "three English miles" (Constitution, Art. XXI). The cases clearly hold that title to such land is in the State. See:

*Teschmacher v. Thompson*, 18 Cal. 11, 79 Am. Dec. 151.

*Ward v. Mulford*, 32 Cal. 365.

*Long Beach L. & W. Co. v. Richardson*, 70 Cal. 206.

The United States acquired title from Mexico to all lands below navigable and tidewaters in the present State of California by the treaty of Guadalupe Hidalgo in 1848, with the exception of such submerged lands as had been previously conveyed to private owners by the Spanish or Mexican governments.

*Ward v. Mulford*, 32 Cal. 365.

After the admission of California to the Union, it became the owner of all lands within its borders below navigable and tidewaters by virtue of its sovereign character and not by virtue of direct grant from the general government as in the case of other public lands.

*Oakland v. Oakland Water Front Co.*, 118 Cal. 160.

*Ward v. Mulford*, 32 Cal. 365.

*People v. Davidson*, 30 Cal. 393.

*Guy v. Hermance*, 5 Cal. 73.

But this sovereign character of the State is qualified by the paramount right to control navigation which is reserved to the United States under the commerce clause and other provisions of the Constitution of the United States.

*Gibson v. U. S.*, 166 U. S. 269.

Since the title to such land is in the State, if there be any authority to lease or grant it, such authority must be exercised either by the State or some agency of the State. However, it should be noted that the courts are very reticent in construing statutes to authorize sales of tidelands. In *People v. Morrill*, 26 Cal. 336, it was decided that under the Acts of April 21, 1858, and May 13, 1861, regulating the sale of swamp and overflowed and tidelands, the shore of the ocean between ordinary high and low-water marks, and which was not susceptible of reclamation, so as to be made useful for agricultural purposes, could not be entered and converted into private ownership. Also the court in *Kimball v. Macpherson*, 46 Cal. 104, came to the same conclusion as to

the Act of March 28, 1868. See also, *Farrish v. Coon*, 40 Cal. 33.

The matter is very well stated by Shaw, J. in the opinion of the court in *People v. California Fish Company*, 166 Cal. 576, 591.

"The tidelands embraced in these statutes, under the generally accepted meaning of that term, includes the entire sea beach from the Oregon line to Mexico and shores of every bay, inlet, estuary, and navigable stream as far up as tidewater goes and until it meets the lands made swampy by the overflow and seepage of fresh water streams. It is not to be assumed that the State, which is bound by the public trust to protect and preserve this public easement and use, should have intentionally abdicated the trust as to all land not within the very limited areas of the reservations, and should have directed the sale of any and every other part of the land along the shores and beaches to exclusive private use, to the destruction of the paramount public easement, which it was its duty to protect and for the protection and regulation of which it received its title to such lands."

*II. The Nature of the State's Title to Tide and Submerged Lands.*

That the State of California holds the title to such lands subject to the public right of navigation, commerce and fishery. In *Weber v. State Harbor Comrs.*, Mr. Justice Field in delivering the opinion of the court said:

"Upon the admission of California into the Union upon equal footing with the original States, absolute property in and dominion over, all soils under the tidewaters within her limits passed to the State, with the consequent right to dispose of the title to any part of said soils in such manner as she might deem proper, subject only to the paramount right of navigation over the water, so far as such navigation might be required by the necessities of commerce with foreign nations or among the several States, the regulation of which was vested in the general government."

This statement appears to be a clearly correct statement of the law, unless there be vested private rights in such lands, subject to which the State holds its title. But if such rights exist and are vested they would be protected by the Fourteenth Amendment to the Federal Constitution and similar provisions of the fundamental law of the State. A person may also, because he is a member of the public, have rights in such land which must be secured to him. But assuming that no such private rights in tidelands have vested, the State and federal government possessing all-sovereign power, would seem to have complete authority to dispose of such land as seems fit.

This view seems to be supported by the court in one of the earliest cases dealing with the State's disposition of tidelands. In defining the State's authority the court used the following language:

"She holds the complete sovereignty over her navigable bays and rivers, and although her ownership is by the law of nations, and the common and civil law, attributed to

her for the purpose of preserving the public easement or right of navigation, there is nothing to prevent the exercise of her power, in certain cases to destroy the easement, in order to preserve the general good, which, when done, subjects the land to private proprietorship."

*Eldridge v. Cowell*, 4 Cal. 80.

It is difficult to discover the basis of the following statement in *Ward v. Mulford*, 32 Cal. 365.

"The land which the State holds by virtue of her sovereignty, as is well understood, is such as is covered by the flow and ebb of the neap or ordinary tides. Such land is held by the State in trust and for the benefit of the people. The right of the State is subservient to the public rights of navigation and fishery, and theoretically, at least, the State can make no disposition of them prejudicial to the right of the public to use them for the purposes of navigation and fishery, and whatever disposition she does make of them, her grantee takes them upon the same terms upon which she holds them, and of course subject to the public rights above mentioned. But this restriction does not prevent her from disposing of them so as to advance and promote the interests of navigation. On the contrary such a disposition of them would be in keeping with the purposes of the trust in which she holds them. Nor of reclaiming them from the sea, where it can be done without prejudice to the public right of navigation, and applying them to other purposes and uses."

But this doctrine has to a certain degree at least been incorporated into our law by the California Constitution of 1879, Article XV, Section 2, which provides:

"No individual, partnership, or corporation, claiming or possessing the frontage or tidal lands of a harbor, bay, inlet, estuary, or other navigable water in this State, shall be permitted to exclude the right of way to such water whenever it is required for any public purpose, nor to destroy or obstruct the free navigation of such water; and the legislature shall enact such laws as will give the most liberal construction to this provision, so that access to the navigable waters of this State shall be always attainable for the people thereof."

It has been held that the provisions of this section operate as a limitation upon the power of the legislature in the matter of the disposition of tidelands and are to be considered as incorporated in any grant or patent of such lands, and as a result the grantee must leave the navigable waters open for public use.

*Forestier v. Johnson*, 164 Cal. 24.

In this case it was held that the phrase "navigation" included hunting and fishing as incidental thereto.

Furthermore, this section of the present organic law deprives the legislature of the power to dispose of the tidelands fronting upon navigable waters so as to entitle the grantee to destroy or interfere with the public easement for navigation, and it to that extent repeals all laws which theretofore may have purported to authorize such alienation.

*People v. California Fish Co.*, 166 Cal. 576, 587.

"The provisions of the constitution are mandatory and prohibitory. They are binding upon every department of the State government, legislative, executive, and judicial. (Art. I, Sec. 22.) All previous laws inconsistent therewith

ceased to be effective upon the adoption thereof. (Art. XXII, Sec. 1.) The effect of the section above quoted is that, no matter what effect a subsequent sale of tidelands may have to pass title to the soil of the tidal lands of a navigable bay such as that of San Pedro or Wilmington, it cannot be effective to give the patentee a right to destroy, obstruct, or injuriously affect the public right of navigation in the waters thereof. *Since the adoption of that constitution in 1879, if not before, grants of such lands by the State carry, at most, only the title to the soil subject to the public right of navigation.*"

### *The Code Section Dealing with Tidelands Appears to be a Mere Statement of the Common Law:*

Civil Code, Section 670. Property of the State. The State is the owner of all land below tidewater, and below ordinary high-water mark, bordering upon tidewater within the State; of all land below the water of a navigable lake or stream; of all property lawfully appropriated by it to its own use; of all property dedicated to the State; and of all property of which there is no other owner.

### *III. Grants of Tidelands and of Lands Under Navigable Waters.*

Any grants of such lands to private interests within two miles of an incorporated city or town, whether detrimental to the public easement or not, is prohibited where "fronting on the waters of any harbor, estuary, bay, or inlet used for the purposes of navigation."—*Constitution 1879, Art. XV, Sec. 3.*

However, the State, through its legislative authority may validly lease such lands with proper restrictions of time and proper regard to public use.

*San Pedro R. R. Co. v. Hamilton*, 161 Cal. 610.

*Koyer v. Miner*, 172 Cal. 448.

Furthermore, grants of such lands may be made to municipalities where such grant is for a purpose in harmony with the trusts upon which the State was invested with title to the same.

*Cimpher v. City of Oakland*, 162 Cal. 87.

*City of Los Angeles v. Pacific Coast Steamship Co.*, 45 Cal. App. 15.

*City of Long Beach v. Lisenly*, 175 Cal. 575.

Also, such municipalities may in turn make valid leases of such lands for "all purposes which shall not interfere with navigation or commerce but for no purpose which would interfere with navigation or commerce."

*Oakland v. Larue Wharf etc. Co.*, 179 Cal. 207.

Moreover, the Constitution of 1879, Art. XV, Sec. 2, provides that no rights shall be obtained by private interests which shall curtail the public easement of navigation or access to navigable waters, in and to tidelands on a harbor, bay, inlet, estuary or other navigable water in this State.

A. PURPOSES FOR WHICH GRANTS MAY BE MADE.

1. In Aid of Navigation.

*Oakland v. Oakland Water Front Co.*, 118 Cal. 160, 183.

Here the power of the State to grant such lands in aid of navigation was thus stated:

"\* \* \* \* the State might alienate irrevocably parcels of its submerged lands of reasonable extent for the erection of docks, piers, and other aids to commerce. It was further conceded to be a proper exercise of the power of the State to establish harbor lines and to authorize the reclamation of mud flats and shoals where that could be done without detriment to the public rights. The filling up of such lands, it was said, was often an improvement of navigation and therefore lands susceptible of reclamation may be alienated irrevocably."

*Koyer v. Miner*, 172 Cal. 448.

Here the city of San Pedro made a lease of tidelands to defendant in consideration of his building a sea-wall in front of it which clearly was in aid of navigation. The court said:

"The State had the undoubted right to make the lease in question in order to procure the erection of a sea-wall with docks and slips and the improvements to be made to obtain public access to deep water, the better to fit the harbor for navigation."

See also, *People v. Kerber*, 152 Cal. 731.

2. Grants of Such Lands for Purposes Which Do Not Interfere With Navigation.

*Eldridge v. Coxwell*, 4 Cal. 80.

In the plan and survey of the city of San Francisco lots and streets extended into tidelands so as to reach far enough into the water for the convenience of shipping. Defendant filled up this tideland to the line fixed by the city.

Held that defendant had a good title to such land by grant from the State. This may have been in aid of navigation but certainly did not interfere therewith.

*Ward v. Mulford*, 32 Cal. 365.

This decision upheld a grant of salt marsh land which was covered and uncovered by the ebb and flow of the tide and which was of no possible use for navigation, but could be made valuable for agriculture or other purposes if reclaimed.

*Oakland v. Oakland Water Front Co.*, 118 Cal. 160, 185.

Here Beatty, C. J., after a careful review of the authorities thus stated the principal adopted by the Supreme Court:

"A grant by the State of California, therefore, of mud flats and shoals between high and low tide on the margin of the bay of San Francisco cannot be held to be in excess of the legislative power, in the absence of any proof that such grant has seriously impaired the power of succeeding legislatures to regulate, improve, or develop the public rights of navigation or fishery. \* \* \*"

This statement appears to give the legislature too extensive powers in view of Constitution of 1879, Art. XV, Sec. 2, and to that extent is not correct. See *People v.*

*California Fish Co.*, 166 Cal. 576, which holds that the legislature now does not possess the power to dispose of tidelands fronting upon navigable waters so as to entitle the grantee to destroy or interfere with the public easement of navigation.

3. Grants for Purposes Which May Interfere With Navigation.

Subsequent to 1879 when our present Constitution was adopted grants for such purposes would seem to be invalid. Art. XV., Secs. 1, 2 and 3.

However, prior to the adoption of this Constitutional provision such grants appear to have been valid, subject to revocation upon payment of the fair value of the improvements made. The rule is stated in *Oakland v. Oakland Water Front Co.*, 118 Cal. 160, 183.

"No grant of lands covered by navigable waters can be made which will impair the power of a subsequent legislature to regulate the enjoyment of the public right."

The more sweeping statement in *Ward v. Mulford*, 32 Cal. 372, is couched in such language as to practically admit its inaccuracy.

"The right of the State is subservient to the public right of navigation and fishery, and *theoretically, at least*, the State can make no disposition of them prejudicial to the right of the public to use them for the purposes of navigation and fishery."

The unlimited power of the legislature to grant tidelands prior to the year 1879 when the present Constitution was adopted was rather clearly enunciated in the early case of *Eldridge v. Coxwell*, 4 Cal. 80, where the court says:

"\* \* \* there is nothing to prevent the exercise of her power, in certain cases, to destroy the easement, in order to preserve the general good, which, when done, subjects the land to private proprietorship."

IV. Agencies Through Which Such Lands Have Been Leased and Conveyed Into Private Hands.

In the first place all titles to such lands acquired under Mexican rule would be protected. Also where the United States has confirmed the title to land in this State acquired from Mexico, during Mexican rule, and which the State would otherwise have owned by virtue of its sovereignty, the State has no power to convey.

*Ward v. Mulford*, 32 Cal. 365.

The legislature by statute has conveyed to incorporated cities and towns the tidelands within its borders. Statutes, 1851, p. 309.

*San Francisco v. Strant*, 84 Cal. 124.

Statutes 1852, p. 181.

*Cimpher v. Oakland*, 162 Cal. 87.

*Patton v. City of Los Angeles*, 169 Cal. 521.

*People v. Cal. Fish Co.*, 166 Cal. 576.

There are many other cases dealing with these legislative grants of tidelands to the different cities of the State. Also, there have been special commissions appointed to convey certain specified tracts of tidelands,

as for instance, the commission appointed to examine and make sales of the interest of the State of property within the water-line of San Francisco.

*Guy et al., v. Hermance*, 5 Cal. 73.

The great bulk of the State grants, however, have been made by the State Board of Tideland Commissioners created by the Statutes and abolished by Amendments 1875-6, page 15, and after February 4, 1876, by the Surveyor-General who at present is the officer who makes such grants of tidelands. See Act. 8418, Gen. Laws 1923, Vol. 2, Stat. 1923, p. 677 as to swamp and tidelands. Chapter 303, Statutes 1921, approved January 25, 1921, deals with Oil and Gas Permits and Leases. See Amendment approved June 1, 1923.

Also, the different cities to which such lands have been granted may make valid leases of such lands.

*San Pedro R. R. Co. v. Hamilton*, 161 Cal. 610.

*Koyer v. Miner*, 172 Cal. 448.

*Oakland v. Larue Wharf etc. Co.*, 179 Cal. 207.

Franchises for wharves, chutes and piers are granted by the boards of supervisors of the several counties, upon approval of the Railroad Commission.

Pol. Code, Chapter V, Sec. 2906, et. seq.

Within their corporate limits the municipal authorities of any incorporated city or town, except San Francisco, may grant authority to construct wharves, chutes and piers instead of the board of supervisors.

Pol. Code, Sec. 2920.

#### V. Title to Submerged and Tidelands Cannot be Perfected by Adverse Possession.

*Parish v. Coon*, 40 Cal. 33.

The location of such lands with school warrants held to not amount to such a color of title as would form the basis of a claim by adverse possession.

*Land & Water Co. v. Richardson*, 70 Cal. 206.

The plaintiff was in possession of a ranch lying immediately in front of the ocean, using the land as a "seaside resort." They had a hotel on the upland and on the beach a bath-house and benches for the patrons. They considered themselves in possession of all the beach and on several occasions had their employees order off "campers" and remove structures erected by other persons.

Held that it did not appear that plaintiff was in possession of the beach so that it could not maintain an action of forcible entry and detainer.

*People v. Kerber*, 152 Cal. 731.

This was an action under Pol. Code 2578 to recover possession of tidelands of the bay of San Diego. Defendant pleaded the ten years statute of limitation on the theory that it had obtained title by adverse possession. The tideland involved was back of the harbor line as fixed by the Harbor Commissioners, but the wall had never been built. The court reversed the judgment which had been for defendant on the ground that title

to such land could not be gained by adverse possession. The court through Shaw, J., said:

"Tidelands of this character vest in and belong to the State by virtue of its sovereignty \* \* \* and when such tidelands are situated in a navigable bay and constitute a part of the water front thereof, as is the case here, they constitute property devoted to a public use, of which private persons cannot obtain title by prescription, founded upon adverse occupancy for the prescribed period. \* \* \* This is the settled rule in this State with respect to all properties so devoted to public use, and tidelands, underlying waters forming part of the waters of a navigable bay used for navigation, are not, in this respect, to be distinguished from property used for other public purposes."

*Cimpher v. City of Oakland*, 162 Cal. 87.

To the same effect. This decision was more squarely based on Constitution 1879, Art. XV, Sec. 3.

*Patton v. Los Angeles*, 169 Cal. 521.

Held that no character or period of adverse possession can terminate or affect the public easement of navigation and fishery. Here by the construction of railroad embankments in front of plaintiff's land under license from the State, the land previously tideland was divested of that characteristic. The court refused to adopt the theory of plaintiff that by adverse possession plaintiff had procured the jus privatum of the State and when the easement for navigation was destroyed by the erection of the embankment plaintiff had the whole fee therein.

Also see:

*People v. Banning*, 169 Cal. 542.

#### VI. The Respective Rights of the State, and Incorporated Cities and Towns, Littoral or Riparian Owners and the Public.

1. The rights of the State in general are fully dealt with under main heading No. II.

(a) Title by adverse possession cannot be perfected against the State. See main heading No. V.

(b) As already indicated the title of the State to tidelands situated within the limits of incorporated cities and towns have been conveyed to such cities and towns.

2. The rights of littoral proprietors in and to tidelands.

(a) Enumeration of their rights.

(1) Such owners and possessors have a right of passage over such land which is a necessary incident to their right of access to navigable waters.

*Eldridge v. Cowell*, 4 Cal. 80.

*San Francisco Sav. Union v. R.G.R. Petroleum Co.*, 144 Cal. 134.

*Henry Dalton & Sons Co. v. Oakland*, 168 Cal. 463.

*Weber v. Harbor Commissioners*, 18 Wall. 57.

(2) Littoral proprietors are entitled to the accretions added to their land.

*Dana v. Jackson St. W. Co.*, 31 Cal. 118, 120.

*Wright v. Seymour*, 69 Cal. 122, 126, 10 Pac. 323.

*Strand Improvement Co. v. Long Beach*, 173 Cal. 765.

Here the court in construing Section 1014 of the Civil Code held that it did not abrogate the common law rule of accretion along the ocean shore. The court refused to follow the contrary decision of the United States Circuit Court of Appeals in *Western Pac. Ry. Co. v. So. Pac. Co.*, 151 Fed. 376, 397.

It should be remembered, however, that a riparian or littoral proprietor has no vested right in future accretions.

*Cohen v. U. S.*, 162 Fed. 364, 370.

Similarly the title to future accretions may not be quieted.

*Taylor v. Underhill*, 40 Cal. 471.

The doctrine of accretion appears to be limited to gains made little by little, "by small and imperceptible degrees."

*Dana v. Jackson Street Wharf Co.*, 31 Cal. 118.

The court indicated that additions due to driving piles in tidelands did not accrue to the littoral proprietor.

"This shows decisively that in cases of purpresture, the right of entry is not in the adjacent land-owner but in the crown."

In *Pattin v. Los Angeles*, 169 Cal. 521, it was held that land located in the city of Los Angeles and bordering on the navigable bay could not benefit by an accretion to the mainland caused by the erection of an embankment leading from the upland by the Southern Pacific Railroad along the line of its road leading from the mainland across a part of the bay. The court said, in holding that the city still owned the reclaimed land,

"that it was once tideland and that this being so, it was reserved from sale, and was not alienable by any State officer under any law, during the time when the alleged accretions occurred, and, therefore, no artificial embankment, made by third persons, or made or suffered by State officers or agents, nor any accretion to the adjacent upland caused thereby, could operate to divest the State of its title to the tideland so reserved."

(3) It is possible that littoral proprietors have certain rights in the seashore of a purely aesthetic nature, although this is doubtful. However, the existence of such a right has been intimated in at least one Supreme Court decision.

*S. F. Sav. Union v. R.G.R. Pet. Co.*, 144 Cal. 134.

This action was brought to obtain an injunction and to have abated as a nuisance a platform constructed by defendant in front of plaintiff's land on the seashore below the ordinary high tide. Plaintiff is the littoral proprietor. Defendant evidently was preparing to bore for oil.

The court quoted with approval the language of the judge below defining the rights of the littoral proprietor in tidelands and seashore.

"From time immemorial the sea has been treated as a vast waste not susceptible of occupation or private and individual ownership, except as herein indicated. Nations, governments and peoples have all been of one accord in treating it as exempt from appropriation by individuals. The occupation by defendants is in disregard of this universally conceded condition. Upon the strength of universal custom, conduct and tacit consent and understanding individuals and communities have acquired properties and rights, and have located lands, built homes and cities along the seashore, because not alone for its commercial advantages, but for the permanent and indestructible beauty of the environment. Unlike the location of the interior, where the incidents of private ownership may permit encroachments by way of unsightly and disagreeable structures, the prospect of ocean view is sacred from individual obstruction and contamination. So thoroughly has this been understood and acted upon by the whole world that no obstruction—not even wharves and docks—not built by the abutting owners have ever been attempted, except under license and control of the State. \* \* \* This policy and mode of dealing had inured to the property-owner abutting thereon as an additional property right which though not involved in this case \* \* \* I think is explanatory, if not the foundation of the principle enunciated by the courts that the abutting landowner has property in the sea by way of access thereto."

(b) Extent of the rights of littoral proprietors.

(1) Where an individual or a private corporation without any license or permit from the State or any of its agencies, interferes with the rights of littoral proprietors, such proprietors may have their rights as such proprietors protected by injunction.

*S. F. Sav. Union v. R.G.R. Pet. Co.*, 144 Cal. 134.

(2) Where the State or an incorporated city or town in carrying out some project in aid of navigation interferes with such right such proprietor will not be granted relief by the courts.

*People v. Cal. Fish Co.*, 166 Cal. 576.

*Henry Dalton & Sons Co. v. Oakland*, 168 Cal. 463.

Here plaintiff had for many years loaded small boats in front of his property. The city of Oakland now threatens to erect a sea-wall in front of plaintiff's land and thus cut off plaintiff's access to deep water. Plaintiff sought to enjoin the erection of the wall. The injunction was refused and the court distinguished *S. F. Sav. U. v. R.G.R. Pet. Co.*, 144 Cal. 137, on the ground that there the obstruction was erected by a private individual and not in aid of the public easement of navigation and fishery.

(3) Also, where private interests with permission of the State perform certain acts in aid of navigation, but which interfere with the rights of littoral proprietors, such proprietors have no legal or equitable remedy.

*Koyer v. Miner*, 172 Cal. 448.

Defendant was erecting a sea-wall in consideration

of receiving a 50 years lease to the land reclaimed under contract with the city.

(4) Our Supreme Court has not yet determined what are the rights of littoral proprietors to enjoin acts of individuals not in aid of navigation but with the express permission of the State upon tidelands. In *Dalton & Sons Co. v. Oakland*, 168 Cal. 463, 468, the court indicated, however, that before the littoral proprietor could be compelled to submit to an interference with his right of access to navigable water, this interference must be in aid of navigation. The court said:

"If such improvement have the effect of cutting off access over said tidelands from the upland lot of the plaintiff, it is no ground of complaint because, as pointed out, it had no right as an upland owner to the free and unobstructed access to navigable waters over said tidelands as against the right of the State to at any time devote them to the improvement of the harbor of Oakland in aid of the public easement of navigation and commerce \* \* \*"

(5) Another undecided question is the right of the littoral proprietor to enjoin as a nuisance acts on the foreshore and tidelands by the State and individuals with the State's permission to remove oil or other minerals belonging to the State.\*

Chapter 303, Statutes 1921.

See also, Amendment approved June 1, 1923.

*Boone et al., v. Kingsbury, Surveyor-General*, No. S. F. 12707, 12708, 12728, 12729, 12730 and 12743 now before the Supreme Court.\*

3. The rights of the public in submerged and tidelands.

It is well settled that the public has large rights in submerged and tidelands. In fact it has been early recognized that title to such land was in the State for the express purpose of carrying out the public trust and protecting the rights of the public. The rule was thus well stated in one of the earliest California cases dealing with tidelands.

*Eldridge v. Cowell*, 4 Cal. 80.

" \* \* \* her ownership is, by the law of nations, and the common and civil law, attributed to her for the purpose of preserving the public easement, or right of navigation \* \* \*"

See also *Guy & Others v. Hermance*, 5 Cal. 79.

Moreover, this public right was recognized and secured by Article XV of the California Constitution of 1879. But prior to this constitutional protection the State through its legislature had the power to abandon and destroy the public trust. This is made apparent by the decision of *San Francisco v. Straut*, 84 Cal. 124, where the court held that the interest of the city and county of San Francisco in its beach and water-lot property is a legal estate for ninety-nine years under Statutes of 1851, p. 309, and the right of the city for that term is as absolute a title, and as free from public trust as if

\*This question has since been determined: 77 Cal. Dec. 94.

held by a private proprietor, and may be extinguished by adverse possession, under the statute of limitation.

See to the same effect, *Holladay v. Frisbie*, 15 Cal. 631, holding that the interest of the city may be sold under execution. Field, C. J., speaking for the court said:

"In that property the interest of the city is absolute, qualified by no conditions and subject to no specific uses. It is therefore a leviabie interest, subject to sale under execution \* \* \*"

*Knudson v. Kearney*, 171 Cal. 250.

*Ward v. Mulford*, 32 Cal. 365.

Also, where the legislature by improving the waterfront renders certain tideland inaccessible and useless for navigation, it may irrevocably and absolutely alienate such land free from any public trust, under the present Constitution.

*People v. Cal. Fish Co.*, 166 Cal. 576.

Otherwise, it would seem that the legislature has no power to curtail or destroy the public easement or right of navigation.

*People v. Cal. Fish Co.*, *supra*.

(a) The extent of this public right of navigation.

(1) This right or easement clearly includes what is commonly understood by the term navigation. This includes the right to build or authorize the building of wharves, chutes and piers. See Chapter V of Pol. Code. Also, of improving harbors, and expending public money therefor.

*Henry Dalton & Sons Co. v. Oakland*, 168 Cal. 463.

*City of Long Beach v. Lisenly*, 175 Cal. 575.

The city may issue its bonds for improving a harbor within its limits.

*Weber v. Harbor Commissioners*, 18 Wall. 57.

Held that a littoral proprietor could not enjoin the Harbor Commissioners from erecting a sea-wall in front of plaintiff's land, and a wharf he had erected out from his land.

Primarily, of course, the public has the right to propel ships over navigable waters, and tidelands may be used for that purpose. The court in *People v. Kerber*, 152 Cal. 731, said that

"for all practical purposes the bay is open to navigation to the actual shore line of high tide over the land in question \* \* \*"

(2) It has been repeatedly stated that the public easement or right includes the right of fishing.

*Forestier v. Johnson*, 164 Cal. 24.

(3) The easement, also, has been held to include the hunting of wild game.

*Forestier v. Johnson*, 164 Cal. 24.

Here the plaintiff claims title from the State under a sale of the land as tideland, a patent being issued to him. Defendants claim that as citizens of the State they have the right to go upon the premises for the purpose of hunting, fishing and navigation. The



land involved was known as Fly's Bay and was a side channel of Napa River. The court found that at mean tide the whole of the premises is used by vessels of small burden for the purpose of navigation and hunting. Held that the plaintiff could not exclude the public. The court said in regard to hunting that "the authorities do not designate the hunting of wild game as an object for the protection and promotion of which the State holds title to and dominion over the tidelands and navigable waters. Nevertheless, it is a privilege which is incidental to the public right of navigation."

(4) The correct view would seem to be that this easement or right includes the public right to use the tidelands for the purpose of bathing. The courts, however, have not always been unanimous in declaring such a right. It has been indicated by the Supreme Court of California that even where tideland has been granted to a city for the purpose of public bathing that such public right is subject to the superior right of public navigation and fishery.

*Santa Cruz v. So. Pac. R. R. Co.*, 163 Cal. 538.

Held that the Act of March 21, 1872, providing that

"all of the tidelands within the corporate limits of said town, between the line of high and low tide, are hereby dedicated as public grounds, and the title thereto is granted to the town of Santa Cruz in trust for the use of the public \* \* \* but nothing herein contained shall in any manner be construed so as to prevent the construction \* \* \* of wharves over, in and through said lands by authority of the laws of the State of California, or the free use thereof for fishing purposes"

was enacted in recognition of the fact that Santa Cruz has always been a summer resort, especially adapted to sea bathing and other sports and it was its purpose to dedicate the tidelands to such public uses, subject to the use for navigation and fishery. But the city's title is, therefore, subject to the paramount rights of navigation and fishery. An injunction was refused against the improvement of the wharf so as to interfere with the use of the beach for bathing and other like sports and uses.

"The principal thing complained of is the threatened act of the appellants in filling in the space under the wharf so as to prevent the use of that part of the beach for pleasure grounds. It may be conceded that if the appellants should place any obstruction upon the beach that was not appropriate for beach purposes and was not useful in aid of navigation, the city, having charge of the subordinate trust, relating to that land, would have the right to remove it or cause its removal, on the ground that it was an unnecessary purpresture upon that particular public use. This is the extent of the right and power of the city. It is not claimed or asserted that the filling in of this space is unnecessary to the use or preservation of the wharf, or that it obstructs or prevents the use of the beach for other purposes more than is necessary for the purposes of navigation.

It appears to be an appropriate method of strengthening the structure. Hence it follows that the city has shown no right to interfere with such improvement of the wharf."

The early cases which indicate that there is no public right of bathing in the ocean are really not in point as they go on another ground, namely, that of creating a nuisance in a public place.

*Rex v. Crunden*, 2 Campbell's Reports 89 (1809).

*Reg. v. Reed & Others*, 12 Cox Cr. L. Cases 1.

*Brinckman v. Matley* (1904) L. R. 2 Ch. Div. 313.

In an early Pennsylvania case it was indicated that if such a right exists it is a qualified right. This case also, was complicated by problems of negligence.

*Hunt v. Graham*, 15 Pa. Superior Ct. 42.

"The right to bathe in a public stream is not an absolute right. It is qualified by fixed rules as those which determine the privilege. It is permitted only at certain places, and is of the same character as the right to use or take water from the stream."

In *Tiffany v. Town of Oyster Bay*, 182 N. Y. Supp. 738, plaintiff, a littoral proprietor filled in the foreshore in front of his property. The court in another action held that the title to the foreshore and this reclaimed land belonged to the town. Plaintiff then offered to remove the fill. The town contracted to have bath-houses erected on this filled in space and plaintiff sought an injunction on the theory that it injures his riparian right of access to navigable waters.

The injunction was granted on appeal to the Appellate Division. The court said:

"A public bath-house incidentally raises another question. The public has no right to pass over the foreshore in England to bathe in the sea. *Brinckman v. Matley* (1904) L. R. 2 Ch. 313. The public right to bathe, save at designated places, is doubtful in this country. *Hunt v. Graham*, 15 Pa. Super. Ct. 42."

The more modern decisions seem to indicate a trend toward recognizing such a right in the public. The Supreme Court of Florida in *Brickell v. Trammell*, 82 So. (Fla.) 221, says:

"The rights of the people of the States in the navigable waters and the lands thereunder, including the shore or space between high and low water mark, relate to navigation, commerce, fishing, bathing, and other easements allowed by law."

And in *Barnes v. Midland R. Terminal Co.*, 85 N. E. (N. Y.) 1093, there was a like holding. Here both plaintiff and defendant were littoral proprietors. Plaintiff alleged that defendant by the erection of certain piers and buildings extending out from his land obstructed the rights of the public in the foreshore. The injunction was granted on appeal. The court said:

"The same reasons which underlie the decision in the Brookhaven case as to the rights of littoral and riparian owners apply with even greater force to the rights of the public to use the foreshore upon the margin of our tidewaters for fishing, bathing, and boating, to all

of which the right of passage may be said to be a necessary incident."

The injunction was modified in *Barnes v. Midland Railroad Terminal Co.*, 112 N. E. 926, but the rule as above stated was in no respect limited.

(b) However, there is no right in the public to cross private property to reach the ocean.

*Bolso Land Co. v. Burdick*, 151 Cal. 254.

In this case plaintiff sought an injunction to restrain defendants crossing its land to reach a navigable bay. The injunction was granted. The court here squarely held that the public has no right to invade and cross private land in order to reach navigable water.

*F. A. Hihn Co. v. City of Santa Cruz*, 170 Cal. 436.

Action by plaintiff to quiet title to beach between ordinary or mean high tide and extraordinary high-tide line. This was about 200 feet wide and covered with sand. Next to the tideland this was not built upon, but back of that the city had constructed a paved

road and park. The city was held to have procured title to the latter part by adverse user, but not the sandy portion next to the ordinary high-tide line. Held that the State did not get title to this strip as tideland and so its grant to the city was invalid. Also, although the public had long used this strip in conjunction with the tideland beach below, it was held not to be dedicated to the public use, nor was title obtained by the city by means of adverse user. The court said:

"But where land is uninclosed and uncultivated, the fact that the public has been in the habit of going upon the land will ordinarily be attributed to a license on the part of the owner rather than to his intent to dedicate (13 Cyc. 484). This is more particularly true where the use by the public is not over a definite and specified line, but extends over the entire surface of the tract (13 Cyc. 484). It will not be presumed, from mere failure to object, that the owner of such land so used intends to create in the public a right which would practically destroy his own right to use any part of the property."

## APPENDIX NO. VI

### *Extracts from a Report Made in 1924 by the Los Angeles Superintendent of Parks, With Recommendations Similar to Those of This Report*

**D**URING the period of nearly fifteen years in which I have been associated with the Los Angeles Park Department, I have from time to time given considerable thought and attention to the need of a comprehensive park system.

Fifteen years ago the city covered an area of 85 square miles, with a population of 300,000 and a park area of 4,000 acres, considerably over the accepted area of one acre to every 100 inhabitants. The system was only partially developed. The boundaries of the city had just embraced Griffith Park, which was so far from the center of population and without any means of transportation that no attempt had been made to develop it and very few people patronized it; but adequate provision in park area had been made at that time.

Today (1924) the city covers an area of 415 square miles, with a population of over 1,000,000, while the park area has increased less than 1,000 acres. It is true that the present park area of 5,000 acres is extensively developed and portions of it used to the point of abuse, but there are large areas of the city closely built up and thickly populated that have no provision for parks, and the present park area is less than one-half acre per 100 inhabitants, and poorly distributed.

The city ought to make provision for the future population by securing an additional 45,000 acres of land for park purposes before the price becomes excessive, and before other permanent improvements occupy the land. There is an immediate need of 5,000 acres additional park land to accommodate the present population.

In July, 1925, the method of providing money for park maintenance will be changed. Instead of indefinite amounts appropriated by the City Council, the new charter provides a direct levy of 7c per hundred dollars assessed valuation. Under this plan the Park Board can intelligently estimate and forecast expenditures, and they can outline a policy of park development years in advance. Under the 7c rate the Park Department will receive about \$1,000,000 annually or nearly \$1 per capita, almost 40

per cent more than the present allowance. The cost of providing all forms of park service for the past fiscal year was 57c per capita. On account of the increase in laborers' wages granted this year by the budget committee of the City Council, the per capita cost will be about 60c.

Several attempts have been made by former park boards to carry out a program of park expansion, notably the effort to acquire the Arroyo Seco and the Silver Lake Parkways, which was started in 1910. This was the first attempt in Los Angeles to create a parkway along a drainage channel from the mountains to the sea. Evidently the taxpayers within the assessment areas did not realize the necessity or advantage of acquiring this valuable addition to the parks, for both projects were protested out after several years spent in negotiations.

In 1914 a movement was started to establish a comprehensive system of parks and boulevards. This was intended to provide: mountain and beach reservations; parkways and special areas classed as rural or country parks; together with a system of neighborhood parks that would provide the same service in each radial mile, giving each four square miles a park; the system to be linked up by specially improved and traffic-regulated streets to form a boulevard chain around and through the city. Surveys were made, numerous maps were drawn, a comprehensive report was prepared, and steps were being taken to secure by legislation an adequate park law under which to function. And then America went to war, and for several years park projects were of minor consideration.

In 1920 the Los Angeles Planning Commission was created as an official advisory body, and, after a year's study and investigation of our civic problems, decided that in order to adequately meet the situation the political boundaries of Los Angeles would have to be ignored and co-operation brought about through the County government, with the result that Regional Planning Conference was called by the County Board of Supervisors in 1921. Committees of five were appointed to investigate and report on each physical civic problem, and were selected from the northeast, northwest, southeast, southwest, and

central districts of the County, the central district representing the City of Los Angeles. I was accorded the very great courtesy of being selected to serve on the Parks and Boulevards Committee representing the Central District.

After eight months' field study and investigation, together with the preparation of a map, the Parks and Boulevards Committee submitted their recommendations in the form of a report so brief that I will repeat it:

Sec. 1. That all parkways and pleasure boulevards be established as separate features from traffic highways.

Sec. 2. That all parkways and pleasure boulevards when located along river channels, arroyos, canyons, and the sea coast be established so as to pass *under* all other lines of traffic, and when located on ridges and mountain crests that they be established so as to pass *over* all other lines of traffic by bridge or viaduct. Briefly, no grade crossings should be permitted to exist.

Sec. 3. That parkways and pleasure boulevards when established along channel embankments can be beautified economically, artistically, and with great scenic effect at low cost; and as a utility they provide easy means of construction for trunk sewers and storm drains, and a rapid means of transportation in case of flood-control work.

Sec. 4. That parkways and pleasure boulevards when established along ridges and mountain crests should be located so as to reach the most advantageous viewpoints, and as a utility they will prove extremely valuable in providing rapid means of transportation in case of forest fires.

Sec. 5. That as a further consideration these parkways and pleasure boulevards serve to link up all beach reservations to be established, these reservations to be for the full use of the public and not controlled by private parties.

Sec. 6. We recommend that picnic parks and camps be established throughout the district.

Sec. 7. We recommend that all principal drainage channels be acquired and controlled by the community for the highest public use.

Sec. 8. That patents to land in the forest reservations be discouraged.

As a result of the conclusions and recommendations of the various committees of the Regional Planning Conference, the Board of Supervisors, in 1923, established as an advisory body the Los Angeles County Regional Planning Commission, who in their first report laid particular stress on the entirely inadequate provision for local parks supplying neighborhoods in the City of Los Angeles. . . .

During the past four years the City Planning Commission has been endeavoring to solve the problem, and has now reached the point where, assisted by the County Regional Planning Commission, the legal machinery is being built up to permit the establishment of a metropolitan park district. . . .

Under the jurisdiction of a metropolitan park commission, it will be possible to secure park territory lying outside the boundaries of municipalities within the metropolitan area, and the activities of the commission will be financed by a mill tax for acquisition and maintenance of such properties. The ultimate area of the park system will

be governed by the amount of money available for maintenance, the size of each park, and the relative service demanded by the locality, together with the type of improvement introduced.

Referring to the price of park land, it may be interesting to estimate what it will cost Los Angeles to acquire immediately the park land necessary to provide for a limited increase in population.

The 415 square mile area of the city contains 265,600 acres, which, subdivided into 5 lots per acre, will make 1,300,000 lots, exclusive of streets, the assessed valuation amounting to \$1,368,000,000. The City Planning Commission, after an exhaustive study of the problem, estimates that a district bond issue amounting to about 2 per cent of the assessed valuation would be the proper ratio of expenditure for park purchase. The 2 per cent ratio would work out alike on high and low priced property, as the same pro rate area can be secured in each case. Two per cent of the assessed valuation amounts to \$27,360,000. Assuming that recently subdivided property, selected where least desirable for residence purposes, can be secured for \$1,000 per lot or \$5,000 per acre, and outlying acreage in and around the drainage channels can be secured at \$1,000 per acre, a fair average price would be \$3,000 per acre, with variations in price according to location and surroundings. A 30-year district bond issue of \$27,000,000 would secure approximately 9,000 acres of park land—the equivalent of 90 parks of 100 acres each, or 180 parks of 50 acres each, or any modification of that amount to suit the individual case. The 415 square mile area of the city, divided into sections of 4 square miles each, make 104 neighborhood park districts; and 9,000 acres provides the equivalent of 86.5 acres for each neighborhood park required, leaving the *special areas, parkways, and regional parks* to be acquired by the Metropolitan Park Commission. Adding 9,000 acres to the existing 5,000 will provide 14,000 acres of park land, or an allowance of park area considerably over one acre to every 100 inhabitants. To pay off the 2 per cent bond issue in 30 years would require an average tax annually of 12½¢ per \$100 assessed valuation for sinking fund and interest at 6 per cent—very easy terms on which to acquire adequate space for neighborhood parks. There is no case on record where an expenditure for park purposes ever depreciated the value of the property assessed. If real estate subdividers keep on cutting up the acreage into lots without making adequate provision for parks, and the people who ultimately purchase and occupy the subdivisions persistently refuse to meet the cost of acquiring the necessary territory, then some drastic legislation will have to be enacted for the protection of the individual and to secure the welfare, health, and safety of the community.

Very respectfully,

FRANK SHEARER,

*Superintendent of Parks.*

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