

# THE NATURE CONSERVANCY OF HAWAII



• 1116 SMITH STREET • SUITE 201 • HONOLULU, HAWAII • 96817 • (808) 537-7508 •

April 12, 1987

Mr. William Paty  
Chairman  
Department of Land and  
Natural Resources  
1151 Punchbowl St.  
Honolulu, HI 96813

Dear Mr. Paty:

Please find enclosed the Conservation District Use Application of The Nature Conservancy of Hawaii for the management of its nature preserve system. Because this application is rather lengthy and complex, I hope you will find the following brief explanation of the materials helpful.

The proposed use and management objectives of the preserve system are described in a single Environmental Assessment (Attachment #1) which covers five established and four proposed preserve parcels within the conservation district. These parcels are listed and described briefly in the Environmental Assessment.

Each preserve is described in greater detail in Attachments #2A-2I. For each preserve, the Master Application Form and Description of Parcel have been completed, and maps of the preserve have been attached.

Attachment #3 is the Description of Proposed Activity. Like Attachment #1, Attachment #3 refers to all preserve parcels collectively.

We have included proposed preserve additions and expansions in this application in order to expedite future amendments of the requested permit and to advise the Department of our long-range goals. The present permit request, however, is for management activities on existing preserves only. As the preserve system is

Samuel A. Cooke,  
Chairman  
William E. Aull  
Kenneth F. Brown  
Zach W. Brown, Jr.

Robert E. Clarke  
Herbert C. Cornuelle  
Jane B. Dunaway  
Jackie Mahi Erickson  
George J. Fukunaga

Michael E. Hays  
David A. Heenan  
Liberl K. Laudgraf  
Edward MacNaughton  
Frank J. Mannul

Fujio Matsuda  
Bill D. Mills  
Diane J. Plotts  
H. M. Monte Richards  
Jean F. Rolles

Charles P. Stone  
William H. Stryker  
Edward D. Sultan, Jr.  
Laura L. Thompson  
Lawrence Vied

STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
P. O. BOX 621  
HONOLULU, HAWAII 96809

DEPARTMENT MASTER APPLICATION FORM

FOR DLNR USE ONLY

Reviewed by \_\_\_\_\_  
Date \_\_\_\_\_  
Accepted by \_\_\_\_\_  
Date \_\_\_\_\_  
Docket/File No. \_\_\_\_\_  
180-Day Exp. \_\_\_\_\_  
EIS Required \_\_\_\_\_  
PH Required \_\_\_\_\_  
Board Approved \_\_\_\_\_  
Disapproved \_\_\_\_\_  
Well No. \_\_\_\_\_

(Print or Type)

I. LANDOWNER/WATER SOURCE OWNER  
(If State land, to be filled  
in by Government Agency in  
control of property)

Name Haleakala Ranch Co.

Address P.O. Box 428  
Makawao, HI 96768

Telephone No. (808) 572-7326

SIGNATURE x [Signature]

Date 5/4/87

II. APPLICANT (Water Use, omit if applicant  
is landowner)

Name The Nature Conservancy of HI

Address 1116 Smith Street, Rm 201  
Honolulu, Hawaii 96817

Telephone No. (808) 537-4508

Interest in Property Perpetual

conservation easement  
(Indicate interest in property; submit  
written evidence of this interest)

\*SIGNATURE [Signature]

Date 7/30/87

\*If for a Corporation, Partnership,  
Agency or Organization, must be signed  
by an authorized officer.

III. TYPE OF PERMIT(S) APPLYING FOR

- ( ) A. State Lands  
(x) B. Conservation District Use  
( ) C. Withdraw Water From A Ground  
Water Control Area  
( ) D. Supply Water From A Ground  
Water Control Area  
( ) E. Well Drilling/Modification

IV. WELL OR LAND PARCEL LOCATION REQUESTED

District Makawao

Island Maui

County Maui

Tax Map Key 2-3-05-4

Area of Parcel 4347 acres  
(Indicate in acres or  
sq. ft.)

Term (if lease) \_\_\_\_\_

V. Environmental Requirements - Please see Attachment #1

Pursuant to Chapter 343, Hawaii Revised Statutes, and in accordance with Section 1:30B of the EIS Regulations for applicant actions, an Environmental Assessment of the proposed use must be attached. The Environmental Assessment shall include, but not be limited to the following:

- A. Identification of application;
- B. Description of proposed use and statement of objectives;
- C. Description of affected environment, including appropriate maps and plans to show location, topography, site improvements, existing utilities and vegetation and archaeological/historical sites, if any. (See page 5, section I).
- D. General description of the technical, economic, social and environmental characteristics of the proposed use.

NOTE: The Environmental Assessment may be substituted in lieu of the information required above.

INFORMATION REQUIRED FOR ALL USES - Please see Attachment #2-D

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- A. Existing structures/Use. (Attach description or map).
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- C. Existing access. (Provide map showing roadways, trails, if any. Give street name. Indicate width, type of paving and ownership).
- D. Vegetation. (Describe or provide map showing location and types of vegetation. Indicate if rare native plants are present).
- E. Topography; if ocean area, give depths. (Submit contour maps for ocean areas and areas where slopes are 40% or more. Contour maps will also be required for uses involving tall structures, gravity flow and other special cases).
- F. If shoreline area, describe shoreline. (Indicate if shoreline is sandy, muddy, rocky, etc. Indicate cliffs, reefs, or other features such as access to shoreline).
- G. Existing covenants, easements, restrictions. (If State lands, indicate present encumbrances).
- H. Historic sites affected. (If applicable, attach map and descriptions).

II. Description: Describe the activity proposed, its purpose and all operations to be conducted. (Use additional sheets as necessary). - Please see Attachment #3

III. Commencement Date: January 1, 1987

Completion Date: ongoing

IV. TYPE OF USE REQUESTED (Mark where appropriate)

1. Permitted Use (exception occasional use);  
DLNR Title 13, Chapter 2, Section 11, 12, 13; Subzone P, L, R
2. Accessory Use (accessory to a permitted use):  
DLNR Title 13, Chapter 2, Section \_\_\_\_\_; Subzone \_\_\_\_\_.
3. Occasional Use: Subzone \_\_\_\_\_.
4. Temporary Variance: Subzone \_\_\_\_\_.
5. Conditional Use: Subzone \_\_\_\_\_.

Area of Proposed Use 4,347 acres  
(Indicate in acres or sq. ft.)

Name & Distance of Nearest Town or Landmark  
adjacent to northern boundary of Haleakala National Park

Boundary Interpretation (If the area is within 40 feet of the boundary of the Conservation District, include map showing interpretation of the boundary by the State Land Use Commission).

Conservation District Subzone L, R, & P  
County General Plan Designation conservation

#### V. FILING FEE

1. Enclose \$50.00. All fees shall be in the form of cash, certified or cashier's check, and payable to the State of Hawaii.
2. If use is commercial, as defined, submit additional public hearing fee of \$50.00.

#### INFORMATION REQUIRED FOR CONDITIONAL USE ONLY N/A

##### I. Plans: (All plans should include north arrow and graphic scale).

- A. Area Plan: Area plan should include but not be limited to relationship of proposed uses to existing and future uses in abutting parcels; identification of major existing facilities; names and addresses of adjacent property owners.
- B. Site Plan: Site plan (maps) should include, but not be limited to, dimensions and shape of lot; metes and bounds, including easements and their use; existing features, including vegetation, water area, roads, and utilities.
- C. Construction Plan: Construction plans should include, but not be limited to, existing and proposed changes in contours; all buildings and structures with indicated use and critical dimensions (including floor plans); open space and recreation areas; landscaping, including buffers; roadways, including widths; offstreet parking area; existing and proposed drainage; proposed utilities and other improvements; revegetation plans; drainage plans including erosion sedimentation controls; and grading, trenching, filling, dredging or soil disposal.
- D. Maintenance Plans: For all uses involving power transmission, fuel lines, drainage systems, unmanned communication facilities and roadways not maintained by a public agency, plans for maintenance shall be included.
- E. Management Plans: For any appropriate use of animal, plant, or mineral resources, management plans are required.
- F. Historic or Archaeological Site Plan: Where there exists historic or archaeological sites on the State or Federal Register, a plan must be submitted including a survey of the site(s); significant features; protection, salvage, or restoration plans.

##### II. Subzone Objective: Demonstrate that the intended use is consistent with the objective of the subject Conservation District Subzone (as stated in Title 13, Chapter 2).

Attachment #1

ENVIRONMENTAL ASSESSMENT

Prepared in support of the Conservation District Use Application submitted to the Department of Land and Natural Resources for the establishment and management of a system of nature preserves for the conservation of native Hawaiian species and ecosystems.

A. IDENTIFICATION OF APPLICANT

The Nature Conservancy of Hawaii, a private, non-profit organization.

1116 Smith St., Suite 201  
Honolulu, HI 96817

B. DESCRIPTION OF PROPOSED USE AND STATEMENT OF OBJECTIVES

The Nature Conservancy of Hawaii proposes to establish and maintain a privately-funded system of nature preserves for conservation of Hawaiian species and ecosystems. Five preserves have been established and it is anticipated that several others will be added in the future. A permit is requested for management activities to further the conservation purposes of the established preserves. Four pending preserves are also described here, which will be managed under the same set of objectives described herein if they are successfully established. Additional potential preserves will be brought to the Department's attention as they arise.

The management objectives on all preserves are:

- 1) To perpetuate native species and ecosystems through programs to control damage by non-native species or inappropriate human uses.
- 2) To enhance public awareness and support of conservation efforts.
- 3) To improve resource management techniques through appropriate research.
- 4) To operate the minimum of equipment and facilities necessary to fulfill these objectives.

C. SUMMARY DESCRIPTION OF THE AFFECTED ENVIRONMENT

Parcels within the conservation district and already established as Conservancy nature preserves include the following:

- 1) Kaluahonu, Kauai (218-acre lease from Grove Farm Company). A nesting site for a threatened seabird, the Newell's Shearwater. (Attachment 2-A)
- 2) Kamakou, Molokai (2,774-acre conservation easement from Molokai Ranch, Ltd., with possible expansion to 7,512 acres). A rain forest and shrubland preserve. (Attachment 2-B)
- 3) Pelekunu, Molokai (5,759-acres owned in fee by the Conservancy). A lowland forest and stream preserve. (Attachment 2-C)
- 4) Waikamoi, Maui (5,230-acre conservation easement from Haleakala Ranch Company, with possible extension to approximately 8,500 acres). A rain forest and subalpine shrubland preserve. (Attachment 2-D)
- 5) Ihiihilauakea, Oahu (roughly 60 acres under a management agreement with the City and County of Honolulu). A seasonal freshwater pool which supports a rare native fern. (Attachment 2-E)

Parcels within the conservation district and subject to current negotiations for acquisition as nature preserves include the following:

- 1) Moomomi, Molokai (900-acre fee acquisition anticipated, with possible expansion to a total of 1,500 acres in the future). A major coastal dune ecosystem with native plants and marine animals. (Attachment 2-F) NOTE: a separate CDUA has already been submitted to the Department for subdivision necessary to establish this preserve.
- 2) Waialae Nui, Oahu (1,197-acre fee acquisition or conservation easement anticipated). A native forest and shrubland ecosystem. (Attachment 2-G)
- 3) Kanaele, Kauai (1,518-acre conservation easement anticipated, with possible expansion to 2,000 acres). A lowland rain forest and bog ecosystem. (Attachment 2-H)

4) Puu Kukui, Maui (8,230-acre conservation easement anticipated). Native rain forest, moist forest, shrubland and bog ecosystems. (Attachment 2-I)

Detailed descriptions of each of the above parcels are attached (see Attachments #2-A-I--DESCRIPTION OF PARCELS).

D. CHARACTERISTICS OF PROPOSED USE

1. Technical

Preserve staff and/or volunteers under staff supervision will implement programs to remove or control damaging non-native species of plants and animals in important native habitats on the preserves. Removal and control methods will include hunting and trapping of non-native animals, construction of fences to aid in control efforts, application of approved pesticides to control weeds, predators, etc., and revegetation of damaged areas to prevent erosion or weed establishment. Staff will also prevent ecosystem damage by inappropriate human activities by constructing barriers to illegal vehicle traffic and otherwise limiting human activities in sensitive habitats.

Staff and volunteers will conduct educational field trips to increase public understanding and support of conservation activities. Interpretive materials will be produced for use by visitors and schools, and small signs or displays may be erected along limited nature trails in some preserves to assist with educational activities.

Appropriate scientific research to improve techniques for management of Hawaiian natural resources and ecosystems will be encouraged on preserves which can support such activities without undue damage to sensitive habitats. All research involving threatened or endangered species will be reviewed for approval by appropriate state and federal agencies.

Staff and volunteers will construct foot trails, fences, signage, field shelters, etc. as minimally necessary to fulfill the management objectives described above. Operation and landing of boats and helicopters will be a necessary component of control programs for non-native species, and for maintenance of safety and fire-suppression programs. All construction plans and all operation or landing of boats or helicopters will be reported to the appropriate district forestry administrator prior to implementation. All helicopter operations will be conducted so as to cause minimum disturbance to populated areas, parks, and sensitive habitats.



## 2. Economic

The proposed use will not significantly reduce any existing economic activities on conservation lands in the state. Through expansion of its professional and part-time staff, the Conservancy will add a few jobs and resultant income to island economies, and will increase opportunities for employment in the resource management field in the state. Those preserves which are open to the public will probably attract moderate numbers of conservation- or nature-minded visitors to the islands. (Visitor numbers on the preserves will be limited to prevent damage to sensitive habitats.) Increased research activity may bring funding from out-of-state scientific institutions and add opportunities for scientific studies and employment within the state.

The proposed use is supported through private fundraising. Significant public natural resources will be protected without any cost to the taxpayer. In addition, philanthropic funds from outside Hawaii will be brought into the state to aid in acquisition and operations.

## 3. Social

The nature preserve system may increase public understanding and support of conservation, and may become a source of community pride in some areas. Present, non-destructive, non-commercial recreational and cultural activities may continue on the preserves without serious deleterious effects to the environment.

## 4. Environmental

Native species and ecosystems within the preserves will be protected from destruction by non-native species and other threats. The rate of extinction in native Hawaiian species should be lessened and some species may recover from present low numbers to larger, more viable populations. Protection of upland areas will enhance watershed areas as well, and may result in an improvement in water quality and yield in some areas. Scenic values will be enhanced and open space will be preserved. Stable native environments will be available for scientific studies which may provide baseline data and other information of value in the long-term management of island natural resources.

DESCRIPTION OF PARCEL

Waikamoi Preserve, Maui

General Description

The Nature Conservancy of Hawaii has established the Waikamoi Preserve on a parcel of land that is, in part, within Conservation District Protected, Limited and Resource subzones (Map A-C). The preserve was established through the grant of a conservation easement to the Conservancy by the landowner, Haleakala Ranch Company. The 5,230-acre preserve is located on the upper northwest slopes of Haleakala volcano, immediately north of Haleakala National Park, and was established to protect several endangered forest bird species which inhabit the forest and shrubland ecosystems of the area. Lands adjacent to the preserve on the west are zoned for agriculture and are currently used for grazing. Lands to the south, northwest, north and east of the preserve are forest reserve or national park.

In the future, the Conservancy may negotiate with the private landowner to the north to expand the preserve to a total of approximately 8,500 acres.

A. Existing Structures/Use

The Preserve area is generally used as a watershed only. Recreational hunting of pigs and goats is practiced throughout most of the area. Other than trails and a small water intake pipeline, no structures exist within the Conservation District portion of the Preserve.

B. Existing Utilities

There are no existing utilities.

C. Existing Access

Access to the Preserve is obtained via a jeep trail that enters the western boundary of the Preserve near Waikamoi Stream (Map B). Two foot and horse trails enter the south border of the Preserve from Haleakala National Park. All other access is by helicopter, or overland by foot without benefit of trails.

D. Vegetation

The Waikamoi Preserve contains a mosaic of natural communities. Plant communities found within the Preserve include montane koa-ohia forest, montane ohia wet forest, montane ohia moist forest, subalpine moist amaumau-ohelo shrubland, amaumau-ohelo-ohia shrubland, subalpine dry mamane forest, dry alpine

pukiawe ohelo shrubland and pukiawe-ohelo-ohia shrubland. Descriptions of these communities and vegetation mapping were done by the U.S. Fish and Wildlife Service during its forest bird surveys (see Map D and legend). Of the 343 plant species known to occur on the Preserve, 272 are native to the Hawaiian Islands. Of these, 211 are endemic to Hawaii. Four of these species are considered candidates for listing as endangered by the federal government: Bidens campylotheca, Geranium arboreum, Pelea orbicularis, and Platanthera holochila. Platanthera holochila is the rarest of the three native orchids, and is now known from only five small populations throughout the state. One population was found in upper Koolau Gap in Waikamoi, in moist ohia forest. The other three candidate endangered species are known only from Haleakala Volcano.

Other significance:

The Hawaiian Hoary Bat, the only native Hawaiian mammal, is found in the Waikamoi Preserve. Fifteen native birds are known historically from the preserve region. One of these is now extinct on Maui, eight are endangered and one is threatened with extinction. The endangered species are dark-rumped petrel, Maui parrotbill, Maui nukupuu, Maui akepa, crested honeycreeper, poouli, and Hawaiian goose. The Bishop's o'o may be surviving on windward East Maui.

The Waikamoi Preserve is very important as watershed for upcountry Maui. It is also an accessible area for research of native plant communities and rare species, native birds, and for educational activities and field trips.

E. Topography

See Map B.

F. Shoreline

There is no shoreline within the preserve.

G. Existing Covenants, Easements, Restrictions

The preserve area is owned by Haleakala Ranch Company, who has conveyed to the Nature Conservancy a perpetual conservation easement which grants the Conservancy the rights to conduct the management activities described in this application.

H. Historic Sites Affected

There are no historic sites affected.

Legend to Map 4: NATURAL COMMUNITIES OF WAIKAMOI PRESERVE

MAP UNIT

NATURAL COMMUNITY DESCRIPTION

- M:Ac-Me,nt(ns-xg-xs) Montane koa-ohia wet forest. (Mapped here as "moist" because USFWS system of indicator species maps all koa range as moist.) This is one of the preserve's most diverse community types, with a number of native trees and vines sharing the overstory with koa and ohia, and a rich understory typified by ground ferns. Actually ranges from moist to wet west to east. This is the last remnant of a koa-ohia forest which once extended across the entire west slope of Haleakala. It is exceptionally vulnerable to weed invasion as it has rich soils and occupies the edge of the preserve. It is important habitat for Maui Parrotbill, Akohekohe and other forest birds.
- M:Ac-Me,nt(tf-ns,xs) This is a slight variation on the above koa ohia wet forest, in which the understory is dominated by tree ferns. Within the preserve, it is restricted to the deep, cinder soils of Puu O Kakae.
- W:Me,nt(ns/mf,tf) Montane ohia wet forest. This is the heart of forest bird habitat, dominated by a tall ohia overstory, with a wet understory variously dominated by a diverse set of native shrubs and vines or matted ferns. It is important pig habitat and ususally difficult to work in. Weeds are less common here than in drier communities, probably due to severe soil chemistry and remoteness from weed sources.
- M:Me,nt(ns,mf) Montane ohia moist forest. At Waikamoi, this is an open-canopied forest in Koolau Gap which marks the transition from Montane ohia wet forest downslope to Subalpine dry shrubland upslope. It is an exceptionally intact community harboring several rare plant species, perhaps because of a rugged aa lava substrate which makes ungulate access difficult.
- M:(mg,ns)Me-nt This is a vegetation type created by pigs and, according to oral history, by 19th century potato farmers in deep-soiled forest and shrubland habitat in the Ainahou area of Koolau Gap. These soil pockets were probably covered with a dense shrubland or tall-statured ohia forest originally.

M:(ns)

Subalpine moist amaumau-ohelo shrubland. Dominated by the endemic fern Sadleria cyatheoides, this rich shrubland is known only from Haleakala. It includes a number of Maui endemic species, and has been recently impacted by heavy pig and goat browsing and rooting. At its upper fringes it blends into a drier alpine pukiawe-ohelo shrubland and includes areas dominated by native and exotic grasses. Erosion is a serious threat to this community, which sometimes occurs on deep, fragile ash soils.

M:(ns),Me

On the east wall of Koolau Gap and in smaller pockets on Hanakauhi mountain, the amaumau-ohelo shrubland includes scattered ohia trees, as indicated in this vegetation code. The slope south of the Ainahou area is exceptional for its peculiar mix of ohia and other native trees in this shrubland.

M:xt,nt(ns-xg-xs)

This is the extensive area converted to exotic conifer plantations downslope from Hosmer Grove. Formerly amaumau-ohelo shrubland and koa-ohia forest, this area is now dominated by conifers with small remnants of native vegetation, especially in gulches. These plantations pose a serious fire hazard to adjoining native vegetation, and host large populations of several noxious weed species. Pigs bed down and feed in these stands also.

D:(mg-ns)So

Remnants of subalpine dry mamane forest, or areas of amaumau-ohelo shrubland with scattered mamane. Extensive mamane forest is best known on the Big Island. It occurs only in small patches on Haleakala's windward slope.

D:(xg)So

This is a small area of exotic grasses with scattered mamane, probably a former mamane/shrubland stand degraded during conifer planting.

D:(mg-ns)

Dry alpine pukiawe-ohelo shrubland, with area of mixed alpine shrubland and Deschampsia-bracken fern grassland in various levels of moisture, soil development, and disturbance by ungulates. Other codes covered by this description include D:(sm,ns); D:(ns,mg).

D:(ns),nt

This is an area of pukiawe-ohelo shrubland with scattered ohia and mamane in a relatively sheltered cliff pocket near Koolau peak. This should probably be mapped as D:(ns),Me-So.

D:xg

This is an area near Waikau in which exotic grasses dominate due to severe goat browsing of native vegetation.

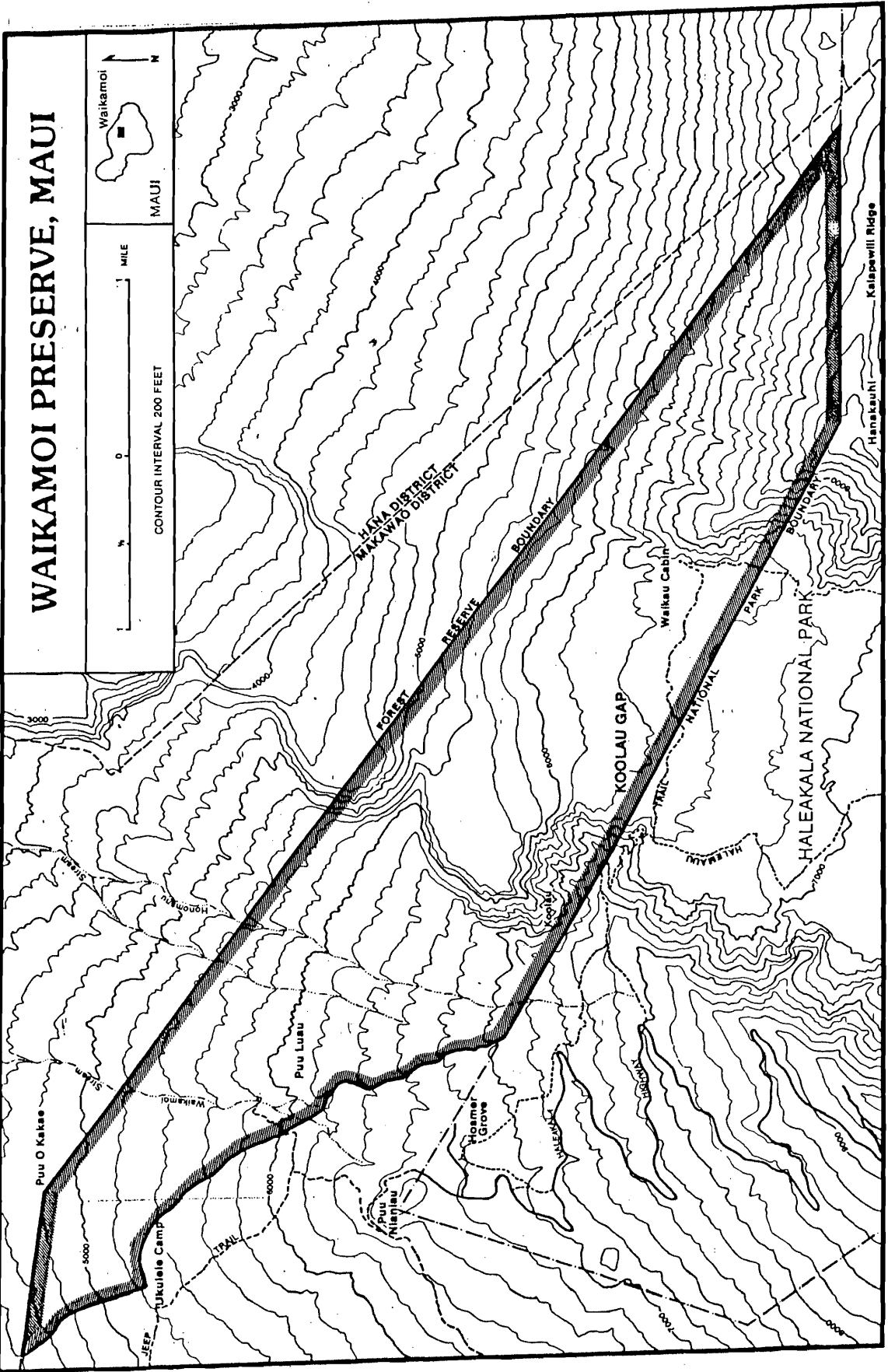
#### Subterranean Communities:

The Koolau Gap region of the Preserve contains several intact lava tube systems. These are long caves running downslope which were formed when molten lava evacuated the interior of the flow. Certain surface insect species have adapted to live in these unique subterranean environments. Their adaptations to the cave environment include loss of sight or, in extreme cases, loss of the eye organs themselves, flightlessness, and shifts in feeding behaviors. The energy cycle of these systems is dependent on tree roots which penetrate the caves, providing food for herbivorous species. For this reason, the health of the caves is dependent on the health of the surface vegetation.

In order to keep these caves safe from vandalism or unintentional harm by amateur cave explorers, the Conservancy does not publicize this feature of the preserve. Much remains to be learned about the distribution and ecology of lava tube communities in Waikamoi.

map A Waikamoi Preserve on the Island of Maui

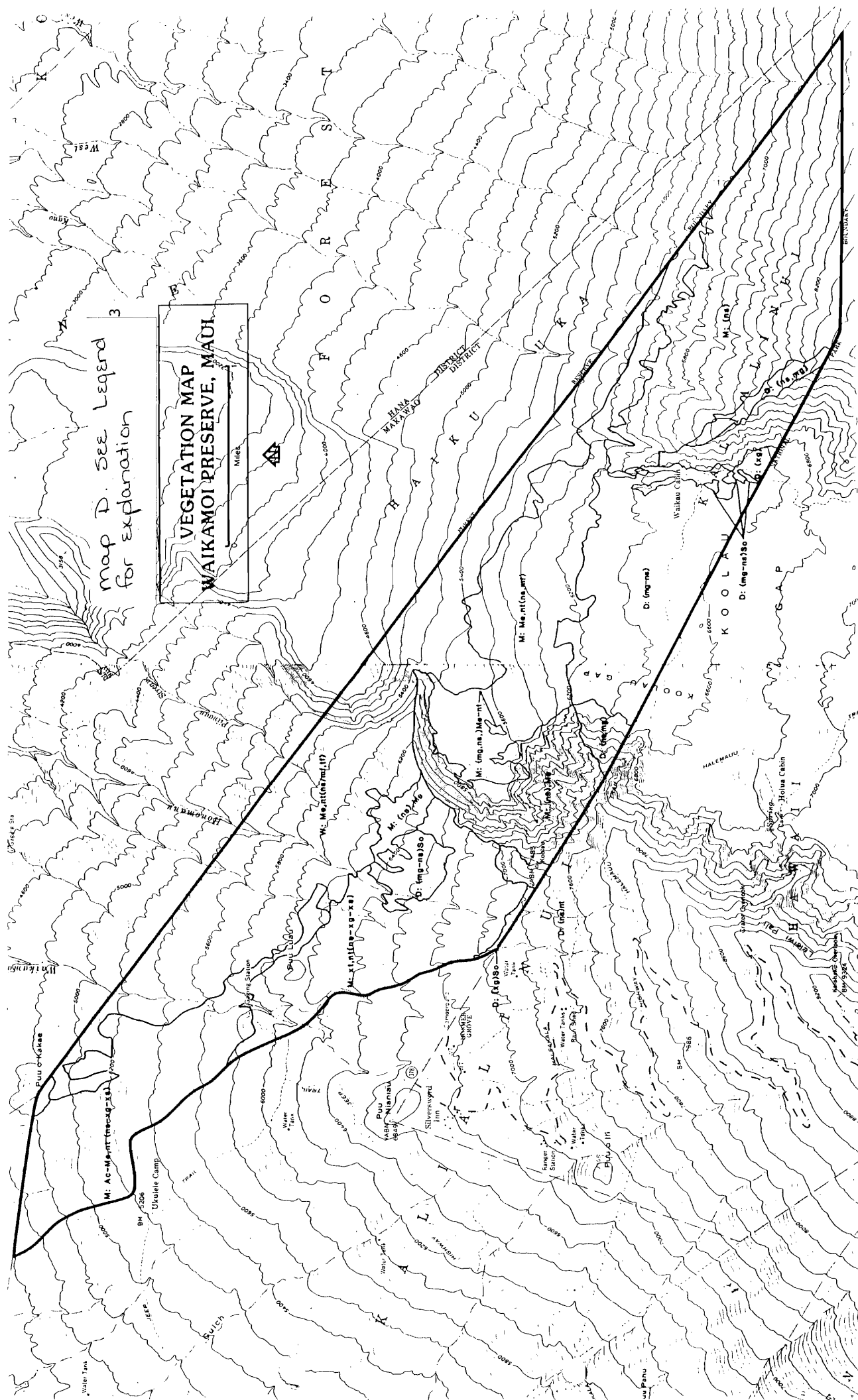




Map B









STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
P. O. BOX 621  
HONOLULU, HAWAII 96809

DEPARTMENT MASTER APPLICATION FORM

FOR DLNR USE ONLY

Reviewed by \_\_\_\_\_  
Date \_\_\_\_\_  
Accepted by \_\_\_\_\_  
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control of property)

Name The Nature Conservancy  
of Hawaii  
Address 1116 Smith St., Suite  
201  
Honolulu, HI 96822

Telephone No. (808) 537-4508

SIGNATURE *W. H. Pelt*

Date 4/30/87

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is landowner)

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Hawaii  
Address 1116 Smith St., Suite 201  
Honolulu, HI 96822

Telephone No. (808) 537-4508

Interest in Property owner

(Indicate interest in property; submit  
written evidence of this interest)

\*SIGNATURE *W. H. Pelt*

Date 4/30/87

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County Maui

Tax Map Key see Attachment A

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(Indicate in acres or  
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DLNR Title 13, Chapter 2, Section 11&13; Subzone P & R
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DLNR Title 13, Chapter 2, Section \_\_\_\_\_; Subzone \_\_\_\_\_.
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Area of Proposed Use 5759 acres  
(Indicate in acres or sq. ft.)

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10.4 mi northeast of Kaunakakai

Boundary Interpretation (If the area is within 40 feet of the boundary of the Conservation District, include map showing interpretation of the boundary by the State Land Use Commission).

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- A. Area Plan: Area plan should include but not be limited to relationship of proposed uses to existing and future uses in abutting parcels; identification of major existing facilities; names and addresses of adjacent property owners.
- B. Site Plan: Site plan (maps) should include, but not be limited to, dimensions and shape of lot; metes and bounds, including easements and their use; existing features, including vegetation, water area, roads, and utilities.
- C. Construction Plan: Construction plans should include, but not be limited to, existing and proposed changes in contours; all buildings and structures with indicated use and critical dimensions (including floor plans); open space and recreation areas; landscaping, including buffers; roadways, including widths; offstreet parking area; existing and proposed drainage; proposed utilities and other improvements; revegetation plans; drainage plans including erosion sedimentation controls; and grading, trenching, filling, dredging or soil disposal.
- D. Maintenance Plans: For all uses involving power transmission, fuel lines, drainage systems, unmanned communication facilities and roadways not maintained by a public agency, plans for maintenance shall be included.
- E. Management Plans: For any appropriate use of animal, plant, or mineral resources, management plans are required.
- F. Historic or Archaeological Site Plan: Where there exists historic or archaeological sites on the State or Federal Register, a plan must be submitted including a survey of the site(s); significant features; protection, salvage, or restoration plans.

- II. Subzone Objective: Demonstrate that the intended use is consistent with the objective of the subject Conservation District Subzone (as stated in Title 13, Chapter 2).

DESCRIPTION OF PARCEL

Pelekunu Preserve, Molokai

General Description

The Nature Conservancy of Hawaii has established a nature preserve in Pelekunu Valley, along the rugged north shore of Moloka'i (Map A-C) through fee acquisition of interests in 5759 acres within the Conservation District.

Pelekunu Valley includes important native forests and one of the state's finest stream ecosystems. Pelekunu is flanked to the east and west by State Natural Area Reserves. The Nature Conservancy's Kamakou Preserve lies to the southwest. The southeast region of the valley's head is bounded by private holdings in Conservation District, and by State-owned Wailau Valley, also in Conservation District.

A. Existing Structures/Uses

The U.S. Geological Survey maintains a cabin and stream gaging system in the valley. No other structures exist on the subject parcel. The valley is used by occasional hunters, hikers and fishermen.

B. Existing Utilities

There are no existing utilities.

C. Existing Access

Access is limited to boat, hiking, or helicopter.

D. Vegetation

The native vegetation of Pelekunu Valley is among the most important in the State. Coastal plant communities are in very good shape relative to most windward Hawaiian coasts, and include several rare endemic plant species such as Brighamia. The majority of the valley floor and accessible ridges above the coastal strand have been greatly altered by early Polynesian cultivation. Native vegetation is present in these areas as remnants, and these include several important species. In the innermost parts of the valley, significant areas of intact native lowland rainforest and moist forest remain, composed in places of an unusual mix of native trees--especially Bobea and Eugenia--unlike any other wet lowland forest outside of Molokai. These areas are all poorly explored.



Other significance:

Pelekunu Stream is recognized as being one of the few remaining large, pristine stream ecosystems in the Hawaiian Archipelago. As such, it is a critically important reservoir of indigenous stream fauna. Although no detailed survey of the stream has been conducted, several native fauna are known to occur here. Five species of native stream fishes, 2 species of native shrimp, 2 species of native molluscs, and numerous species of native microscopic crustaceans have been found in the stream.

Pelekunu Valley also commands access to the pristine Olokui Natural Area Reserve to the east. Kolo Ridge, within the preserve, is one of the very few potential routes by which feral ungulates could invade Olokui.

E. Topography

See Map B.

F. Shoreline

The east-west aligned shoreline includes the bays and other coastline east from Kaholaiki Bay, west to Wainena (see Map B).

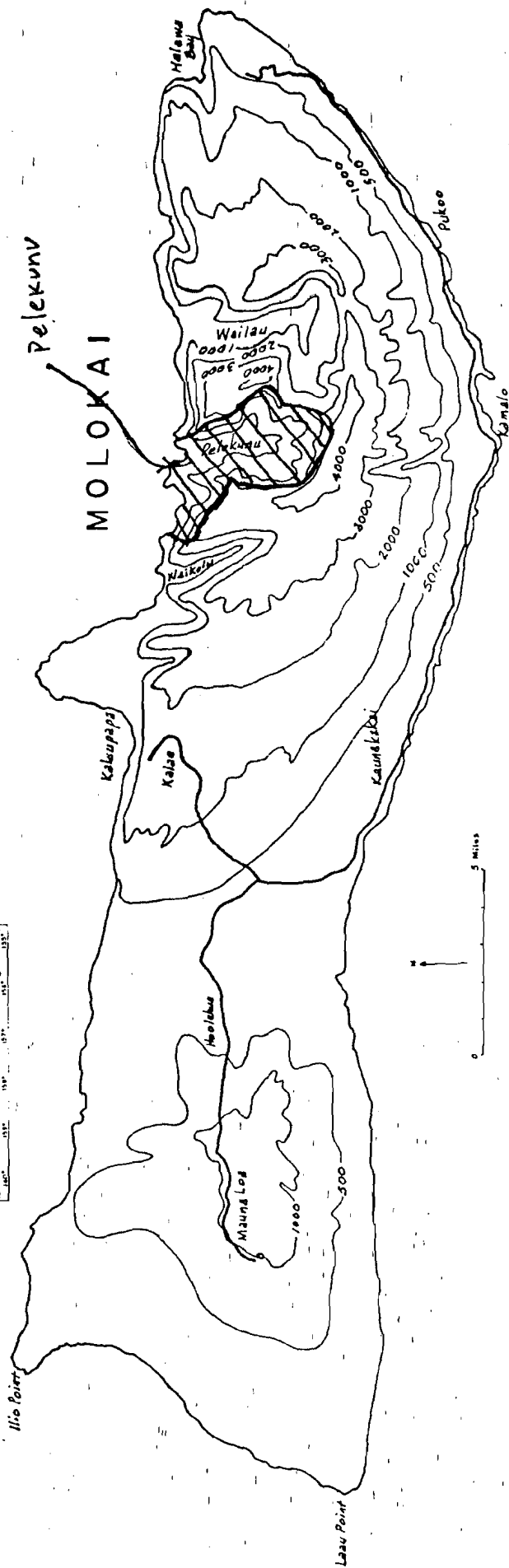
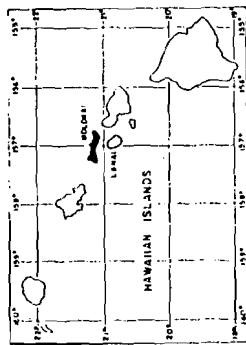
G. Existing Covenants, Easements and Restrictions

Molokai Ranch, Limited, retains rights to a portion of any net proceeds from any condemnation of water by government authority. No other special covenants, easements or restrictions exist.

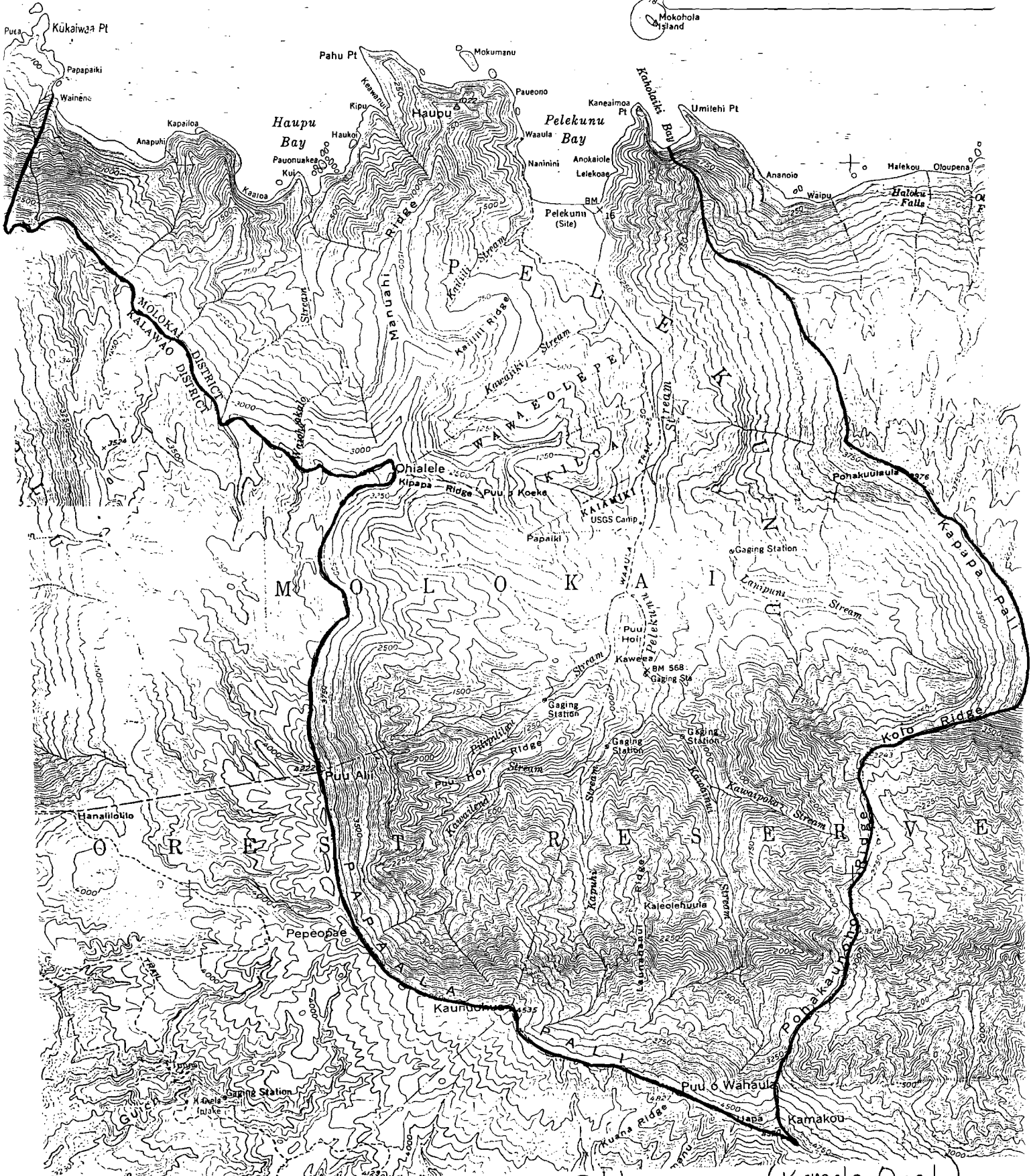
H. Historic Sites Affected

There are several known historic sites within the Conservation District. These sites are largely agricultural, with a few habitation sites. None of these sites is currently listed on State or National Registers of Historic Sites.

Map A. Pelekunu Location.



map B. PRESERVE  
boundaries.



Pelekuni

(Kamalo Quad.)

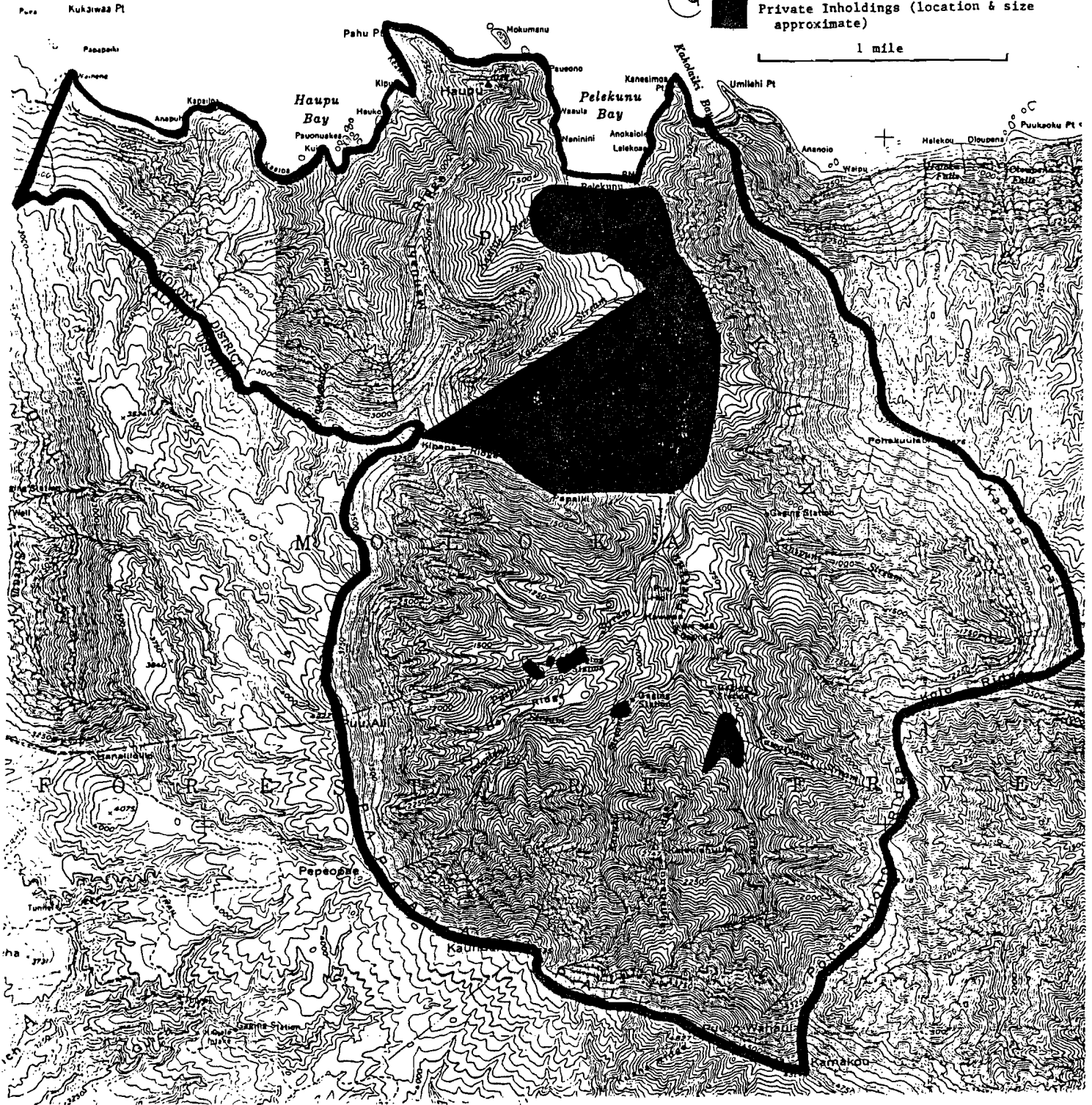


map C

Preserve Boundary

Private Inholdings (location & size approximate)

1 mile



True North  
1"=500'

Pelekunu, Molokai  
TmK 5-9

True North  
1"=500'

3

S E A

5  
7  
A

Науру  $\Delta$

Wanda  
Landing

11

МОКОНОВ

INSERT-A

05

L.C. Awards in Wailou

See attached  
list of TMK's.

~~МОЗКА~~

(F.R. 4512 AC.)

(F.R. 8540 AC)

(F.R. 7190 Ac.)

06

SEC 5

KAPUALEI  
KUMU

X A  
X U M U  
W A W T I A  
S

EAST OHIO

3  
A  
N  
C

КАНА

ALAPUE

KALUAAHA

MAPULEHU

HONORUM

КАКАИКАП!

6. UNICHU

Source: Survey kept      appn by: Ted. Mast Brown

2 801

PELEKUNU, WAILAU, HALAWA, MOLOKAI.

Attachment --

Pelekunu Tax Map Keys

The following is a list of TMK's for lands owned by The Nature Conservancy at Pelekunu.

5-4-3-26 (portion within Pelekunu only)

5-9-6-11

5-9-7-1

5-9-7-4

5-9-7-11

5-9-7-14

5-9-7-16

5-9-7-17

5-9-7-21

5-9-7-24

5-9-7-30

5-9-7-31

5-9-7-32

5-9-7-33

5-9-8-5

5-8-8-6

5-9-8-7

5-9-8-10

5-9-8-12

STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
P. O. BOX 621  
HONOLULU, HAWAII 96809

DEPARTMENT MASTER APPLICATION FORM

FOR DLNR USE ONLY

Reviewed by \_\_\_\_\_  
Date \_\_\_\_\_  
Accepted by \_\_\_\_\_  
Date \_\_\_\_\_  
Docket/File No. \_\_\_\_\_  
180-Day Exp. \_\_\_\_\_  
EIS Required \_\_\_\_\_  
PH Required \_\_\_\_\_  
Board Approved \_\_\_\_\_  
Disapproved \_\_\_\_\_  
Well No. \_\_\_\_\_

(Print or Type)

I. LANDOWNER/WATER SOURCE OWNER  
(If State land, to be filled  
in by Government Agency in  
control of property)

Name Grove Farm Co. Inc.

Address Puhi Rural Station

Lihue, Hawaii 96766

Telephone No. (808) 245-3678

SIGNATURE Dana W. Pans

Date 5/1/87

II. APPLICANT (Water Use, omit if applicant  
is landowner)

Name The Nature Conservancy of HI

Address 1116 Smith Street, Rm 201

Honolulu, Hawaii 96817

Telephone No. (808) 537-4508

Interest in Property Management Lease

(Indicate interest in property; submit  
written evidence of this interest)

\*SIGNATURE Nelson H. Inaba

Date 4/30/87

\*If for a Corporation, Partnership,  
Agency or Organization, must be signed  
by an authorized officer.

III. TYPE OF PERMIT(S) APPLYING FOR

( ) A. State Lands

(x) B. Conservation District Use

( ) C. Withdraw Water From A Ground  
Water Control Area

( ) D. Supply Water From A Ground  
Water Control Area

( ) E. Well Drilling/Modification

IV. WELL OR LAND PARCEL LOCATION REQUESTED

District Koloa

Island Kauai

County Kauai

Tax Map Key 2-9-02; 2-9-03

Area of Parcel 218 acres  
(Indicate in acres or  
sq. ft.)

Term (if lease) year to year (1 ter

V. Environmental Requirements - Please see ~~Exhibit B~~ attached

Pursuant to Chapter 343, Hawaii Revised Statutes, and in accordance with Section 1:30B of the EIS Regulations for applicant actions, an Environmental Assessment of the proposed use must be attached. The Environmental Assessment shall include, but not be limited to the following:

- A. Identification of application;
- B. Description of proposed use and statement of objectives;
- C. Description of affected environment, including appropriate maps and plans to show location, topography, site improvements, existing utilities and vegetation and archaeological/historical sites, if any. (See page 5, section I).
- D. General description of the technical, economic, social and environmental characteristics of the proposed use.

NOTE: The Environmental Assessment may be substituted in lieu of the information required above.



## INFORMATION REQUIRED FOR ALL USES

### I. Description of Parcel - Please see Attachment #2-A

- A. Existing structures/Use. (Attach description or map).
- B. Existing utilities. (If available, indicate size and location on map. Include electricity, water, telephone, drainage, and sewerage).
- C. Existing access. (Provide map showing roadways, trails, if any. Give street name. Indicate width, type of paving and ownership).
- D. Vegetation. (Describe or provide map showing location and types of vegetation. Indicate if rare native plants are present).
- E. Topography; if ocean area, give depths. (Submit contour maps for ocean areas and areas where slopes are 40% or more. Contour maps will also be required for uses involving tall structures, gravity flow and other special cases).
- F. If shoreline area, describe shoreline. (Indicate if shoreline is sandy, muddy, rocky, etc. Indicate cliffs, reefs, or other features such as access to shoreline).
- G. Existing covenants, easements, restrictions. (If State lands, indicate present encumbrances).
- H. Historic sites affected. (If applicable, attach map and descriptions).

### II. Description: Describe the activity proposed, its purpose and all operations to be conducted. (Use additional sheets as necessary). - Please see Attachment #3

III. Commencement Date: January 1, 1987

Completion Date: ongoing

### IV. TYPE OF USE REQUESTED (Mark where appropriate)

- 1. Permitted Use (exception occasional use);  
DLNR Title 13, Chapter 2, Section 11&12; Subzone P & T
- 2. Accessory Use (accessory to a permitted use);  
DLNR Title 13, Chapter 2, Section       ; Subzone       .
- 3. Occasional Use: Subzone       .
- 4. Temporary Variance: Subzone       .
- 5. Conditional Use: Subzone       .

Area of Proposed Use 218 acres  
(Indicate in acres or sq. ft.)

Name & Distance of Nearest Town or Landmark  
2.7 miles northeast of Koloa

Boundary Interpretation (If the area is within 40 feet of the boundary of the Conservation District, include map showing interpretation of the boundary by the State Land Use Commission).

Conservation District Subzone P & L  
County General Plan Designation Conservation

V. FILING FEE

1. Enclose \$50.00. All fees shall be in the form of cash, certified or cashier's check, and payable to the State of Hawaii.
2. If use is commercial, as defined, submit additional public hearing fee of \$50.00.

INFORMATION REQUIRED FOR CONDITIONAL USE ONLY N/A

I. Plans: (All plans should include north arrow and graphic scale).

- A. Area Plan: Area plan should include but not be limited to relationship of proposed uses to existing and future uses in abutting parcels; identification of major existing facilities; names and addresses of adjacent property owners.
- B. Site Plan: Site plan (maps) should include, but not be limited to, dimensions and shape of lot; metes and bounds, including easements and their use; existing features, including vegetation, water area, roads, and utilities.
- C. Construction Plan: Construction plans should include, but not be limited to, existing and proposed changes in contours; all buildings and structures with indicated use and critical dimensions (including floor plans); open space and recreation areas; landscaping, including buffers; roadways, including widths; offstreet parking area; existing and proposed drainage; proposed utilities and other improvements; revegetation plans; drainage plans including erosion sedimentation controls; and grading, trenching, filling, dredging or soil disposal.
- D. Maintenance Plans: For all uses involving power transmission, fuel lines, drainage systems, unmanned communication facilities and roadways not maintained by a public agency, plans for maintenance shall be included.
- E. Management Plans: For any appropriate use of animal, plant, or mineral resources, management plans are required.
- F. Historic or Archaeological Site Plan: Where there exists historic or archaeological sites on the State or Federal Register, a plan must be submitted including a survey of the site(s); significant features; protection, salvage, or restoration plans.

II. Subzone Objective: Demonstrate that the intended use is consistent with the objective of the subject Conservation District Subzone (as stated in Title 13, Chapter 2).

Attachment #2-A

DESCRIPTION OF PARCEL

Kaluahonu Preserve, Kauai

General Description

Kaluahonu Preserve is located on the Island of Kauai, Koloa District, and straddles tax map keys 2-9-02 and 2-9-03 (see Maps A and B). The 218-acre preserve is located on the south slope of Kauai's Hoary Head mountains in and east of the valley of KaluahoBnu between 600 and 1,500 feet elevation (Map C). The preserve was established by a year-to-year lease to the Conservancy by the landowner, Grove Farm Company.

Land in the small hollow of Kaluahonu at the southwestern foot of the preserve has been leased to Kauai Farms, Inc. by Grove Farm Company. An avocado plantation is being established at present. There are no other actively managed lands immediately adjacent to the preserve except for McBryde Sugar Company's field in Kaluahonu Valley.

Cattle are pastured below the preserve to the southeast by Poipu Ranch Co., Ltd. While these pastures are not fenced at their forest boundary, the steepness of the terrain and dense vegetation appear to prohibit cattle access to the preserve itself.

The preserve and surrounding forested slopes are within the state conservation lands (Map D), in subzones P (Protected) and L (Limited).

A. Existing Structures/Use

There are no existing structures. Portions of the site are used occasionally by pig hunters, and a few rugged trails are present.

B. Existing Utilities

There are no existing utilities.

C. Existing Access

The preserve is accessible at its southwest boundary by jeep along established McBryde Sugar Co. cane field roads (Map B). There are no gates on these roads at present. Access from the southeast is fenced by Poipu Ranch. A trail network in the west part of the preserve established by biologists from 1978-1980 for 'a'o research is now largely overgrown.

#### D. Vegetation

The entire preserve is steep and densely vegetated in wet ohia-uluhe forest, with a mixture of native and exotic plant species. The dominant species is uluhe (Dicranopteris linearis), a native fern which grows in dense mats. On the average, the preserve receives about 75 inches of rain annually. The preserve may include other important plant and animal species. Several rare plant species have been collected near the preserve. Comprehensive vegetation maps and inventory records do not exist at present.

#### Other Significance:

The 'a'o or Newell's Manx Shearwater (Puffinus puffinus newelli) is a threatened pelagic seabird known only from the Hawaiian region of the Pacific. Though once common on all the major Hawaiian islands, the 'a'o was thought to be very near extinction until, in 1967, biologists rediscovered the first nesting colony since the turn of the century in the Anahola mountains of Kauai. Since then, several other colonies have been located on Kauai. The Nature Conservancy's Kaluahonu Preserve, near Koloa in the Hoary Head range, protects the largest known privately-owned 'a'o nesting colony.

Kaluahonu Preserve is part of a multi-agency and multi-faceted effort on Kauai to save the 'a'o. Research and recovery efforts have been underway since the 1960's under the auspices of State Division of Forestry and Wildlife (DOFAW) and U.S. Fish and Wildlife Service (USFWS) biologists with help from a number of volunteers.

After feeding at sea through the winter months the 'a'o return to their nesting areas in April. It is speculated that they return to the same area and prefer the same mate each year. Two or three hundred 'a'o are thought to nest at Kaluahonu, based on calling activity. The 'a'o nest under the dense thickets of uluhe fern (Dicranopteris linearis) which blanket the steep slopes, excavating elaborate burrows several feet long. A pair will lay one egg each year which hatches in late-July. The adults leave the nesting site by mid-September to October and November and are believed to spend their first three to five years at sea before returning to Kauai. During the nesting season, the adult 'a'o will leave the burrow before dawn to feed at sea for one to five days, returning to the nest after sunset. Major threats to the 'a'o on the preserve are predators (cats, dogs, rats) and loss of habitat by fire. Human access to the preserve is strictly regulated during nesting and fledging season to avoid disturbance to the birds.

#### E. Topography

F.    See Map B.  
      Shoreline

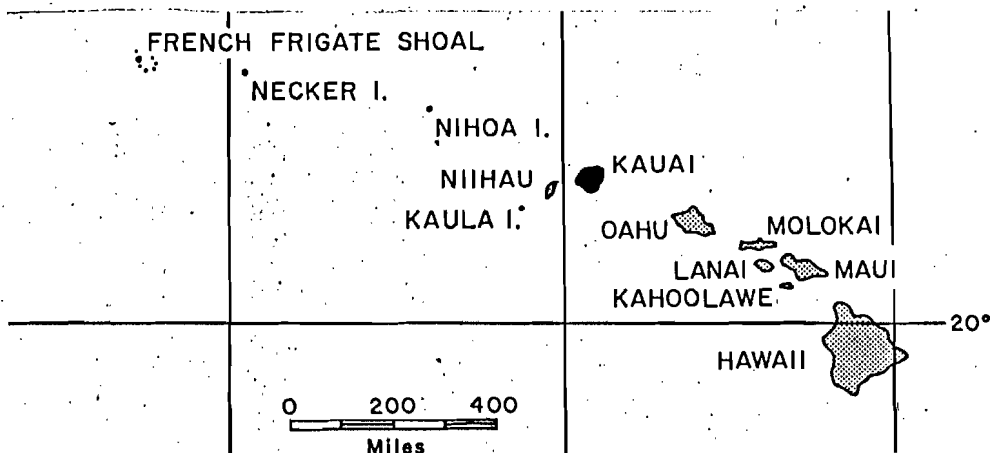
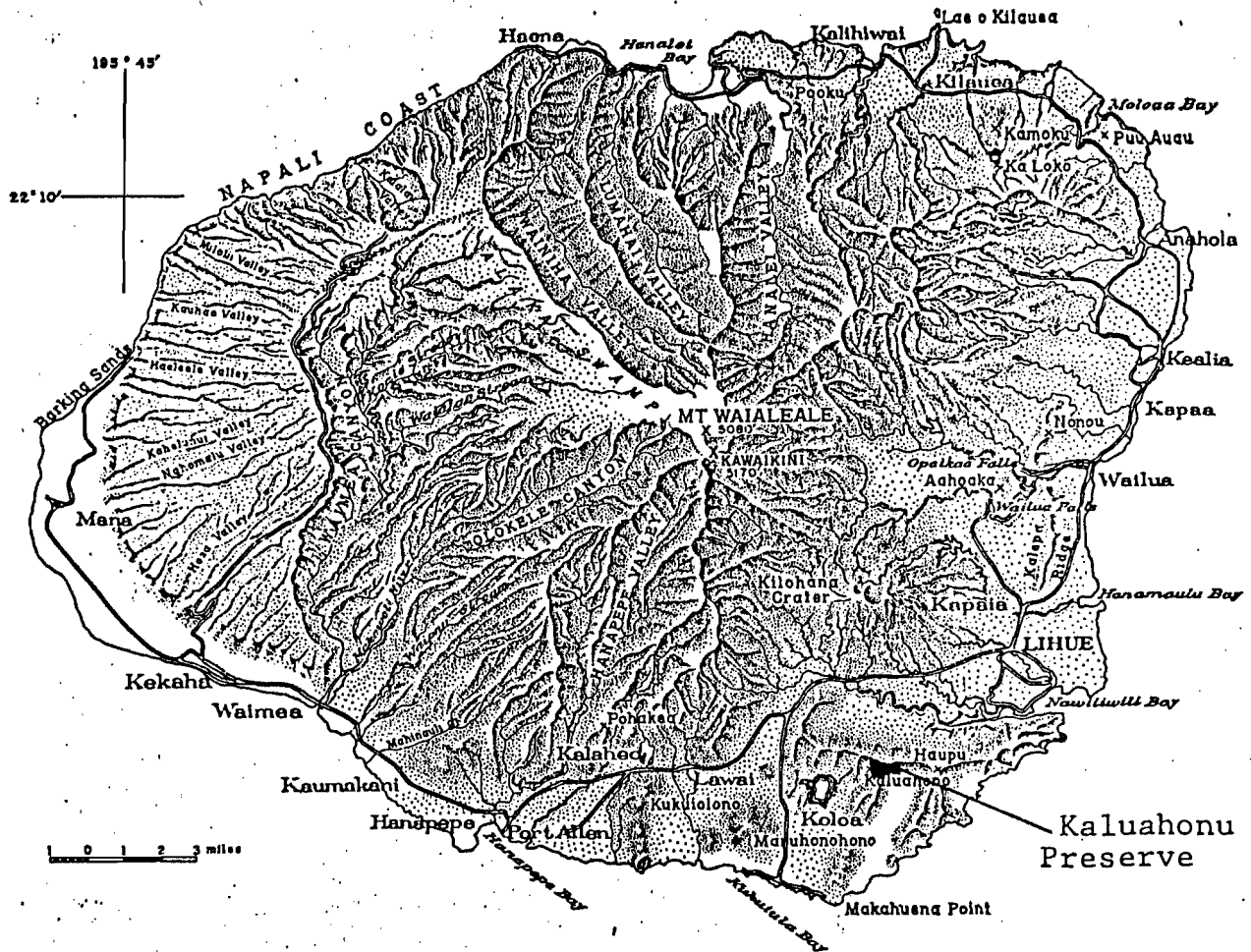
There is no shoreline with the preserve.

G.    Covenants, Easements and Restrictions

Preserve management activities are permitted under a management lease granted by Grove Farm Company, Inc., which owns the land in fee simple with no other burdens. It is located within the State Forest Reserve System and conservation subzones P and L.

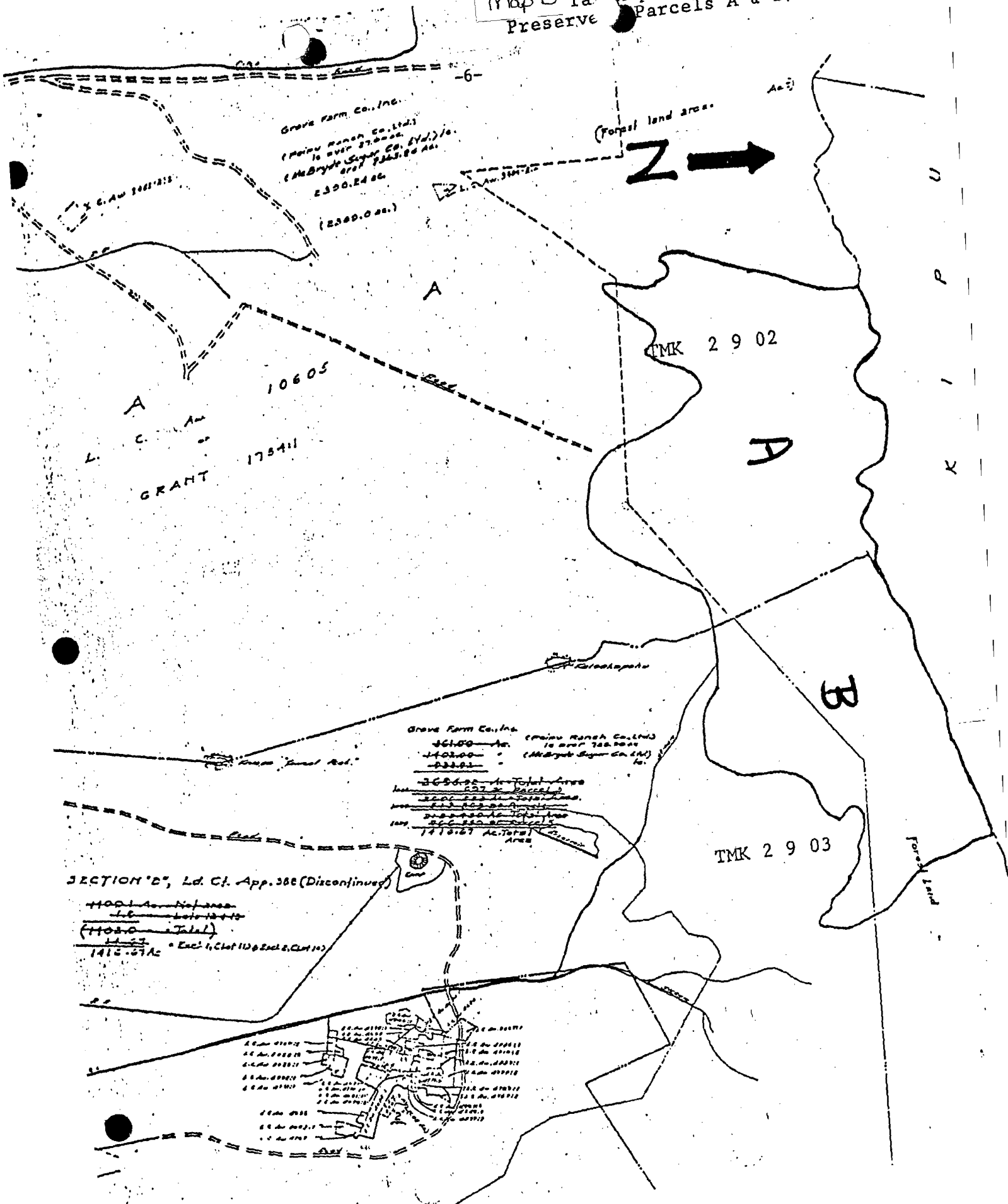
H.    Historic Sites

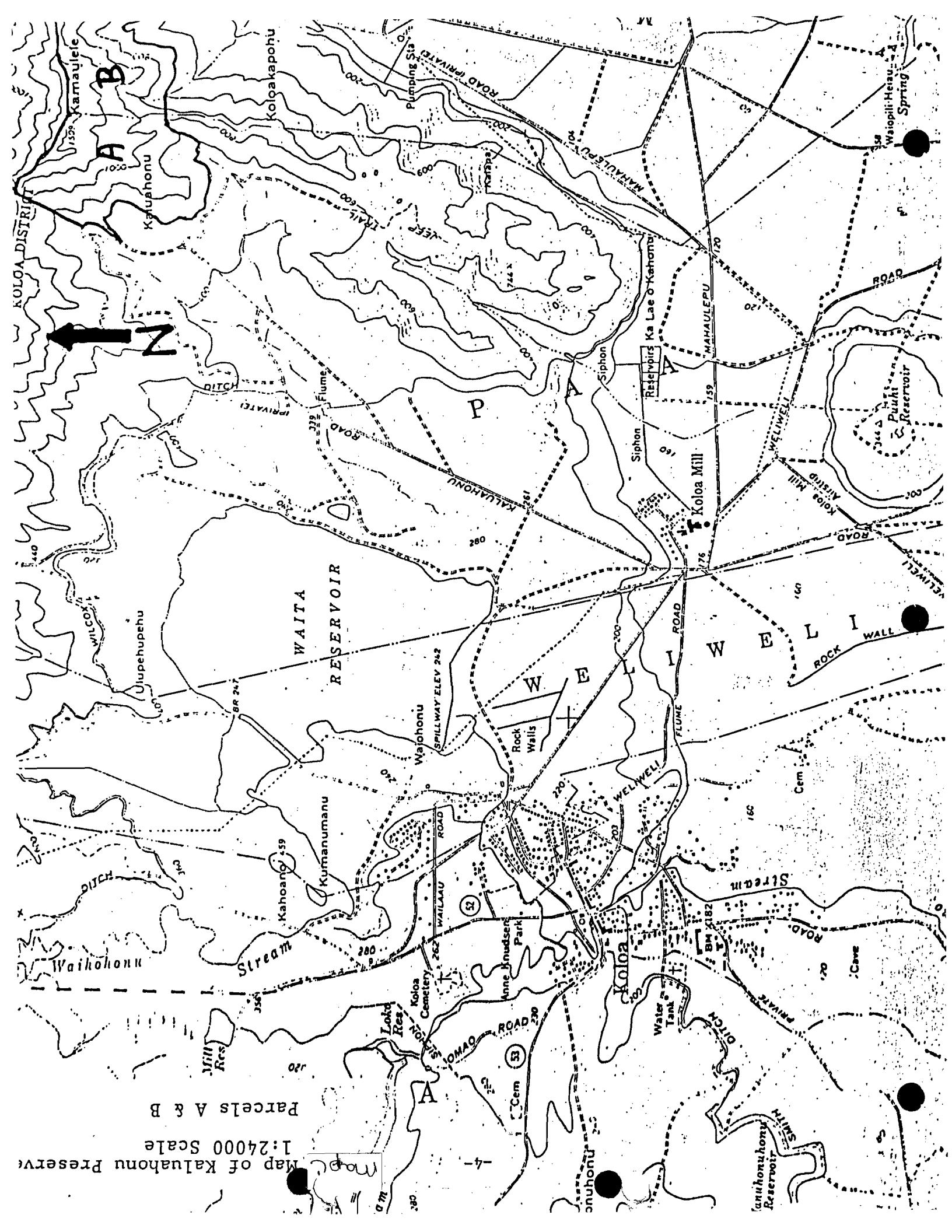
There are no historic sites in the area.



map A Kaluahonu Preserve Located on the Island of Kauai

# Map B Tax Map Showing Kailuanona Preserve Parcels A & B





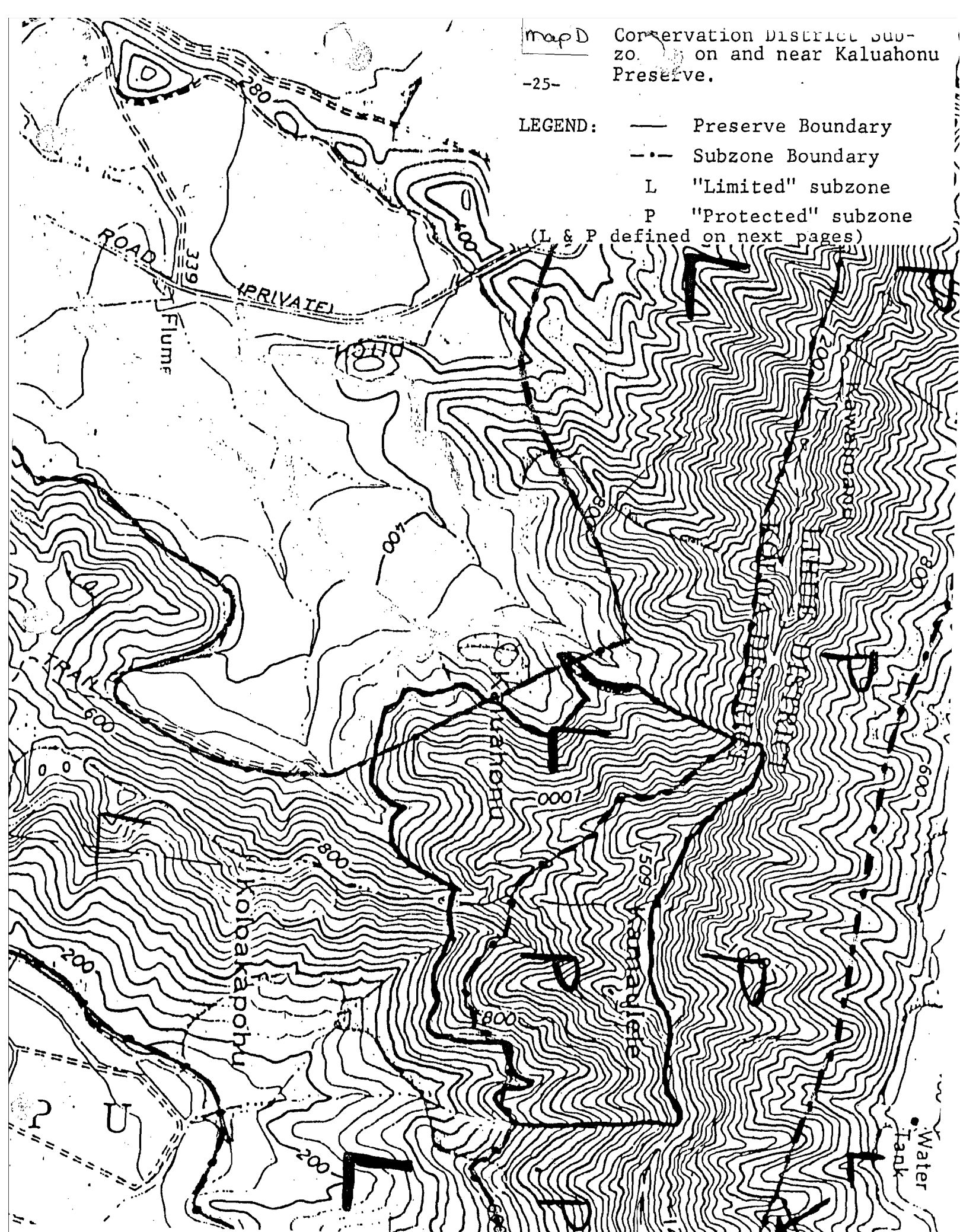


map D

Conservation District Sub-  
zone on and near Kaluahonu  
Preserve.

-25-

LEGEND: — Preserve Boundary  
- - - Subzone Boundary  
L "Limited" subzone  
P "Protected" subzone  
(L & P defined on next pages)



TMK 2-9

8

L

F

W

KOLOA MILL

P

A

A

PIPE LINE

RESERVOIR

L. C. Arr. 10605  
or  
GRANT 1754:1

02

2-9-02-1  
(portion)

2-9-03-1  
(portion)

MAHAULEPU DRAIN

03

⑤ PETROGLYPHS  
FIELD 17

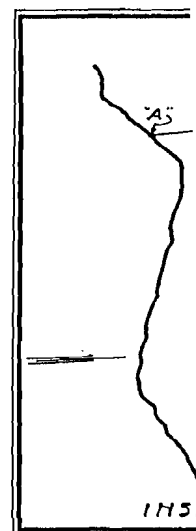
M A H / A U L E P U

QUARRY SITE

SEE INSET

L I H U  
ZONE

*SUBJECT TO CHANGE*



STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
P. O. BOX 621  
HONOLULU, HAWAII 96809

DEPARTMENT MASTER APPLICATION FORM

FOR DLNR USE ONLY

Reviewed by \_\_\_\_\_  
Date \_\_\_\_\_  
Accepted by \_\_\_\_\_  
Date \_\_\_\_\_  
Docket/File No. \_\_\_\_\_  
180-Day Exp. \_\_\_\_\_  
EIS Required \_\_\_\_\_  
PH Required \_\_\_\_\_  
Board Approved \_\_\_\_\_  
Disapproved \_\_\_\_\_  
Well No. \_\_\_\_\_

(Print or Type)

I. LANDOWNER/WATER SOURCE OWNER  
(If State land, to be filled  
in by Government Agency in  
control of property)

Name Molokai Ranch, Ltd.

Address 810 Richards St.

Suite 755

Honolulu, HI 96813

Telephone No. (808) 531-0158

SIGNATURE R. Amore

Date May 5, 1987

II. APPLICANT (Water Use, omit if applicant  
is landowner)

Name The Nature Conservancy of HI

Address 1116 Smith Street, Rm 201

Honolulu, Hawaii 96817

Telephone No. (808) 537-4508

Interest in Property Perpetual

conservation easement  
(Indicate interest in property; submit  
written evidence of this interest)

\*SIGNATURE William H. White

Date 4/30/87

\*If for a Corporation, Partnership,  
Agency or Organization, must be signed  
by an authorized officer.

III. TYPE OF PERMIT(S) APPLYING FOR

( ) A. State Lands

(x) B. Conservation District Use

( ) C. Withdraw Water From A Ground  
Water Control Area

( ) D. Supply Water From A Ground  
Water Control Area

( ) E. Well Drilling/Modification

IV. WELL OR LAND PARCEL LOCATION REQUESTED

District Molokai

Island Molokai

County Maui

Tax Map Key 5-4-03

Area of Parcel 2,7773.74 acres  
(Indicate in acres or  
sq. ft.)

Term (if lease) \_\_\_\_\_

V. Environmental Requirements - Please see Attachment #1

Pursuant to Chapter 343, Hawaii Revised Statutes, and in accordance with Section 1:30B of the EIS Regulations for applicant actions, an Environmental Assessment of the proposed use must be attached. The Environmental Assessment shall include, but not be limited to the following:

- A. Identification of application;
- B. Description of proposed use and statement of objectives;
- C. Description of affected environment, including appropriate maps and plans to show location, topography, site improvements, existing utilities and vegetation and archaeological/historical sites, if any. (See page 5, section I).
- D. General description of the technical, economic, social and environmental characteristics of the proposed use.

NOTE: The Environmental Assessment may be substituted in lieu of the information required above.

## INFORMATION REQUIRED FOR ALL USES

### I. Description of Parcel -Please see Attachment #2B

- A. Existing structures/Use. (Attach description or map).
- B. Existing utilities. (If available, indicate size and location on map. Include electricity, water, telephone, drainage, and sewerage).
- C. Existing access. (Provide map showing roadways, trails, if any. Give street name. Indicate width, type of paving and ownership).
- D. Vegetation. (Describe or provide map showing location and types of vegetation. Indicate if rare native plants are present).
- E. Topography; if ocean area, give depths. (Submit contour maps for ocean areas and areas where slopes are 40% or more. Contour maps will also be required for uses involving tall structures, gravity flow and other special cases).
- F. If shoreline area, describe shoreline. (Indicate if shoreline is sandy, muddy, rocky, etc. Indicate cliffs, reefs, or other features such as access to shoreline).
- G. Existing covenants, easements, restrictions. (If State lands, indicate present encumbrances).
- H. Historic sites affected. (If applicable, attach map and descriptions).

### II. Description: Describe the activity proposed, its purpose and all operations to be conducted. (Use additional sheets as necessary).-Please see Attachment #3

III. Commencement Date: January 1, 1987

Completion Date: ongoing

### IV. TYPE OF USE REQUESTED (Mark where appropriate)

- 1. Permitted Use (exception occasional use);  
DLNR Title 13, Chapter 2, Section 11&13; Subzone P & R
- 2. Accessory Use (accessory to a permitted use):  
DLNR Title 13, Chapter 2, Section 1; Subzone       .
- 3. Occasional Use: Subzone       .
- 4. Temporary Variance: Subzone       .
- 5. Conditional Use: Subzone       .

Area of Proposed Use 2,773.74 acres  
(Indicate in acres or sq. ft.)

Name & Distance of Nearest Town or Landmark  
1.9 miles west of Kamakou Peak

Boundary Interpretation (If the area is within 40 feet of the boundary of the Conservation District, include map showing interpretation of the boundary by the State Land Use Commission).

Conservation District Subzone P & R  
County General Plan Designation Conservation

V. FILING FEE

1. Enclose \$50.00. All fees shall be in the form of cash, certified or cashier's check, and payable to the State of Hawaii.
2. If use is commercial, as defined, submit additional public hearing fee of \$50.00.

INFORMATION REQUIRED FOR CONDITIONAL USE ONLY N/A

I. Plans: (All plans should include north arrow and graphic scale).

- A. Area Plan: Area plan should include but not be limited to relationship of proposed uses to existing and future uses in abutting parcels; identification of major existing facilities; names and addresses of adjacent property owners.
- B. Site Plan: Site plan (maps) should include, but not be limited to, dimensions and shape of lot; metes and bounds, including easements and their use; existing features, including vegetation, water area, roads, and utilities.
- C. Construction Plan: Construction plans should include, but not be limited to, existing and proposed changes in contours; all buildings and structures with indicated use and critical dimensions (including floor plans); open space and recreation areas; landscaping, including buffers; roadways, including widths; offstreet parking area; existing and proposed drainage; proposed utilities and other improvements; revegetation plans; drainage plans including erosion sedimentation controls; and grading, trenching, filling, dredging or soil disposal.
- D. Maintenance Plans: For all uses involving power transmission, fuel lines, drainage systems, unmanned communication facilities and roadways not maintained by a public agency, plans for maintenance shall be included.
- E. Management Plans: For any appropriate use of animal, plant, or mineral resources, management plans are required.
- F. Historic or Archaeological Site Plan: Where there exists historic or archaeological sites on the State or Federal Register, a plan must be submitted including a survey of the site(s); significant features; protection, salvage, or restoration plans.

II. Subzone Objective: Demonstrate that the intended use is consistent with the objective of the subject Conservation District Subzone (as stated in Title 13, Chapter 2).

Attachment #2-B

DESCRIPTION OF PARCEL

Kamakou Preserve, Molokai

General Description

The Kamakou Preserve comprises 2,773.74 acres in two parcels identified on tax map 5-4-03 at Kapaakea-Kawela on the island of Molokai (Map A and B). Both parcels are owned by Molokai Ranch, Limited. The preserve has been established through the grant of a perpetual conservation easement by the ranch to the Conservancy.

Kamakou Preserve is within a State Conservation District. Subzoning within the Preserve is shown in Map C. The preserve consists of native rain forest, bogs, and shrublands, with several hundred acres also converted in the past to planted pine or Eucalyptus stands.

Surrounding lands are all zoned conservation and included in the forest reserve. Lands to the north are part of Puu Alii Natural Area Reserve.

The Conservancy may endeavor to expand the present preserve to include lands to the east in Kamalo and to the south in Kawela in order to protect additional rain forest and shrublands.

A. Existing Structures/Use

There is a small cabin at Puu Kolekole in the southwest corner of the Preserve (see Map B). Also, a wooden boardwalk crosses Pepeopae Bog, and fences protect another bog, two experimental exclosures, and one summit rain forest area. Molokai Ranch maintains a water intake system and pipeline from Kawela stream and through the preserve, and the State Division of Forestry and Wildlife maintains a system of jeep roads. The preserve area is used by local pig and goat hunters, hikers, and scientists.

B. Existing Utilities

There are no existing utilities.

C. Existing Access

Vehicular access to the preserve is obtained via an unpaved road leading into the northwest corner of the preserve (see Map B). A network of jeep trails in various conditions is shown in Map B. All other access is by foot or helicopter.

#### D. Vegetation

The preserve encompasses a native ecosystem dominated by ohia (Metrosideros). The native plants and animals occur in a wide range of environments within the preserve. The following habitats are well represented (Map D):

1. Wet forest, dominated by tall ohia trees, near the cloudswept mountain summit.
2. Bogs with dwarf ohia on moss hummocks, within the wet forest region.
3. Mesic (moist) forest, to leeward, where deeper, drier soils host many fern, shrub and tree species not found in the wet forest.
4. Dry scrubland, on ridges in the mesic zone, composed of shrubs of ohia, aalii, pukiaawe and a number of rarer species.

#### Other Significance:

The preserve is also habitat to 5 native forest birds and a large but undetermined number of native invertebrates. Streams draining the preserve provide a major part of the fresh water used for irrigation on Molokai.

#### E. Topography

See Map B.

#### F. Shoreline

There is no shoreline within the preserve.

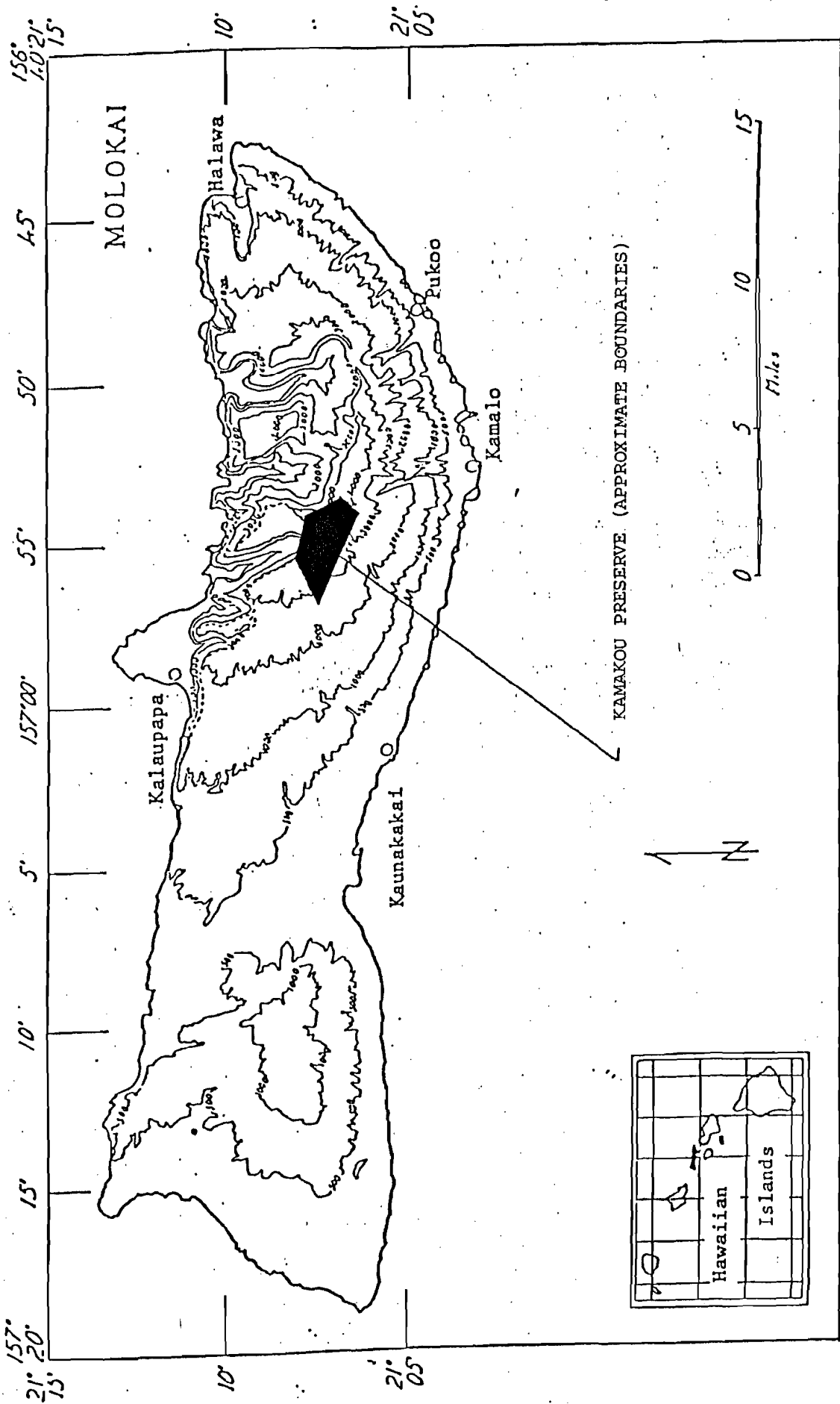
#### G. Existing Covenants, Easements and Restrictions

The Kamakou Preserve is owned by Molokai Ranch, Ltd., who has conveyed a perpetual conservation easement over this property to the Nature Conservancy of Hawaii for the maintenance of the nature preserve. The preserve area is also subject to a surrender agreement involving the Ranch, the Conservancy, and the State Division of Forestry and Wildlife. The Ranch also retains the rights to maintain and develop surface water resources in the preserve area.

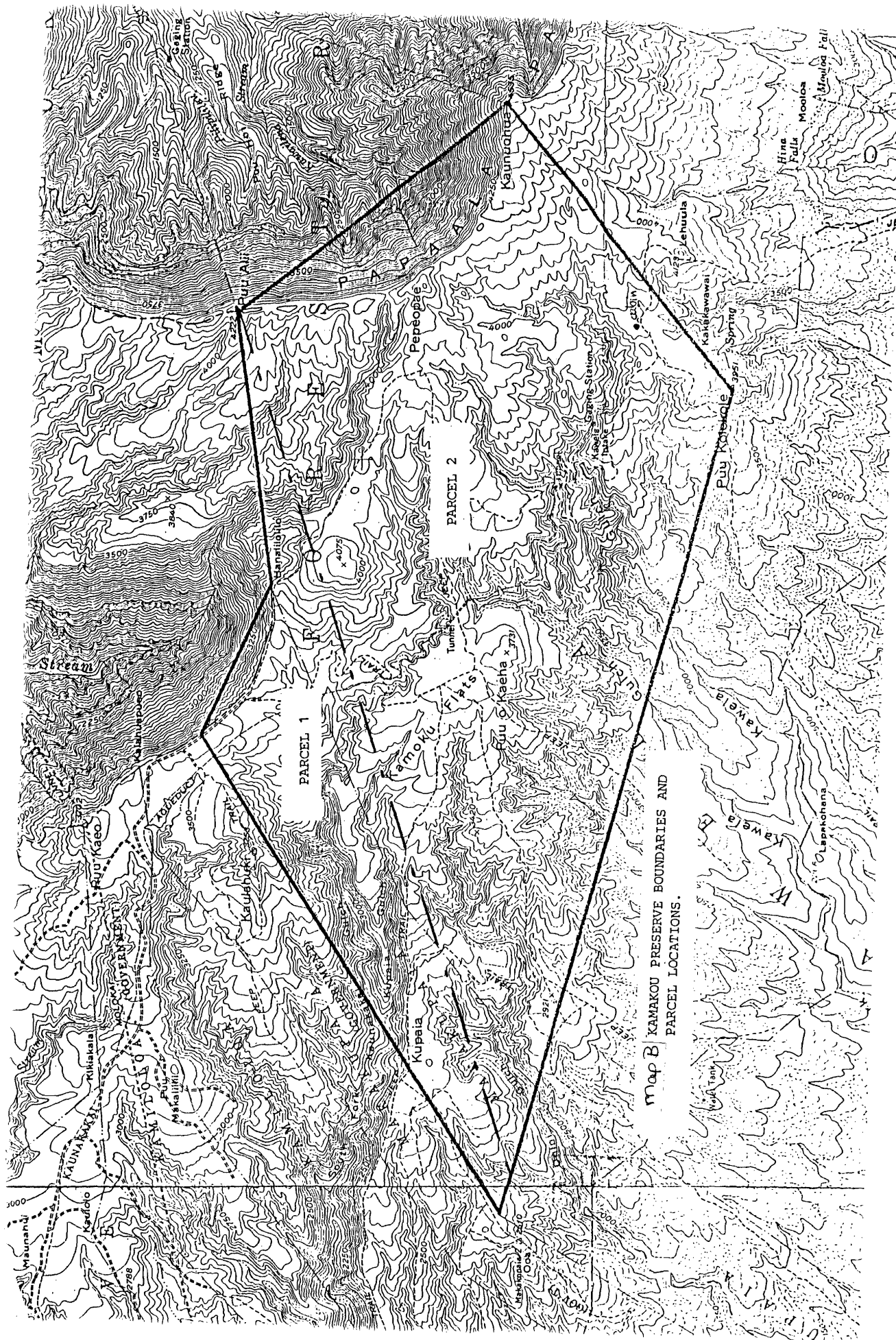
#### H. Historic sites

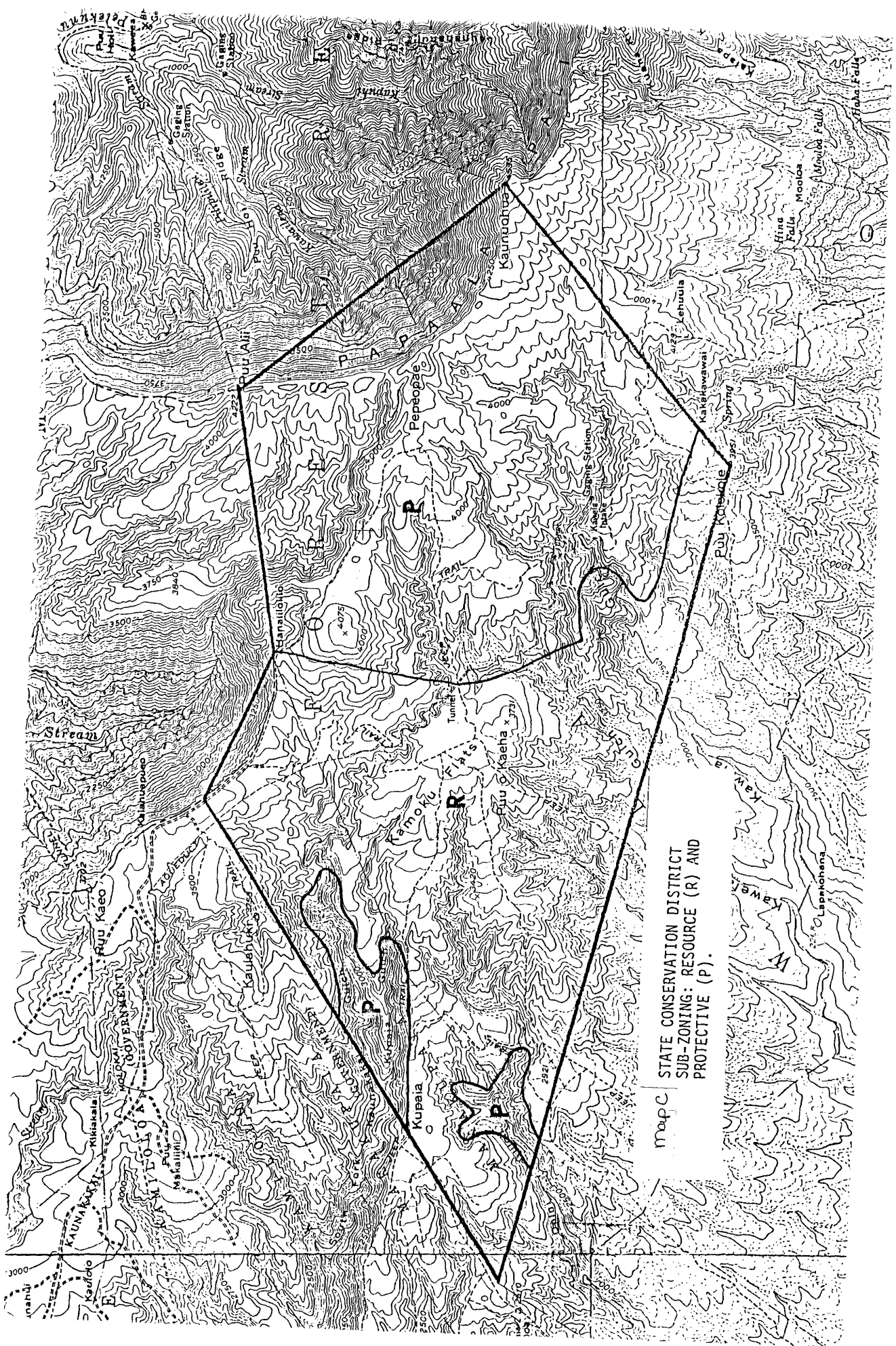
There are no known historic sites in the area.





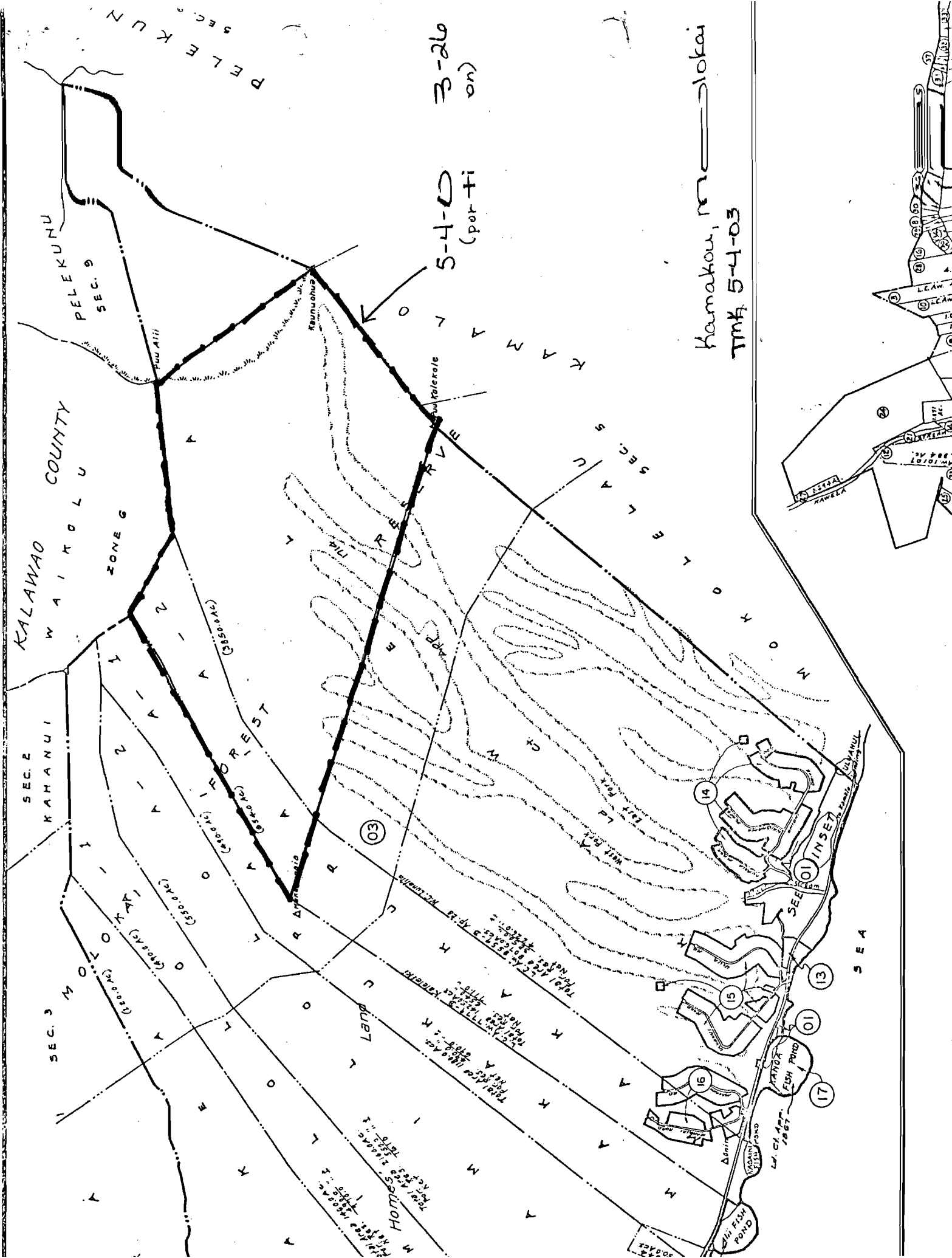
map A. LOCATION OF KAMAKOU PRESERVE ON THE ISLAND OF MOLOKAI.





mapc  
STATE CONSERVATION DISTRICT  
SUB-ZONING: RESOURCE (R) AND  
PROTECTIVE (P).







FOR INFORMATIONAL PURPOSES ONLY. APPROVAL OF ACTIVITIES ON THIS PROPOSED PRESERVE IS NOT REQUESTED AT THIS TIME.

Attachment 2-F

DESCRIPTION OF PARCEL  
Moomomi Preserve, Molokai (PROPOSED)

General Description

The Nature Conservancy of Hawaii intends to establish a nature preserve of 900 acres on a parcel of land that includes a portion of the northwest coast of Molokai extending from Kaiehu Point to a point just west of Kapalauoa (Maps A and B). The land is currently owned by Molokai Ranch, Limited. Although the bulk of the preserve will be on private land outside the Conservation District, a narrow strip (300') of Conservation District shoreline (subzone G) will be included, and this is an important component of the intended preserve. Moomomi contains the most intact coastal dune ecosystem in the main Hawaiian islands, and is habitat for several rare plants and animals.

A. Existing Structures/Use

No structures exist within this Conservation District area. The area is subjected to infrequent recreational use by off-road vehicle enthusiasts, constituting a major ecological threat. Fishing and camping activities occur at the beach, and occasional hikers and hunters visit the area.

B. Existing Utilities

None.

C. Existing Access

Vehicular access is by public and private unpaved road from the end of Farrington Avenue (route 480), or by heading north from route 46. Use of Molokai Ranch roads requires permission and a gate key. By foot, the area can be reached from Department of Hawaiian Homelands property along the coast (see Map #).

D. Vegetation

The proposed preserve area supports some of the best remaining examples of coastal vegetation in the main Hawaiian Islands. Plant communities within the Conservation District include naupaka-hinahina shrubland, akoko shrubland, and aki-aki grassland.

burials and Moomomi has been called "the place for the dead." Many burials have been found in the sandy areas, especially on the seaward side of Kawahuna, i.e. near Moomomi cove just east of the proposed preserve (see Map 6H). None of these sites is currently listed on State or National Registers of Historic Sites.

[illegible]



[illegible]











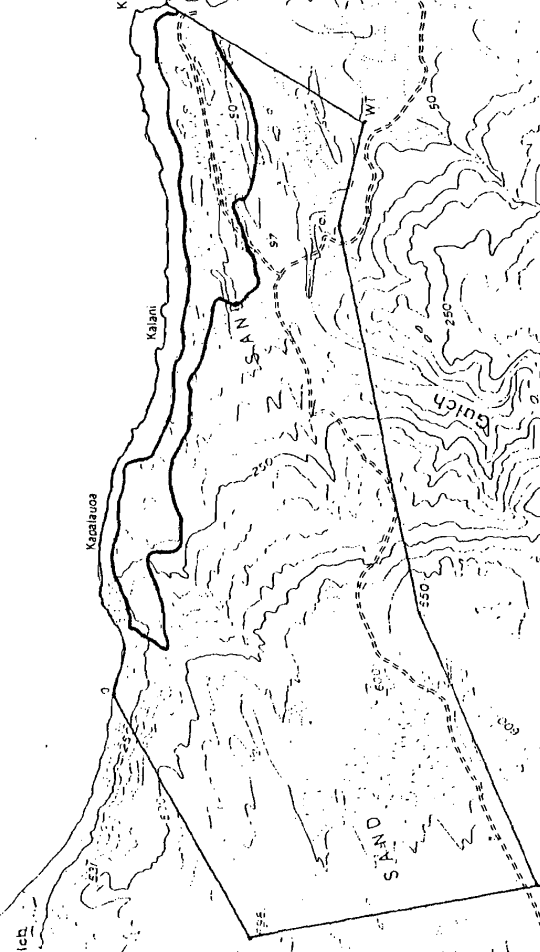
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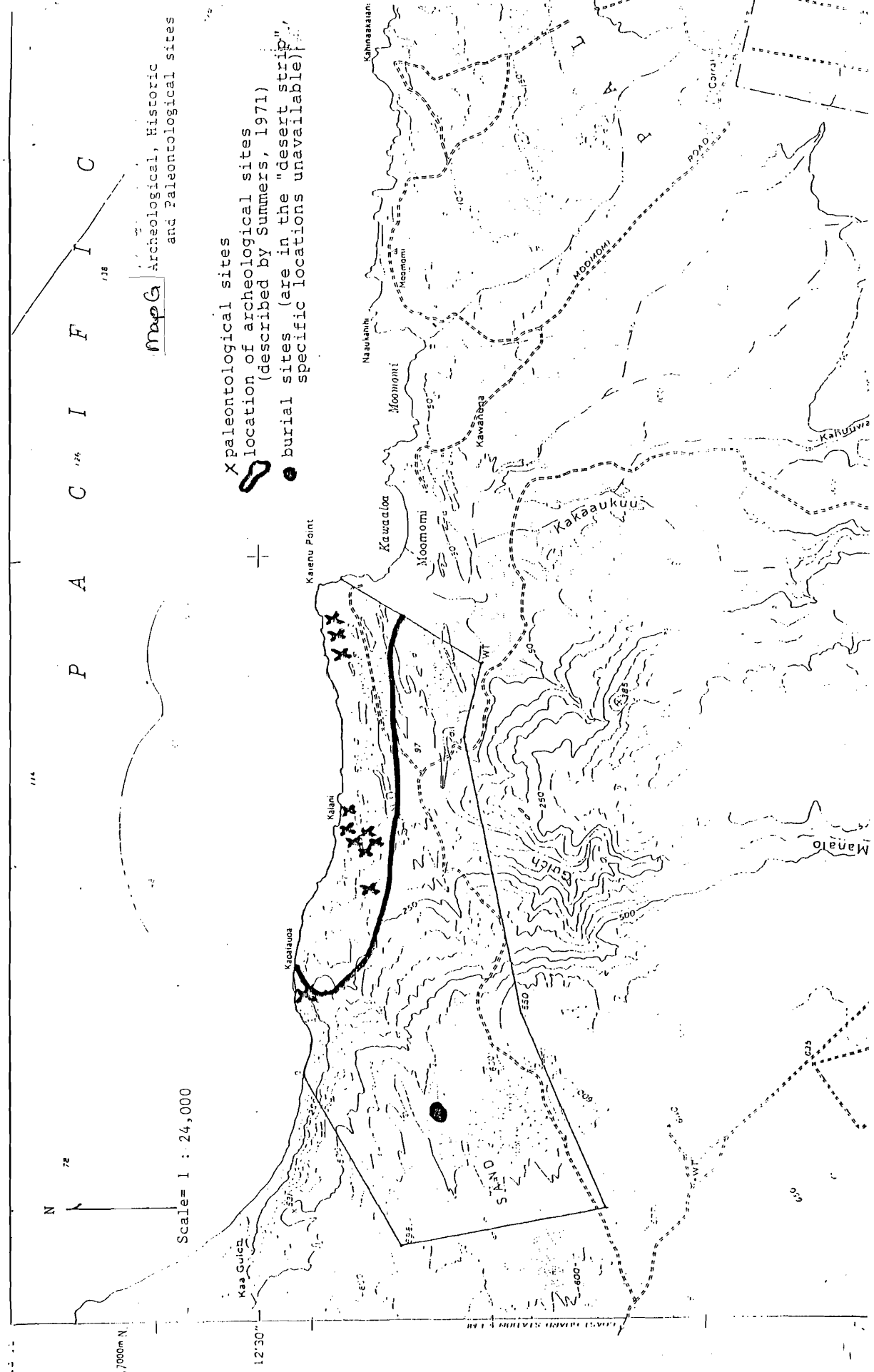
Scale= 1 : 24,000

P A C I F I C

map F Chamaesyce degeneri

Parcel boundary  
Chamaesyce degeneri





P A C I F I C

map Archaeological, Historic and Paleontological sites

x paleontological sites  
• location of archeological sites (described by Summers, 1971)  
• burial sites (are in the "desert strip" specific locations unavailable)





Addendum to Attachment #2F

(USA - Contracting Officer of FAA  
Western Pacific Region, Dept of Trans.)

7m1 5-1-02

7m1 5-1-02

INSET "B"

Ka Loe O Ka Ilio  
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State of Hawaii  
2610025.

State of New  
2610025.

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S

TRUE NORTH  
Scale. 1 in. = 5000 ft.

TRUE NORTH  
Scale. 1 in. = 5000 ft.

INSET D.

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5-1-02-1  
(portion)

5-1-02-35  
(portion)

INSET

SEE INSET "d"

36  
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422

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10

1

1

FOR INFORMATIONAL PURPOSES ONLY. APPROVAL OF ACTIVITIES ON THIS PROPOSED PRESERVE IS NOT REQUESTED AT THIS TIME.

Attachment 2-G

DESCRIPTION OF PARCEL

Wai'alae Nui, O'ahu (PROPOSED)

General Description

The proposed Wai'alae Nui Preserve is located on the leeward (southern) slopes of the eastern Ko'olau Mountains of the island of O'ahu, above Wai'alae and Kahala sections of the city of Honolulu (Map A). The proposed 1197 acre preserve is located in Conservation District owned by B. P. Bishop Estate. It includes low elevation mesic and wet forests in ridge and valley situations extending to include Ko'olau Summit cloud forests and the upper sections of two intermittent streams (Kapakahi and Wai'alae Nui streams).

The lands to the north, east, and west of the proposed preserve are in State Forest Reserve Watershed. To the south lie residential developments of the city of Honolulu.

A. Existing Structures/Uses

The area is used by occasional hikers, and is part of the Honolulu watershed area. Utility companies maintain electronic equipment along the summit area. These uses and structures will not be impacted by the proposed use.

B. Existing Utilities

Utility companies maintain lines and equipment in the parcel and accross the summit region.

C. Existing Access

The proposed preserve can be accessed via paved roads in three ways:

1. via Kalaniana'ole Highway to Laukahi Street, up Wai'alae Iki Ridge to Nuna Street, and the top of the subdivision at the end of Halakau Street. The Wiliwilinui Ridge Trail begins there, and continues to the crest of the Ko'olau Mountains, where it joins the Ko'olau Summit Trail.
2. via Waialae Avenue to Wilhelmina Rise and Sierra Drive to Maunalani Circle, the extremity of which is the trailhead for the Mau'umae Ridge Trail to Pu'u Lanipo and the Ko'olau Summit Trail.

FOR INFORMATIONAL PURPOSES ONLY. APPROVAL OF ACTIVITIES ON THIS PROPOSED PRESERVE IS NOT REQUESTED AT THIS TIME.

Attachment #2-H

DESCRIPTION OF PARCEL

Kanaele, Kauai (Proposed)

General Description

The Nature Conservancy of Hawaii intends to establish a nature preserve of approximately 1,900 acres that includes the only lowland bog in the Hawaiian Islands, and the entire lowland rainforest watershed feeding into the bog within the Wahiawa stream drainage (Maps A & B). The area in the proposed preserve is owned by McBryde Sugar Co. (TMK 2-4-9-1). The bog and upper Wahiawa drainage are surrounded on three sides by forest reserve. Forest to the southeast and east is state-owned, while forest to the west is Robinson property.

A. Existing Structures/Use

McBryde Sugar Co. operates Alexander Reservoir and associated hydroelectric and irrigation systems. Exotic tree plantations have been established for some time. These activities do not influence the native ecosystems in the mauka portion of the proposed preserve, and preserve operations would not alter these existing uses. Three television companies use the ridge to Mt. Kahili as sites for electronic equipment. Local hunters, hikers and visiting scientists enter the area occasionally. McBryde Sugar Co. also maintains a jeep road system to service the reservoir.

B. Existing Utilities

Three companies operate television-related electronic equipment at Mt. Kahili.

C. Existing Access

Vehicular access is by dirt road from Highway 50 to Alexander Reservoir, following the road around the reservoir's eastern side to near Kanaele Bog at elevation 2000'. A four-wheel drive vehicle is needed. All other access is by foot or helicopter.

#### D. Vegetation

The bog includes several unique plants, and the surrounding forests are exceptionally rich in rare endemic species as well as a surprisingly intact and little explored native invertebrate fauna. The Wahiawa drainage represents the edge of Kauai's rich and unexplored southwestern wet and mesic forest, which extend from the Hii range at Mt. Kahili west to the edge of the southern Alakai plateau. The bog and watershed are a major water source for McBryde Sugar Co.'s Kalaheo area fields. Kanaele is exceptional among low-elevation areas in Hawaii in that its native communities remain in excellent shape. The area is also habitat for a remarkably diverse biota relative to other very wet areas in the islands.

#### Other Significance:

Among invertebrates, the Wahiawa drainage above Kanaele bog is the only site in the main islands in which snails in the native endodontid group are known to survive. This is regarded as an indicator that other significant invertebrate groups may persist here also.

The biotic elements of Wahiawa stream are not known to us, but it is expected that native diadromous fishes and invertebrates have been lost as a result of downstream diversion of stream flow.

Peat deposits at Kanaele have been dated and studied palynologically by various scientists. They believe core samples from Kanaele hold important information about Hawaiian climatic and floristic history, and about the process of bog formation in tropical systems.

#### E. Topography

See Map B.

#### F. Shoreline

There is no shoreline within the proposed preserve.

#### G. Existing Covenants, Easements and Restrictions

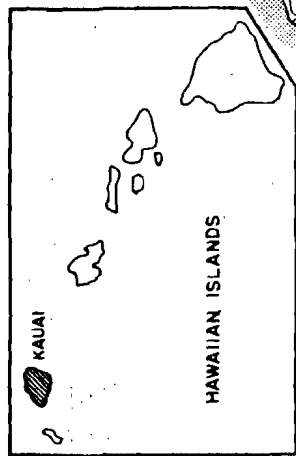
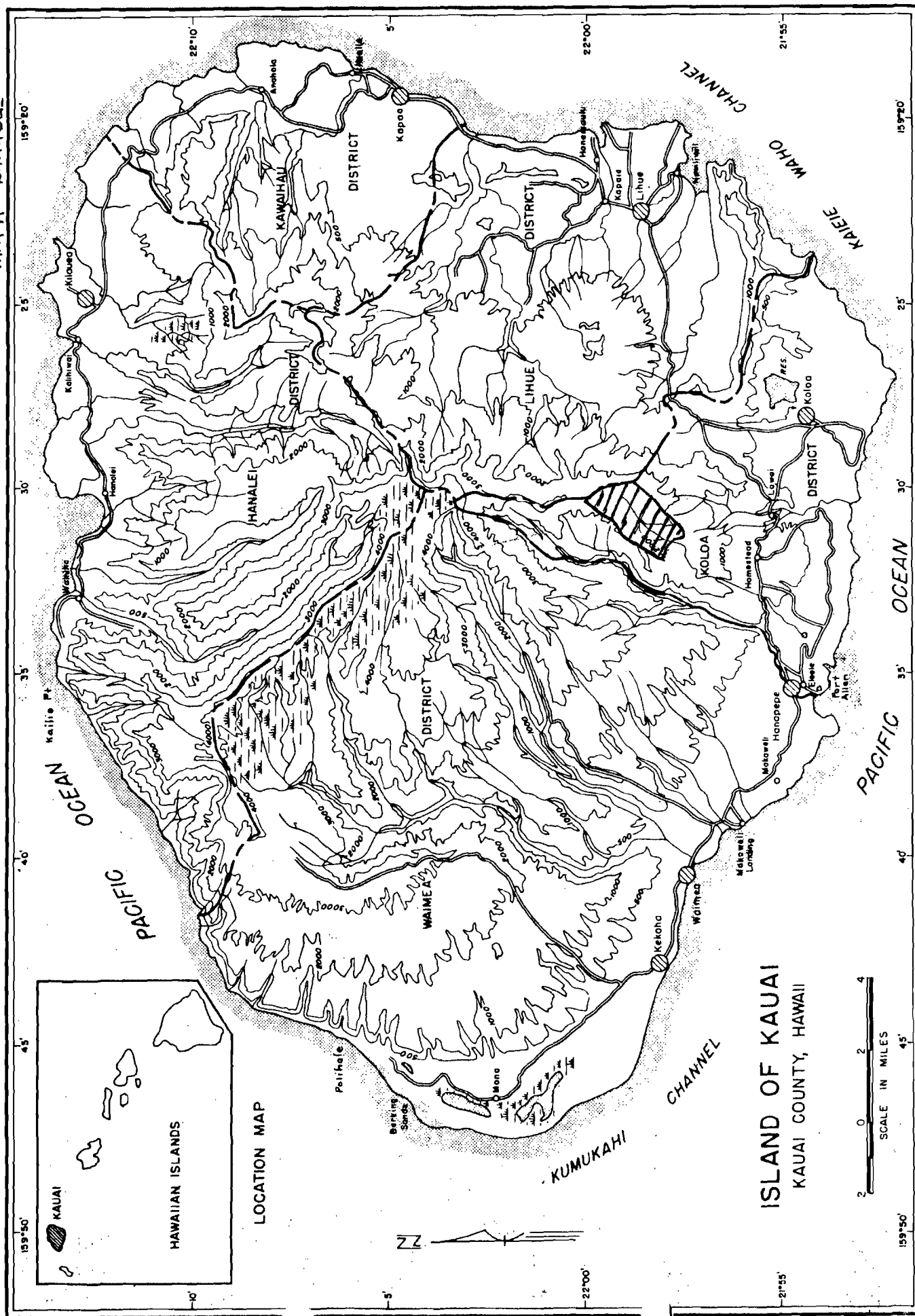
Three television companies hold easements to maintain equipment and access roads in the Mt. Kahili area.

#### H. Historic Sites Affected

There are no known historic sites within the proposed

preserve.

# MAP A KANA'ELE



ISLAND OF KAUAI  
KAUAI COUNTY, HAWAII

SCALE IN MILES  
0 2 4



MAP B. Kanaele - Mt. Kahi  
Proposed Preserve. (1518 ac  
Scale = 1:24,000  
Boundary





FOR INFORMATIONAL PURPOSES ONLY. APPROVAL OF ACTIVITIES ON THIS PROPOSED PRESERVE IS NOT REQUESTED AT THIS TIME.

Attachment #2-I

DESCRIPTION OF PARCEL

Puu Kukui, Maui (PROPOSED)

General Description

The Nature Conservancy of Hawaii intends to establish a nature preserve of approximately 8,000 acres in the West Maui Summit region on lands owned by Maui Land and Pineapple Company (Map A). The proposed preserve includes a set of adjacent ridges, plateaus and valleys incorporating a large number of lowland and montane, mesic and wet natural communities of the West Maui Mountains, with consequent rare species (Map A). The land to the east and west of the proposed preserve is part of West Maui Natural Area Reserve. To the north are agricultural lands, and to the north are Conservation District lands.

A. Existing Structures/Use

A small house exists at Ha'ela'au near the northwest corner of the proposed preserve. The landowner maintains a system of roads, trails, intakes, tunnels, weirs and rain gauges as part of its water system.

B. Existing Utilities

There are none.

C. Existing Access (Map <sup>A</sup>~~B~~)

There are two access trails to the proposed preserve, one of which can be used to reach the Honokowai gulch portion of the preserve, and another that runs up a ridge to the summit of Puu Kukui. Both access trails start from the coastal highway as jeep trails, and run mountain-ward through agricultural lands. All access to the majority of the proposed preserve is by foot or helicopter.

D. Vegetation

The proposed preserve area is botanically rich. Several distinct natural communities occur in the proposed preserve. The wet ohia forests, and the bogs in particular have been recognized as among the most pristine in the state, because of a lack of feral pigs. Pigs and foreign weeds are common only in the lower portions of the area, but are presently threatening the upland sites as well.

#### Other Significance:

While there are no endangered invertebrates reported from the West Maui Mountains, it is well known that the intact natural communities of the proposed preserve provide a diversity of habitats for native insects and invertebrates. These include at least ten genera of terrestrial snails, and hundreds of genera of arachnids, crustaceans and insects. Several native birds occupy the area, including the threatened Hawaiian owl.

This watershed supports all of Maui Land and Pineapple Company's resort and agricultural operations on West Maui. This major resource is dependant on the stability of the native vegetation in the proposed preserve.

#### E. Topography

See Map <sup>A</sup>~~B~~.

#### F. Shoreline

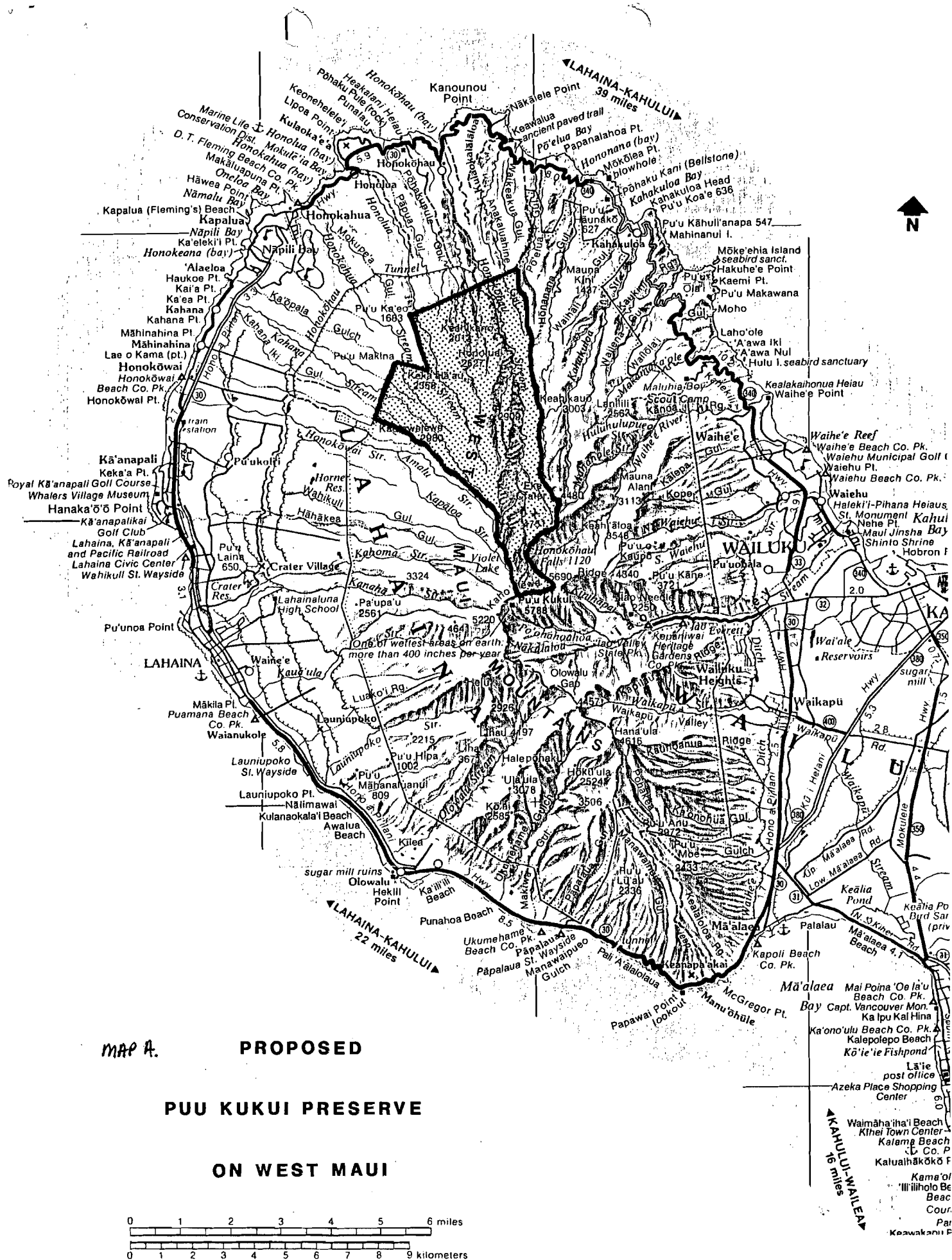
There is no shoreline within the proposed preserve.

#### G. Covenants, Easements and Restrictions

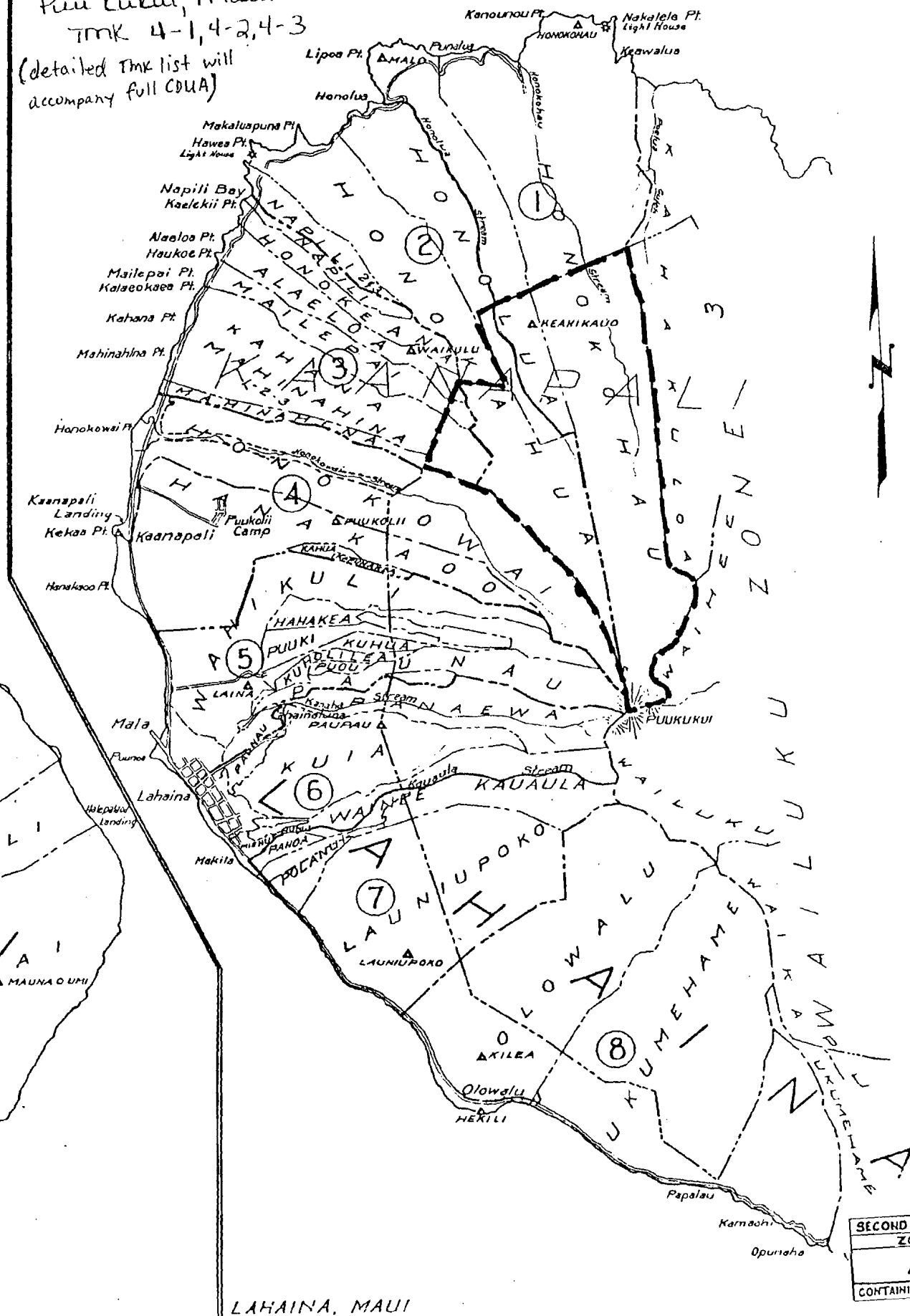
There are none at this time. It is anticipated that the landowner will retain certain rights over the area after any preserve is established.

#### H. Historic Sites Affected

Where surveys have been conducted in the area several historic sites have been found. Most of these occur along a stream, and are mainly agricultural sites, with a few habitation sites also. None of these sites is currently listed on State or National Registers of Historic Sites.



Puu Kukui, Maui  
Tmk 4-1, 4-2, 4-3  
(detailed Tmk list will  
accompany full CDUA)



LAHAINA, MAUI

SECOND DIVISION	
ZONE	
4	
CONTAINING	: SEC

2 551

### Attachment #3

#### DESCRIPTION OF PROPOSED ACTIVITY

The Nature Conservancy of Hawaii, a non-profit conservation organization, proposes to establish and maintain a system of nature preserves for the perpetuation of Hawaiian species and ecosystems on lands within the conservation district. Five preserves have been established, and several additional preserves are anticipated within the next few years. The Conservancy requests a permit to conduct management activities necessary for the maintenance and enhancement of native species and ecosystems within the established preserves described herein.

Operation of the preserve system will be funded through private donations. Management activities will be planned to meet four major objectives described in the Environmental Assessment (Attachment #1): 1) control of damage by non-native species and inappropriate human uses, 2) enhancement of public support of conservation through educational programs, 3) improvement of resource management techniques through research, and 4) operation of equipment and facilities as minimally necessary to meet these objectives.

All management operations involving threatened or endangered species will be subject to review by the appropriate state and federal agencies. Construction and equipment operations will be reported to the appropriate district forestry administrator prior to implementation. All uses of helicopters will be reported in advance to the district forestry administrator. Preserve operations will always be conducted in a manner which protects sensitive native habitats and fulfills the purposes of the conservation district regarding resource preservation.

The applicant has included descriptive information for pending preserve additions or expansions in order to expedite future amendment of this permit application and to apprise the Department of its long-range goals. Approval is requested at this time for the described activities on the five established preserves only.

JOHN WAIHEE  
GOVERNOR OF HAWAII



STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
P. O. BOX 621  
HONOLULU, HAWAII 96809

WILLIAM W. PATY, CHAIRPERSON  
BOARD OF LAND AND NATURAL RESOURCES

LIBERT K. LANDGRAF  
DEPUTY

AQUACULTURE DEVELOPMENT  
PROGRAM  
AQUATIC RESOURCES  
CONSERVATION AND  
ENVIRONMENTAL AFFAIRS  
CONSERVATION AND  
RESOURCES ENFORCEMENT  
CONVEYANCES  
FORESTRY AND WILDLIFE  
LAND MANAGEMENT  
STATE PARKS  
WATER AND LAND DEVELOPMENT

FILE NO.: SH-5/7/87-2028  
180-Day Exp. Date: 11/4/87  
DOCUMENT NO.: 1518E

OCT 19 1987

Mr. Kelvin Taketa  
The Nature Conservancy of Hawaii  
1116 Smith Street, Suite 201  
Honolulu, Hawaii 96817

Dear Mr. Taketa:

OCT 20 1987

We are pleased to inform you that your Conservation District Use Application for the management of a Nature Preserve system was approved on October 9, 1987 subject to the following conditions:

1. The applicant shall comply with all applicable statutes, ordinances, rules and regulations of the Federal, State and County governments, and applicable parts of Section 13-2-21, Administrative Rules, as amended;
2. The applicant, its successors and assigns, shall indemnify and hold the State of Hawaii harmless from and against any loss, liability, claim or demand for property damage, personal injury and death arising out of any act or omission of the applicant, its successors, assigns, officers, employees, contractors and agents under this permit or relating to or connected with the granting of this permit;
3. If any unanticipated sites or remains of historic or prehistoric interest (such as shell, bone or charcoal deposits, human burials, rock or coral alignments, paving, or walls) are encountered during construction, the applicant shall stop work and contact the Historic Preservation Office at 548-7460 or 548-6408 immediately;
4. The applicant shall comply with all applicable Public Health Regulations;

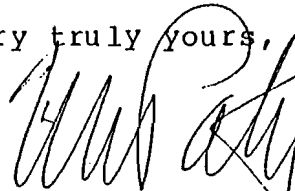
5. Any construction, alteration, moving, demolition and repair of any building or other improvement on lands within the Conservation District, authorized by the Board, shall be subject to the building and grading codes of the respective counties in which the lands are located; provided that prior to the commencement of any construction, alteration, or repair of any building or other improvement, four (4) copies each of the final location map, plans, and specifications shall be submitted to the Chairperson, or his authorized representative, for approval of which three (3) copies will be returned;
6. Any work or construction to be done on the land shall be initiated within one (1) year of the approval of such use, and all work and construction must be completed within three (3) years of the approval of such use. Failure to comply with this condition shall render this application null and void;
7. That the applicant provide a management plan for each area of operation;
8. That the applicant shall be responsible for warning all users of these preserves about public hunting on adjacent State-owned lands;
9. That the applicant shall take all necessary precautions to prevent wildland fires on these premises and be held responsible for all fires occurring on adjacent State-owned lands resulting from their activities in the project area including fire suppression costs borne by the State;
10. That the applicant shall not issue collecting permits for any listed threatened and endangered species without prior approvals from the proper authorities and to use prudent judgment when issuing collecting permits for less common endemic species;
11. That the existing trail on Waialae Nui be left open for public access;
12. That the applicant receive written approval from the Department of Water, County of Kauai, for the use of any pesticide within the vicinity of the County's two water wells.

13. Proposed structures shall conform to the requirements of Chapter 14, Housing and Chapter 11, Sanitation of Title 11, Administrative Rules, State of Hawaii, Department of Health;
14. The applicant shall conform to Act 282, SLH 1985 as amended by Act 302, SLH 1986;
15. Grubbed material generated by land clearing shall be disposed of in a manner and at the site approved by the Department of Health;
16. Effective dust and soil erosion control measures shall be implemented during all phases of development by the developer; and
17. Other terms and conditions as prescribed by the Chairperson.

Please acknowledge receipt of this permit with the above noted conditions in the space provided below. Please sign two copies. Retain one and return the other.

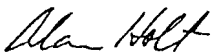
Should you have questions on any of these conditions, please feel free to contact our Office of Conservation and Environmental Affairs staff at 548-7837.

Very truly yours,



WILLIAM W. PATY, Chairperson  
Board of Land and Natural Resources

Receipt acknowledged:



Applicant's Signature

cc: All Board Members  
Maui, Kauai, Oahu Land Agents  
Maui, Kauai, C&C Dept. of Planning  
C&C, Dept. Land Utilization  
Maui, Kauai, C&C Dept. of Public Works  
Maui, Kauai, C&C Dept./Board Water Supply  
DOH/OEQC/EC/DBED/OHA  
National Park Service  
U.S. Fish and Wildlife Service





STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
P. O. BOX 621  
HONOLULU, HAWAII 96809

WILLIAM W. PATY, CHAIRPERSON  
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LAND MANAGEMENT  
STATE PARKS  
WATER AND LAND DEVELOPMENT

FILE NO.: SH-5/7/87-2028  
180-Day Exp. Date: 11/4/87  
DOCUMENT NO.: 1298E

October 9, 1987

Board of Land and  
Natural Resources  
State of Hawaii  
Honolulu, Hawaii

Gentlemen:

Conservation District Use Application for  
Management of Nature Preserve System

APPLICANT: The Nature Conservancy of Hawaii  
1116 Smith Street, Suite 201  
Honolulu, Hawaii 96817

<u>ISLAND</u>	<u>LOCATION</u>	<u>TMK</u>	<u>SUBZONE</u>	<u>AREA</u>	<u>LANDOWNERSHIP</u>
Kauai	Kaluhonu	2-9-02:1 2-9-03:1	Protective Limited	218 ac.	Grove Farm (Leased)
Molokai	Kamakou	5-4-03:26 (portion)	Resource	2774 ac.	Molokai Ranch (Conservation Easement)
	Pelekunu	5-4-03	Protective	5759 ac.	Nature Conser vancy (fee)
Maui	Waikamoi	2-3-05:4 (portion)	Protective Limited Resource	5230 ac.	Haleakala Ranch Co. (Conservation Easement)
Oahu	Ihiihilauakea	3-9-12:2 (portion)	General	60 ac.	C/C Honolulu (Management Agreement)

DESCRIPTION OF AREA/CURRENT USE:

Established Conservancy nature preserves include the following:

1. Kaluahonu, Kauai

The area is a nesting site for a threatened seabird, the Newell's Shearwater. The preserve is located on the south slope of Kauai's Hoary Head mountains in and east of the valley of Kaluahonu between 600 and 1,500 feet elevation. (See Exhibits B1 and B2.)

An avocado plantation is being established by Kauai Farms on land adjoining the southwestern foot of the preserve. There are no other actively managed lands immediately adjacent to the preserve except for McBryde Sugar Company's field in Kaluahonu Valley.

Cattle are pastured below the preserve to the southeast by Poipu Ranch Co., Ltd. While these pastures are not fenced at their forest boundary, the steepness of the terrain and dense vegetation appear to prohibit cattle access to the preserve itself.

There are no existing structures or utilities.

The preserve is accessible at its southwest boundary by jeep along established McBryde Sugar Co. cane field roads. There are no gates on these roads at present. Access from the southeast is fenced by Poipu Ranch. A trail network in the west part of the preserve established by biologists from 1978-1980 for 'a'o research is now largely overgrown.

## 2. Kamakou, Molokai

The preserve consists of native rain forest, bogs, and shrublands, with several hundred acres converted in the past to planted pine or eucalyptus stands.

Surrounding lands are all zoned conservation and included in the forest reserve. Lands to the north are part of Puu Alii Natural Area Reserve.

There is a small cabin at Puu Kolehale in the southwest corner of the Preserve. Also, a wooden boardwalk crosses Pepeopae Bog, and fences protect another bog, two experimental exclosures, and one summit rain forest area. Molokai Ranch maintains a water intake system and pipeline from Kawela stream and through the preserve, and the State Division of Forestry and Wildlife maintains a system of jeep roads. The preserve area is used by local pig and goat hunters, hikers, and scientists.

There are no existing utilities.

Vehicular access to the preserve is obtained via an unpaved road leading into the northwest corner of the preserve. A network of jeep trails are in various conditions. All other access is by foot or helicopter.

The Conservancy may expand the present preserve to include lands to the east in Kamalo and to the south in Kawela in order to protect additional rain forest and shrublands. The preserve after expansion might total 7,512 acres.

## 3. Pelekunu, Molokai

Pelekunu Valley along the rugged north shore of Molokai includes important native forests and one of the State's finest stream ecosystems. Pelekunu is flanked to the east and west by State Natural Area Reserves. The Nature Conservancy's Kamakou Preserve lies to the southwest. The southeast region of the valley's head is bounded by private holdings and by State-owned Wailau Valley.

The native vegetation of Pelekunu Valley is among the most important in the State. Coastal plant communities are in very good shape relative to most windward Hawaiian coasts, and include several rare endemic plant species such as Brighamia. The majority of the valley floor and accessible ridges above the coastal strand have been greatly altered by early Polynesian cultivation. Native vegetation is present in these areas as remnants, and these include several important species. In the innermost parts of the valley, significant areas of intact native lowland rainforest and moist forest remain, composed in places of an unusual mix of native trees--especially Bohea and Eugenia--unlike any other wet lowland forest outside of Molokai. These areas are all poorly explored.

Pelekunu Stream is recognized as being one of the few remaining large, pristine stream ecosystems in the Hawaiian Archipelago. As such, it is a critically important reservoir of indigenous stream fauna. Although no detailed survey of the stream has been conducted, several native fauna are known to occur here. Five species of native stream fishes, 2 species of native shrimp, 2 species of native molluscs, and numerous species of native microscopic crustaceans have been found in the stream.

Pelekunu Valley also commands access to the pristine Olokui Natural Area Reserve to the east. Kolo Ridge, within the preserve, is one of the very few potential routes by which feral ungulates could invade Olokui.

The only structure is a cabin and stream gaging system maintained by the U.S. Geological Survey. There are no existing utilities.

Access is limited to boat, hiking, or helicopter.

#### 4. Waikamoi, Maui

The preserve characterized by rain forest and subalpine shrubland and preserve is located on the upper northwest slopes of Haleakala volcano, immediately north of Haleakala National Park, and was established to protect several endangered forest bird species which inhabit the forest and shrubland ecosystems of the area. Lands adjacent to the preserve on the west are zoned for agriculture and are currently used for grazing. Lands to the south, northwest, north and east of the preserve are forest reserve or national park.

In the future, the Conservancy may expand the preserve to the north to a total of approximately 8,500 acres.

The preserve area is generally used as a watershed only. Recreational hunting of pigs and goats is practiced in portions of the area. Other than trails and a small water intake pipeline, no structures exist within the Conservation District portion of the Preserve.

There are no existing utilities.

Access to the Preserve is obtained via a jeep trail that enters the western boundary of the Preserve near Waikamoi Stream (Map B). Two foot and horse trails enter the south border of the Preserve from Haleakala National Park. All other access is by helicopter, or overland by foot without benefit of trails.

The Waikamoi Preserve contains a mosaic of natural communities. Plant communities found within the Preserve include montane koa-ohia forest, montane ohia wet forest, montane ohia moist forest, subalpine moist amaumau-ohelo, amaumau-ohelo-ohia shrubland, subalpine shrubland, dry mamane and forest. Of the 343 plant species known to occur on the Preserve, 272 are native to the Hawaiian Islands. Of these, 211 are endemic to Hawaii. Four of these species are considered candidates for listing as endangered by the federal government: Bidens campylotheca, Geranium arboreum, Pelea orbicularis, and Platanthera holochila. Platanthera holochila is the rarest of the three native orchids, and is now known from only five small populations throughout the State. One population was found in upper Koolau Gap in Waikamoi, in moist ohia forest. The other three candidate endangered species are known only from Haleakala Volcano.

The Hawaiian Hoary Bat, the only native Hawaiian mammal, is found in the Waikamoi Preserve. Fifteen native birds are known historically from the preserve region. One of these is now extinct on Maui, eight are endangered and one is threatened with extinction. The endangered species are dark-rumped petrel, Maui parrotbill, Maui nukupuu, Maui akepa, crested honeycreeper, poouli, and Hawaiian goose. The Bishop's o'o may be surviving on windward East Maui.

The Waikamoi Preserve is very important as watershed for upcountry Maui. It is also an accessible area for research of native plant communities and rare species, native birds, and for educational activities and field trips.

#### 5. Ihihilaauakea, Oahu

The nature preserve at Ihihilaauakea Crater is located on Koko Head, in Koko Head Park, eastern Oahu and within the Conservation District. The preserve is approximately 67 acres in size and is managed under an agreement with the landowner, the City and County of Honolulu.

Koko Head is a tuff cone with mostly bare and eroded slopes and scattered native and exotic species. Ihihilaauakea Crater is located on Koko Head at about 60 meters (200 feet) elevation. The crater floor contains a small vernal pool, the site of the rare endemic aquatic fern Marsilea villosa. The gently sloping sides of the crater are less than 6 meters (20 feet) high, and are covered with a wind-sheared kiawe (Prosopis pallida) thicket.

Other more common native coastal plants occur within the preserve on the Koko Head slopes, providing one of the best remnants of Hawaii's original coastal vegetation in this dry district of Oahu.

Hanauma Bay (adjacent to the preserve) is a State Marine Life Conservation District, visited by large numbers of tourists and residents daily. Other nearby uses include residential, commercial, regional park.

Several small tracts (totaling approximately 15 acres) located at the top of Koko Head are leased to the Federal Aviation Administration and Hawaiian Telephone. City and County Board of Water Supply has a small reservoir site north of the paved road. Preserve operations will not interfere with these activities or with surrounding land use.

No structures exist within the preserve. The area is subjected to illegal recreational use by off-road vehicle enthusiasts, constituting a major ecological threat. Camping occurs occasionally within Ihihilauea Crater, and fishing and camping activities occur on the southern slopes of Koko Head. Hikers occasionally visit the area. All of these activities occur without the landowner's permission.

There are no existing utilities.

Access by vehicle is along a restricted publicly-owned paved road from Kalaniana'ole Highway to the radio tower, then continuing with four-wheel drive downslope to the crater. The gate key is held by City and County Department of Parks and Recreation. Alternate access is by foot along a trail which climbs to the crater.

The preserve area contains the better of two remaining populations of Marsilea villosa, as well as some of the best remaining strand vegetation on Oahu. Plant communities within the preserve include Marsilea villosa vernal pool, nama herbland, and coastal mixed shrubland.

Marsilea villosa was formerly found at two sites on Molokai, one on Niihau, and five on Oahu. Only two populations now remain. The Koko Head population, a dense mat in a vernal pool, is much larger than the population at Lualualei, Oahu, where plants are scattered over a large area open to cattle grazing. The preserve includes this population and buffer zone of surrounding Prosopis pallida shrubs. The vernal pool at Ihihilauea is the only native-dominated pool of its kind remaining in Hawaii. Once a more common feature of Hawaii's lowlands, this unique, seasonal wetland is unlike any other natural community in the State. Currently the Marsilea is being replaced by introduced weeds in over half of the crater floor due to vehicle disturbance.

The strand vegetation includes at least six endemic taxa. Three of these are fairly rare. These are: Schiedea globosa, Nama sandwichensis, and Lipochaeta integrifolia. Schiedea globosa is endemic to coastal areas of Oahu, Molokai and Maui, and is known from less than ten populations. Nama sandwichensis and Lipochaeta integrifolia are endemic plants found in coastal areas throughout the Hawaiian Islands.

The Koko Head-Hanauma Bay-Koko Crater complex is one of the best examples of tuff cones in Hawaii. The area is of great scenic value, and lies adjacent to the popular outdoor recreation area at Hanauma Bay Marine Life Conservation District and Park.

PROPOSED USE:

The applicant requests a permit to conduct management activities necessary for the maintenance and enhancement of native species and ecosystems within the five established preserves listed above. Activities will include: (1) control of damage by non-native species and inappropriate human use; (2) enhancement of public support for conservation through educational programs; (3) improvement of resource management techniques through research; and (4) operation of equipment and facilities as minimally necessary to accomplish the objectives. Existing non-destructive, non-commercial, recreational and cultural activities without serious deleterious effects to the environment are allowed to continue.

Technical Characteristics of Use:

Preserve staff and/or volunteers under staff supervision will implement programs to remove or control damaging non-native species of plants and animals in important native habitats on the preserves. Removal and control methods will include hunting and trapping of non-native animals, construction of fences to aid in control efforts, application of approved pesticides to control weeds, predators, etc., and revegetation of damaged areas to prevent erosion or weed establishment. Staff will also prevent ecosystem damage by inappropriate human activities by constructing barriers to illegal vehicle traffic and otherwise limiting human activities in sensitive habitats.

Staff and volunteers will conduct educational field trips to increase public understanding and support of conservation activities. Interpretive materials will be produced for use by visitors and schools, and small signs or displays may be erected along limited nature trails in some preserves to assist with educational activities.

Appropriate scientific research to improve techniques for management of Hawaiian natural resources and ecosystems will be encouraged on preserves which can support such activities without undue damage to sensitive habitats. All research involving threatened or endangered species will be reviewed for approval by appropriate State and Federal agencies.

Staff and volunteers will construct foot trails, fences, signage, field shelters, etc. as minimally necessary to fulfill the management objectives described above. Operation and landing of boats and helicopters will be a necessary component of control programs for non-native species, and for maintenance of safety and fire-suppression programs. All construction plans and all operation or landing of boats or helicopters will be reported to the appropriate district forestry administrator prior to implementation. All helicopter operations will be conducted so as to cause minimum disturbance to populated areas, parks, and sensitive habitats.

Parcels within the Conservation District and subject to current negotiations for acquisition as nature preserves include the following:

1. Moomomi, Molokai (900-acre fee acquisition anticipated, with possible expansion to a total of 1,500 acres in the future). A major coastal dune ecosystem with native plants and marine animals. NOTE: A CDUA submitted to the Department for subdivision necessary to establish this preserve was approved by the Board, July 10, 1987.
2. Waialae Nui, Oahu (1,197-acre fee acquisition or conservation easement anticipated). A native forest and shrubland ecosystem.
3. Kanaele, Kauai (1,518-acre conservation easement anticipated, with possible expansion to 2,000 acres). A lowland rainforest and bog ecosystem.
4. Puu Kukui, Maui (8,230-acre conservation easement anticipated). Native rainforest, moist forest, shrubland and bog ecosystems.

SUMMARY OF COMMENTS:

The application was referred to the following agencies for review and comment: the Department of Land and Natural Resources (DLNR) Divisions of Aquatic Resources, Forestry and Wildlife, State Parks/Historic Sites, Land Management, Conservation and Resources Enforcement, Water and Land Development, and the Natural Area Reserves System; the Kauai, Maui and City and County of Honolulu Departments of Planning, Public Works, and Water Supply; the State Department of Health, the Environmental Council, the Office of Environmental Quality Control, and the Office of Hawaiian Affairs; U.S. Fish and Wildlife Service; and U.S. National Park Service. Comments received follow:

The Division of Aquatic Resources

This division has no objection to the proposal provided any management activities affecting aquatic resources will be coordinated with the division. The proposed management activities would potentially serve to enhance native aquatic fauna and flora which may inhabit the Nature Preserves.

Division of Forestry and Wildlife

Kauai District Forester

The Nature Conservancy's Nature Preserve System on private lands is very important for the recognition and perpetuation of important native flora and fauna areas. It will be very important to choose work projects and methods with caution as past experience has taught us that clearing of unwanted vegetation by herbicide or otherwise usually provides for establishment sites for the same or other aggressive introduced species and that most native species plantings

require intensive and repeated care which is not feasible on a large scale. Special emphasis should be targetted at new threats to an area such as the foothold that clidemia has gained in the area of the Kanaele proposed Nature Preserve on Kauai.

It should also be recognized, in the total environment aspect of native species appraisal, that native species is not necessarily the most effective watershed cover for water resource quality and quantity. Field shelter sites and structures need also to be carefully considered as to need and location because they can become an attractive nuisance and counterproductive to their goals of establishment. These statements reflecting reservations are not expressed to detract from the goals of the Nature Preserve System. They are expressed as a statement of caution--that many times efforts directed for positive effect can turn out to be more damaging than beneficial. In this same light it should be understood that nature in Hawaii has always been in a very dynamic state and there has therefore been no specific point in time that reflects an ultimate final example of any completely stable ecosystem. -And- as "mother nature" continues her work she does not favor natives over introduced, she unrelentingly favors the most adaptable and aggressive species at hand.

We support approval for the Nature Conservancy to manage with the authority they request with the stipulation that approval is conditional to their providing a management plan for each area of operation. This is important for both short and long term: planning; evaluation; and to retain continuity of management as site managers change.

Maui District Forester

We have reviewed the subject CDUA by The Nature Conservancy of Hawaii and support their management proposals for the protection and preservation of Hawaii's natural resources and ecosystems.

We foresee no major impact (positive or negative) on our current and future programs should this project be implemented.

We recommend including the following conditions should this application be approved:

1. That the applicant shall be responsible for warning all users of these preserves about public hunting on adjacent State-owned lands.
2. That the applicant shall take all necessary precautions to prevent wildland fires on these premises and be held responsible for all fires occurring on adjacent State-owned lands resulting from their activities in the project area including fire suppression costs borne by the State.



3. That the applicant shall not issue collecting permits for any listed threatened and endangered species without prior approvals from the proper authorities and to use prudent judgment when issuing collecting permits for less common endemic species.

Oahu District Forester

The following are our comments on the proposed management of the Ihiihilaaukea and Waialae Nui preserve:

1. Proper permits shall be necessary before certain management activities are conducted such as wildlife control permits for introduced non-game bird control if this activity becomes necessary.
2. In the event of a wildfire, who will be responsible for suppression activities? What procedures will The Nature Conservancy have relating to this activity?
3. Lanipo trail abuts the western border of the proposed Waialae Nui preserve and Wiliwilinui trail abuts the eastern border. No restricted public access shall be placed on these two trails.
4. A trail on Waialae Nui ridge also exists. We request that the trail be left open for public access.

State Parks/Historic Sites

This project area does not contain historic sites that are listed on the Hawaii Register or the National Register of Historic Places, or that have been determined eligible for inclusion on the National Register of Historic Places. However, with the exception of the Pelekunu Reserve, these areas have not been archaeologically surveyed, so it is unknown if significant historic sites are present.

The Pelekunu Reserve is known to contain numerous historic sites consisting of agricultural and habitation complexes. However, no systematic survey has been conducted and, thus, no detailed description and maps of the sites exist. For this area, therefore, we recommend that an archaeological survey be conducted in the proposed locations for foot trails, fences, field shelters, etc. This should be conducted during the planning stage so that the information can be incorporated into the management plan. If sites are present, their significance should be assessed. Mitigative measures to handle significant sites should be approved by our office. Perhaps significant sites can also be avoided; protective and interpretive facilities can be moved elsewhere.

For the rest of the reserve areas, due to the proposed nature of the project to minimize impacts to the areas, we have determined that there will be "no effect" to any known cultural resources.

However, we do recommend that if historic remains such as artifacts, shell or charcoal deposits, burials, and stone platforms, pavings, or walls are found during implementation of the management plan, please direct the applicant to stop work in the immediate area and contact the Historic Sites Section at 548-7460 immediately. Our office will assess the situation and make recommendations for mitigative action, if needed.

State Department of Health

1. We recommend that the applicant receive written approval from the Department of Water, County of Kauai, for the use of any pesticide within the vicinity of the County's two water wells.
2. Proposed structures shall conform to the requirements of Chapter 14, Housing and Chapter 11, Sanitation of Title 11, Administrative Rules, State of Hawaii, Department of Health.
3. The applicant shall conform to Act 282, SLH 1985 as amended by Act 302, SLH 1986.
4. Grubbed material generated by land clearing shall be disposed of in a manner and at the site approved by the Department of Health.
5. Effective dust and soil erosion control measures shall be implemented during all phases of development by the developer.

Due to the general nature of the application submitted, we reserve the right to implement further environmental restrictions when more detailed plans are submitted.

The Office of Hawaiian Affairs

This office urges your favorable consideration of this application.

The efforts of the Nature Conservancy to protect and manage threatened native ecosystems deserves our support. As a national organization with private financing, the Conservancy has demonstrated the highest levels of professionalism and care in the management of endangered Island plants and animals.

The only comments we have are:

1. the future need for a more formalized coordination of their efforts with our Office, particularly as they may impact on native sites or burials (which we will be pursuing);
2. the nature and scope of helicopter access to these areas and the potential detrimental impact of such flights; and

3. the encouragement and consistent use of diacritical markings for a clear reading of Hawaiian place names and words as consonant with their and our mission to both protect and nurture the host culture.

From our conversation with the Conservancy, they are aware of, share, and are taking concrete action to address these concerns. Again, we urge your favorable consideration of this application.

#### U.S. Fish and Wildlife Service

The Fish and Wildlife Service endorses the implementation of the subject management plans for The Nature Conservancy's Nature Preserve System in Hawaii, and has no objection to the issuance of a permit for these activities. We note, however, that little site-specific detail is presented on the actual management activities that will be required to achieve the four stated management objectives for the Nature Preserve System. Hence, the application mainly stands on the good reputation of The Nature Conservancy of Hawaii.

#### Specific Comments

- a. Kaluahonu Preserve, Kauai. Note that the accepted scientific and common names of the 'a'o have been recently changed to Newell's Townsend Shearwater (Puffinus auricularis newelli).
- b. Moomomi Preserve, Molokai (PROPOSED). While Solanum nelsoni is currently known only from Moomomi, it was documented from six of the eight main Hawaiian Islands as well as several leeward islands. We suggest the sentence describing its distribution be reworded to reflect its historic occurrence in Hawaii. According to recent taxonomic studies, the variety moloakaiensis of Chamaesyce degeneri does not warrant formal recognition. We recommend that The Nature Conservancy of Hawaii determine whether the three candidate endangered plants Chamaesyce skottsbergii var. vaccinioides, Sesbania tomentosa and two varieties of Tetramalopium rockii occur within the boundaries of the Moomomi Preserve.
- c. Puu Kukui, Maui (PROPOSED). Note that the Hawaiian owl is listed as an endangered species on Oahu only by the State of Hawaii. It is not a Federally listed threatened or endangered species.

#### Director, Pacific Area, National Park Service

The Conservation District Use Application SH-5/7/87-2028 for Management of Nature Preserve System at Kaluahonu, Kauai; Kamakou and Pelekunu, Molokai; Waikamoi, Maui; and Ihihilauakea, Oahu, was reviewed with interest. The proposal seems wholly in accord with the forest bird endangered species recovery plan developed by your Department and the U.S. Fish and Wildlife Service. Also, it allows closely the management recommendations in the 1986 monograph on "Forest Bird Communities of the Hawaiian Islands: Their Dynamics, Ecology, and Conservation" by Michael Scott, et al.

We heartily endorsed your approval of this application.

ANALYSIS:

Following review and acceptance of the application for processing, the applicant, by letter dated June 10, 1987, was notified that:

1. The proposed use is a permitted use in the Protective, Limited and Resource Subzones of the Conservation District according to Title 13, Chapter 2, Administrative Rules, as amended;
2. No public hearing pursuant to Chapter 183-41, Hawaii Revised Statutes, as amended, was required; and
3. A negative declaration in accordance with Title 11, Chapter 200 of the Administrative Rules, has been determined for the proposed use, and written clearance from the Counties of Maui and Kauai, and City and County of Honolulu regarding SMA requirements has been obtained.

The objective of the Protective subzone is to protect valuable resources in such designated areas as restricted watersheds; marine, plant or wildlife sanctuaries; significant historic, archaeological, geological, and volcanological features and sites; and other designated unique areas.

The objective of the Limited subzone is to limit uses where natural conditions suggest constraints on human behavior.

The objective of the Resource subzone is to develop, with proper management, areas to ensure sustained use of the natural resources of those areas.

The objective of the General (G) subzone is to designate open space where specific conservation uses may not be defined, but where urban use would be premature.

Section 13-2-21(b)(1) relating to standards requires all applications be reviewed in such a manner that the objective of the subzone is given primary consideration.

Native species and ecosystems within the preserves will be protected from destruction by non-native species and other threats. The rate of extinction in native Hawaiian species should be lessened and some species may recover from present low numbers to larger, more viable populations. Protection of upland areas will enhance watershed areas as well, and may result in an improvement in water quality and yield in some areas. Scenic values will be enhanced and open space will be preserved. Stable native environments will be available for scientific studies which may provide baseline data and other information of value in the long-term management of island natural resources.

The impact of activities which may be authorized by this application, on the environment is not expected to be great. Neither is there expected to be much serial impact.

The proposed use will not significantly reduce any existing economic activities on conservation lands in the State. Through expansion of its professional and part-time staff, the Conservancy will add a few jobs and resultant income to island economies, and will increase opportunities for employment in the resource management field in the State. Those preserves which are open to the public will probably attract moderate numbers of conservation- or nature-minded visitors to the islands. (Visitor numbers on the preserves will be limited to prevent damage to sensitive habitats.) Increased research activity may bring funding from out-of-State scientific institutions and add opportunities for scientific studies and employment within the State.

The proposed use is supported through private fundraising. Significant public natural resources will be protected without any cost to the taxpayer. In addition, philanthropic funds from outside Hawaii will be brought into the State to aid in acquisition and operations.

The nature preserve system may increase public understanding and support of conservation, and may become a source of community pride in some areas. Present, non-destructive, non-commercial recreational and cultural activities may continue on the preserves without serious deleterious effects to the environment.

The goals of the Nature Conservancy management program are very similar to the objectives of the Protective subzone and are not inconsistent with the objectives of the Limited , Resource and General subzones.

In considering the purpose and intent of the Conservation District, the objective of the subzones involved, and, the standards which must be met Staff is of the opinion that such a proposal is venerable.

As such, Staff recommends as follows:

RECOMMENDATION:

That CDUA SH-5/7/87-2028 for the management of a Nature Preserve system be approved subject to the following conditions:

1. The applicant shall comply with all applicable statutes, ordinances, rules and regulations of the Federal, State and County governments, and applicable parts of Section 13-2-21, Administrative Rules, as amended;
2. The applicant, its successors and assigns, shall indemnify and hold the State of Hawaii harmless from and against any loss, liability, claim or demand for property damage, personal injury and death arising out of any act or omission of the applicant, its successors, assigns, officers, employees, contractors and agents under this permit or relating to or connected with the granting of this permit;

3. If any unanticipated sites or remains of historic or prehistoric interest (such as shell, bone or charcoal deposits, human burials, rock or coral alignments, paving, or walls) are encountered during construction, the applicant shall stop work and contact the Historic Preservation Office at 548-7460 or 548-6408 immediately;
4. The applicant shall comply with all applicable Public Health Regulations;
5. Any construction, alteration, moving, demolition and repair of any building or other improvement on lands within the Conservation District, authorized by the Board, shall be subject to the building and grading codes of the respective counties in which the lands are located; provided that prior to the commencement of any construction, alteration, or repair of any building or other improvement, four (4) copies each of the final location map, plans, and specifications shall be submitted to the Chairperson, or his authorized representative, for approval of which three (3) copies will be returned;
6. Any work or construction to be done on the land shall be initiated within one (1) year of the approval of such use, and all work and construction must be completed within three (3) years of the approval of such use. Failure to comply with this condition shall render this application null and void;
7. That the applicant provide a management plan for each area of operation;
8. That the applicant shall be responsible for warning all users of these preserves about public hunting on adjacent State-owned lands;
9. That the applicant shall take all necessary precautions to prevent wildland fires on these premises and be held responsible for all fires occurring on adjacent State-owned lands resulting from their activities in the project area including fire suppression costs borne by the State;
10. That the applicant shall not issue collecting permits for any listed threatened and endangered species without prior approvals from the proper authorities and to use prudent judgment when issuing collecting permits for less common endemic species;
11. That the existing trail on Waialae Nui be left open for public access;
12. That the applicant receive written approval from the Department of Water, County of Kauai, for the use of any pesticide within the vicinity of the County's two water wells.

13. Proposed structures shall conform to the requirements of Chapter 14, Housing and Chapter 11, Sanitation of Title 11, Administrative Rules, State of Hawaii, Department of Health;
14. The applicant shall conform to Act 282, SLH 1985 as amended by Act 302, SLH 1986;
15. Grubbed material generated by land clearing shall be disposed of in a manner and at the site approved by the Department of Health;
16. Effective dust and soil erosion control measures shall be implemented during all phases of development by the developer; and
17. Other terms and conditions as prescribed by the Chairperson.

Respectfully submitted,

  
ROGER C. EVANS  
Staff Planner

Attachments

Under the authority delegated by the Board of Land and Natural Resources at its meeting of July 14, 1978, this application for permitted use as described herein is hereby:

(✓) APPROVED  
( ) DISAPPROVED

Dated at Honolulu, HI this 9 th  
day of Oct., 19 87.

STATE OF HAWAII

By: 

WILLIAM W. PATY, Chairperson and Member  
Board of Land and Natural Resources





TMK 2-9

8

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E

W

KOFOA MILL

P

A

A

**PIPELINE**

RESERVOIR

L. C. Av. 10605  
or  
GRANT 1754:1

02

2-9-02-1  
(portion)

2-9-03-1  
(portion)

MAHAULEPU DRAIN

03

④ PETROLYAN  
FIELD 11

M A H / A U L E P U

QUARRY SITE

SEE INSET

*SUBJECT TO CHANGE*

Exhibit B-1

PF



CDUA no. SH- 5/7/87 - 2028  
 APPLICANT The Nature Conservancy  
of Hawaii  
 TMK KAUAI - KALUAHONU  
 SCALE

SUBZONE	<input type="checkbox"/>	PROTECTIVE
	<input type="checkbox"/>	RESOURCE
	<input type="checkbox"/>	LIMITED
	<input type="checkbox"/>	GENERAL
		PROJECT AREA

map D Conservation District Sub-  
zone on and near Kaluahonu  
Preserve.

-25-

LEGEND: — Preserve Boundary  
 - - - Subzone Boundary  
 L "Limited" subzone  
 P "Protected" subzone  
 (L & P defined on next pages)

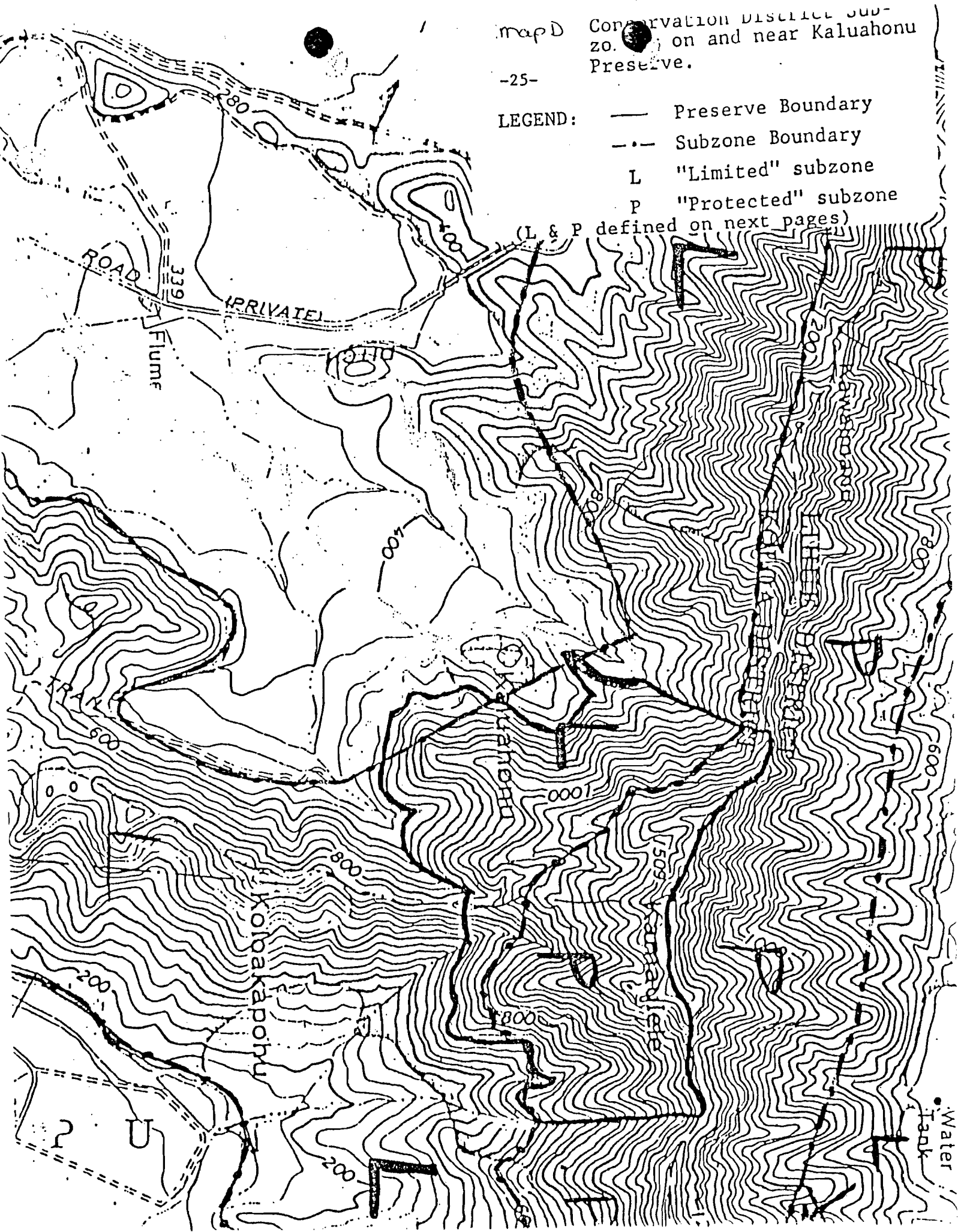
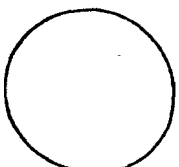


Exhibit B-2



NORTH

CDUA no. SH- 5/7/87 - 2028  
 APPLICANT The Nature Conservancy  
of Hawaii

TMK KAUAI - KALUAHONU

SCALE

SUBZONE	PROTECTIVE	RESOURCE	LIMITED	GENERAL	PROJECT AREA

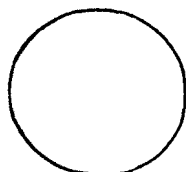






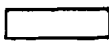





Exhibit D-2



NORTH

CDUA no. SH- 5/7/87 - 2028  
 APPLICANT The Nature Conservancy  
of Hawaii  
 TMK MALOKAI - PELEKUNU  
 SCALE \_\_\_\_\_

SUBZONE		PROTECTIVE
		RESOURCE
		LIMITED
		GENERAL PROJECT AREA



SUBZONE ☐ PROTECTIVE  
☒ RESOURCE  
☐ LIMITED  
☐ GENERAL  
PROJECT AREA

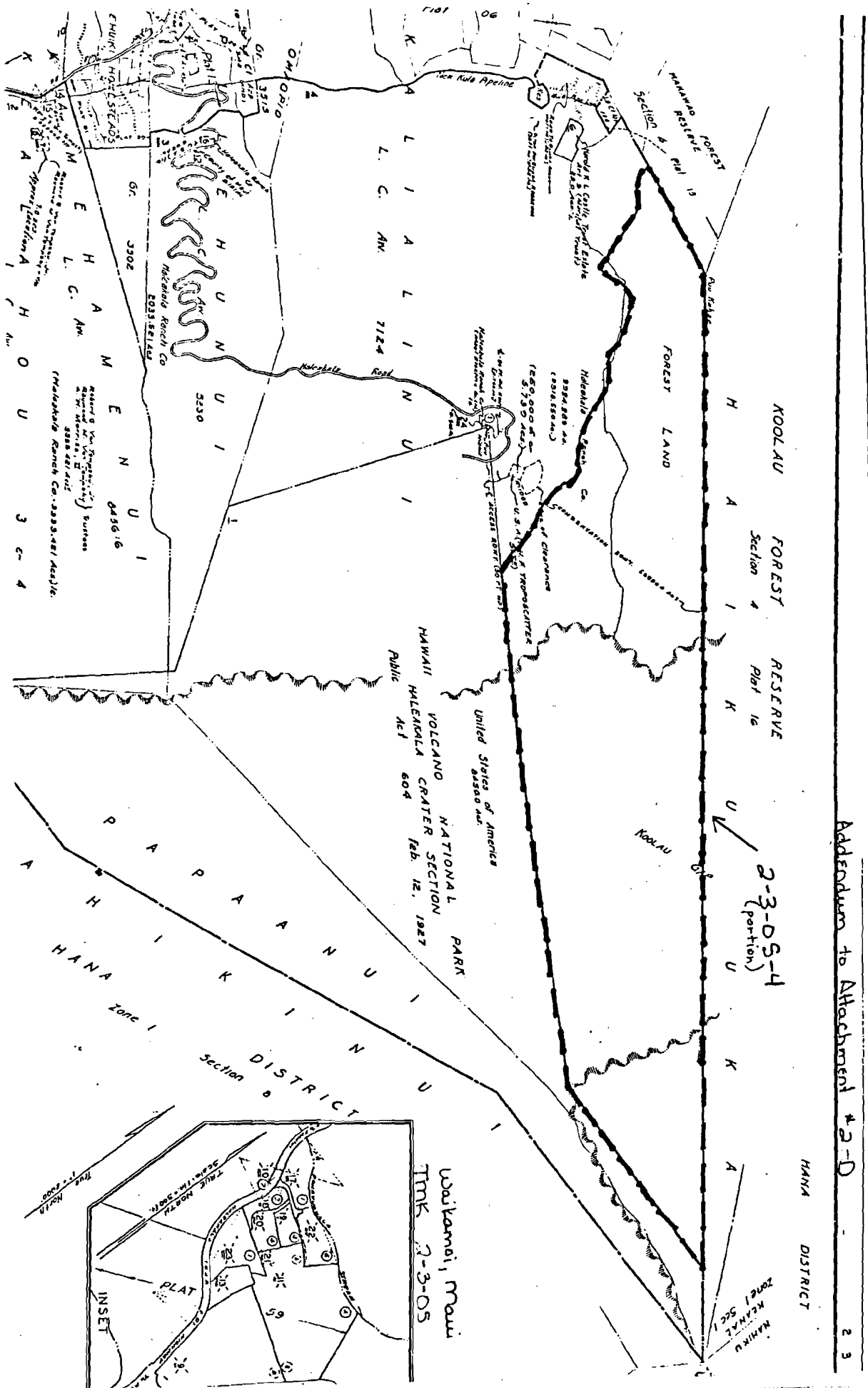


Exhibit E-1

CDUA no. SH-5/7/87-2028  
 APPLICANT The Nature Conservancy of Hawaii  
 TMK MAUI-WAIKAMOI  
 SCALE

SUBZONE PROTECTIVE  
 RESOURCE  
 LIMITED  
 GENERAL  
 PROJECT AREA

# WAIKAMOI PRESERVE, MAUI

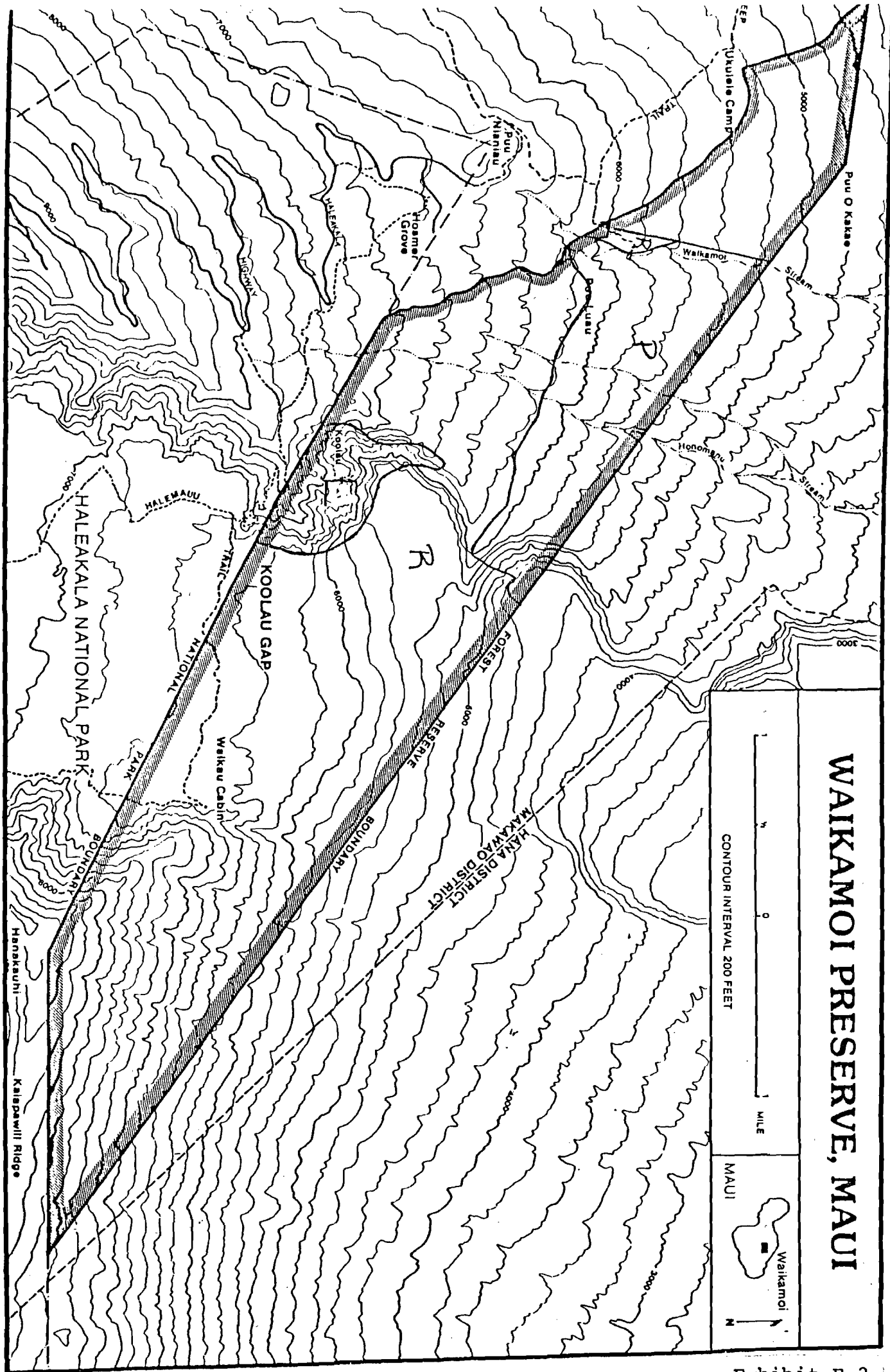
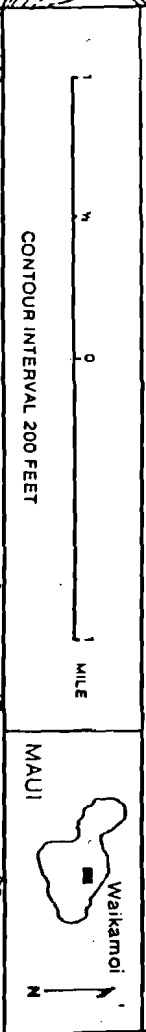


Exhibit E-2

CDUA no. SH- 5/7/87 - 2028

APPLICANT The Nature Conservancy  
of Hawaii

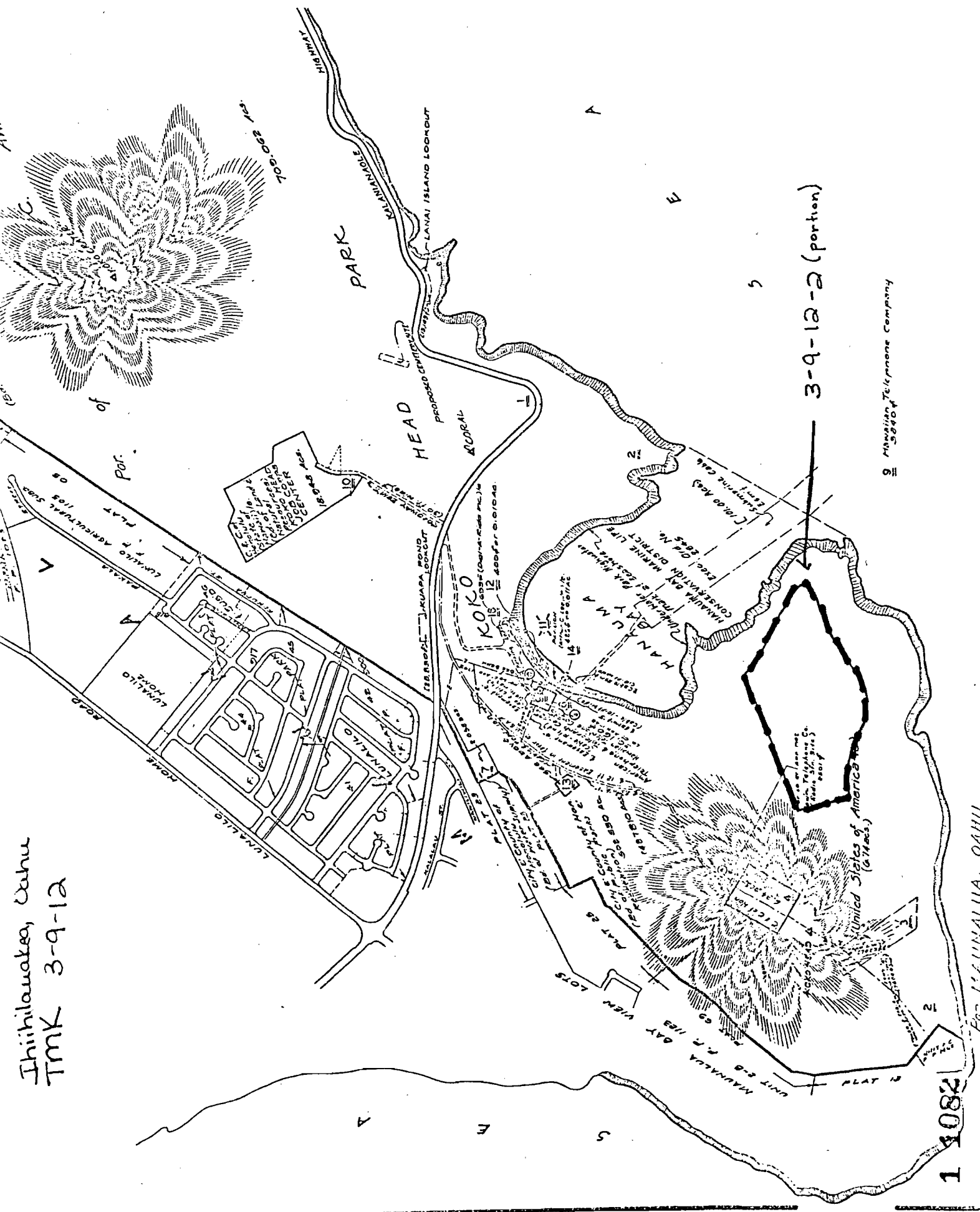
TMK MAUI - WAIKAMOI

NORTH

SCALE

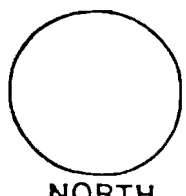
SUBZONE		PROTECTIVE
		RESOURCE
		LIMITED
		GENERAL PROJECT AREA





Ihiihilauea, Oahu  
TMK 3-9-12

Exhibit F-1



CDUA no. SH- 5/7/87 - 2028  
 APPLICANT The Nature Conservancy  
of Hawaii  
 TMK CAHU - IHIIHILAUKEA  
 SCALE

SUBZONE		PROTECTIVE
		RESOURCE
		LIMITED
		GENERAL
		PROJECT AREA



*(cc)*

# The Nature Conservancy of Hawaii



1116 SMITH STREET • SUITE 201 • HONOLULU, HAWAII • 96817 • PH: (808) 537-4508 • FAX: (808) 545-2019

*SEE* May 7, 1993

Mr. Keith Ahue  
Chairperson  
Board of Land and Natural Resources  
P.O. Box 621  
Honolulu, Hawaii 96809

Subject: Conservation District Use Permit SH-2028 (5/7/87)

*SL*  
*SH-2028A*

Dear Mr. Ahue:

On October 9, 1987, The Nature Conservancy of Hawaii received approval of a blanket Conservation District Use Application (SH-2028) from the Board of Land and Natural Resources Chairperson for a variety of management activities on our preserves. These management activities are for the protection of native Hawaiian plants, animals and ecosystems, and are permitted uses under the Department's Title 13, Chapter 2 Administrative Rules. This letter is to request a time extension for one of the permit's conditions.

Condition number six of the permit (state Document number 1518E, dated October 19, 1987) requires that any construction be initiated within one year, and completed within three years of the approval of such use. Since permit SH-2028 was granted as a blanket permit intended to guide our preserve activities for an unspecified number of years, we would like to request a time extension to enable us to implement management projects after the current one and three year time limit. We are able to initiate any construction within one year and complete it within three years of approval of specific construction plans, as required by condition five of the permit.

We appreciate your consideration of this time extension. We hope you will agree that it will reduce redundant approval of the permitted uses already authorized by the Board under our blanket CDUP SH-2028, while allowing Departmental review of specific projects prior to their implementation. Barrie Morgan, here in our Honolulu office, will be glad to provide any further information needed.

Sincerely,

Alan Holt  
Director, Science and Stewardship

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STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES

P. O. BOX 621  
HONOLULU, HAWAII 96809

AQUACULTURE DEVELOPMENT  
PROGRAM  
AQUATIC RESOURCES  
CONSERVATION AND  
ENVIRONMENTAL AFFAIRS  
CONSERVATION AND  
RESOURCES ENFORCEMENT  
CONVEYANCES  
FORESTRY AND WILDLIFE  
HISTORIC PRESERVATION  
PROGRAM  
LAND MANAGEMENT  
STATE PARKS  
WATER AND LAND DEVELOPMENT

REF:OCEA:KCK

JUL 22 1993

FILE NO.: SH-2028A  
DOC. NO.: 3146

Alan Holt  
Director of Science Stewardship  
The Nature Conservancy of Hawaii  
1116 Smith Street, Suite 201  
Honolulu, Hawaii 96817

Dear Mr. Holt: *Alan*

Subject: Amendment to Conservation District Use Application SH-2028  
for the Management of Statewide Nature Preserve System

We are pleased to inform you that your request to modify condition six (6) of Conservation District Use Application SH-2028 for the management of a Nature Preserve System, was approved by the Board of Land and Natural Resources on July 9, 1993, subject to the following conditions:

1. That any work or construction to be done on the land shall be initiated within one (1) year of the approval of construction plan to be filed with the department and completed within three (3) years of the approval of the construction plans. Failure to comply with this condition shall render this application null and void;
2. That the applicant provide a management plan for each area of the operation to the appropriate DLNR District Forester and that an annual report of their management activities within the Nature Preserve System be filed with the CDUA application;
3. That the original conditions imposed by the Board on October 9, 1987 on Conservation District Use Application SH-2028 remain in effect (with the exception of Conditions 6-7 which have been modified).

Please acknowledge receipt of this permit, with the above noted conditions, in the space provided below. Please sign two copies. Retain one and return the other.

Mr. Holt

- 2 -


File No.: SH-2028A

Should you have any questions on any of these conditions, please feel free to contact Samuel Lemmo at our Office of Conservation and Environmental Affairs at 587-0377

Very truly yours,

  
KEITH AHUE, Chairperson

Receipt acknowledged

  
\_\_\_\_\_  
Applicant's Signature

cc: Oahu/Maui/Kauai Board Members  
Oahu/Maui/Kauai Land Agents  
Oahu/Maui/Kauai Depts. of Planning  
OSP

STATE OF HAWAII  
Department of Land and Natural Resources  
Office of Conservation and Environmental Affairs  
Honolulu, Hawaii

FILE NO.: SH-2028A  
DOC. NO.: 2976

July 9, 1993

Board of Land and  
Natural Resources  
State of Hawaii  
Honolulu, Hawaii

REGARDING: Amendment to Conservation District Use Application SH-2028  
for the Management of Statewide Nature Preserve System

APPLICANT: The Nature Conservancy of Hawaii  
1116 Smith Street, Suite 201  
Honolulu, Hawaii 96817

<u>ISLAND</u>	<u>LOCATION</u>	<u>TMK</u>	<u>SUBZONE</u>	<u>AREA</u>	<u>LANDOWNERSHIP</u>
Kauai	Kaluhonu	2-9-02: 1 2-9-03: 1	Protective Limited	218 ac.	Grove Farm (Leased)
Molokai	Kamakou	5-4-03: 26 (portion)	Resource	2774 ac.	Molokai Ranch (Conservation Easement)
	Pelekunu	5-4-03	Protective	5759 ac.	Nature Conservancy (fee)
Maui	Waikamoi	2-3-05: 4 (portion)	Protective Limited Resource	5230 ac.	Haleakala Ranch Co. (Conservation Easement)
Oahu	Ihihilauakea	3-9-12: 2 (portion)	General	60 ac.	C/C Honolulu (Management Agreement)

#### BACKGROUND

On October 9, 1987, the Board of Land and Natural Resources approved Conservation District Use Application SH-2028 for the Management of a statewide Nature Preserve System, subject to 17 conditions (Exhibit 1).

Condition six (6) of the approval states that:

"Any work or construction to be done on the land shall be initiated within one (1) year of the approval of such use, and all work and construction must be completed within three (3) years of such use. Failure to comply with this condition shall render this application null and void."

#### TIME EXTENSION REQUEST

Presently, the applicant requests a time extension to implement various elements of their management plans after the current one and three year time limit (Exhibit 2).

Staff has been in contact with the applicant. The applicant states that SH-2028 was intended as a blanket permit to guide the Nature Conservancy's management activities for an unspecified number of years.

Presently, the applicant is unable to commence work in those areas covered by their blanket CDUA as all work and construction should have been completed within the three-year construction time limit.

#### ANALYSIS

Staff finds that the applicant has been attentive to the 17 Board imposed conditions. According to the applicant, where management plans have been developed for each specific preserve, they have been filed with the DLNR district forester and/or land owner.

The Nature Conservancy's on-going activities within each specific nature preserve is a unique situation in which work and construction projects are conducted over an unspecified period. The standard construction time limit imposed on the applicant is somewhat incongruous with the on-going nature of the approved land use and on-going management of the Nature Preserve System.

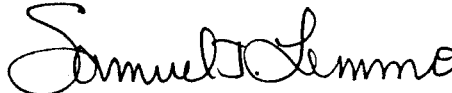
As such, Staff recommends as follows:

#### RECOMMENDATION

That the Board of Land and Natural Resources amend Conservation District Use Application SH-2028 for the management of a Nature Preserve System, subject to the following conditions:

1. That any work or construction to be done on the land shall be initiated within one (1) year of the approval of construction plans to be filed with the department and completed within three (3) years of the approval of the construction plans. Failure to comply with this condition shall render this application null and void;
2. That the applicant provide a management plan for each area of the operation to the appropriate DLNR District Forester and that an annual report of their management activities within the Nature Preserve System be filed with this Cдуа application;
3. That the original conditions imposed by the Board on October 9, 1987 on Conservation District Use Application SH-2028 remain in effect (with the exception of Conditions 6-7 which have been modified).

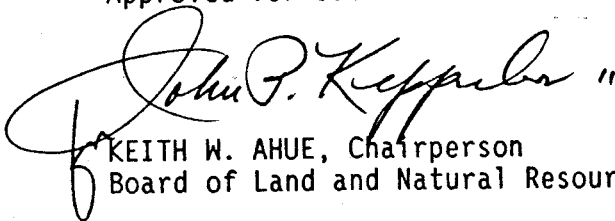
Respectfully submitted,



SAMUEL J. LEMMO  
Staff Planner

Attachment(s)

Approved for Submittal:



KEITH W. AHUE, Chairperson  
Board of Land and Natural Resources