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Deputy Director

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LLOYD P.C.W. LEE, P.E.
Engineering Division

DAVID WISSMAR, P.E.
Solid Waste Division

BRIAN HASHIRO, P.E.
Highways Division

RECEIVED

COUNTY OF MAUI
DEPARTMENT OF PUBLIC WORKS
AND WASTE MANAGEMENT
200 SOUTH HIGH STREET
WAILUKU, MAUI, HAWAII 96793

95 DEC -4 P2:16

OFFICE OF ENVIRONMENTAL
QUALITY CONTROL

November 24, 1995

Office of Environmental Quality Control
220 S. King Street, 4th Floor
Honolulu, Hawaii 96813

SUBJECT: SOUTH KIHEI ROAD TRAFFIC SIGNALS AT KEALA PLACE
COUNTY JOB NO. 94-85

Gentlemen:

The County of Maui, Department of Public Works and Waste Management has reviewed the draft environmental assessment for the subject project, and anticipates a negative declaration determination. Please publish notice of availability for this project in the next OEQC Bulletin.

We have enclosed a completed OEQC Bulletin Publication Form and four copies of the draft EA.

If you have any questions, please contact Charlene Shibuya of our Engineering Division at (808) 243-7745

Very truly yours,

A handwritten signature in black ink, appearing to read "Charles Jencks", written over the typed name.

CHARLES JENCKS
Director of Public Works
and Waste Management

LL/CSS:ch(ED95-1549)
G:\ENGLNGTRAF\SK@Keala.OEQ

Enclosures

xc: Chester Koga (R.M. Towill Corp.) via fax (808) 842-1937 (w/encl)

168

1996-07-08-MA-FEA-South Kihei Road Traffic Signals at
Keala Place

JUL 8 1996

FILE COPY

FINAL ENVIRONMENTAL ASSESSMENT AND
FINDING OF NO SIGNIFICANT IMPACT (FONSI)

Traffic Signals for South Kihei Road at Keala Place

KIHEI, MAUI, HAWAII

MAY 1996

OFFICE OF ENVIRONMENTAL
QUALITY CONTROL

96 JUN 19 12:52

RECEIVED

Prepared for:
COUNTY OF MAUI
DEPARTMENT OF PUBLIC WORKS AND WASTE MANAGEMENT
ENGINEERING DIVISION
200 SOUTH HIGH STREET
WAILUKU, MAUI, HAWAII 96793

RMTC

R. M. TOWILL CORPORATION
420 Waiakamilo Road, Suite 411
Honolulu, Hawaii • 96817-4941
Voice: (808) 842-1133
Facsimile: (808) 842-1937

FINAL ENVIRONMENTAL ASSESSMENT AND
FINDING OF NO SIGNIFICANT IMPACT (FONSI)

TRAFFIC SIGNALS FOR SOUTH KIHEI ROAD AT
KEALA PLACE

Kihei, Maui, Hawaii
Tax Map Key: 3-9-03 and 05

MAY 1996

Prepared for:
DEPARTMENT OF PUBLIC WORKS AND WASTE MANAGEMENT
Engineering Division
County of Maui

Prepared by:
R. M. TOWILL CORPORATION
420 Waiakamilo Road, Suite 411
Honolulu, Hawaii 96817-4941

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PROJECT SUMMARY

Project: Traffic Signals for South Kihei Road at Keala Pl.

Applicant: Department of Public Works and Waste Management, Engineering Division
County of Maui
Contact: Charlene Shibuya, Project Manager
Engineering Division
Phone: (808) 243-7745

Accepting Authority: Department of Public Works and Waste Management (Engineering Division)
County of Maui

Tax Map Key: TMK: 3-9-03: and 05:

Location: South Kihei Road at Keala Place, Kihei, Maui, Hawaii

Owners: South Kihei Road, County of Maui
Keala Place, County maintained

Agent: R. M. Towill Corporation
420 Waiakamilo Road, Suite 411
Honolulu, Hawaii 96817-4941
Contact: Mr. Chester Koga, Phone: (808) 842-1133

Existing Land Use: Public right-of-way

State Land Use District: Urban

Community Plan Land Use Designation: Public Facility

SECTION 1
INTRODUCTION

1.1 PURPOSE AND OBJECTIVES

The Department of Public Works and Waste Management, Engineering Division, County of Maui, proposes to install traffic signals for South Kihei Road at Keala Place. This project is part of the general widening and other improvements being made to South Kihei Road. The installation of traffic signals will improve the safety of the intersection and relieve congestion now experienced by motorist's passing through and/or entering South Kihei Road from Keala Place. The objective of the project is to bring the intersection up to an acceptable Level of Service (LOS) "C" roadway standard. This project is a federally aided project.

1.2 PROJECT LOCATION

The proposed project is located in South Kihei on the eastern shore of Ma'alaea Bay (See Figure 1). Ma'alaea Bay is located on the southern side of the "connecting neck" of Maui, known as the Wailuku District. This area connects the west Maui Mountains with the huge mass of Haleakala at the eastern end of Maui. South Kihei is located on the leeward side of Haleakala. The County of Maui has designated the shoreline and certain inland areas of Maui as within the Special Management Area (SMA). This area in South Kihei is shown in Figure 2. The new traffic signals will be at the intersection of South Kihei Road and Keala Place (See Figures 3 & 4).

SECTION 2
PROJECT BACKGROUND

2.1 BACKGROUND

The Department of Public Works and Waste Management, Engineering Division, County of Maui proposes to install traffic signals on South Kihei Road at the intersection of Keala Place. This project is a part of the general widening and other improvements that are now being made to South Kihei Road. The installation of traffic signals and left turning lanes will significantly improve the safety of the intersection and enhance efficient flow of traffic through the intersection. The project will relieve the present unacceptable levels of service now being experienced at the intersection of South Kihei Road at Keala Place.

2.2 PROJECT DESCRIPTION

The project consists of the installation of a traffic control system at the intersection of South Kihei Road at Keala Place and the installation of curbs, gutters, sidewalks, drainage facilities, and the realignment of the Kalama Park Driveway. The proposed project area extends from Alahele Place to Halelani Place, a distance of 645 feet. The right-of-way of South Kihei Road is 120 feet wide. The project area is approximately one and one half acres in area. The project will require additional roadway right-of-way space to allow for left turning pockets. This additional space will be taken from Kalama Park, which is next to the project. The signalized intersection is designed to operate at Level of Service (LOS) "C" standards (See Figure 3 & 4).

The Kihei Gulch 1 stream runs under the project intersection. This small stream will be minimally affected by the construction activity associated with the proposed project. The roadway widening associated with the addition of turning

lanes will require an extension to the existing culvert that now channels the stream under South Kihei Road.

SECTION 3

CONSTRUCTION ACTIVITIES

3.1 GENERAL

The project will include all construction work necessary to prepare the site for the installation of a traffic signal system at intersection of South Kihei Road at Keala Place. The work will include, but not be limited to, road widening of the intersection approaches to accommodate the additional traffic lanes required for a signalized intersection to operate at acceptable LOS "C" standards. Most of the work will take place within the right-of-way of the existing South Kihei Road and Keala Place roadways. Additional road right-of-way space is needed for the interim three lane design and for the ultimate 4-5 lane road design (Kihei Traffic Master Plan). This additional space will be taken from the adjacent Kalama Park property. The project will also include the installation of new curbs, gutters, sidewalks, drainage facilities and the realignment of the Kalama Park Driveway across from Keala Place (See Figure 4).

Impacts and Mitigation Measures

No adverse environmental impacts are anticipated. All debris generated from the project will be disposed of in County approved locations in accordance with sound construction practices. All dust, noise, and other construction related nuisances will be governed by existing State and County of Maui construction rules and regulations.

3.2 CONSTRUCTION SCHEDULE AND ESTIMATED COST

Construction will be scheduled immediately upon receipt of all necessary environmental permits. The project is anticipated to require approximately six months time to complete. Estimated cost of construction is approximately \$300,000.

3.3 SAFETY CONSIDERATIONS

The construction site will be closed off from the surrounding pedestrian walkways and vehicular traffic will be routed around construction activities. These safety measures are taken to reduce any construction related dangers to pedestrians and passing motorists. The construction area will be fenced or cordoned off with barricades to prevent the public from entering the job site.

SECTION 4

DESCRIPTION OF THE AFFECTED ENVIRONMENT

4.1 PHYSICAL ENVIRONMENT

4.1.1 Climate

The project is located in the south-central region of the island. The site has an average annual high temperature range of 80 to 90 degrees Fahrenheit. North easterly tradewinds flow across the site at speeds of 18 to 25 miles per hour. Average rainfall amounts range from zero to 4 inches annually, mostly occurring between the months of October and April. High rainfall peaks occur through the months of December through March.

4.1.2 Topography and Soils

The topography at the intersection of South Kihei Road at Keala Place is flat and the ground elevation is approximately 10 feet. The project site is covered with concrete and asphalt-concrete cover of South Kihei Road and Keala Place roadways. The general soil type at the site is **Jaucas Sand (JaC)**. In a representative profile the soil is single grain, pale brown to very pale brown, sandy, and more than 60 inches deep. In many places the surface layer is dark brown because of accumulation of organic matter and alluvium. The soil is neutral to moderately alkaline throughout the profile.

Permeability is rapid, and runoff is very slow to slow. The hazard of water erosion is slight, but wind erosion is severe where vegetation has been removed. This soil is used for pasturage, sugar cane, truck crops, and urban development.

Approximately 200 feet to the west, within the Kalama Park, the soil changes

to Dune Land (DL) type, which consists of hills and ridges of sand-size particles that are wind drifted. The hills and ridges are actively shifting or are so recently fixed or stabilized that no soil horizons have developed. The sand is dominantly from coral and seashells.

This type of land is used for wildlife habitat, and recreational areas and as a source of liming material. Vegetation is sparse, but ironwood, koa haole, tropical almond, kiawe, and mixed grasses have gained a foothold in places.

4.1.3 Scenic and Open Space Resources

This project will not imperil any existing scenic views in the South Kihei area. Driving north on Kihei Road, the motorist's left-hand view at the intersection of Keala Place is of Kalama Park with its open, grassy areas and trees. Beyond the park, the ocean and the West Maui Mountains are visible in the distance. These views will not be adversely affected by the installation of traffic signals at the intersection. The right-hand view is of the Kukui Mall and Kihei Shopping Center, and their tree shaded parking areas.

Driving south on Kihei Road, the right-hand view is of the park with distant views of the ocean beyond. On the left-hand side, the view is of the many small commercial buildings with distant views of Haleakala seen through view corridors between the buildings. None of these views will be changed by the installation of the traffic control system at Keala Place.

Views of Kihei Gulch 1 stream will not be affected by the installation of the traffic signal system at Kihei Road and Keala Place.

4.1.4 Noise

Noise will be generated from various construction tools, other related construction equipment and vehicles. Short term impacts of noise quality will be controlled by application of appropriate noise control measures. It is not expected that these noise sources will adversely affect the normal activities of the public or of the business activities located nearby.

4.1.5 Air Quality Impacts

Air quality is excellent due to ocean breezes and tradewinds over the project site. The major factors affecting air quality will be the use of earth moving and other related heavy construction equipment and related vehicles that will release engine exhaust into the environment. It is not expected that this machinery will adversely affect air quality. Use of internal combustion engines will be governed by using appropriate pollution control devices according to federal, state and county requirements.

4.1.6 Hydrology

The Kihei Gulch 1 is an intermittent stream that runs beneath South Kihei Road at the project site. The roadway widening associated with the addition of turning lanes will require an extension to the existing culvert channeling the stream under the intersection. There will also be added sedimentary depositing of the stream into Ma'alaea Bay. The stream after emerging from under South Kihei Road, continues for approximately another 600 feet across Kalama Park before reaching the waters of the bay.

4.1.7 Federal "Firm" Zone Map

The project site is within the 100-year flood boundary. This is an area of shallow flooding where water depths can be between one (1) and three (3) feet high; with the average depth of inundation being in the one (1) foot high range. The 100-

year flood boundary is approximately 1,100 feet further inland (mauka) from the project site. As shown on "FIRM" Map Panel 265, National Flood Insurance Rate Map (See Figure 5).

4.1.8 Avifaunal and Feral Mammal Resources

There are no avifaunal and/or feral mammal resources within the area of the project site. There will no long-term adverse impacts to any avifaunal or feral mammal resources at or near the construction site.

4.1.9 Botanical Resources

There are no botanical resources within the area of the project site. The proposed project site is within the South Kihei Road and Keala Place roadway right-of-way. These areas have been graded and are completely covered with either concrete and/or asphalt-concrete.

The open grassy fields of Kalama Park adjacent to the project site contain no endangered botanical resources (The Nature Conservancy). The business properties on the opposite side of South Kihei Road are all developed and also have no known threatened botanical resources.

4.1.10 Historical/Archaeological Resources

It is expected that there are no historical and/or archaeological resources within the project site. The project site will require additional roadway right-of-way to allow for left turning lanes planned at the intersection. This additional road right-of-way will be taken from the Kalama Park area next to the project. It is not anticipated that any historic and/or archaeological resource materials will be encountered in the widening of the roadway. Workers will be instructed, that if any historic/archaeological or human remains are encountered, all work in the area should be immediately stopped. The State Historic Preservation Division of the Department of Land and Natural Resources (DLNR) should be promptly notified.

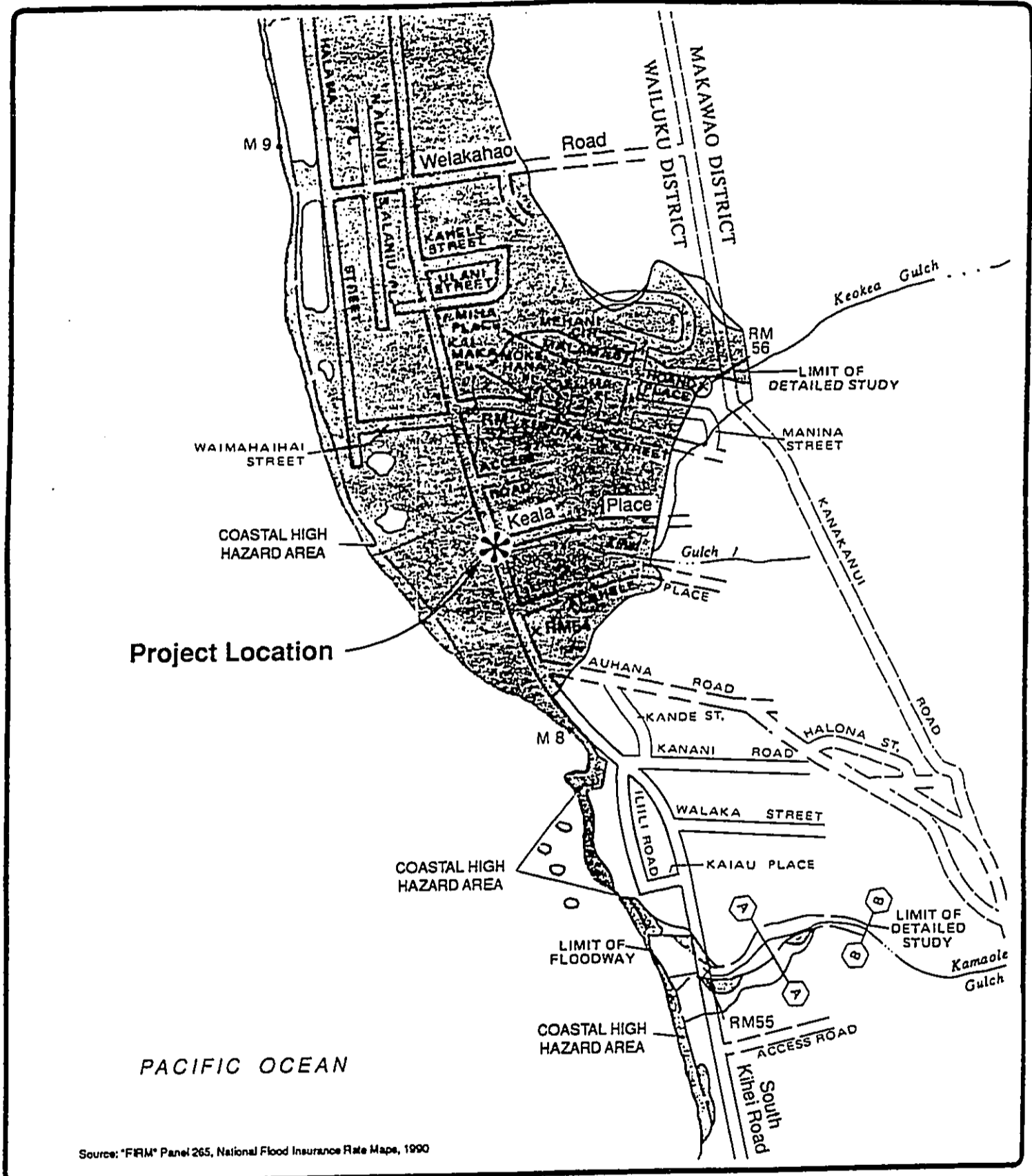
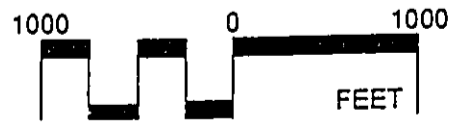


Figure 5
"FIRM" Flood Boundary Map
South Kihei Rd. and Keala Place
Kihei, Maui



R. M. TOWILL CORPORATION
August 1995

4.2 AFFECTED SOCIO-ECONOMIC ENVIRONMENT

4.2.1 Population

According to the 1994 State Data Book, the population of the Kihei area was 11,107 persons. The community of Kihei is located in the Kihei - Makena District. There was a 44.5 percent increase in the population of the district between the years 1980 and 1990. This large increase has had significant influence on traffic volumes on South Kihei Road (State of Hawaii data Book, 1994).

4.2.2 Land Ownership and Surrounding Land Use

The land uses surrounding the project site includes the Kukui Mall and the Kihei Shopping Center, owned by Pacific Warehouse, Inc. These properties occupy the northeastern corner of the South Kihei Road - Keala Place intersection. The southeastern corner property is owned by the Alii Kalama Hui and is used by several small retail and other commercial enterprises. Across South Kihei Road, is the state owned Kalama Park. Except for Kalama Park, these commercial areas will be minimally effected by the project construction activity (See Figure 8).

4.3 PUBLIC FACILITIES AND SERVICES

4.3.1 Community Plan and Public Facilities

Improvements to South Kihei Road are currently underway and include improvements to Welakahao Road.

At the northern end of Kalama Park are several other public facilities that include a fire station, a first aid station and a small public area.

The roadway widening and the installation of a traffic signal system will have minimal impact on Kalama Park and no impact on the other nearby public facilities

(See Figure 6).

4.3.2 Recreational Facilities

Recreational facilities located at or near the intersection of South Kihei Road and Keala Place include:

- a) Kalama Park, which is adjacent to the project
- b) Cove Park at Kaluaihakoko Point, which is approximately 1/2 mile south of the project location

Access to other recreational areas along the South Maui shoreline are provided by six public access ways located 1/2 mile north of Kalama Park. The three nearest are Kuola Place, Keolaiki Place and Kauna Place (off Halama Street.) See Figure 3.

Public vehicular access to Kalama Park via the Kalama Park access driveway will be blocked during the realignment of the access driveway. Pedestrian access and usage of the park will not be affected by the construction activity associated with the project. Access to the park extends for over a thousand feet along South Kihei Road in either direction from the Keala Place intersection. The other nearby recreational areas or facilities will not be impacted by the proposed project (See Figure 7).

The State of Hawaii Master Plan (Summary), "Bike Plan," shows a future proposed Bike Route running on South Kihei Road through the intersection of Keala Place. The installation of the traffic control system will add to the safety of bicyclists traveling the South Kihei Road bike route.

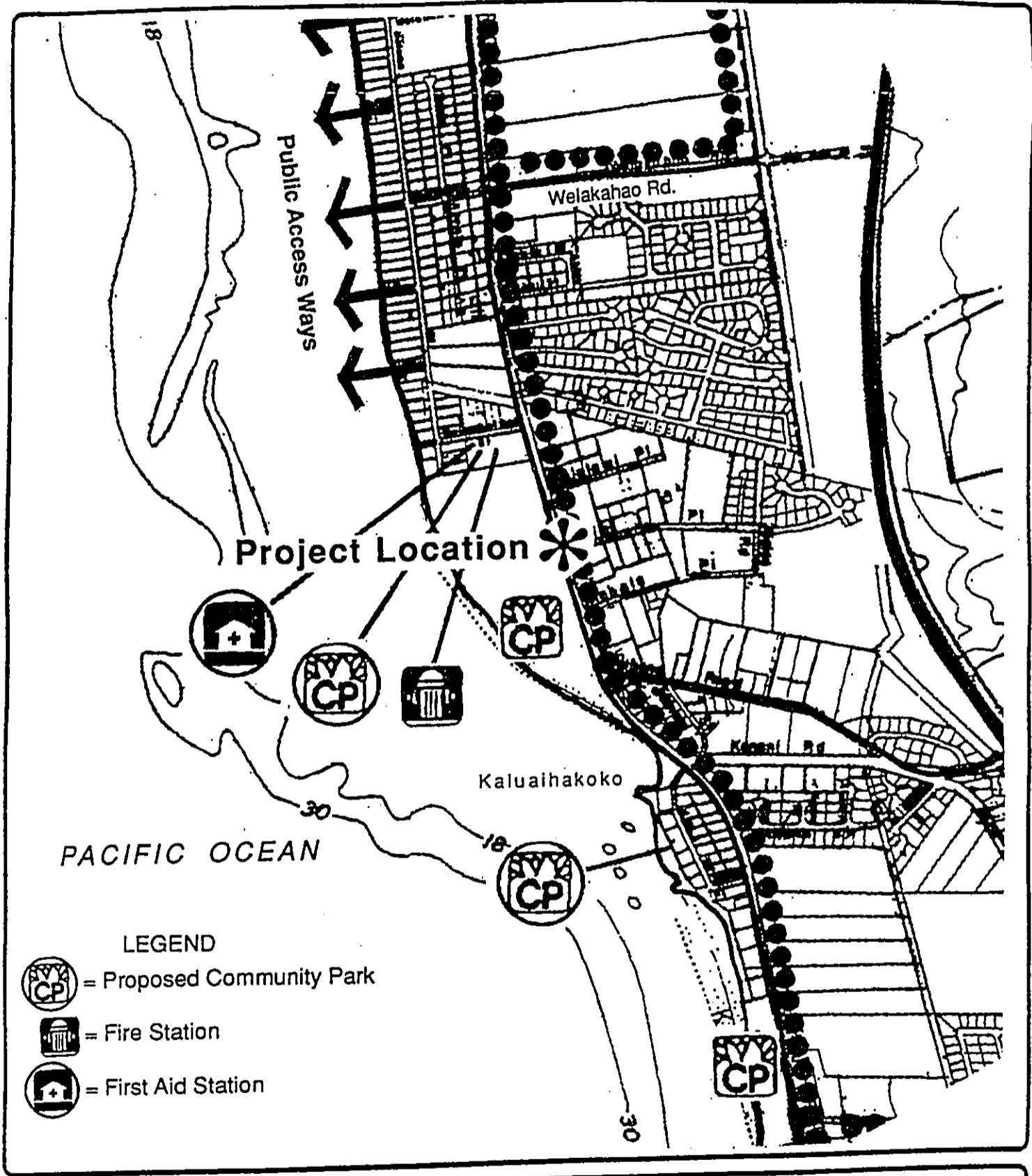


Figure 6
**Community Plan
Public Facilities Map**
Kihei, Maui



R. M. TOWILL CORPORATION
August 1995

SECTION 5

RELATIONSHIP TO STATE AND COUNTY LAND USE PLANS AND POLICIES

5.1 HAWAII STATE PLAN

The Hawaii State Plan (Chapter 226), Hawaii Revised Statutes) provides a guide for the future of Hawaii by setting forth a broad range of goals, objectives, and policies to serve as guidelines for growth and development of the State. The proposed project is generally consistent with the Hawaii State Plan. The following objectives of the State Plan are relevant to the proposed project:

Section 226-14: Facility Systems - In General

The proposed project supports the State's general goal of improving the transportation network of the state.

Section 226-17: Facility Systems - Transportation

The proposed project supports the State's goals for achieving improved transportation system of the statewide system, through the development of transportation systems that serve to accommodate present and future needs of local communities.

5.2 STATE FUNCTIONAL PLAN

The Hawaii State Functional Plan (Chapter 226) provides a management program that allows judicious use of the State's natural resources to improve current conditions and attend to various societal issues and trends. The proposed project is consistent with the State Functional Plans.

5.3 STATE OF HAWAII LAND USE DISTRICTS

The State Land Use designation of the project is Urban. No change in land use is required for the installation of the traffic signals at the intersection of South Kihei Road at Keala Place.

5.4 COUNTY OF MAUI COMMUNITY PLAN

The land use designation of the adjacent properties to the project are (B) business and (PK) park. Beyond the (B) business use area to the east (approximately one block), the area is designated as (SF) single family residential area. No land use change is required for the installation of traffic signals at the intersection of South Kihei Road at Keala Place (See Figure 7).

5.5 COUNTY OF MAUI ZONING

Tax Map Key number 3-9-03: 10 and 21 are zoned (B-2) Community Business District. The right-of way of South Kihei Road is state owned. Keala Place is maintained by the County of Maui. No change is required for the installation of new traffic signals at the project site intersection (See Figure 8).

5.6 SPECIAL MANAGEMENT AREA

The County of Maui has designated the shoreline and certain inland areas of Maui as a Special Management Area (SMA). SMA areas are felt to be sensitive environmental zones and should be protected according to the State's coastal zone management policies. The proposed project site is within the SMA boundary as defined by the County of Maui. The SMA boundary is approximately 1/2 mile inland from the project site and runs along or parallels the right-of-way of Piilani Highway.

The proposed project will have no adverse environmental or ecological effects on the SMA. The installation of traffic signals at the intersection of South Kihei Road and Keala Place is clearly of interest to the motoring public of Maui and the residents and business owners in the Kihei area in particular. A Special Management Permit (SMP) will be sought from the Planning Commission, County of Maui, for the installation of the proposed traffic signal system (See Figure 2).

SECTION 6

ALTERNATIVES TO THE PROPOSED ACTION

6.1 NO ACTION

The present high traffic volumes on South Kihei Road, requires the installation of traffic signals and left turning lanes at Keala Place. The no action alternative will result in continued unacceptable levels of service resulting in significant delays and serious safety/operational problems for both motorists and pedestrians using the intersection. The primary disadvantages of this alternative are the following:

- Loss of employment opportunities that would have been realized in connection with the construction activity of the proposed project
- Loss of improved traffic flow and vehicular safety through the project intersection

6.2 ALTERNATIVE ACTION

An alternate action would be to install a traffic control system at another location on South Kihei Road.

6.3 RECOMMENDED ACTION

The recommended action is to proceed with the installation of the traffic control system at the intersection of South Kihei Road at Keala Place. This work would include road widening of the intersection approaches to accommodate the

turning lanes required for the signalized intersection. The installation of new curbs, gutters, sidewalks, drainage system and the realignment of the Kalama Park entrance driveway are also part of the proposed project.

SECTION 7

NECESSARY PERMITS AND APPROVALS

7.1 FEDERAL

- Department of Army (Corps of Engineers) Permit

7.2 STATE

- Environmental Assessment
- Department of Health (NPDES) Permit
- Water Quality (401) Permit
- Water Resource Commission's Stream Channel Alteration
- Coastal Zone Management (CZM) Permit

7.3 COUNTY OF MAUI

Planning Department

- Special Management Permit

SECTION 8

DETERMINATION

In accordance with the provisions set forth in Chapter 343, Hawaii Revised Statutes, this assessment has primarily determined that the project will have no significant adverse impact to water quality, air quality, existing utilities, noise, archaeological sites, or wildlife habitat, and that an Environmental Impact Statement is not required. Traffic signals at South Kihei Road and Keala Place will have a beneficial effect on traffic flow and safety at the intersection. All anticipated impacts will be temporary and the environmental quality of the area will be enhanced. Therefore, it is anticipated that a Finding of No Significant Impact will be issued for this project (Hawaii Revised Statutes).

SECTION 9

CONSULTED AGENCIES

9.1 STATE AGENCIES

Office of Environmental Quality Control (OEQC)

9.2 COUNTY AGENCIES

Maui County Planning Department

Maui County Department of Public Works and Waste Management,

Engineering Division, Charleen Shibuya, Project Manager

Maui County Land Surveyor, Allen Watanabe

9.3 INDIVIDUALS AND GROUPS

The Nature Conservancy, Roy Kam

SECTION 10

COMMENTS AND RESPONSES TO THE DRAFT ENVIRONMENTAL ASSESSMENT

Please refer to the following letter and response.

BENJAMIN J. CAYETANO
GOVERNOR



FILE COPY

GARY GILL
DIRECTOR

STATE OF HAWAII
OFFICE OF ENVIRONMENTAL QUALITY CONTROL

220 SOUTH KING STREET
FOURTH FLOOR
HONOLULU, HAWAII 96813
TELEPHONE (808) 586-4186
FACSIMILE (808) 586-3452

December 20, 1995

Charles Jencks, Director
Department of Public Works And Waste Management
200 South High Street
Wailuku, Hawaii 96793

Attention: Charlene Shibuya

Dear Mr. Jencks:

Subject: Draft Environmental Assessment for South Kihei Road Traffic Signals
at Keala Place; TMK: 3-9-3 & 5

In the final EA please include the following:

1. Indicate amounts of Federal and State funding.
2. Notify neighbors nearest to the project location and include documentation of their responses.
3. Discuss measures that will be taken to prevent excessive runoff into the stream.

If you have any questions, please contact Nancy Heinrich at 586-4185.

Sincerely,

A handwritten signature in cursive script, appearing to read "GG".

Gary Gill

GG/NH

c: Chester Koga, R.M. Towill

R. M. TOWILL CORPORATION

180 WAIKAMUNUI RD #311 HONOLULU, HI 09817-1941 (808) 848-1133 FAX (808) 848-1037

June 23, 1996

Mr. Gary Gill, Director
Office of Environmental Quality Control
220 South King Street, 4th Floor
Honolulu, Hawaii 96813

Dear Mr. Gill:

**SUBJECT: SOUTH KIHAI ROAD INTERSECTION IMPROVEMENTS
AT KEALA PLACE, TMK: 3-9-3 AND 5**

The following has been prepared in response to your comments of December 20, 1995:

INDICATE AMOUNTS OF FEDERAL AND STATE FUNDING

The proposed project is intended to be funded by the Federal and County of Maui government. Construction costs are estimated at \$550,000 to be Federally funded. Design and planning costs are \$186,000, which is being funded by the County.

NOTIFY NEIGHBORS NEAREST TO THE PROJECT LOCATION AND INCLUDE DOCUMENTATION OF THEIR RESPONSES

Neighbors within 500 feet of the project location will be notified during the County of Maui Special Management Area (SMA) permit process. This process will provide residents and concerned citizens with the opportunity to comment during the public review phase of the project Environmental Assessment, as well as during the SMA public hearing. Any written comments received during the hearing process will be a matter of public record.

DISCUSS MEASURES THAT WILL BE TAKEN TO PREVENT EXCESSIVE RUNOFF INTO THE STREAM


The proposed project site contains standing water which has ponded due to blockage of the stream at the ocean end. This blockage has occurred over several years and is due to accumulation of coral spoils and other debris. Construction practices that will be taken to prevent excessive runoff into this standing water will be coordinated through the environmental permitting process. Permits which will address this concern include the Army Corps of Engineers, Section 404/Section 10

Mr. Gary Gill
June 23, 1996
Page 2

permit, and the Department of Health, Section 401 Water Quality Certification. Both permits have already been filed for this project and will involve use of mitigation measures and Best Management Practices (BMPs) to ensure protection of Federal and State waters.

Thank you for this opportunity to respond. Should you or your staff have any questions please contact us at (808) 842-1133.

Sincerely,



Brian Takeda
Senior Planner

BT/bt

cc Charlene Shibuya, County of Maui, DPWWWM

REFERENCES

1. Austin, Tsutsumi & Associates, Inc., Kihei Traffic Master Plan; prepared for Department of Public Works, County of Maui, October 1989
2. Bike Plan Hawaii, A State of Hawaii Master Plan (Summary), Highways Division, Department of Transportation, April 1994
3. "FIRM" Flood Insurance Rate Maps, 1990, Maui County, Hawaii, National Flood Insurance Program, Federal Emergency Management Agency.
4. Hawaii Revised Statutes, 1985 Replacement
5. Parsons Brinckerhoff Quade & Douglas, Inc., Urban Intersection Signal Priority Study; prepared for County of Maui, Department of Public Works and Waste Management, Engineering Division, Final Report, December 1994
7. Soil Survey of - Islands of Kauai, Oahu, Maui, Molokai, and Lanai, State of Hawaii. United States Department of Agriculture, Soil Conservation Service, August 1972.
8. The State of Hawaii Data Book 1994: A Statistical Abstract, Department of Business, Economic Development & Tourism, State of Hawaii, June 1994.

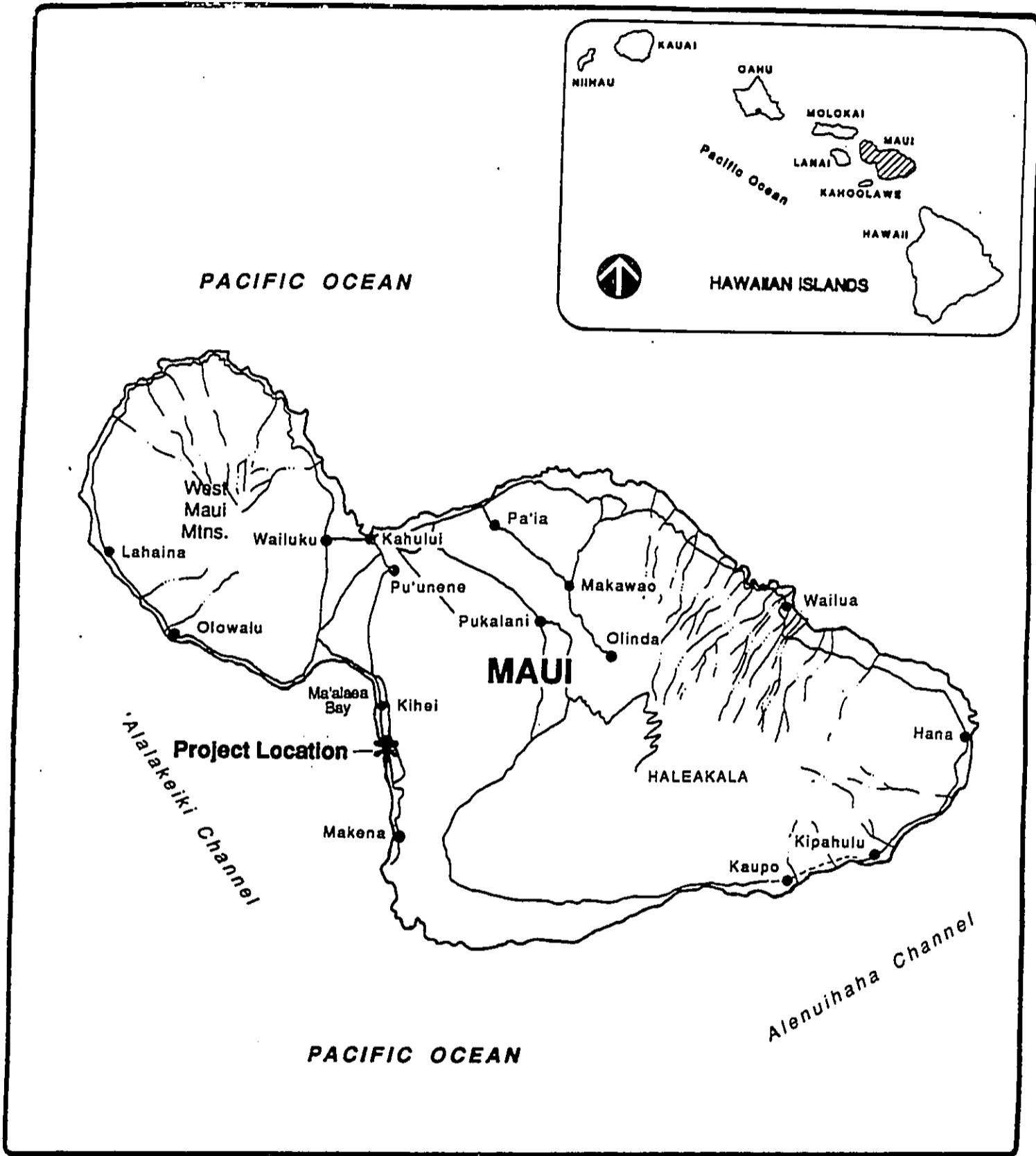
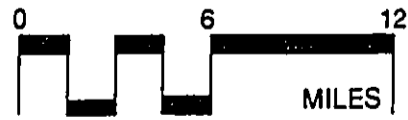


Figure 1
Island Location Map
 Kihei, Maui



R. M. TOWILL CORPORATION
 August 1995

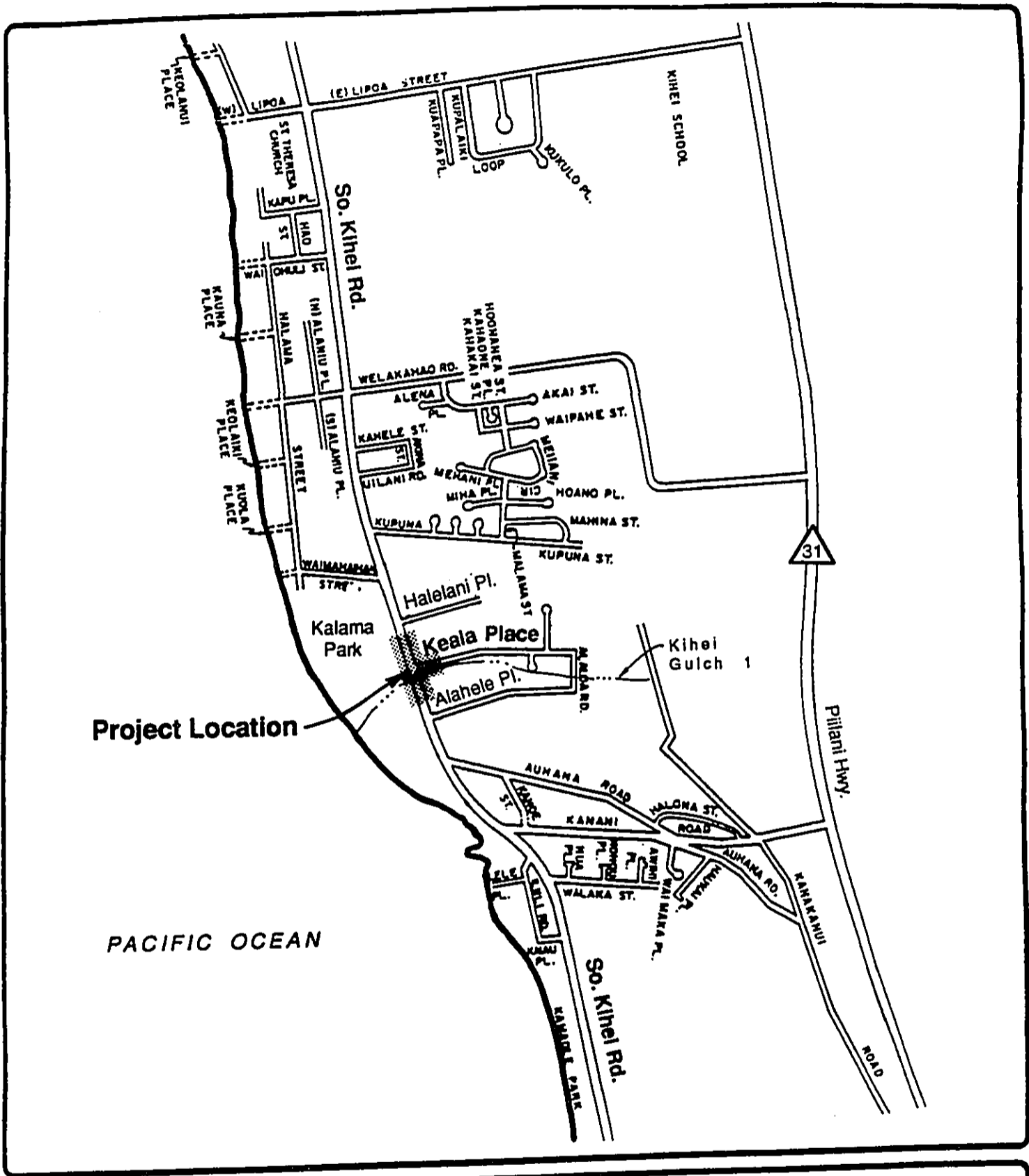


Figure 3
South Kihei Road and
Keala Place Location Map
 Kihei, Maui



No Scale

R. M. TOWILL CORPORATION
 August 1985

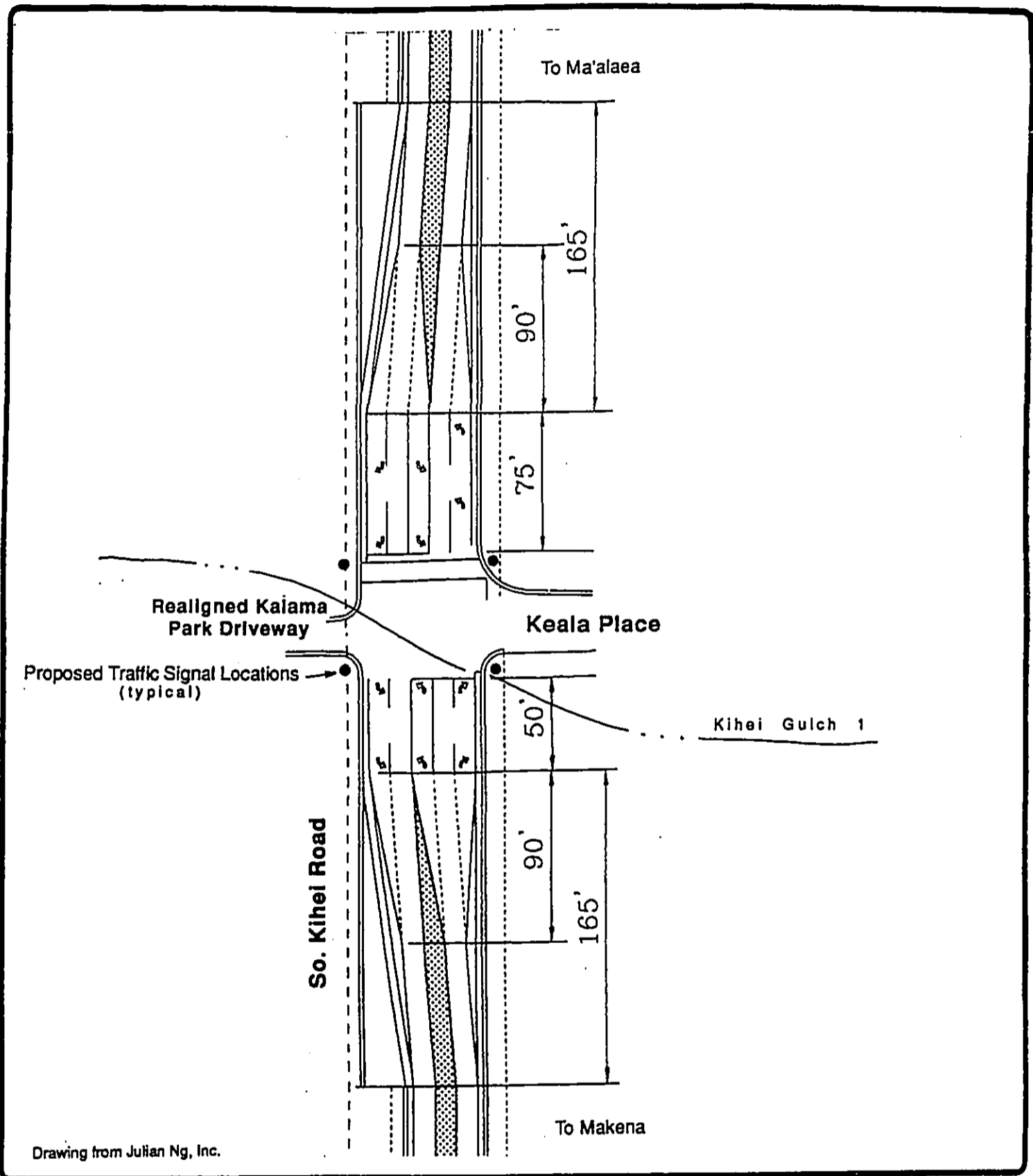
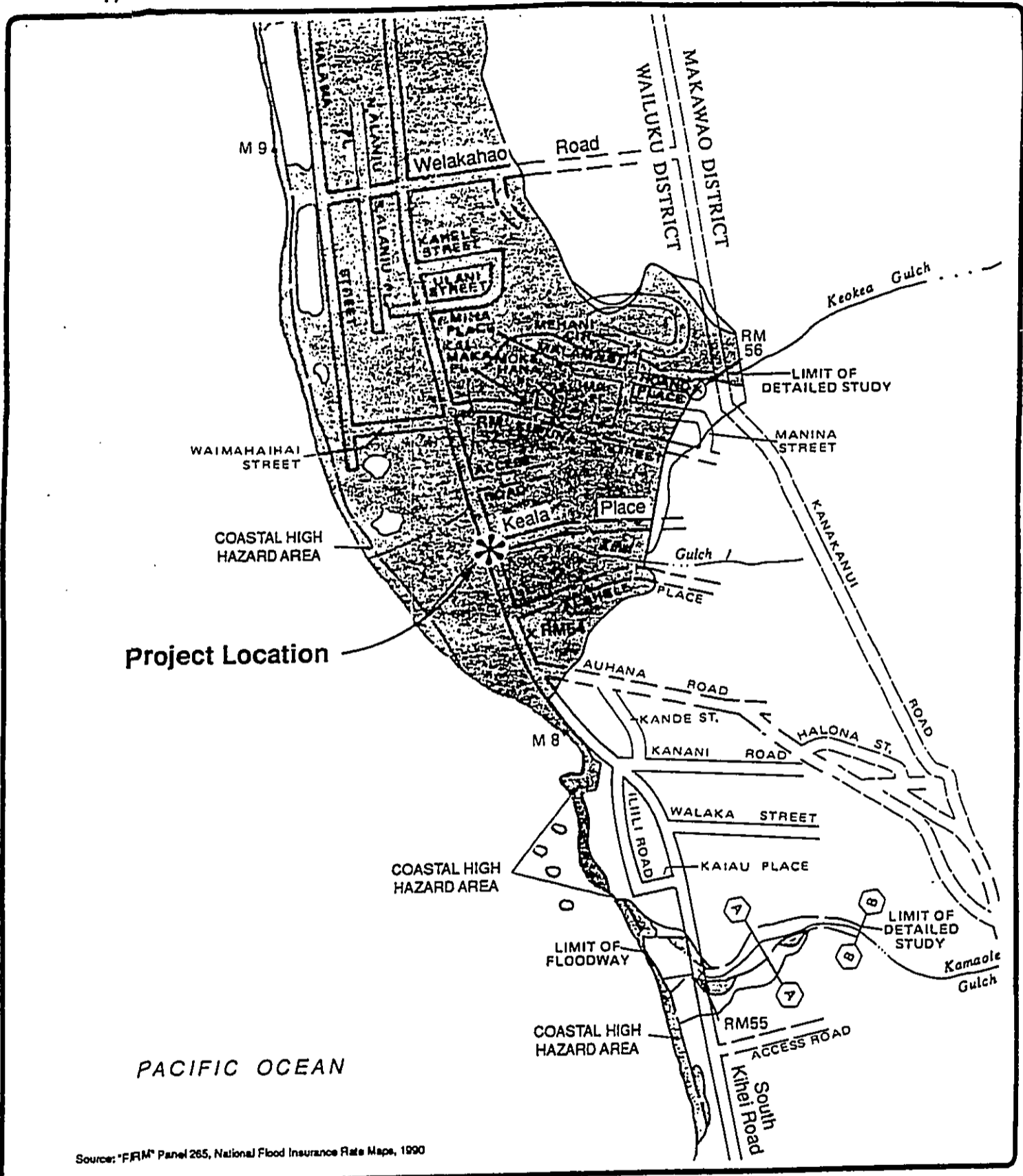


Figure 4
Schematic Diagram
 of Proposed Intersection Design
 Kihei, Maui



No Scale

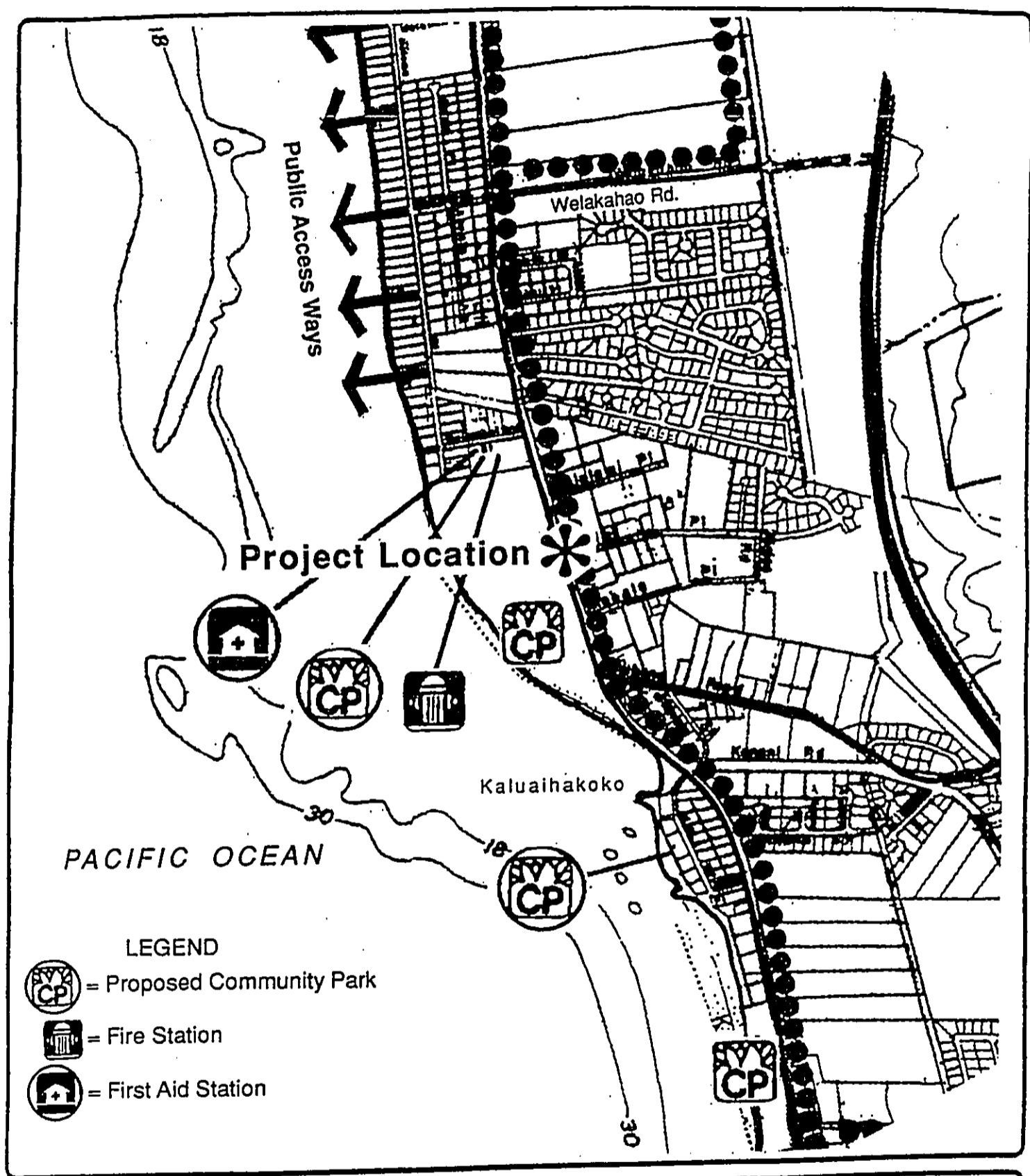
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Source: "FIRM" Panel 265, National Flood Insurance Rate Maps, 1990

Figure 5
"FIRM" Flood Boundary Map
South Kihei Rd. and Keala Place
Kihei, Maui

1000 0 1000
FEET
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August 1995



- LEGEND
- = Proposed Community Park
 - = Fire Station
 - = First Aid Station

Figure 6
**Community Plan
Public Facilities Map**
Kihei, Maui

1000 0 1000
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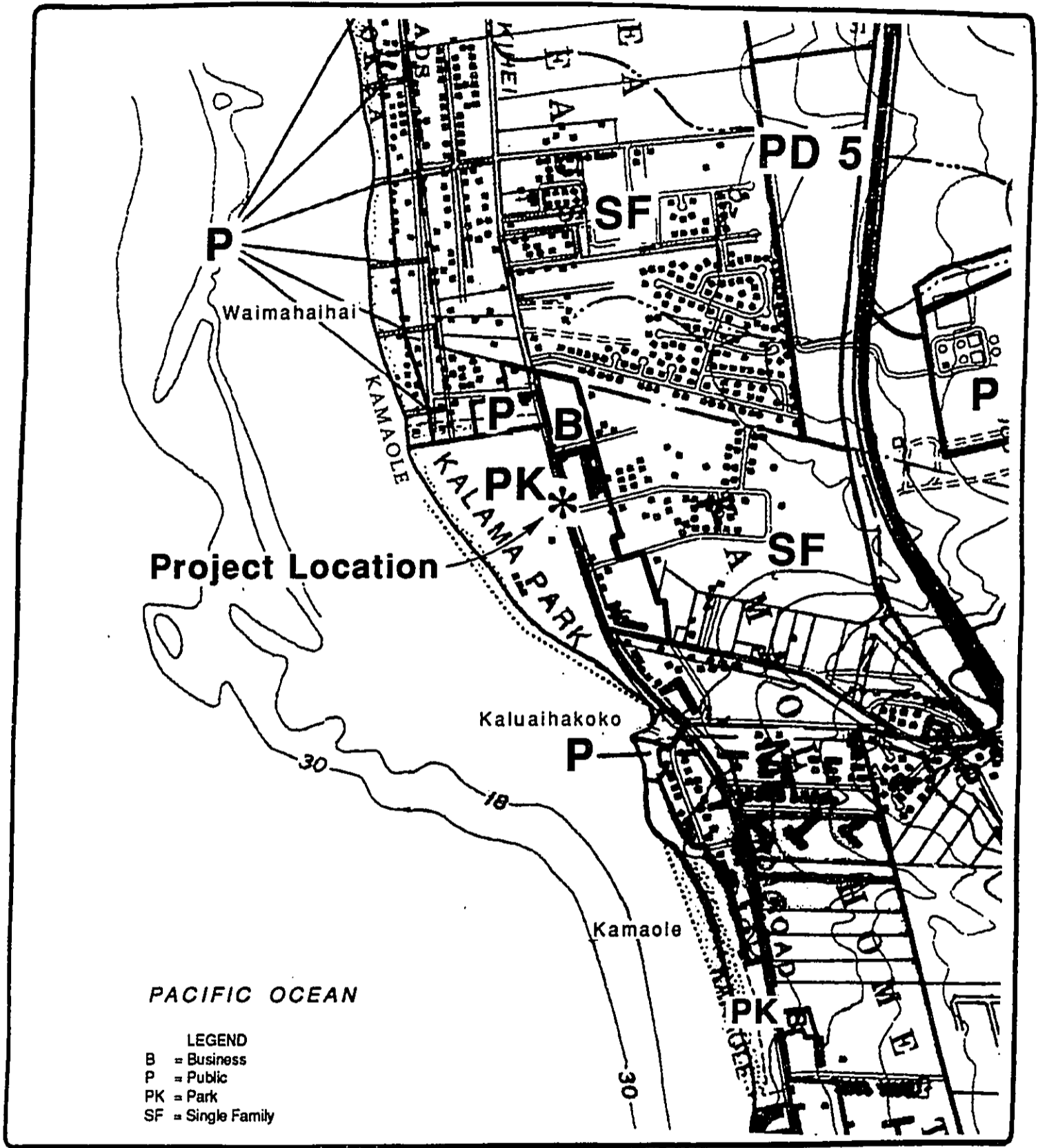
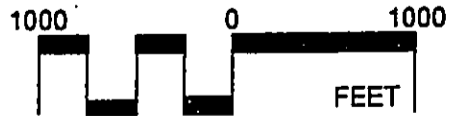


Figure 7
Community Plan
South Kihei Rd. and Keala Place
Kihei, Maui



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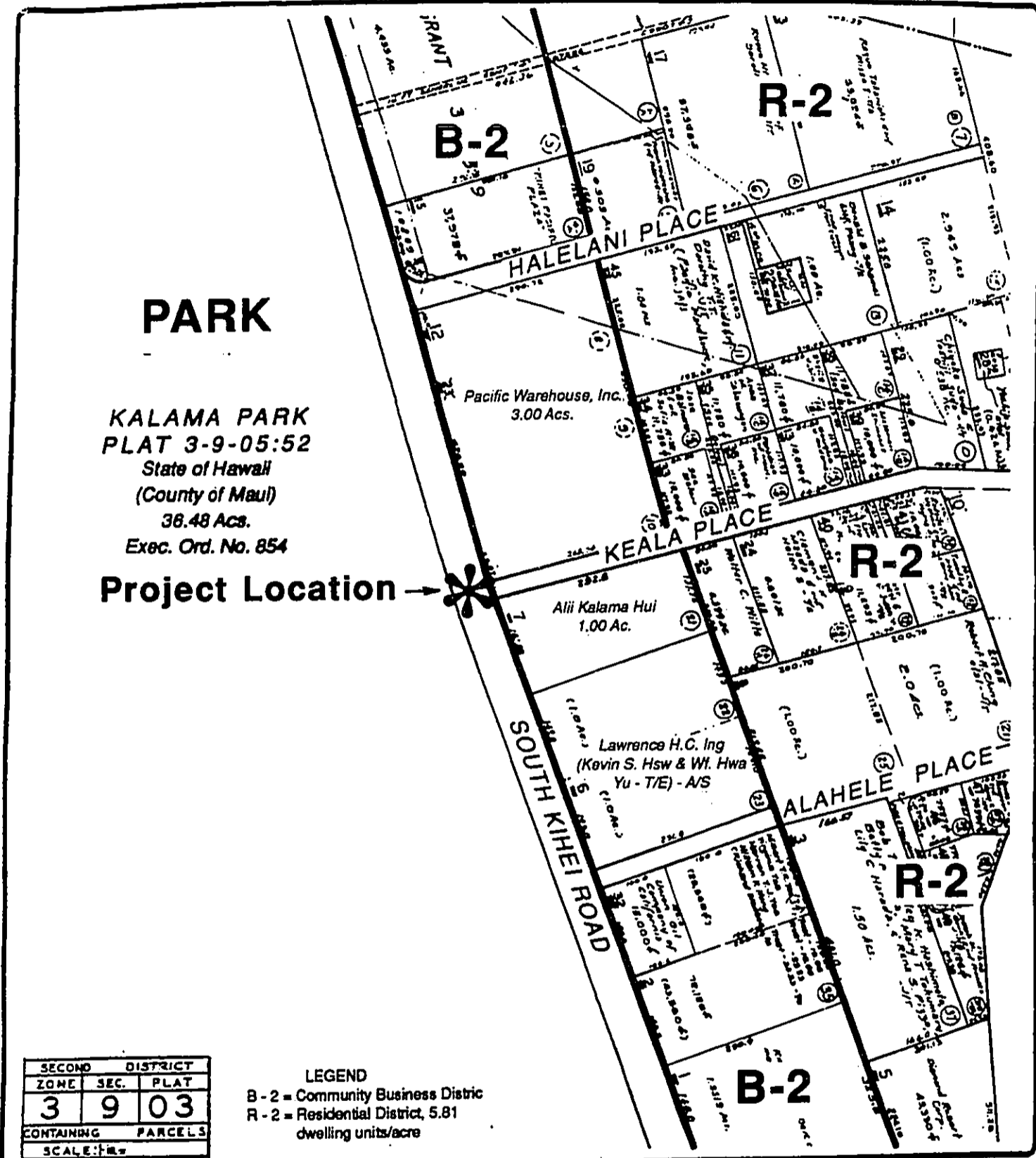



Figure 8
ZONING MAP
 South Kihei Rd. and Keala Place
 Kihei, Maui

 200 0 200
 FEET

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