

JOHN WAIHEE
GOVERNOR OF HAWAII



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

P. O. BOX 621
HONOLULU, HAWAII 96809

1955
KEITH W. AHUE, CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES

DEPUTES
JOHN P. KEPPELER, II
DONA L. HANA'IKE

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

REF:OCEA:DKP

FILE NO.: KA-3/4/94-2480A
DOC. ID.: 4707

JUL 25 1994

MEMORANDUM

TO: Bruce Anderson, Acting Director
Office of Environmental Quality Control

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

SUBJECT: Negative Declaration for GTE Mobilnet Improvements to Existing
Microwave (Cellular Telephone) Repeater Station, Kukuiohono,
Koloa, Kauai, TMK: 2-3-05: por. 8

The Department of Land and Natural Resources has reviewed the comments received during the 30-day public comment period which began on April 23, 1994. The DLNR has determined that this project will not have a significant environmental effect and has issued a negative declaration. Please publish this notice in the August 8, 1994 OEQC Bulletin.

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

Please contact Steve Tagawa of our Office of Conservation and Environmental Affairs at 587-0377, if you have any questions.

Enclosure

1994-08-08-KA-FEA-GTE Mobilnet
Cellular Transmission Facility

AUG 8 1994

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194 JUL 18 PM 1:21

DLNR

OGEA

ENVIRONMENTAL ASSESSMENT

CELLULAR TELEPHONE TRANSMISSION FACILITY
KUKUIOLONO, KAUAI

PREPARED FOR:

GTE Mobilnet
Hawaii Region

ACCEPTING AUTHORITY:

Dept. of Land and Natural Resources
State of Hawaii

PREPARED BY:

Gima, Yoshimori, Miyabara, Deguchi
Architects, Inc.
1357 Kapiolani Blvd., Suite 1230
Honolulu, Hawaii 96814

Date

July 18, 1994

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SUMMARY INFORMATION

Applicant:	GTE Mobilnet 733 Bishop St., Suite 1900 Honolulu, HI 96813
Consultant:	Gima, Yoshimori, Miyabara, Deguchi Architects, Inc. 1357 Kapiolani Blvd., Suite 1230 Honolulu, Hawaii 96814
Location:	Kukuiofono Park, Koloa, Kauai
Tax Map Key:	2-3-05: Portion of 8
Land Area:	1,147 square feet
State Land Use Designation:	Conservation, General Subzone
Koloa-Poipu-Kalaheo General Plan:	Public Facility
Existing Zoning:	State Land Use Conservation
Existing Land Use:	Microwave Repeater Station
Landowner:	McBryde Trust Estate
Accepting Authority:	Dept. of Land and Natural Resources

SECTION 1

INTRODUCTION AND SUMMARY OF THE PROPOSED ACTION

GTE Mobilnet proposes to amend the Conservation District Use Permit (CDUP KA-2480) to make further improvements to its current facilities on a permanent basis. The proposed improvements include:

- a) replacement of its existing 60-foot temporary scaffold tower with a temporary 40-foot wooden pole, and transfer the existing antennas from the scaffold tower to the wooden pole. The pole would be approximately 10-foot from the scaffold tower but still within the lease area. The wooden pole will be buried directly on the ground, with no concrete foundation or guide wires. The temporary scaffold tower would then be disassembled and removed. By installing the temporary wooden pole, GTEM's cellular services to its customers will not be disrupted.

- b) replacement of the proposed 40-foot temporary wooden pole with a 80-foot monopole-three 11-foot omni-directional antennas assembly in the first quarter of 1995. The metal monopole, which will measure approximately 2-1/2 feet in diameter at its base, will be delivered to the site in three sections. GTEM plan to implement installation by: 1) digging a hole approximately 12 to 15 feet down and 5 feet in diameter, 2) engaging a heavy duty crane to set the monopole in place, and 3) filling the hole with concrete. The crane will be needed for about three days and the entire cut-over process should take approximately three weeks. Upon remove of the wooden pole, the hole will be filled, grass will be replanted, and the ground area restored to the original condition.

- c) replacement of its 30 kw diesel fuel generator and 60-gallon fuel tank with a permanent generator and 150-gallon fuel tank. The generator would be on a 5' x 10' concrete pad, while the fuel tank would be on a 5' x 5' concrete pad.

The microwave repeater station is used to repeat microwave signals from Kukuioolono to Mount Laukahi (site of the Grove Farm cellular station).

GTE Mobilnet (the Applicant) indicates that the installation of the current facility was expedited under the Emergency Authorization in September of 1992 following Hurricane Iniki, to provide emergency cellular communication services to Kauai.

Currently, GTE Mobilnet has only partial cellular telephone

coverage for the Island of Kauai. This coverage is provided by the subject site at Kukuiolono (Figure 1) and by another site located near "Tree Tunnel" on property owned by Grove Farm Company and extends telephone service between Kapaa and Hanapepe. In the future, the Applicant proposes to extend cellular service to Princeville and later improve service in Kapaa by installing additional repeater stations in those regions.

The project site is designated within the Conservation District, General Subzone. This environmental assessment evaluates the impacts of the existing facility and the proposed improvements which require a Conservation District Use Permit.

SECTION 2

DESCRIPTION OF PROPOSED ACTION

2.1 LOCATION OF PROJECT SITE

The project site is located within Kukuioolono Park, Koloa, Island of Kauai, Tax Map Key 2-3-05:portion 08 and portion 11. The project site is a 1,147 square foot area abutting an 8,148 square foot parcel owned by Walter D. McBryde Trust and leased to Hawaiian Telephone Company for use as a microwave radio station. The Hawaiian Telephone site currently contains a communications building and a 70-foot antenna tower. The project site currently contains a 60-foot temporary tower with two 18-foot omnidirectional antennas, equipment cabinet, and a diesel generator with 60 gallon fuel tank. The project site is accessible through a gated private road off of Papalina Road and over a 10-foot wide easement through Kukuioolono Golf Course. Adjacent to the project site also are the facilities of the Kauai Cable Television Company, which includes a large satellite earth station antenna (Figures 2 and 3).

2.2 BACKGROUND INFORMATION

GTE Mobilnet provides portable and mobile telephone service to various areas in the State. Headquartered within Grosvenor Center in Honolulu, communication signals are sent to Hawaiian Telephone Company for transmission to its antenna at Kukuioolono which is then sent by cable to the subject microwave repeater station for transmission to GTE Mobilnet's Grove Farm cellular site.

The project was planned and installed in April 1989. The project was expedited to provide cellular service to Kauai. The Kukuioolono site was intended as a temporary site not to exceed 90 days and therefore permits were not applied for. However, the project was made permanent because alternative sites were found to be unfeasible. This site was selected because it offers essential line-of-sight microwave transmission paths needed to receive and transmit signals to the Grove Farm cellular site.

An "after-the-fact" CDUP (KA-2480) was approved by the Board of Land and Natural Resources (DLNR) which authorized a telecommunication facility that consisted of: a 3'x3'x7' high equipment cabinet which supported a 4 foot diameter microwave antenna, a battery box (2'-6"w x 1'-6"d x 1'-6"h), and a portable generator with separate fuel tanks.

An Emergency Authorization was granted to GTE Mobilnet on September 23, 1992 following Hurricane Iniki. It stated:

"...allow any actions to be taken in the interest of the public health, welfare, safety and morals on those lands in the Conservation District in the County of Kauai to the extent that the emergency is alleviated..."

"2. That within ninety (90) days after completion of the emergency work a report be filed with the Department of Land and Natural Resources listing actions taken by Tax Map Key."

GTE Mobilnet filed their report on December 28, 1992 which indicated the equipment installed under the Emergency Authorization. This included:

- a) larger equipment cabinet placed on a 12'x 8' concrete pad,
- b) a 60-foot temporary tower with two 18-foot omni-directional antennas,
- c) a 30kw diesel fuel emergency generator with a 60 gallon fuel tank.

Except for an occasional maintenance check every 45-60 days, the station would be unmanned. In addition, a minimal amount of tree trimming will be necessary to maintain a clear line of sight to GTE's Grove Farm cellular site. This will involve trimming the lower branches of nearby ironwood trees that grow into the antenna's clear line of sight.

In their report GTE Mobilnet also expressed a need to make further modifications to their facilities on a permanent basis.

SECTION 3

EXISTING CONDITIONS AND PROJECT IMPACTS

3.1 EXISTING USES

The site is used for telecommunications equipment by Hawaiian Telephone Company, Kauai Cable TV and GTE Mobilnet. The surrounding area is in open space and includes a golf course and a baseball field. The site contains the GTE Mobilnet repeater station equipment, a 70-foot antenna tower, a single-story communications building, chain link fencing, cable TV transmission equipment, and nearby golf holes and fairways (Figure 3). North of Kukuiolono Park is the town of Kalaheo which consists primarily of rural residential uses with support commercial uses. Additional rural residential uses are located to the southeast. To the west and south are vacant land that are currently designated for agricultural use and open space (Figure 4).

3.2 SOILS AND TOPOGRAPHY

The project site is characterized by Puhi silty clay loam soils. This soil series consists of well drained soils on uplands of the Island of Kauai. These soils are used for sugarcane, pineapple and other agricultural crops as well as for home sites. The topography of the site is level to gently sloping. The elevation is about 820 feet above mean sea level. No grading work is being proposed.

3.3 ARCHAEOLOGY AND HISTORIC SITES

There are no known archaeological or historic sites or resources located on or near the project site.

3.4 FLORA AND FAUNA

The vegetation at the project site includes ironwood trees, paperbark trees, tiger claw trees and grass ground cover. Norfolk island pines are planted on the edge of the golf course across the access road from the project site. Wildlife species include upland game birds.

There are no known rare or endangered species of plant or animals associated with the project site.

3.5 CLIMATE

The climate of the project site is moist and warm. The average annual temperature is about 75 F and the average annual rainfall is in the range of 50 inches. Winds are usually trades and originate from the northeast.

3.6 VISUAL CHARACTERISTICS

The project site with its communications building and antennas offer a high contrast with the grassy open space of the golf course and park in the surrounding area to the north. To the southeast is a view of naturally occurring vegetation with low shrubs and trees (Figure 5). The proposed project improvements will not significantly alter the existing visual characteristics of the area. GTE Mobilnet may plant 2-3 shrubs along the entry area to mitigate views from the golf course.

3.7 HAZARDS

The microwave repeater antenna is a low power transmitter with a transmission output equivalent to one watt. In addition, the antenna is located at the edge of Kukuiohono Park and directs the transmission away from park users.

As indicated previously, the housing for the battery is completely sealed and no adverse impacts are anticipated on the environment.

SECTION 4

PUBLIC FACILITIES AND SERVICES AND PROJECT IMPACTS

4.1 ELECTRICITY

Power is presently being provided by Hawaiian Telephone Company via an underground tap to the adjacent 70-foot antenna tower,

4.2 VEHICULAR ACCESS AND POLICE PROTECTION

Access to the site is provided by a single-lane paved road which starts at the park's public parking area and winds through the golf course. A short paved driveway extends from the access road to the existing Hawaiian Telephone facility. The repeater station is within walking distance from the driveway. The park is locked at the gated entry during the evenings to discourage vandalism.

SECTION 5

SOCIO-ECONOMIC CONDITIONS AND IMPACTS

Current social and economic trends indicate that the Island of Kauai and other neighbor islands will continue to experience fairly rapid population growth, while Oahu's rate of growth will be moderate. This growing population will require expanded services including portable or mobile telephone services.

GTE Mobilnet indicates it has approximately 600-700 customers on Kauai. The repeater station is necessary to continue providing better coverage to its current and future customers.

SECTION 6

LAND USE REGULATIONS AND PROJECT IMPACTS

6.1 STATE LAND USE DISTRICT AND SUBZONE

The site is designated within the Conservation District and within the General Subzone as determined by the State Land Use Commission and the Department of Land and Natural Resources, respectively (Figure 6).

6.2 COUNTY GENERAL PLAN

The site is designated as Public Facility by the Kauai General Plan as reflected on the Koloa-Poipu-Kalaheo General Plan Map.

6.3 COUNTY ZONING

The project site is designated within the Conservation District and County zoning for the site is not applicable. The relevant zoning map for the area refers to the site as State Land Use Conservation.

6.4 COASTAL ZONE MANAGEMENT (CZM)/SPECIAL MANAGEMENT APPLICATION (SMA)

The project site is located mauka of the County of Kauai Special Management Area, and a Special Management Area permit is not required. No significant adverse impacts are anticipated on the policies and objectives of the Coastal Zone Management program, Chapter 205A, Hawaii Revised Statutes.

SECTION 7

ALTERNATIVES TO THE PROPOSED ACTION

7.1 NO PROJECT

If the existing and proposed improvements are not allowed, cellular service to Kauai and its local areas will not be complete and the quality of portable phone service will be impaired.

7.2 OTHER SITES

GTE Mobilnet considered other sites to locate the repeater station including buildings within Lihue. Most of these sites either did not have a clear path to the Grove Farm cellular site or had problems with leasing arrangements.

SECTION 8

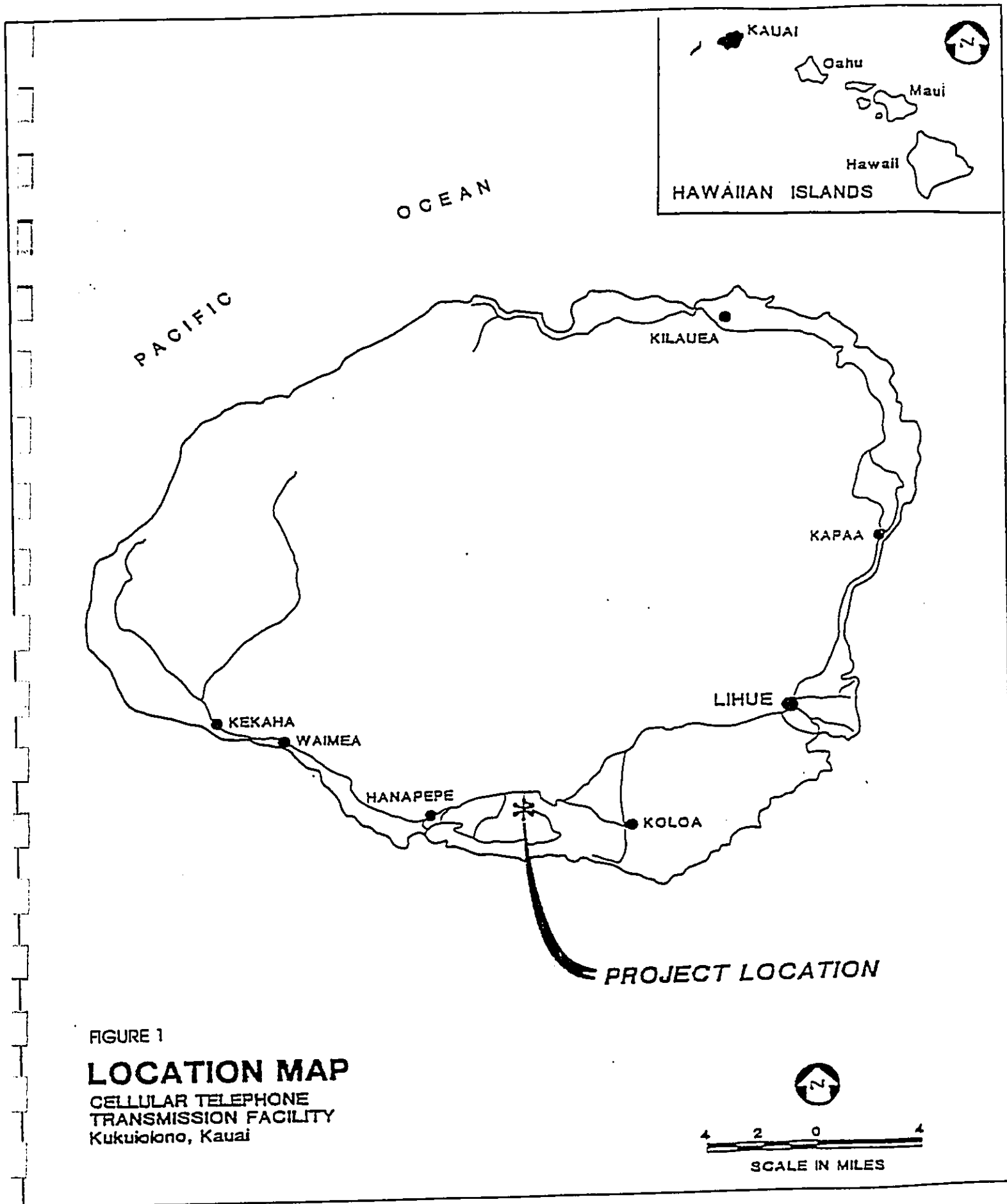
NECESSARY PERMITS AND APPROVALS

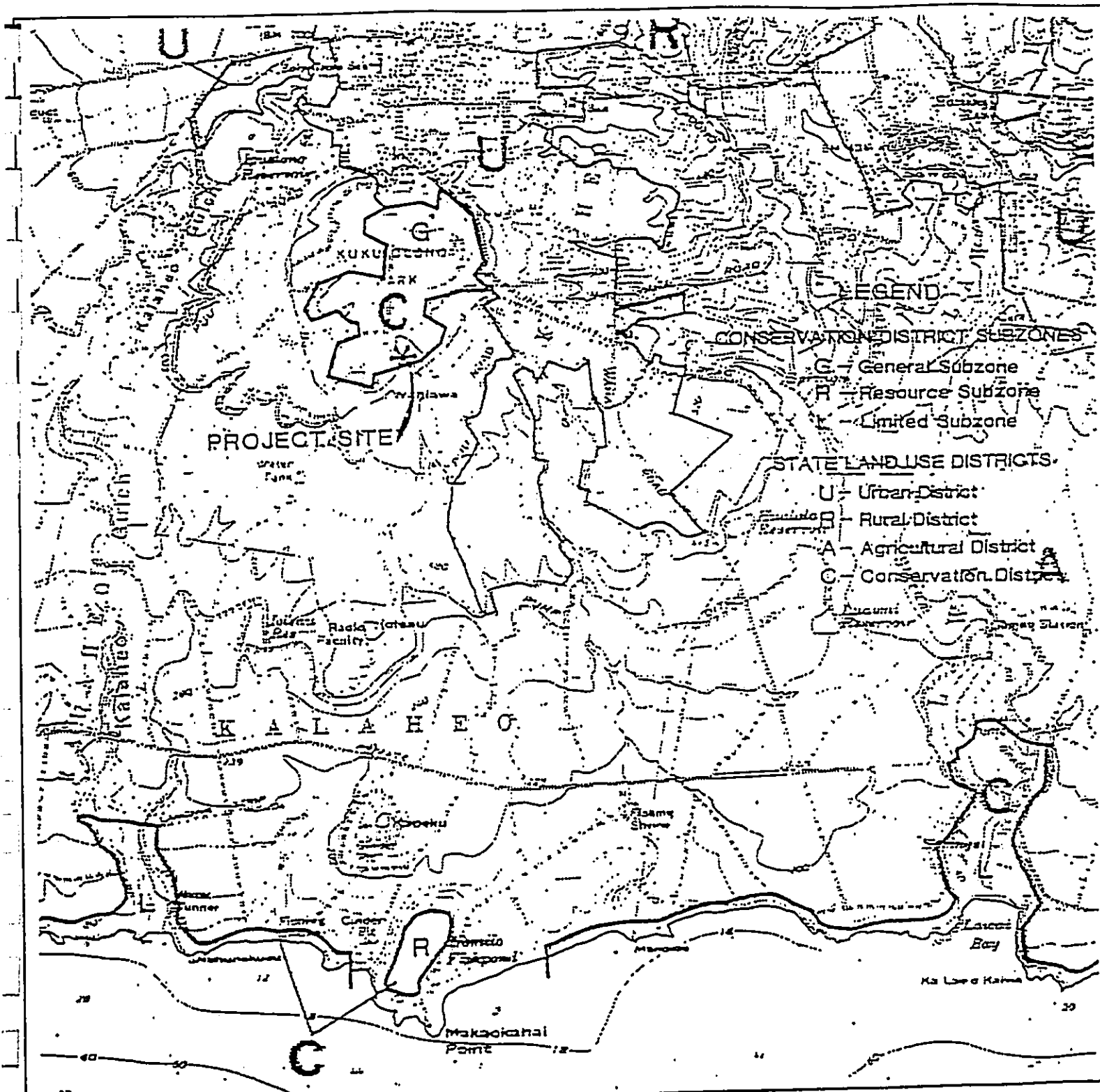
An amendment to Conservation District Use Permit (CDUP KA-2480) is necessary to allow the proposed additional equipment previously described in Section 2, Description of Proposed Action. Subsequently, a building permit may be obtained from the County of Kauai. During the building permit application process, GTEM shall work with Kauai County Planning Department to determine what, if any, color the monopole shall be painted. If deemed necessary, a grading permit will be applied for.

SECTION 9

DETERMINATION

In accordance with Chapter 343, Hawaii Revised Statutes, it has been determined that an Environmental Impact Statement is not required for the proposed and existing improvement at the project site. A negative declaration is therefore appropriate since the project is anticipated to have no "significant effect" on the environment in accordance with the EIS Rules. The determination is based on the mitigation of any adverse impacts and that the technical, economic and social benefits far outweigh the minimal adverse environmental impacts.

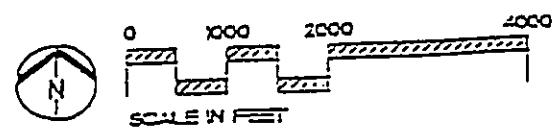




STATE LAND USE DISTRICTS AND CONSERVATION SUBZONES MAP

CELLULAR TELEPHONE TRANSMISSION FACILITY
Kukuiohono, Kauai

FIGURE 2



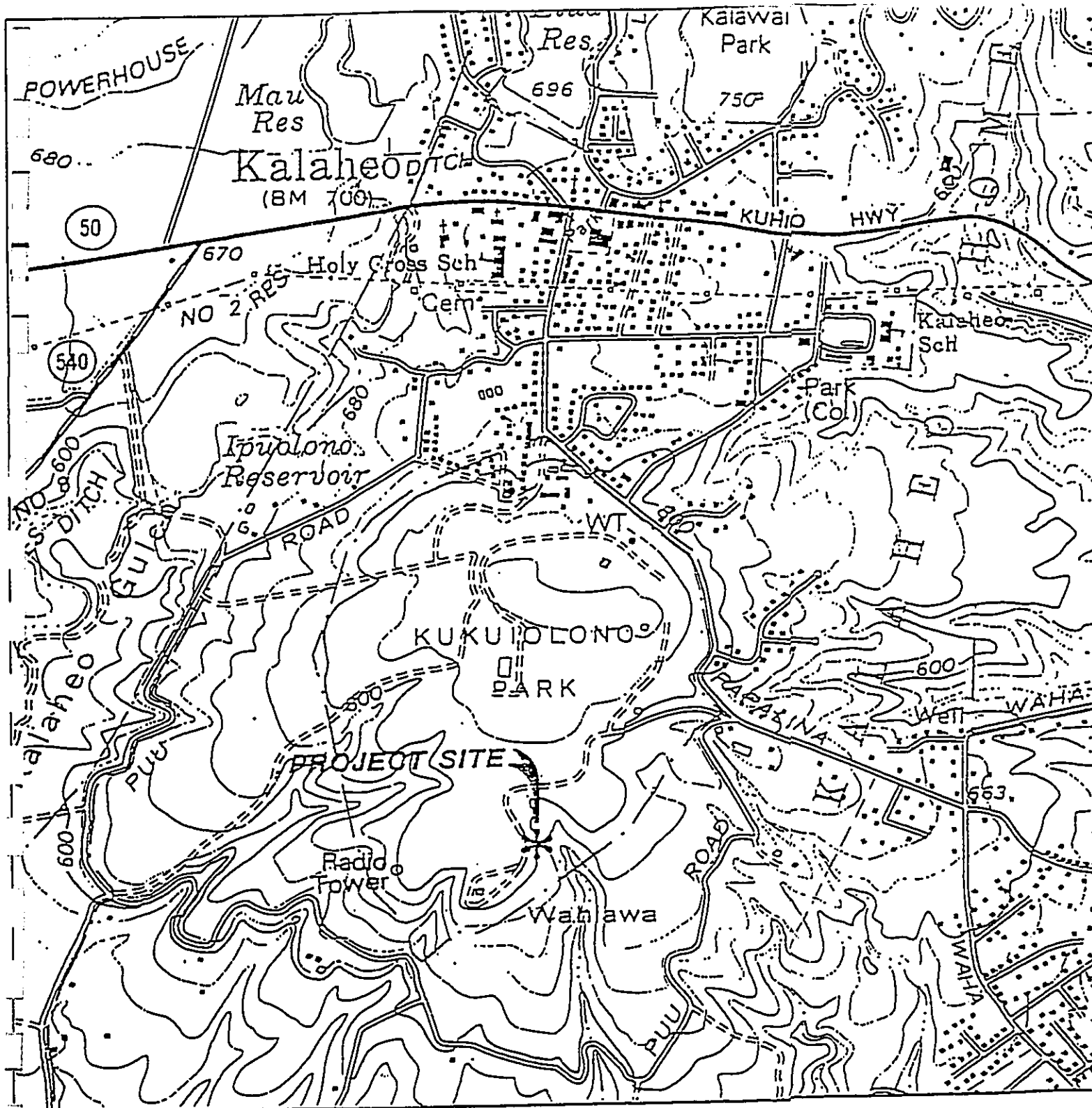
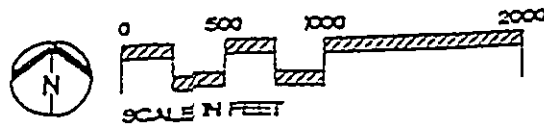


FIGURE 4
VICINITY MAP
 CELLULAR TELEPHONE
 TRANSMISSION FACILITY
 Kukuioleono, Kauai



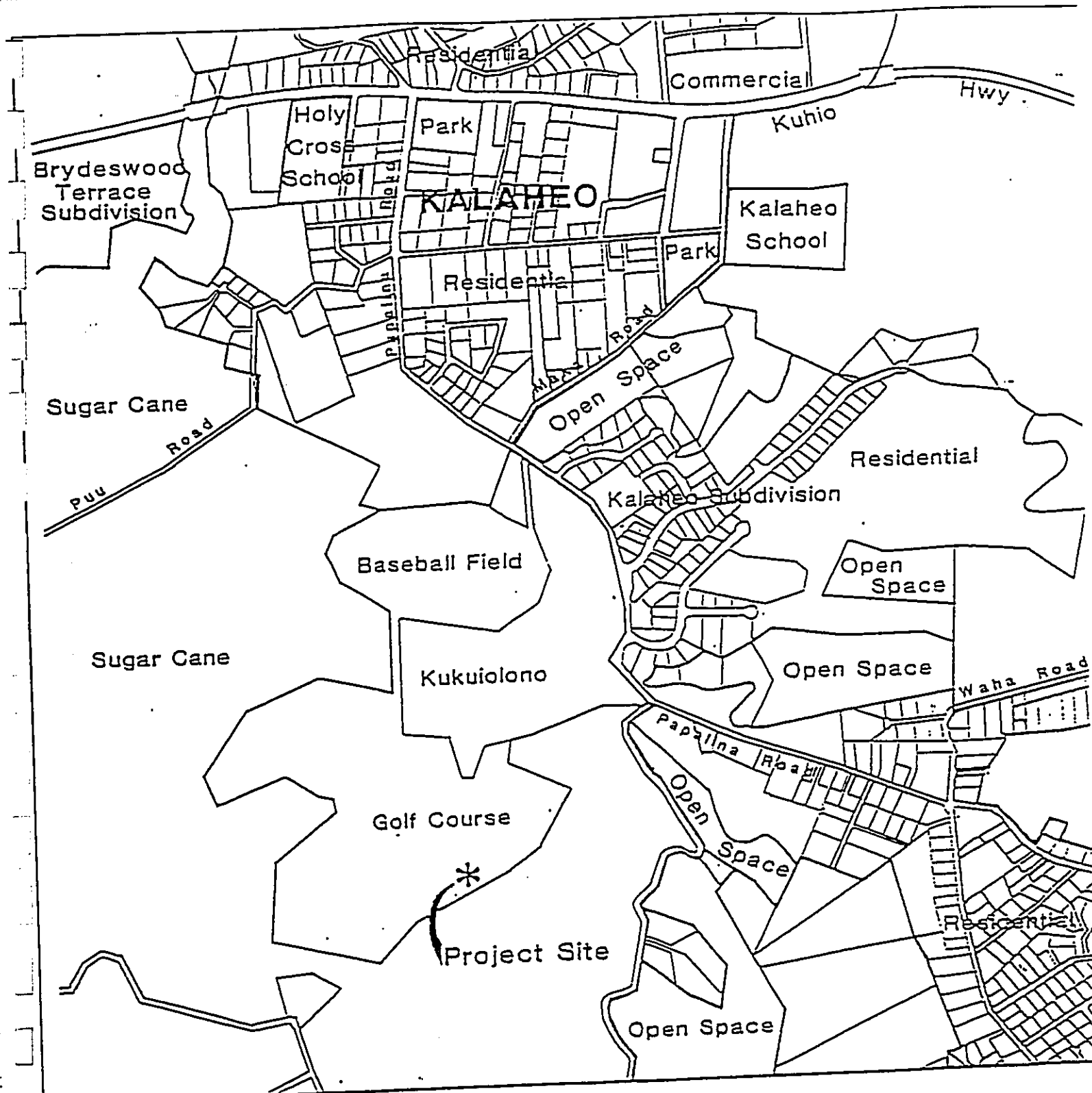
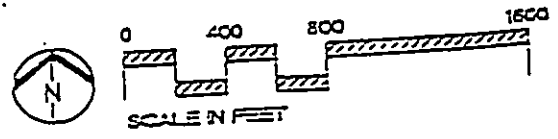


FIGURE 5
EXISTING USES
 CELLULAR TELEPHONE
 TRANSMISSION FACILITY
 Kukuiolono, Kauai



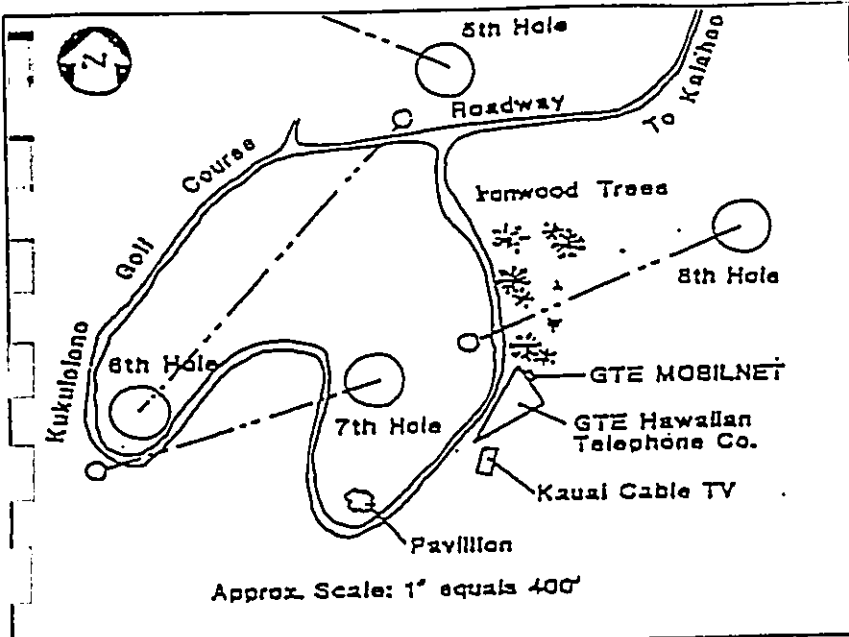
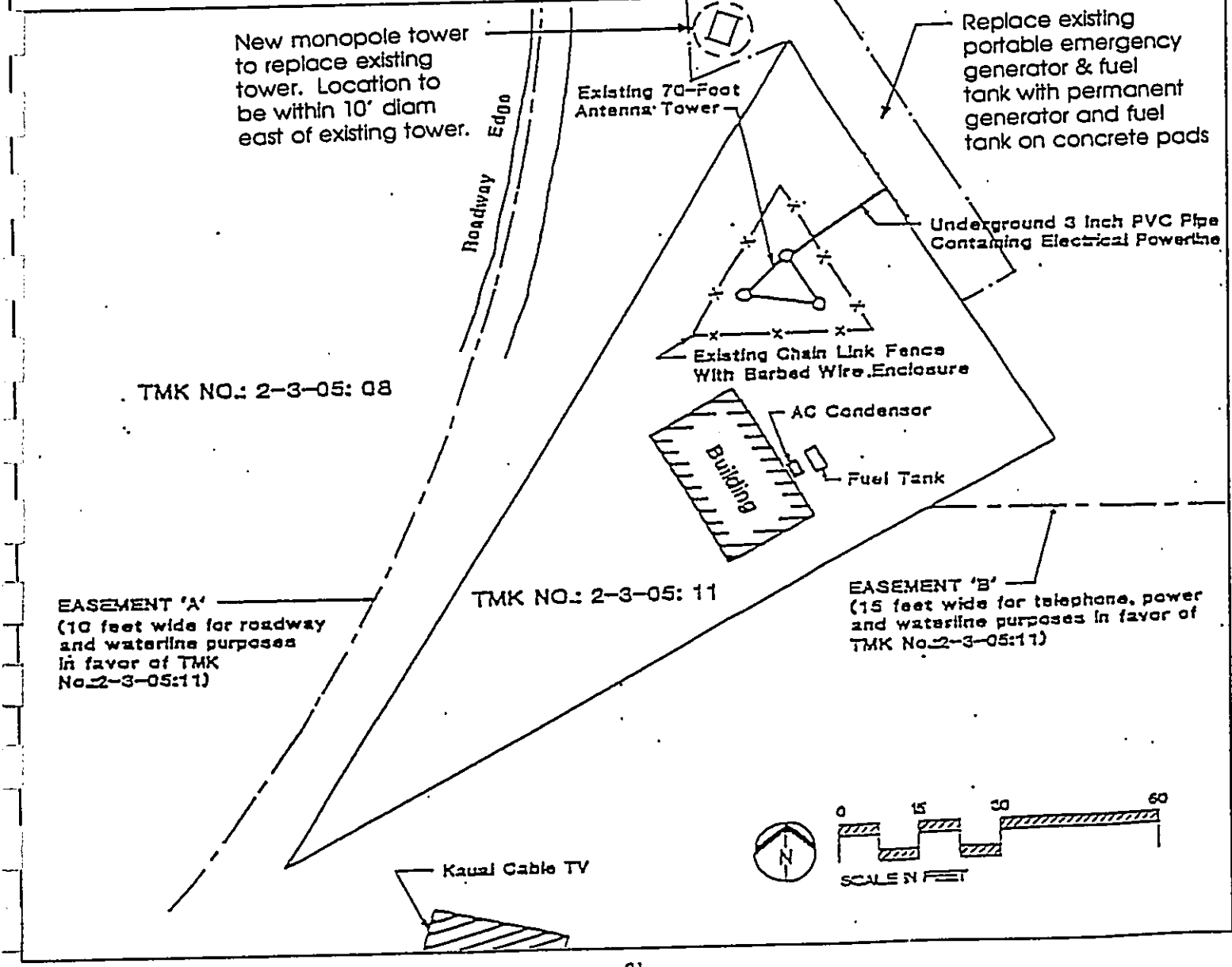
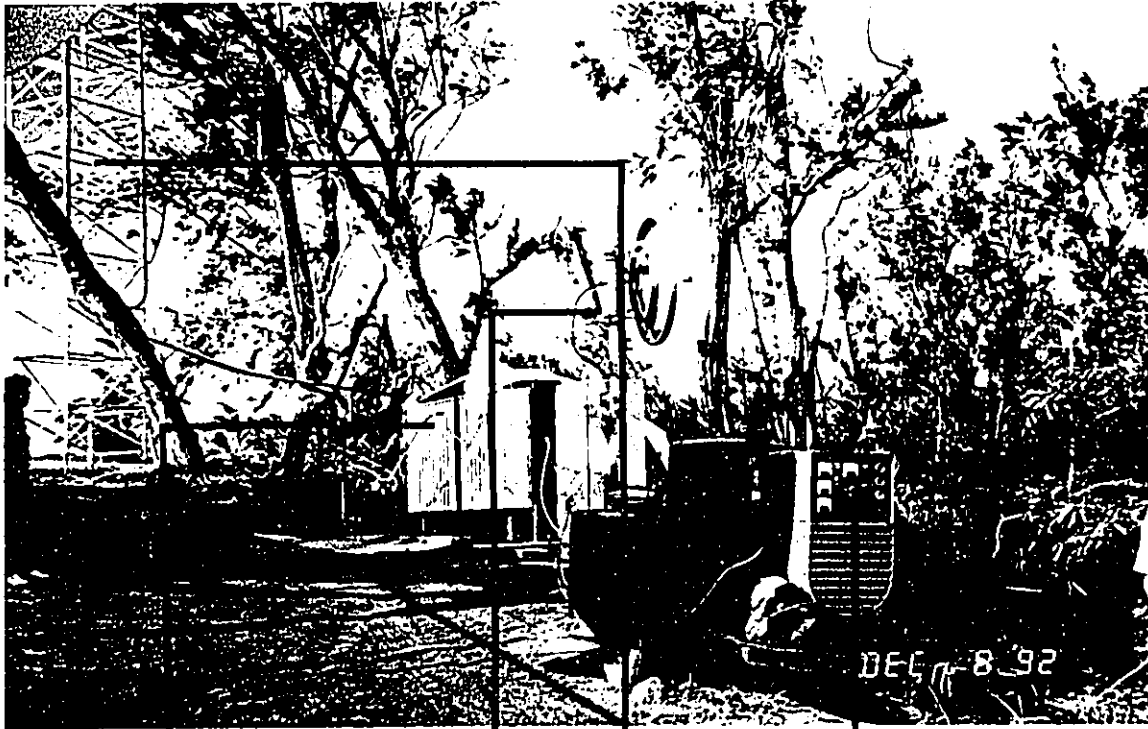
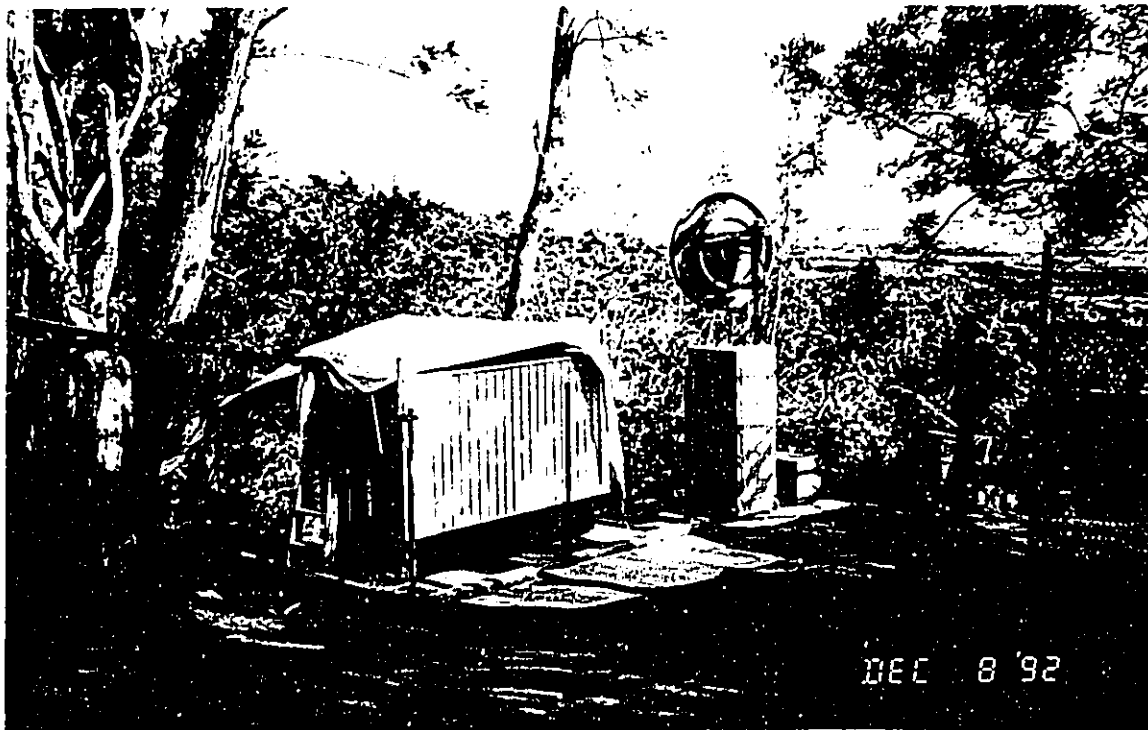


FIGURE 6
SITE PLAN
MICROWAVE REPEATER
STATION
 CELLULAR TELEPHONE
 TRANSMISSION FACILITY
 Kukuiaho, Kauai



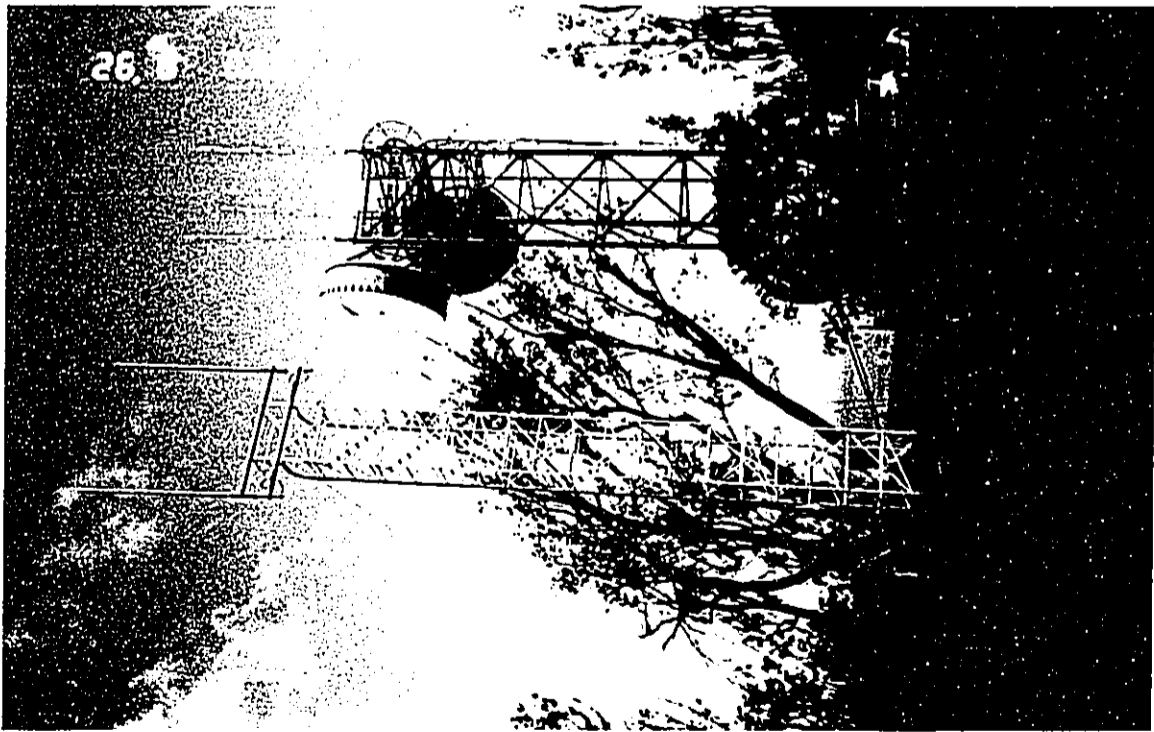


Kukuiolono - Compact base station. MW Dish, temporary tower, generator.

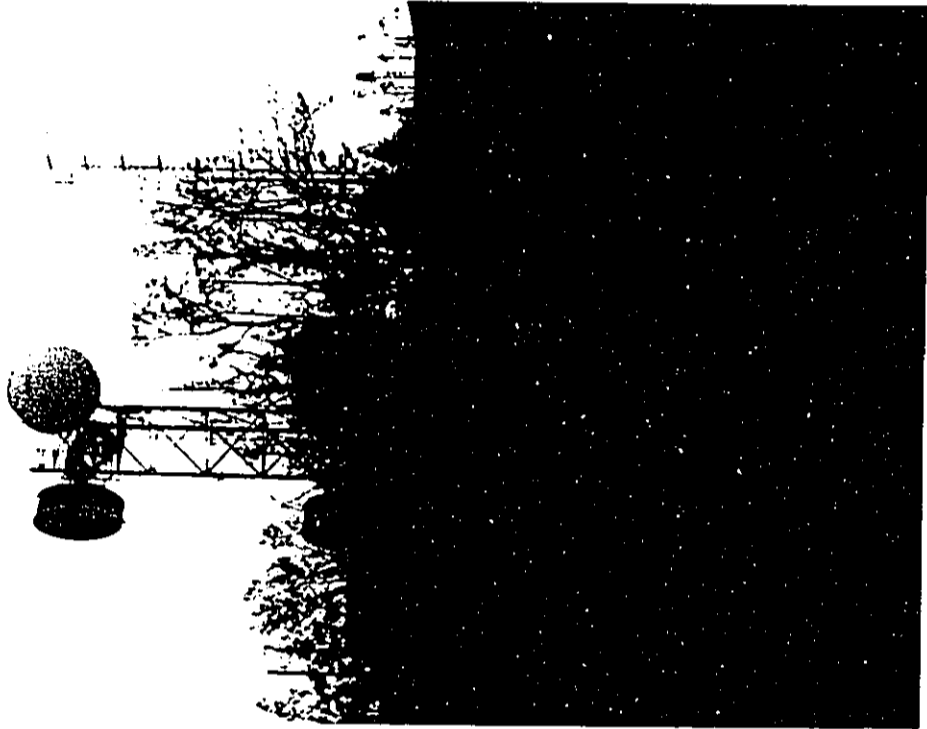


Kukuiolono - MW dish facing Grove Farm.

FIGURE 7

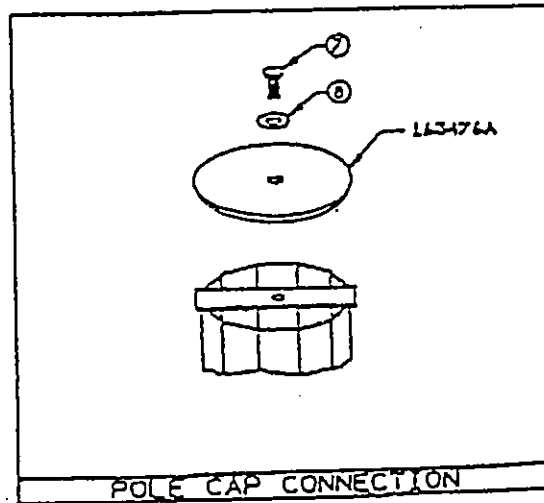
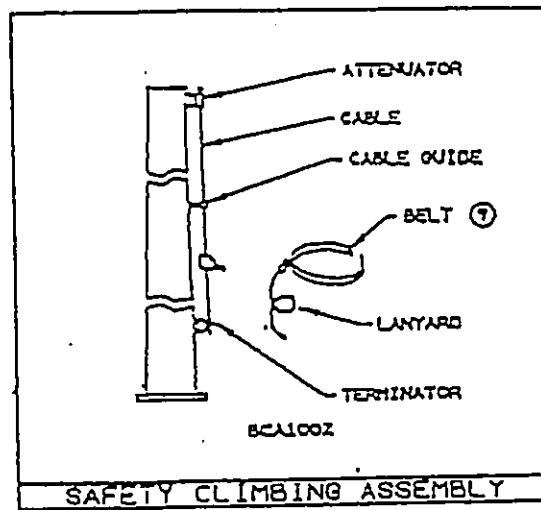
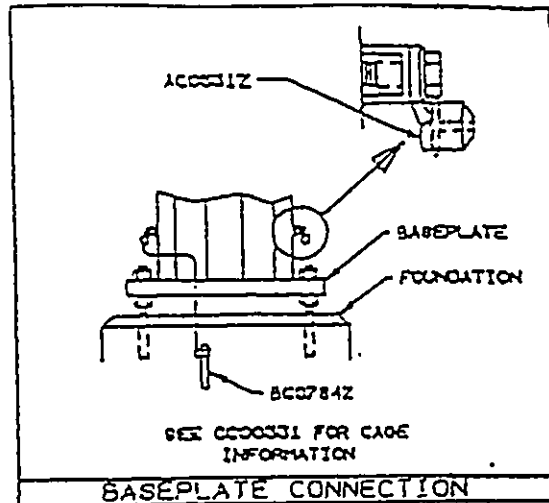
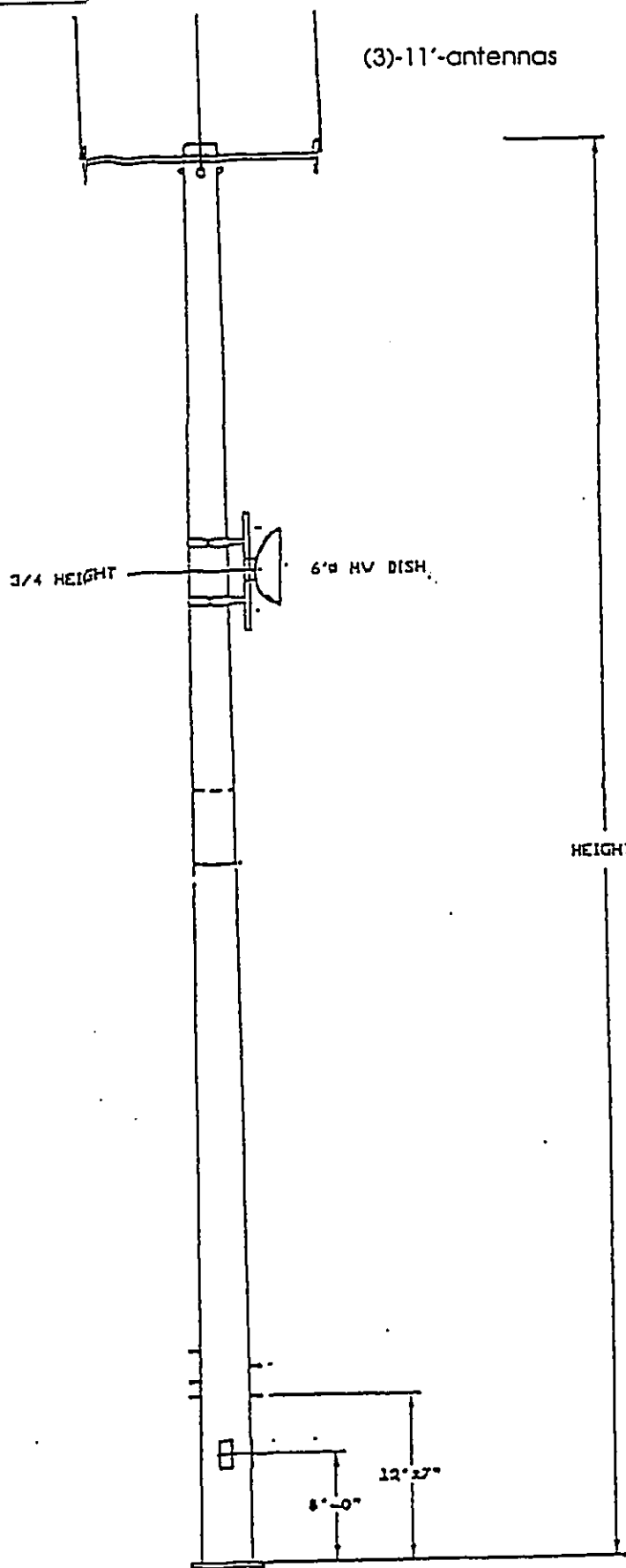


Kukuiolono
White temporary tower.
Hawaiian Tel tower to right.



Kukuiolono
View from across gulch.

FIGURE 8



Proposed 80'-foot monopole tower with three-11-foot antennas

FIGURE 9

WRITTEN COMMENTS FROM AGENCIES WHO REVIEWED
"DRAFT" ENVIRONMENTAL ASSESSMENT DATED MARCH 4, 1994



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

P. O. BOX 621
HONOLULU, HAWAII 96809

KEITH W. AMUE, CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES

DEPUTES
JOHN P. KEPPELER II
DONAL L. HANA'IKE

AQUACULTURE DEVELOPMENT
PROGRAM
AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
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CONSERVATION AND
RESOURCES ENFORCEMENT
CONVEYANCES
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
LAND MANAGEMENT
STATE PARKS
WATER AND LAND DEVELOPMENT

REF:OCEA:BKW

JUL 8 1994

File No.: KA-3/4/94-2480A
DOC. ID.: 4656

Mr. Benjamin Q.T. Woo, AIA
Gima Yoshimori Miyabara Deguchi Architects, Inc.
1357 Kapiolani Boulevard, Suite 1230
Honolulu, Hawaii, 96814

Dear Mr. Woo:

SUBJECT: Comments on Draft Environmental Assessment (DEA): Modifications
to GTE Mobilnet's Microwave Repeater Station (Cellular Phone)
Antenna and Associated Equipment, Kukuiohono, Kauai,
TMK: 2-3-05: por. 8

Enclosed are the agency comments received during the 30-day review period
which ended on May 23, 1994.

We note that the Historic Preservation Division commented that the project
area appears to have been heavily impacted. Therefore, they believed that
the project will have "no effect" on significant historic sites. Our
Division of State Parks also recommended that the applicants consider
painting the facilities green and/or include vertical plantings such as
Norfolk pines to mask the structures.

These comments and any appropriate responses should be included in the
Final Environmental Assessment (FEA). The FEA should be filed with our
office by July 18, 1994.

Thank you for your cooperation on this matter.

If you have any questions, feel free to contact Steve Tagawa of our Office
of Conservation and Environmental Affairs at 587-0385.

Very truly yours,

D. Horuchi
for

ROGER C. EVANS, Administrator
Office of Conservation and
Environmental Affairs

Enclosures

cc: Anita Seyer, GTE Mobilnet-Hawaii

JOANN A. YUKIMURA
MAYOR



COUNTY OF KAUAI
PLANNING DEPARTMENT
4444 RICE STREET, SUITE 473
BUILDING "A"
LIHUE, KAUAI, HAWAII 96766

~~XXXXXXXXXX~~
PLANNING DIRECTOR
DEE M. CROWELL
~~XXXXXXXXXX~~ PLANNING DIRECTOR
TELEPHONE (808) 241-6677
FAX (808) 241-6699

Keith W. Ahue
State of Hawaii
Department of Land and Natural Resources - OCEA
P. O. Box 621
Honolulu, HI 96809

April 20 1994
DLNR
OCEA

94 APR 22 PM 1:20

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Attention: Steve Tagawa

Subject: Conservation District Use Application KA-2480A
Cellular Telephone Repeater Station
TMK:2-3-05: por 8
Kukuiofono, Kauai

Thank you for the opportunity to comment on the above referenced application. The project site is not located within the County of Kauai Special Management Area (SMA) and therefore an SMA Permit will not be required.

However, we are concerned with the increasing number of antennas, towers and related equipment being constructed in close proximity to popular recreational areas. The tall towers and antennas are visible from various locations and may detract from the scenic qualities of the area. The impacts may be compounded when, as is the case in Kukuiofono, there are several such structures in the vicinity.

In the future, if groupings of antennas, towers and related equipment are expected to be located in the same area, it may be more appropriate to site them away from recreational areas. In the current application the applicant should consider painting the tower and associated equipment to blend with the surroundings to reduce any visual impacts.

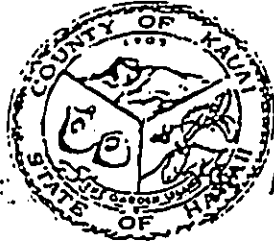
Please contact George Kalisik at 241-6677 if you have any questions.

Sincerely,

Keith Nitta,
Acting Deputy Planning Director

Joann A. Yukimura

JOANN A. YUKIMURA
MAYOR



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APR 23 AM 9:27

COUNTY ENGINEER
TELEPHONE 241-6600

EDMOND P.K. RENAUD
DEP. COUNTY ENGINEER
TELEPHONE 241-6600
FAX 241-6604
PW4.170

EQUAL OPPORTUNITY EMPLOYER
COUNTY OF KAUAI
DEPARTMENT OF PUBLIC WORKS
3021 UMI STREET
LIHUE, KAUAI, HAWAII 96766
DLNR
OCEA

STATE OF HAWAII
April 15, 1994

State of Hawaii
Department of Land and Natural Resources
P.O. Box 621
Honolulu, HI 96809

Attention: Mr. Steve Tagawa

Gentlemen:

SUBJECT: CONSERVATION DISTRICT USE APPLICATION KA-2480A,
MODIFICATION OF A MICROWAVE REPEATER STATION
ANTENNA AND EQUIPMENT MODIFICATIONS
TMK: 2-3-5:8

Thank you for the opportunity to review the subject application.

We wish to point out that GTE's proposed work may require a grading permit, depending on the extent of earth moving work required to develop a pad for the generator and fuel tanks. GTE should check with us during its plan preparation stage.

Please feel free to contact Mr. Wallace Kudo of my staff at 241-6615 if there are questions regarding our comments.

Very truly yours,

ED RENAUD
Deputy County Engineer

WK/mc

John
JOHN WAIHEE
GOVERNOR



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
869 PUNCHBOWL STREET
HONOLULU, HAWAII 96813-5097

May 19, 1994

REX D. JOHNSON
DIRECTOR
DEPUTY DIRECTORS
KANANI HOLT
GLENN M. OKIMOTO
JOYCE T. OMINE
CALVIN M. TSUDA

IN REPLY REFER TO:
STP 8.6021

TO: The Honorable Keith W. Ahue, Chairperson
Board of Land and Natural Resources

FROM: Rex.D. Johnson
Director of Transportation

Rex D. Johnson

SUBJECT: Conservation District Use Application, File No. KA-3/4/94-2480A
Replacement of Temporary Microwave Repeater Station (Cellular Phone)
Antenna and Equipment Modifications GTE Mobilnet - Hawaii Region
Kukuiolono, Koloa, Kauai, TMK: 2-3-05: por. 8

GTE Mobilnet's request to replace the existing temporary 60-foot microwave tower and associated equipment on Conservation Land at Kukuiolono, Koloa, Kauai, will not have an impact on our transportation facilities.

We appreciate the opportunity to provide comments.

DLNR
OCEA

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JOHN WAIHEE
GOVERNOR OF HAWAII



JOHN C. LEWIN, M.D.
DIRECTOR OF HEALTH

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'94 JUN 3 PM 3:27

STATE OF HAWAII
DEPARTMENT OF HEALTH
P. O. BOX 3378
HONOLULU, HAWAII 96801

DLNR
OCEA

In reply, please refer to:

STATE OF HAWAII
DEPARTMENT OF HEALTH

JUN 3 1994

94-0672epo

May 27, 1994

To: The Honorable Keith W. Ahue, Chairperson
Department of Land & Natural Resources

From: John C. Lewin, M.D. *John C. Lewin*
Director of Health

Subject: Conversation District Use Application

Application: GTE-Mobilnet - Hawaii Region
File No: KA-3/4/94-2480A
Request: Cellular Telephone Transmission Facility
Location: Kukuilono, Kaua'i
TMK: 2-3-5: por. 8

Thank you for allowing us to review and comment on the subject request. We do not have any comments to offer at this time.

c: Hazard Evaluation and Emergency Response
Kauai District Health Office

REFERENCES

1. Hawaiian Telephone Company, Environmental Impact Assessment for the Oahu-Maui Digital Microwave System, Oahu-Hawaii Digital Microwave System, Oahu-Kauai Digital Microwave System, prepared by R. M. Towill Corporation, 1985.
2. State of Hawaii, Data Book 1989, Department of Business and Economic Development, November 1989.
3. State of Hawaii, Chapter 2 of Title 13, Administrative Rules, entitled Conservation Districts.
4. State of Hawaii, Title 11, Chapter 200, Environmental Impact Statement Rules.
5. U.S. Department of Agriculture, Soil Conservation Service, Soil Survey of the Islands of Kauai, Oahu, Maui, Molokai, and Lanai, State of Hawaii, August 1972.
6. University of Hawaii, Department of Geography, Atlas of Hawaii, 2nd Ed., University of Hawaii Press, 1983.
7. Conservation District Use Permit (CDUP KA-2480), Environmental Assessment Cellular Telephone Transmission Facility, Kukuioolono, Kauai, September 27, 1991.