

Kalaheo Greenwaste Recycling Facility

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BENJAMIN J. CAYETANO
GOVERNOR OF HAWAII



MICHAEL D. WILSON
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
DEPUTY
GILBERT S. COLOMA-AGARAN

REF:OCEA:SL

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

RECEIVED

DEC 14 P1:15

OFFICE OF ENVIRONMENTAL
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FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
LAND MANAGEMENT
STATE PARKS
WATER AND LAND DEVELOPMENT
WATER RESOURCE MANAGEMENT

In reply, please refer
to File No.: OA-2785

DEC 13 1995

MEMORANDUM

TO: Mr. Gary Gill, Director
Office of Environmental Quality Control

FROM: Michael D. Wilson, Chairperson *Gilbert S. Coloma-Agaran for*
Board of Land and Natural Resources

SUBJECT: Negative Declaration for the Kalaheo Greenwaste Recycling
Facility at Kailua, Oahu, TMK: 4-2-15: por. 9

The Department of Land and Natural Resources has reviewed the comments received during the 30-day public comment period which began on October 8, 1995. We have determined that this project will not have significant environmental effect and have issued a negative declaration determination. Please publish this notice as soon as possible in the OEQC Bulletin.

We have enclosed a completed OEQC Bulletin Publication Form and four copies of the final EA. Please contact Sam Lemmo of our Office of Conservation and Environmental Affairs, at 587-0435, should you have any questions.

Attachments

xc: Charles R. Tasker

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JAN 8 1996

1996-01-08-0A-~~FEA~~ Kaleheo Greenwaste Recycling Facility

FILE COPY

**Final Environmental Assessment
Kaleheo Greenwaste Recycling Facility**

Prepared for

**Charles R. Tasker
dba Oahu Tree & Stump Removal Experts
P.O. Box 26176
Honolulu, HI 96825**

Nov. 30, 1995



We combine skill and craft with knowledge and fact.

OAHU TREE & STUMP EXPERTS

July 14 1995

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

Dear Director:

RE: REQUEST FOR WAIVER OF ENVIRONMENTAL ASSESSMENT BASED
ON CHAPTER 343 HRS S11-200-8 CLASS 1 AND 4

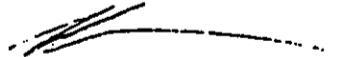
The intended use of land T M K 4-2-15 - 9 will be to receive and re-cycle wood and Greenwaste materials under the guidelines set by the Department of Health State of Hawaii.

We anticipate this recycling station will not have any significant impacts on the environment for reasons below.

1. The previous approved use for this site was a landfill.
2. The materials received will consist only of materials previously received and using methods approved by the Health Dept.
3. There will be no alterations in the conditions of the land , water , or vegetation .
4. The only minor addition to the existing structure will be an above ground scale and office trailer.
5. The land will be left in its original state at the completion of this operation.

Please see exhibit 7 of this draft E A .

Thanking you in advance for your consideration of this waiver and if I can be of any further assistance please call.


Charles R Tasker
Oahu Tree Experts

1) City put out to bid GWRP
at Kalaeo landfill. Oahu Tree
and Stump Experts won the bid.

2) CONCERNS

1) Kalaeo Landfill is being closed.
This project must not interfere with
closure plans.

2) odor - Proper management should
minimize odor problem. Plus
only green waste will be
taken.

3) All comments addressed.

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1.0 INTRODUCTION

This environmental assessment (EA) is prepared pursuant to Chapter 343, Hawaii Revised Statutes (HRS), and associated Title 11, Chapter 200, Department of Health (DOH) Rules. The proposed action is not an agency action, and does not involve expenditures of any government funds. Land is owned by the City And County Of Honolulu, within the Conservation District.

The proposed action assessed herein is the operation of a Greenwaste Recycling Facility. The recycling facility is a facility that would include the processing of greenwaste into a reuse product. The facility is to be located at the closed Kalaheo Sanitary Landfill Kailua, Koolaupoko, Oahu, Hawaii.

2.0 DESCRIPTION OF THE PROPOSED ACTION

2.1 General Description

The City and County of Honolulu has offered a ten acre lease site out for public bid to operate a Greenwaste Reclamation Facility at the now closed Kalaheo Sanitary Landfill. Charles R. Tasker/dba Oahu Tree and Stump Removal Experts was the successful bidder and is the applicant for this land use.

The ten acre lease site is located within a 134.10 acre parcel described as TMK 4-2-15:9. This ten acre site is located in the General and possibly part of the Limited subzone of the Conservation District. The purpose of this project is to create a well managed Greenwaste recycling facility on the windward side of Oahu to reduce the cost of transportation of greenwaste, to assist in the state waste reduction goals of 25 percent by 1995 and 50 percent by year 2000 in accordance with the Hawaii Integrated Solid Waste Management Act (State Act 324) and to assist in faster handling of green waste during hurricanes and tsunamis which are detrimental to public health, safety and welfare of the general public on the island of Oahu.

2.2 Project Description

Greenwaste will consist of trees, stumps, branches, leaves, grass, etc., no hazardous waste will be accepted and greenwaste mixed with litter will be refused. The greenwaste will be received at the facility from tree trimming contractors,

Description of Proposed Action

City and County Transfer Stations, and the general public

Trucks will enter the facility from the asphalt access road from Kapaa Quarry to the scale house located in the southeast portion of the facility. At this time, trucks proceed to the proposed site via 24 feet wide gravel bench road owned by DPW, at the 240-250 elevation point there will be an all weather surface to unload ten trucks at once. The materials then will be taken to the grinding site for reduction in size, after reduction by grinding, materials will then be transported to the compost area or sent off site for use as bio-fuel and or fresh mulches.

Composting will occur on a composting pad approved by DOH consisting of compacted clay and or base suitable for turning of windrows of compost to control temperature and odor. At this time, added materials of urea will be applied if needed to control nitrogen ratio . This is an all weather pad for the use of equipment to operate without the environmental effects of surface soil disturbance and the creation of mud.

This composting period will take several weeks, turning of the compost will be as needed to control vector, release heat and gases generated by the compost process, to supply oxygen to the compost, and to control odor.

Description of Proposed Action

Approximate fifty percent moisture content will be maintained to help prevent risk of fire and leachate, if moisture content rises, raw materials will be added, or covering to control proper moisture.

After composting is nearly complete this material will be transported to the curing pad approved by DOH for soil management. Curing time is approximately 30 days or until the compost is ready for use, by this time the compost will have a soil like aroma.

Material then will be moved to the storage area until sent to farms, nurseries and landscapers.

In addition, to the above mentioned technical plan, wood having cultural or recreational value for carving or cooking will be separated and neatly stored in storage area waiting delivery.

This site has been designed by the DPW to prevent water run on, an earthberm as suggested by the DOH will be added to the water run off sides of the site. All material in the receiving area will be processed for size reduction on an ongoing basis to prevent large flying objects during severe winds. In the event of a hurricane warning, all received materials that cannot be reduce will be covered with netting and staked.

Description of Proposed Action

Areas needed for operation of equipment during adversed weather will have an all weather surface approved by DOH and DPW. Grinding operations will be suspended during high winds and a water tanker will be available for dust control.

2.3 Hazardous Waste Exclusion

Incoming loads to the facility will be visually inspected for unacceptable items, including hazardous waste, petro products and litter. If unacceptable items are found in a load, the facility operators will not accept the load and will require the transporter to remove the waste from the site and dispose of it properly. The facility operators will have a list of facilities with addresses that will accept materials which the facility will not accept.

2.4 Ancillary Facilities

In addition to the areas required for processing greenwaste, a mobile office, above ground truck scale, equipment storage area, and all weather parking area will be located at the existing maintenance shed along the southeastern boundary of the parcel.

2.5 Waste Reduction Programs

Hawaii state law requires all counties to divert 25 percent of the waste generated within the county away from landfill disposal by 1995 and 50 percent by 2000. Operating of the proposed facility can help achive these goals.

3.0 DESCRIPTION OF THE AFFECTED ENVIRONMENT

3.1 Physical Characteristics

3.1.1 Locations

The proposed facility will be located in the Kapaa Valley at the previous Kalaheo Sanitary Landfill site. The surrounding uses are Kapaa Quarry, Ameron Concrete, Hawaiian Bitumuls Asphalt, All Pool And Spa Construction, and the city's Kapaa Quarry Landfill and Transfer Station.

The land for the proposed facility is owned by the City And County of Honolulu TMK 4-2-15 9, Utilities are located at the existing maintenance shed at the southeast boundary. All but the southeast boundary of the facility is surrounded by heavy vegetation and steep terrain ranging from 100' to 500' (exhibit 1).

3.1.2 Climate and Air Quality

The island of Oahu is semitropical environment. Annual rainfall measured at the Kailua Fire Station is appr 40 inches of rain per year. Temperatures at the proposed site average between 67.5 degrees Fahrenheit low and 80.5 degrees high. Winds are predominantly out of the northeast averaging 8 knots gusting to 18 knots as reported by Kaneohe Marine Air Station.

Air quality measured at Waimanalo, Oahu by the Hawaii DOH Clean Air Branch in 1990 is total suspended particles in the air range between 11-34 micrograms per cubic meter.

Description of the Affected Environment

3.1.3 Topography and Soils

The proposed facility will be located over the closed pit of Kalaheo Sanitary Landfill. The closure required a landfill cover of polyurethane, above the membrane is a 6" layer of silty clay from on site mixed with sand and gravel imported from the Ameron Pit. However Geolabs Hawaii is running test to evaluate another material (Basalt Dust) for replacement of the 6" layer.

The 2' soil on top of the layer will be silty clay from on site, capped with 6" of top soil. This will allow the surface of the facility to remain at the 250' elevation gently sloping to 240' elevation.

The Ancillary facility is located at the 90' elevation level at the southeast portion of the parcel which consist of silty clay compacted gravel and concrete slab.

3.1.4 Flood Hazard

According to Flood Insurance Rate Map (FIRM) of the Federal Emergency Management Agency (FEMA) the proposed facility is in the Zone D, which is undetermined flood area.

However being located at the 240'-250' elevation level, this facility should be safe from flood levels. As well as the 90' elevation of the Ancillary Facility.

3.1.5 Water Quality

Description of the Affected Environment

3.1.5.1 Surface Water

The nearest surface water is the Kawainui Swamp located over three thousand feet to the east. The facility has a concrete drainage channel constructed along the north and west sides at the base of the mountainside to divert water flow from entering facility. We believe with our proposed use there will be no significant impacts to surface waters.

3.1.5.2 Marine Waters

The facility is approximately 6,000 feet from Kaneohe Bay and is separated by 700 feet of mountain.

3.1.5.3 Groundwater

There is no groundwater beneath the facility due to the existence of the landfill cover.

3.1.6 Flora and Fauna

3.1.6.1 Flora

The proposed facility area is the closed Kalaheo Sanitary Landfill Pit. The pit has been filled to the 250' elevation level and capped with newly located soil, any flora that existed has been cleared.

We do not expect any rare or endangered plants in the surrounding community to be affected by our proposed use.

3.1.6.2 Fauna

Construction of the previous landfill, operation,

Description of the Affected Environment

and closure has resulted in native bird species relocating into forest areas away from the facility location. The only mammals recently seen in the area of the facility are field mice and mongoose.

We do not foresee any adverse impact on the fauna in the surrounding community with this proposed use.

3.2 Social and Economic Characteristics

3.2.1 Noise

Noise generated by the recycling operation and the small number of vehicles entering and exiting the site is expected to be minimal compared to the current noise levels in the vicinity of the site, which are high due to vehicular traffic on H-3 and Mokapu Saddle Road.

The noise generated by the facility is expected to be similar to or less than the noise generated by the existing operations in the area.

It is further expected that the nominal noise generated by the facility would not effect its immediate environs, which are comprised of Kapaa Quarry over 2,000 feet to the southwest, and H-3 Freeway over 1,000 feet to the southeast and 200 feet lower in elevation.

3.2.2 Aesthetics

Description of the Affected Environment

The current use of the site is the closed Kalaheo Sanitary Landfill with gas extraction wells. The surrounding land uses include a rock quarry, asphalt recycling, and a city landfill.

The addition of the proposed facility is compatible with the surrounding uses and should not result in a significant change in the aesthetics of the area. In addition the existing mountainsides serve for a natural buffer from residential areas.

3.2.3 Land Ownership and Use

This facility will be located on land owned by the City And County Of Honolulu. Leased to the applicant for the sole purpose of operating a Greenwaste Reclamation Facility.

3.2.3.1 Development Plan

The Oahu Development Plan is used to attain the objectives of the County's General Plan, The project area is designated P F (Public Facility) and other public services. This facility will be compatible with the Oahu Development Plan

3.2.3.2 County Zoning

The City And County Of Honolulu has determined this proposed facility will be located in the P-1 (Restricted Preservation District) and is not within it's Special Management Area. However the gravel bench road leading to the facility passes through the urban portion of the parcel within the SMA of the county (exhibit 2).

Description of the Affected Environment

3.2.3.3 State Land Use

This proposed facility will be located within the Conservation District of the State Of Hawaii in the General Subzone.

3.2.4 Historical / Cultural Resources

This facility will be located over the previous pit of the Kalaheo Sanitary Landfill. Any Historical or Cultural Resources that may have been present were most likely removed in the earlier construction of this site (see exhibit 3).

3.2.5 Demography and Employment

The island of Oahu as well as the state of Hawaii is constantly growing in population and employment, though this proposed facility will not have a major effect on this problem it will create approximately 20 new employment positions in the Kailua area when in complete operation.

3.2.6 Traffic and Utilities

Trucks will enter the facility via the asphalt access road from Kapaa Quarry Road. This access road will continue to the entrance to the facility, at this point the facility access road approximately 2,000 feet long will allow ample distance for trucks to enter the scale area without congestion any traffic on Kapaa Quarry Road.

Water, and Electric services are available

Description of the Affected Environment

at the ancillary facility located at the southeast portion of the parcel. Utilities will not be needed at the recycling operation, all equipment is self propelled or generator operated and water will be trucked to the site from the lower portion.

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4.0 PROBABLE IMPACT OF THE PROPOSED ACTION AND MITIGATIVE MEASURES

4.1 General Measures

This greenwaste recycling facility will benefit Oahu for several reasons. First, the facility will help the City divert greenwaste away from their landfill.

Second, the facility will be in operation to assist during hurricanes and tsunamis by excepting greenwaste, leaving more space at the landfill for other emergency debris.

Third, this facility will save tax dollars by reducing the City's trucking cost, at the present time the only existing greenwaste recycling facility is located in Ewa, west Oahu.

Finally, this facility will benefit the general public by giving tree trimmers, general contractors, rubbish haulers, and the general public a facility with easy access from the Pali, Likelike Hwy, and the new H-3 Freeway. Thus reducing the added cost for additional mileage to the westside of Oahu and possibly reducing dumping of greenwaste on state and city roadways, public and private property (see exhibit 4).

4.2 Population and Area to be Served

An estimated 50 percent of Oahu's population will be served by this facility. This accounts for the residents of Honolulu, Windward, east Honolulu and the remaining towns near Honolulu and the windward side.

Probable Impacts of the Proposed Action and Mitigative Measures

4.3 Water Quality

The facility will except only green and non treated wood waste. Putrescible, hazardous waste, litter and trucks with metals will be refused. Leachate will not be possible due to the landfill cover appr 30" beneath the surface.

As an additional measure the received materials will be process on an ongoing basis to prevent composting in the receiving area.

The materials in the composting area will be monitored and moisture content will not exceed 65% to prevent excessive water run off of composting materials.

As part of the Landfill CDUP OA-1752 the City was required to install a perimeter drainage channel around the landfill. This drainage channel will direct water run off into the silt basin installed by the Dpw at the southeast boundary.

An earthberm as suggested by the DOH will be installed between the composting area and the drainage channel, as well as will be a grass area to filter water run-off.

Probable Impacts of the Proposed Action and Mitigative Measures

4.4 Vector and Bird Control

This facility will accept only greenwaste and nontreated wood for composting. The grinding process will be an ongoing process, as a result, consistent, suitable habitats for rodents and other vectors are not likely to exist.

Additionally, due to the nature of the materials excepted, available food source for vectors or birds will be limited or non available. The lack of food source and on going activity of the facility will preclude significant bird or rodent activity.

Vector will be controlled additionally by the high temperature and turning of the windrows of compost. Open containers with standing water will not be allowed at this facility as an extra safeguard against vector.

We believe vector problems will be minimal with our proposed use.

4.5 Litter

This facility will be maintained in an orderly manor at all times, trucks containing other than proper composting material will not be accepted. If paper products or other forms of liter is found it will be promptly collected and properly disposed of. An after hours camera will be installed at the entrance to deter unauthorized dumping.

Probable Impact of the Proposed Action and Mitigative Measures

4.6 Fire

A potential for fire will exist because of the type of material (greenwaste) received and processed at the recycling facility. To mitigate the fire hazard, the received material will be processed on an on going basis.

Monitoring of compost temperature will insure proper turning schedule, turning of compost windrows will supply needed oxygen for heat reduction, moisture content of compost will be maintained at appr. 50%. These guidelines are set by University studies throughout the country for safe composting procedures.

All areas throughout the facility will be maintained to allow easy access for fire fighting equipment, if the need should arise. A water tanker will be on site and the H F D has informed us the Aikahi and the Kailua stations will service the facility if needed.

4.7 Dust

The material received will consist of mostly greenwaste with sufficient moisture content, however for dryer materials water will be added for dust control while processing. Roads will be properly maintained for dust control, if needed water will be applied in drought conditions.

Probable Impacts of the Proposed Action and Mitigative Measures

4.8 Noise

Noise will be generated at the facility by the processing equipment, heavy equipment, and truck traffic.

Present noise levels in the vicinity are not expected to increase significantly. Elevated noise conditions currently at the facility are due to H-3 Freeway, Mokapu Saddle road and other commercial businesses in the area.

Employees working at the facility will be wearing protective hearing equipment as required by O S H A. The mountainsides will serve as a natural sound barrier for the communities of Kailua and Kaneohe.

Noise generated at the facility will be reduced by limiting processing operations to the hours between 7:30 a.m. and 6:30 p.m. except during the event of an emergency due to a atastrophic event such as a hurricane or tsunamis.

4.9 Odor

Decaying wood and leaves if not properly managed would create foul odors. However, under properly managed composting guidelines set by the DOH, composting may be accomplished without creating a foul odor. Our proposed use will be submitted for approval with our application to the DOH.

Putrescible materials will not be accepted at the recycling facility.

Probable Impact of the Proposed Action and Mitigative Measures

4.10 Traffic

Traffic will consist of an estimated 4 trucks per hour during facility operations. The vehicles will turn right from Kapaa Quarry Road to the asphalt access road which will travel to the entrance gate to the facility.

The entrance road is asphalt appr 30 feet wide and continues appr 1500 feet to the scale. This should allow ample distance for trucks to enter the facility without delaying traffic on Kapaa Quarry Road. Using information obtained from the DPW, vehicle traffic should be approximately four vehicles per hour per hour of operation.

4.11 Emergency Operating Procedure

An operations plan will be prepared for this facility, and an emergency response plan will be included. This emergency response plan will be followed if emergency conditions occur at the facility which will require special attention by the facility personnel to maintain operation of the facility and to protect public health.

Facility personnel will be trained to alert themselves to potentially dangerous situations in which they should not become involved (e.g. presence of strong, irritating or nauseating odors).

Probable Impact of the Proposed Action and Mitigative Measures

The facility personnel will also be familiar with areas accessible to people, equipment, and vehicles; communications; areas of known or suspected hazards; site access, and nearest water sources. They will also be familiar with important phone numbers, such as the fire department and emergency medical assistance.

When facility personnel become aware of an emergency situation, the response to the situation should be:

- Assess the conditions and its impact to human lives, public health, and operation of the facility.
- Determine the required response with particular attention to human lives and public health.
- Notify the appropriate personnel, utilities, and regulatory agencies as soon as possible.
- Take corrective action to restore the facility to normal operation and call 911 if applicable.

During prehurricane conditions (once a hurricane watch has been declared), the facility personnel will be required to secure received materials with nets and anchor to the ground, sufficient quantities of the nets will be stored at the facility.

Probable Impact of the Proposed Action and Mitigative Measures

It is important to note that this facility is being designated in this area by the City to help respond with future emergency situations and not to be unprepared for natural disasters. With the development of this facility an area will have been established where the debris can be delivered quickly and in an orderly manner if any natural disaster, such as a hurricane, should occur on Oahu.

4.12 Protection of Public Health

The facility and its equipment will be operated in a manner such that personnel and public health will be protected. The personnel will be trained on the proper site and equipment operating procedures. An operations plan will be available which will be adhered to at all times.

The facility will be secured by a locked gate after hours and a gate monitoring camera. The public will be allowed onsite only during working hours and only under the supervision of operating personnel who will direct traffic, assist the public, and keep the public away from operating equipment.

4.13 Public Input Concerning Public Health and Environment

A public hearing is required for this permit process and there are no residence within 2,000 feet of the facility, all concerns will be address after the public has voiced their comments and suggestions.

ALTERNATIVES TO THE PROPOSED ACTION

5.0 "No Action" Alternative

5.1 Alternatives to operating this facility on this site would be a "No Action" alternative. This site is being offered by the City for the sole purpose of operating this facility, this is the only property available without passing through residential areas or heavy traffic roadways at this time.

If the "No Action" alternative is taken, a facility in the windward area would not be made available for the recycling of Greenwaste; and, thereby, the City would incur extra cost meeting its landfill reduction goals set by the State.

The "No Action" alternative would also make it difficult for the City to meet the required waste diversion rates, and thus, is not recommended.

5.2 Alternative Site Selection

The main objective of this recycling facility is to have a facility to accept greenwaste from the public in a suitable and cost effective location, it is also the City's need to be able to designate hours of operation to coincide with the hours of it's transfer station, and to ensure there is a facility opened to receive greenwaste during emergency situations, this facility will be located on City owned and designated land, thus, achieving this goal. This site will service the largest population area of Oahu.

Alternatives to the Proposed Action

HONOLULU DEPARTMENT OF PUBLIC WORKS

5.3 Best Practical Technology

When the City And County Of Honolulu started it's waste reduction program, it was decided, greenwaste is a major material received at their landfill that could be easily diverted away and recycled to help with it's waste reduction program.

If the City is going to refuse acceptance of greenwaste at the landfill, it must do every thing possible not to put the burden on the general public. Therefore, the City has decided to lease this land as a greenwaste facility because of its convenient access from H-3, Likelike, and the Pali. In addition the closer the facility is to the transfer station the expense of hauling will be greatly reduced to the general public.

The former Kalaheo Sanitary Landfill site would best serve as this recycling operation, because of its location to the major highways connecting the windward side to all of Honolulu and surrounding areas. When Oahu is hit by a hurricane, the need for this centrally located recycling facility is going to be far greater than any adverse impact it may create.

6.0 SIGNIFICANCE CRITERIA AND DETERMINATION

In accordance with the environmental assessment procedure, operation of the proposed recycling facility does not have significant adverse effects on the environment, as follows:

- * Involves a loss or destruction of any natural or cultural resource. There are no known natural or cultural resources on this cleared site. (see exhibit 3 CDUA)
- * Curtails the range of beneficial uses of the environment. The proposed facility located near the existing City's transfer station is on conservation land, but is county zoned public facility (see exhibit 5)
- * Conflicts with the states long term environmental policies or goals and guidelines. The proposed facility will comply with state guidelines and regulations for recycling facilities and will assist the county in achieving waste diversion goals, as set by the state legislature.
- * Substantially affects public health. The proposed facility will be designed and operated in accordance with DOH's guidelines and regulations with the intent to protect public health and the environment.
- * Involves a substantial degradation of environmental quality. The proposed facility will reduce the quantity of waste disposed of at the landfill and will promote recycling and reuse (see exhibit 6) and (reducing use of virgin natural resources).

Significance criteria and determination

***Is individually limited but cumulatively has considerable effect on the environment, or involves a commitment to larger actions.**

The only other action that may be required to make this action successful may be educating residents and businesses to support this new approach to solid waste management.

***Substantially affects a rare, threatened or endangered species or its habitat. There are no known rare, threatened or endangered species or habitat currently existing at the site. This site has been cleared of all vegetation.**

***Detrimentially affects air or water quality or ambient noise levels. The proposed facility and operation will be designed to control and direct stormwater around and away from the stored materials. Any water discharged offsite and into state waters will be in accordance with NPDES regulations. Dust and noise can be controlled by use of water trucks and mufflers.**

***Affects an environmentally sensitive area, such as a flood plain, tsunami zone, erosion prone area, geologically hazardous land, estuary, freshwater area, or coastal waters. The recycling facility is not within the flood plain or tsunami zone. The proposed project will be designed to reduce impact on surface waters from stormwater originating from the site and will be monitored in accordance with state and federal regulations if any discharge occurs.**

Significance criteria and determination

On the basis of the above criteria, comments received from agencies, and subsequent discussions with some of these agencies, we anticipate that the proposed facility will not have a significant adverse effect on the environment. Thus, the City And County Of Honolulu Department Of Public Works provides a negative declaration on the operation of the proposed facility.(see exhibit 7)

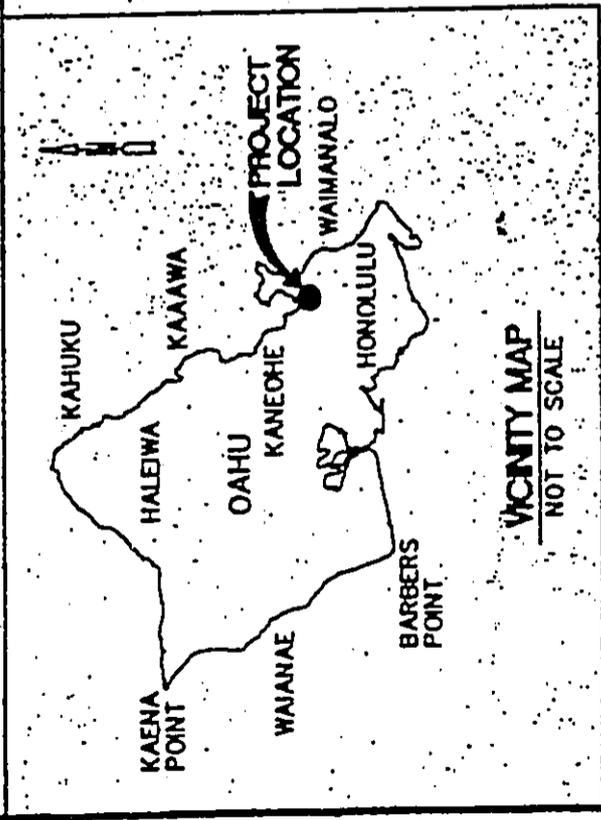
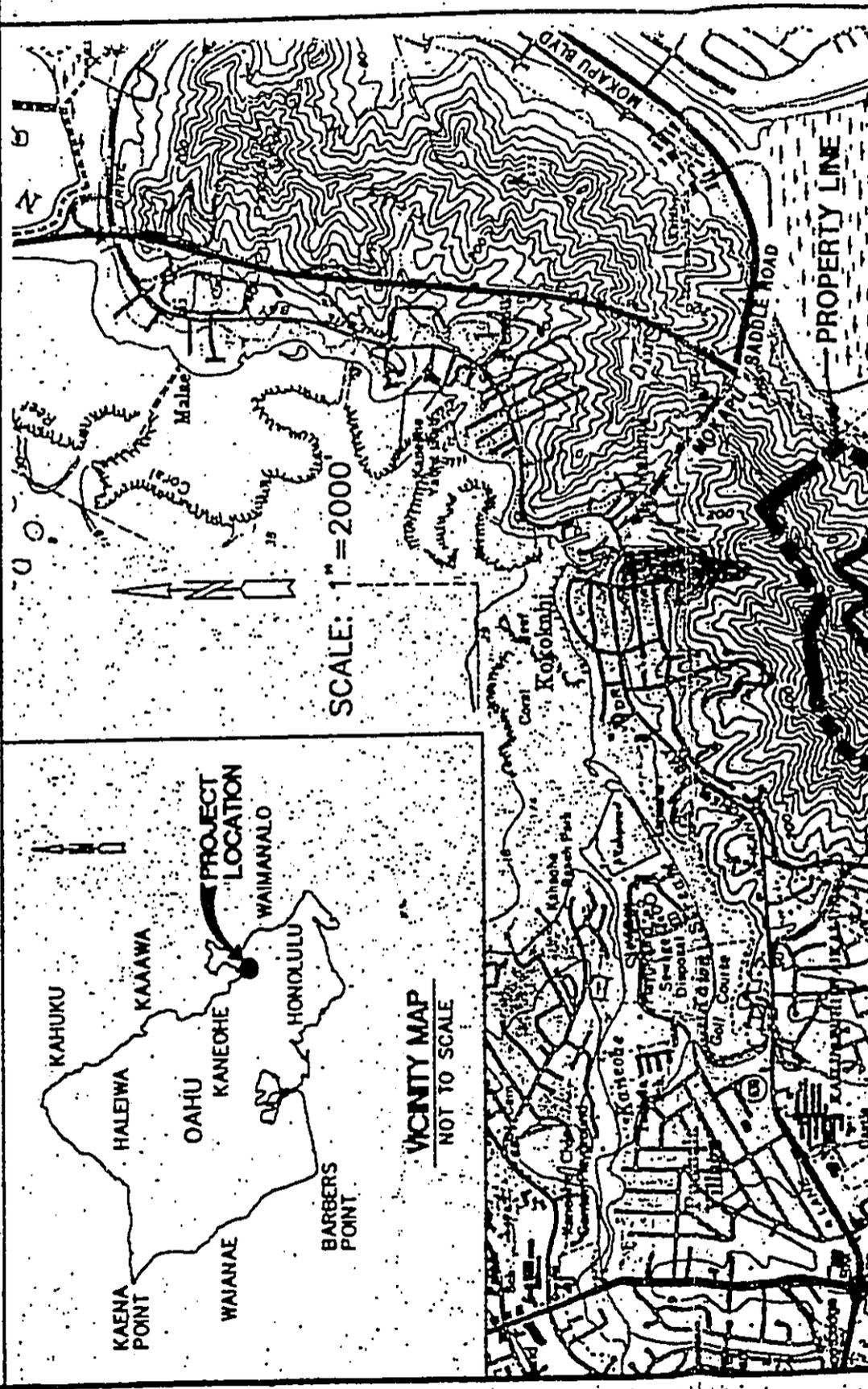
DOCUMENT CAPTURED AS RECEIVED

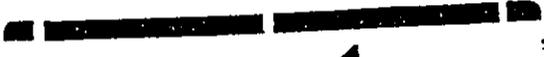
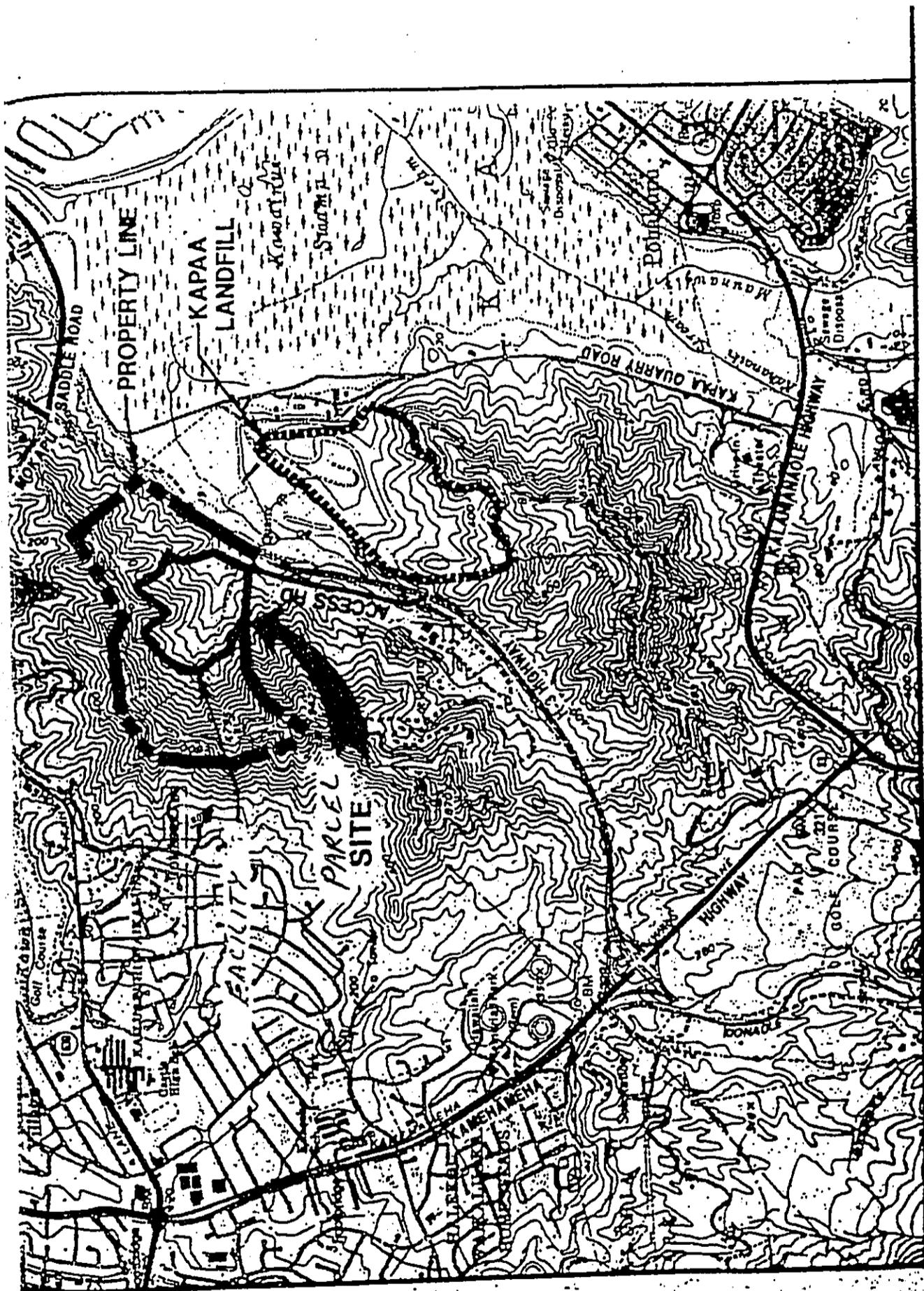
7.0 AGENCIES AND ORGANIZATIONS CONSULTED

The following agencies and organizations were consulted regarding this environmental assessment:

- * City And County Of Honolulu Dept of Public Works
- * City And County Of Honolulu Dept of Planning
- * State Of Hawaii Dept Of Health
- * State Of Hawaii Dept Environmental Quality Control
- * State Of Hawaii Dept Of Land And Natural Resources
- * University Of Hawaii Soil Management
- * City And County Of Honolulu Fire Department

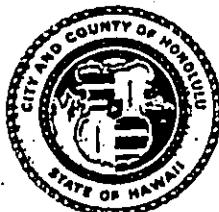
LOCATION MAP





DEPARTMENT OF LAND UTILIZATION
CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET
HONOLULU, HAWAII 96813 • (808) 523-4432



JEREMY HARRIS
MAYOR

Patrick T. Onishi

DIRECTOR

LORETTA K.C. CHEE
DEPUTY DIRECTOR

94-09147 (DT)

February 1, 1995

Mr. Charles R. Tasker
Oahu Tree & Stump Removal Experts
P. O. Box 26176
Honolulu, Hawaii 96825

Dear Mr. Tasker:

Special Management Area Review

Tax Map Key : 4-2-15: por. 9
Type of Project: Private reclamation (green waste recycling) facility
Zoning : P-1 Restricted Preservation District

The proposed project on the referenced tax map key has been reviewed. We find that it:

- Is not within the Special Management Area.
- Is within the Special Management Area, but is not defined as "development" and is therefore, exempt (Section 25-1.3 [2][], Chapter 25, Revised Ordinances of Honolulu).

Please note that most of the property is within the State Conservation District, and therefore, development regulations are under the jurisdiction of the State Department of Land and Natural Resources (DLNR). The remaining portion of the property is with the State Urban District. Development on this portion is governed by the City's Land Use Ordinance, under P-2 General Preservation District zoning.

Based on the map you submitted, it appears that your proposal is within the Conservation District. You should contact DLNR to determine whether other permits will be required.

EXHIBIT 2

GEORGE R. ARIYOSHI
GOVERNOR OF HAWAII

RECEIVED

Dec 2 4 12 PM '85

DIVISION OF REFUSE
COLLECTION & DISPOSAL



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

DEPT 12
DIR 5
REFUSE 17
SUSUMU ONO, CHAIRMAN
BOARD OF LAND & NATURAL RESOURCES
EDGAR A. HAMASU
DEPUTY TO THE CHAIRMAN
DIVISIONS:
AQUACULTURE DEVELOPMENT
PROGRAM
AQUATIC RESOURCES
CONSERVATION AND
RESOURCES ENFORCEMENT
CONVEYANCES
FORESTRY AND WILDLIFE
LAND MANAGEMENT
STATE PARKS
WATER AND LAND DEVELOPMENT

REF. NO.: CPO-2030-85
FILE NO.: OA-S/28/85-1752
180-Day Exp. Date: 11/24/58
DOCUMENT NO.: 0098C

Mr. Russell L. Smith, Jr.
Director and Chief Engineer
Department of Public Works
City and County of Honolulu
650 S. King Street
Honolulu, Hawaii 96813

RECEIVED
DEPT OF PUBLIC WORKS
DEC 2 1 43 PM '85

Dear Mr. Smith:

CONSERVATION DISTRICT USE APPLICATION
for a Subdivision for the Kalaheo Sanitary Landfill
and Accessory Uses at Kailua, Oahu, Hawaii

We are pleased to inform you that the Board of Land and Natural Resources, at its meeting of November 22, 1985, approved your application for 1) subdivision of portions of two parcels to create the Kalaheo Landfill; 2) the Kalaheo Landfill use; and, 3) ancillary uses for for the landfill operation of TMK 4-2-15:1 and 6 at Kalaheo, Kailua, Oahu 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;

Exhibit 3

Mr. Russel Smith, Jr.
C & C DPW

CPO-2030-85
OA-1752

3. The State of Hawaii shall not be responsible for any loss, liability claim or demand for property damage, property loss, or personal injury including death caused by or resulting from any act or omission of the applicant or its contractor in connection with its exercise of the privileges herein granted;
4. If any unanticipated sites or remains of historic or pre-historic 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;
5. The applicant shall comply with all applicable Public Health Regulations;
6. The construction, alteration, moving, demolition and repair of any building or other improvement on lands within the Conservation District 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;
7. 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;
8. That to assure protection of Kawainui Marsh, the applicant continue operation of the monitoring wells at the existing sanitary landfill site and expand the monitoring operation to include the Kalaheo site;
9. That the landfill be limited to a maximum height of 250 feet and prior to any expansion beyond this height, the applicant complete a supplemental EIS and obtain approval from this Department;

Exhibit 3

Mr. Russel Smith, Jr.
C & C DPW

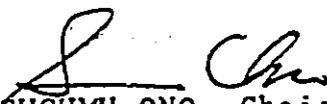
CPO-2030-85
OA-1752

10. That the applicant take appropriate measures to minimize or eliminate any adverse impacts on the adjacent residential property owners and Kawaiinui Marsh which may result from the landfill operations;
11. Other terms and conditions as prescribed by the Chairperson;
12. That the applicant include an additional monitor well at a location to be determined by this Department; and,
13. That the applicant install a perimeter drainage system around the landfill.

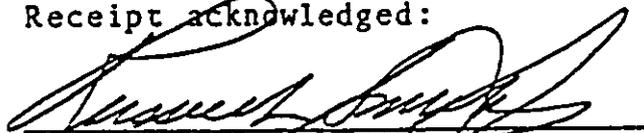
✓ Please acknowledge receipt of this permit with the above noted conditions in the space provided below. Please sign two copies. Retain one and return the other.

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

Very truly yours,


SUSUMU ONO, Chairperson
Board of Land and Natural Resources

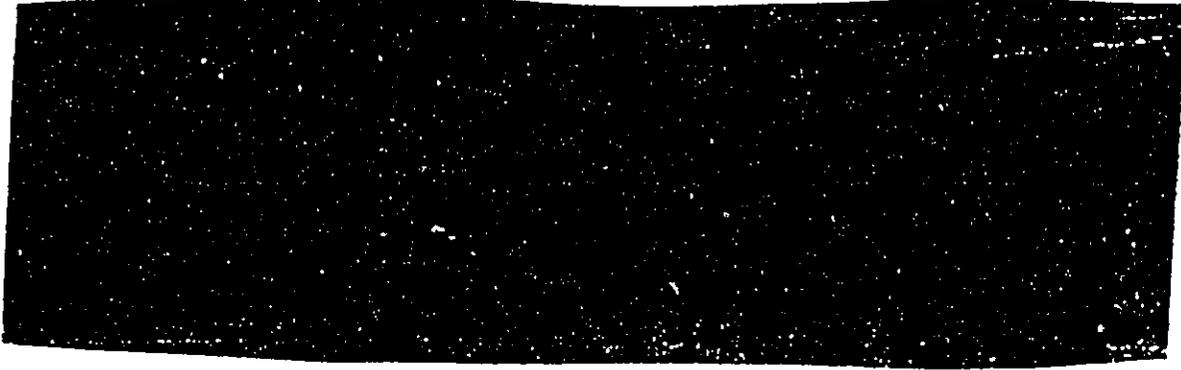
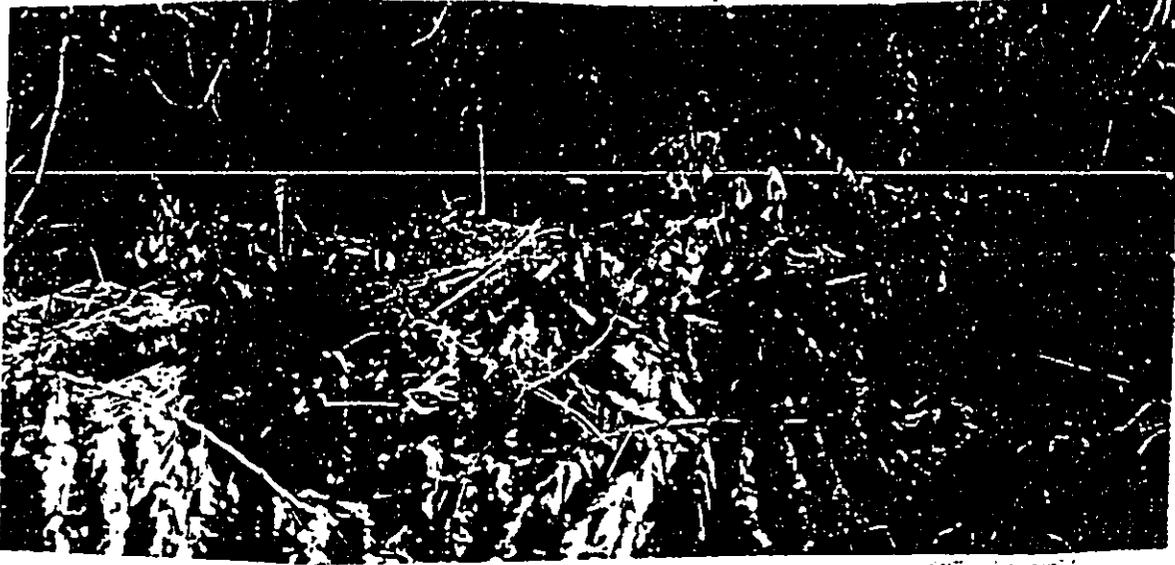
Receipt acknowledged:


Applicant's Signature

cc: Oahu Board Members
Oahu District Land Agent
C&C, Dept. of General Planning
DOH/OEQC/EC/DPED/OHA

EXHIBIT 3

DOCUMENT CAPTURED AS RECEIVED



STATE,
COUNTY,
AND
PRIVATE
PROPERTY
LITTERED
WITH
GREENWASTE

DOCUMENT CAPTURED AS RECEIVED



Exhibit 5

A BILL FOR AN ACT

RELATING TO RECYCLING.

BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF HAWAII:

1 SECTION 1. Section 342G-1, Hawaii Revised Statutes, is
2 amended by adding two new definitions to be appropriately
3 inserted and to read as follows:

4 "Secondary Resources" means postconsumer material collected
5 and processed for feedstock in a manufacturing process."

6 "Solid waste disposal facility" means any facility which
7 receives solid waste for ultimate disposal through landfilling or
8 incineration. This term does not include facilities utilized for
9 transfer, storage, processing, or remanufacturing for recycling
10 or reuse or bioconversion."

11 SECTION 2. Section 342H-1, Hawaii Revised Statutes, is
12 amended by adding two new definitions to be appropriately
13 inserted and to read as follows:

14 "Recycling" means the collection, separation, recovery, and
15 sale or reuse of secondary resources that would otherwise be
16 disposed of as municipal solid waste, and is an integral part of
17 a manufacturing process aimed at producing a marketable product
18 made of postconsumer material.

Page 2

H.B. NO. 673
H.D. 1
S.D. 1
C.D. 1

1 "Secondary Resources" means postconsumer material collected
2 and processed for feedstock in a manufacturing process."

3 SECTION 3. Section 342G-1, Hawaii Revised Statutes, is
4 amended by amending the definitions of "composting" and
5 "recycling" to read as follows:

6 "Composting" means a process in which organic solid wastes,
7 such as biosolids (sewage sludge), green or yard waste materials,
8 manures, and non-treated wood chips and shavings, are
9 biologically decomposed and stabilized under controlled
10 conditions to produce a stable humus-like [material.] mulch or
11 soil amendment. This term includes the processing of organic and
12 non-treated wood waste [material] materials for the generation of
13 wood [chip] chips or other [material] materials that can be used
14 as soil amendment, planting mixes, mulches for horticultural and
15 agricultural applications, landfill cover, and land reclamation.
16 The process of composting under methods approved by the
17 department is a recycling activity. Land application of
18 uncomposted organic solid waste shall not be considered an
19 approved solid waste management activity."

20 "Recycling" means the collection, separation, recovery, and
21 sale or reuse of [materials] secondary resources that would
22 otherwise be disposed of as municipal solid waste[.], and is an
23 integral part of a manufacturing process aimed at producing a

Page 3

H.B. NO.

673
H.D. 1
S.D. 1
C.D. 1

1 marketable product made of postconsumer material.

2 SECTION 4. Section 342H-36, Hawaii Revised Statutes, is
3 amended to read as follows:

4 " [[§342H-36]] [Solid waste recycling] Recycling for
5 agricultural purposes; encouraged. The director shall encourage
6 the recycling of solid wastes, including animal wastes and
7 selected non-hazardous industrial wastes, and the composting of
8 animal manures and by-products for agricultural and horticultural
9 purposes. The use of treated sludge effluent for fertilizer and
10 other agricultural purposes shall also be encouraged. Composting
11 of agricultural secondary organic resources under approved
12 methods shall also be encouraged."

13 SECTION 5. Statutory material to be repealed is bracketed.
14 New statutory material is underscored.

15 SECTION 6. This Act shall take effect upon its approval.

Approved by the
Governor on

JUN 21 1993

HB673 CD1

- EXHIBIT 6 -

DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET
HONOLULU, HAWAII 96813



JEREMY HARRIS
MAYOR

KENNETH E. SPRAGUE
DIRECTOR AND CHIEF ENGINEER
DARWIN HAMAMOTO
DEPUTY DIRECTOR

IN REPLY REFER TO:

RE 95-014

February 3, 1995

Mr. Charles R. Tasker
Oahu Tree & Stump Removal Experts
P. O. Box 26176
Honolulu, Hawaii 96825

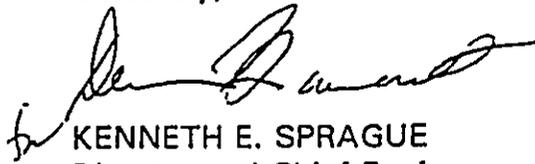
Dear Mr. Tasker:

Subject: Environmental Assessment for Green Waste Operations
at Kalaheo Sanitary Landfill, TMK: 4-2-15:1 and 6

We are providing this determination after clarification by Ms. Betty Wood of the State Office of Environmental Quality Control to James Chun of the Refuse Division on the applicability of environmental assessment preparation exemptions to the users of City lands.

The use of the Kalaheo Sanitary Landfill by your company for recycling wood and green waste is exempt from preparation of an environmental assessment. The project falls within the definition for Exemption Class 1 (operations involving no expansion or change of use beyond that previously existing at the landfill) and Class 2 (minor alterations in the condition of land) of the Comprehensive Exemption List for the City and County of Honolulu Department of Public Works. The closed landfill will be used for receiving and recycling wood and green waste under the guidelines set by the Department of Health. We consider this operation, as stated in your letter of December 27, 1994, not to have any significant impacts on the environment.

Sincerely,

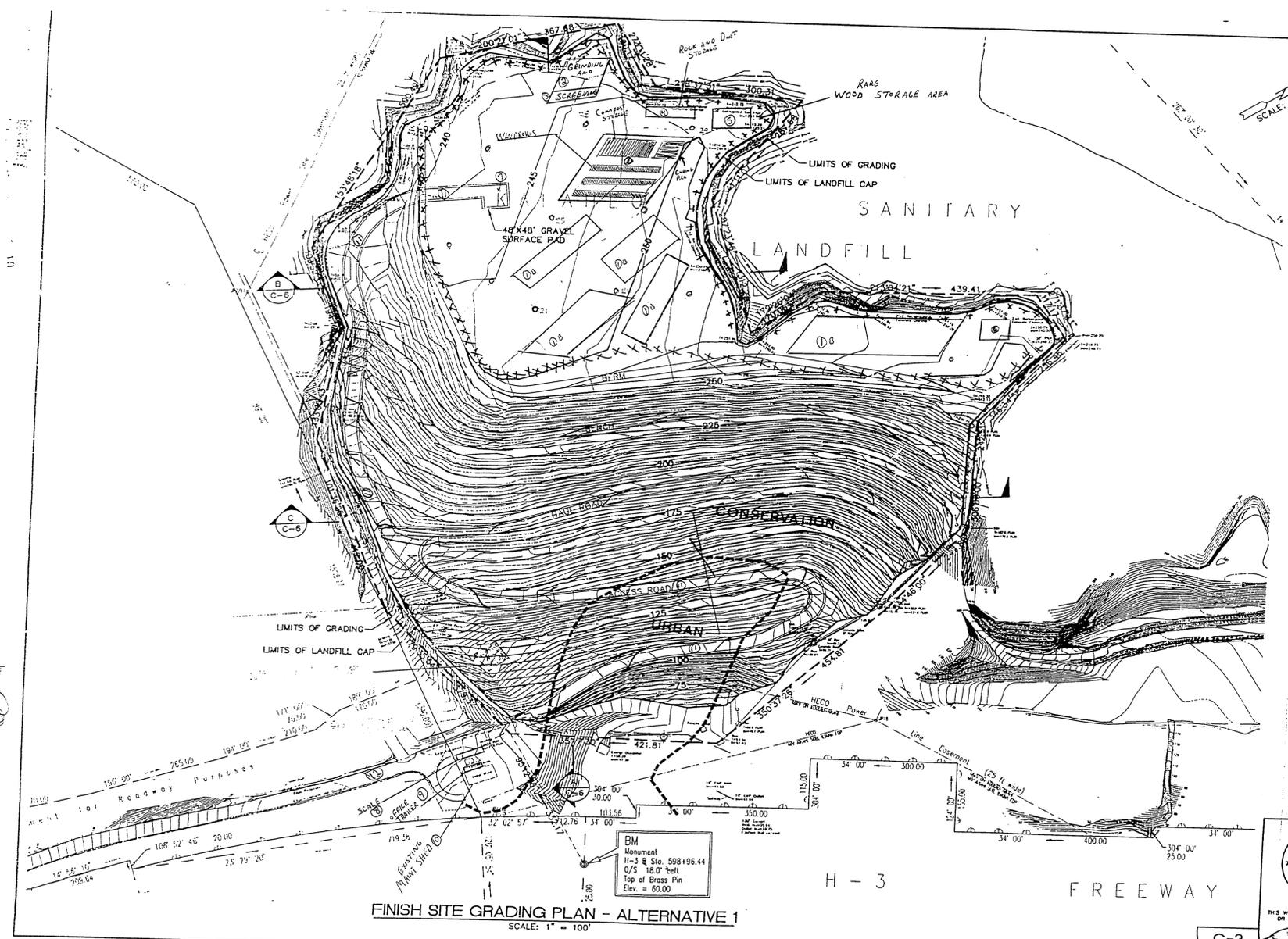

KENNETH E. SPRAGUE
Director and Chief Engineer

- EXHIBIT 7 -

**OVERSIZED
DRAWING/MAP**

**PLEASE SEE
35MM ROLL**

0073



0099

SCALE: 1" = 100'

OAHU TREE & STUMP EXPERTS

KALAEHO GREENWASTE RECYCLING FACILITY SITE PLAN

- ① TYPICAL COMPOSTING AREA FOR CURB AND STORAGE
- ② ADDITIONAL COMPOSTING PAD
- ③ GRINDING AREA PAD
- ④ SCREENING PAD
- ⑤ ROCK AND DIRT STORAGE
- ⑥ RARE WOOD STORAGE
- ⑦ MATERIAL STORAGE EQUIPMENT STORAGE
- ⑧ RECEIVING AREA
- ⑨ SCALE
- ⑩ OFFICE
- ⑪ EXISTING MAINT SHED
- * LIMITS OF RECYCLING FACILITY
- ⑫ ACCESS ROAD
- ⑬ ENTRANCE ROAD

APPROVED

M. J. P. 11/10/93

DATE

EXECUTIVE OFFICER

CHIEF DIVISION OF ENGINEERING, DEPARTMENT OF PUBLIC WORKS
CITY & COUNTY OF HONOLULU

GRAPHIC SCALE
0 100 200 300
SCALE IN FEET



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

REVISION	DATE	DESCRIPTION	BY	APPROV.
REFUSE DIVISION DEPARTMENT OF PUBLIC WORKS CITY AND COUNTY OF HONOLULU				
PROJECT: KALAEHO SANITARY LANDFILL CLOSURE KAILUA, OAHU, HAWAII				
ITEM: FINISH SITE GRADING PLAN - ALTERNATIVE 1				
ENGINEER: TNG		SCALE: 1" = 100'		
DRAFTSPERSON: RK11		CHECKED BY: DBL		
APPROVED: [Signature]		SECTION HEAD		
DATE: 11/12/93		DATE: 11/12/93		
BARRETT CONSULTING GROUP JOB NO.				

C-3

Boundary Interpretation No. 95.10

BENJAMIN J. CAYETANO
Governor of Hawaii



Chairperson
MICHAEL D. WILSON
Board of Land and Natural Resources

Deputy Director
GILBERT COLOMA-AGARAN

Aquaculture Development
Aquatic Resources
Boating and Ocean Recreation
Bureau of Conveyances
Conservation and Environmental Affairs
Conservation and Resources Enforcement
Forestry and Wildlife
Historic Preservation
Land Management
State Parks
Water and Land Development

STATE OF HAWAII

DEPARTMENT OF LAND AND NATURAL RESOURCES

REF:OCEA:SL

P. O. Box 621
Honolulu, Hawaii 96809

FILE NO.: OA-2785
Acceptance Date: 8/22/95
180-Day Expiration Date: 2/18/96

SEP 1 1995

Mr. Charles R. Tasker
dba Oahu Tree & Stump Removal Experts
P.O. Box 26176
Honolulu, Hawaii 96825

Dear Mr. Tasker:

NOTICE OF ACCEPTANCE AND PRELIMINARY ENVIRONMENTAL DETERMINATION
Conservation District Use Application

This acknowledges the receipt and acceptance for processing your Conservation District Use Application for the establishment of a Greenwaste Recycling Facility at the now closed Kalaheo Sanitary Land Fill, at Kailua, Oahu, Hawaii, TMK: 4-2-15: 9.

According to your information, the purpose of this project is to create a well managed recycling facility on the windward side of Oahu to reduce the cost of transportation of greenwaste, and to assist in the state waste reduction goals of 25 percent by 1995 and 50 percent by the year 2000, in accordance with the Hawaii Integrated Solid Waste Management Act.

After reviewing the application, we find that:

1. The proposed project is an Identified Public Purpose Use within the General subzone of the Conservation District according to Administrative Rules, Title 13, Chapter 5;
2. A public hearing pursuant to Chapter 183C, of the Hawaii Revised Statutes, and Section 13-5-40(a)(1) of the Hawaii Administrative Rules will be required in that the proposed use is of a commercial nature; and
3. A Negative Declaration Determination is anticipated for the proposed action pursuant to Section 11-200-8 of the Environmental Impact Statement Administrative Rules.

Mr. C. Tasker

- 2 -

File No.: OA-2785

Should you have any questions, feel free to contact our Office of Conservation and Environmental Affairs staff at 587-0377.

Aloha!

Michael D. Wilson
MICHAEL D. WILSON

xc: Board Member
C&C Planning Department
Land Utilization
Parks and Recreation
Public Works
Board of Water Supply
DOH (Solid Waste Management)/OHA/OSP/DOT
U.S. Fish and Wildlife Service

BENJAMIN J. CAYREANO
Governor of Hawaii



Chairperson
MICHAEL D. WILSON
Board of Land and Natural Resources

Deputy Director
GILBERT COLOMA-AGARAN

Aquaculture Development
Aquatic Resources
Boating and Ocean Recreation
Bureau of Conveyances
Conservation and Environmental Affairs
Conservation and Resources Enforcement
Forestry and Wildlife
Historic Preservation
Land Management
State Parks
Water and Land Development

REF:OCEA:SL

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

P. O. Box 621
Honolulu, Hawaii 96809

FILE NO.: OA-2785

SEP 5 1995

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

Dear Mr. Gill:

Subject: Draft Environmental Assessment for the Establishment of a Greenwaste Recycling Facility at Kailua, Oahu, Hawaii, TMK: 3-5-24: 003

The Department of Land and Natural Resources has reviewed the draft environmental assessment for the subject project, and anticipates a negative declaration determination. Please publish notice of availability for this project in the OEQC Bulletin as soon as possible.

We have enclosed a completed OEQC Bulletin Publication Form and four copies of the draft EA. Please contact Sam Lemmo at 587-0377 should you have any questions.

Aloha,

Gilbert D. Coloma-Agaran
for MICHAEL D. WILSON

Attachment

xc: Charles R. Tasker

DEPARTMENT OF LAND UTILIZATION
CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET
HONOLULU, HAWAII 96813 • (808) 523-4432



JEREMY HARRIS
MAYOR

*Rec'd
OCEA
10/2/95*

PATRICK T. ONISHI
DIRECTOR

LORETTA K.G. CHEE
DEPUTY DIRECTOR

95-05831 (JT)

October 2, 1995

The Honorable Michael D. Wilson, Director
Department of Land and
Natural Resources
State of Hawaii
Kalanimoku Building
1151 Punchbowl Street, Room 130
Honolulu, Hawaii 96813

DEPT. OF LAND
& NATURAL RESOURCES
STATE OF HAWAII

95 OCT 3 P 2: 14

RECEIVED

SL

Dear Mr. Wilson:

Draft Environmental Assessment (DEA) and
Conservation District Use Application (CDUA) No. OA-2785
Greenwaste Recycling Facility - Kailua, Oahu
Tax Map Key: 4-2-15; 09

We have reviewed the above mentioned documents and offer the following comments:

1. We reaffirm our previous finding (DLU letter of February 1, 1995) that the proposed recycling facility is located entirely outside the Special Management Area and within the State Conservation District. The Site Plan/State Land Use Boundary Interpretation Map (Exhibit 8 of DEA and Exhibit 3 of CDUA) clearly shows this condition.
2. The CDUA (Exhibit 5, page 1, ¶4) incorrectly states that "scale house located in the Urban portion of the facility". The scale is shown located within the Conservation District in Exhibit 3.

Thank you for the opportunity to comment. Should you have any questions, please contact Joan Takano of the Environmental Review Branch at 527-5038.

Very truly yours,

[Signature]
PATRICK T. ONISHI
Director of Land Utilization

PTO:am
g:oduaoos.jht

2705



OFFICE OF STATE PLANNING

Office of the Governor

MAILING ADDRESS: P.O. BOX 3640, HONOLULU, HAWAII 96811-3640
STREET ADDRESS: 200 SOUTH HOTEL STREET, 4TH FLOOR
TELEPHONE: (808) 587-2848, 587-2800

BENJAMIN J. CAYETANO, Governor

FAX: Director's Office 587-2848
Planning Division 587-2834

Ref. No. C-1435

September 26, 1995

DEPT. OF LAND & NATURAL RESOURCES
STATE OF HAWAII

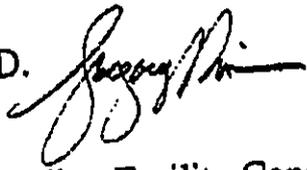
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MEMORANDUM

TO: The Honorable Michael D. Wilson, Chairperson
Department of Land and Natural Resources

FROM: Gregory G. Y. Pai, Ph. D. 
Director

SUBJECT: Kalaheo Greenwaste Recycling Facility Conservation District
Use Application, Kailua, Oahu, TMK: 4-2-15: 9

We have reviewed the conservation district use application (CDUA) for the Kalaheo Greenwaste Recycling Facility and do not have substantive comments at this time. The CDUA satisfactorily addresses our concerns.

We appreciate the opportunity to review and comment on the document. If there are any questions, please contact Harold Lao at 587-2883.

DLNR
OCEA

95 OCT 6 AM 9:58

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27

BENJAMIN J. CAYETANO
GOVERNOR



SEP 22 1995

KAZU HAYASHIDA
DIRECTOR

DEPUTY DIRECTORS
JERRY M. MATSUDA
GLENN M. OKIMOTO

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

IN REPLY REFER TO:

HWY-PS
2.7262

SEP 19 1995

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'95 SEP 27 AM 11:32

DIR?
OCEA

TO: MICHAEL D. WILSON, CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES

FROM: KAZU HAYASHIDA *KH*
DIRECTOR OF TRANSPORTATION

SUBJECT: CONSERVATION DISTRICT USE APPLICATION OA-2785
FOR ESTABLISHMENT OF GREENWASTE RECYCLING FACILITY
KALAHEO, OAHU; TMK: 4-2-15: POR. 9

SL

Thank you for requesting our comments on the subject application.
The proposed greenwaste recycling facility will not significantly
affect state highway facilities.

DEPT. OF LAND
& NATURAL RESOURCES
STATE OF HAWAII

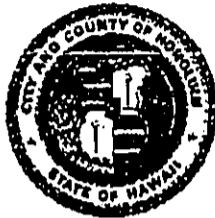
05 SEP 21 A 9: 56

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2630

DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET
HONOLULU, HAWAII 96813



JEREMY HARRIS
MAYOR

KENNETH E. SPRAGUE
DIRECTOR AND CHIEF ENGINEER

IN REPLY REFER TO:

95-14-0548

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95 OCT 6 P 4: 04

DEPT OF LAND
& NATURAL RESOURCES
STATE OF HAWAII

October 4, 1995

Mr. Michael D. Wilson
Chairperson
Department of Land and Natural Resources
State of Hawaii
P. O. Box 621
Honolulu, Hawaii 96809

SL

Dear Mr. Wilson:

Subject: Your Letter of September 1, 1995, OA-2785, Relating to a Conservation District use Application for a Greenwaste Recycling Facility at Kailua, Oahu, Hawaii. Tax Map Key: 4-2-15: 9

We have reviewed the subject application and have no objections.

We support the applicant's greenwaste recycling facility at Kalaheo Landfill, which will help the City by increasing recycling opportunities and reducing the volume of refuse to be disposed of. The facility will provide a recycling site on the windward side of the island and make productive use of the closed landfill. The material processed will contribute towards the City's attainment of recycling goals.

Should there be any questions regarding this matter, please call David Shiralshi of our Division of Refuse Collection and Disposal at 527-5697.

Very truly yours,


KENNETH E. SPRAGUE
Director and Chief Engineer

DLNR
DCEA

95 OCT 9 PM 3: 24

RECEIVED

2765

BOARD OF WATER SUPPLY

CITY AND COUNTY OF HONOLULU

630 SOUTH BERETANIA STREET

HONOLULU, HAWAII 96843



JEREMY HARRIS, Mayor

WALTER O. WATSON, JR. Chairman

MAURICE H. YAMASATO, Vice Chairman

KAZU HAYASHI, DA

MELISSA Y. J. LUM

FORREST C. WURPP

KENNETH E. SPRADUE

RECEIVED
SEP 21 PM 2:53

DLNR
OCEA

September 19, 1995

RAYMOND H. SATO
Manager and Chief Engineer

DEPT. OF LAND
& NATURAL RESOURCES
STATE OF HAWAII

SEP 19 3:47

RECEIVED

SL

Mr. Michael Wilson, Chairperson
Department of Land and Natural Resources
State of Hawaii
P.O. Box 621
Honolulu, Hawaii 96809

Dear Mr. Wilson:

Subject: Your Letter of September 1, 1995 on the Conservation District Use Application (CDUA) for the Proposed Greenwaste Recycling Facility, File No.: OA-2785, TMK: 4-2-15: 09, Kailua, Oahu, Hawaii

Thank you for the opportunity to review the CDUA for the proposed recycling facility project.

We have no objections to the proposed project as it will not impact any Board of Water Supply facilities in the area.

If you have any questions, please contact Barry Usagawa at 527-5235.

Very truly yours,

Raymond H. Sato
RAYMOND H. SATO
Manager and Chief Engineer

222



United States Depart

FISH AND WILDLIFE SERVICE
PACIFIC ISLANDS ECOREGION
300 ALA MOANA BOULEVARD, ROOM 3108
BOX 50088
HONOLULU, HAWAII 96850
PHONE: (808) 541-3441 FAX: (808) 541-3470

To	B. Tasker	From	S. Lamm
Co./Dept.	OAHU TREES & GRASS	Co.	OCEA
Phone #		Phone #	501-0386
Fax #	396-7430	Fax #	0390

DEPT. OF LAND
& NATURAL RESOURCES
STATE OF HAWAII

95 SEP 27 AM: 00

RECEIVED

In Reply Refer To: CAW

SEP 25 1995

Mr. Michael D. Wilson
State of Hawaii
Department of Land and Natural Resources
P.O. Box 621
Honolulu, Hawaii 96809

Re: Conservation District Use Application OA-2785 for a Greenwaste Recycling Facility at Kailua, Oahu, Honolulu, Hawaii

Dear Mr. Wilson:

The U.S. Fish and Wildlife Service (Service) has reviewed the Conservation District Use Application OA-2785 for a Greenwaste Recycling Facility at Kailua, Oahu, Hawaii. The proposed project involves operation of a greenwaste recycling facility on the windward side of Oahu. The greenwaste will consist of trees, stumps, branches, leaves, and grasses. No hazardous waste will be accepted.

Because the project will be located on a previously disturbed site, the Service does not anticipate significant adverse impacts to fish and wildlife resources to result from operating the Kaleheo Greenwaste Recycling Facility. The Service appreciates the opportunity to comment. If you have questions regarding these comments, please contact Fish and Wildlife Biologist Christine Willis at 808/541-3441.

Sincerely,

Brooks Harper
Brooks Harper
Field Supervisor
Ecological Services

95 SEP 27 PM 1:32
RECEIVED
DLNR
OCEA

cc: DLNR, Honolulu
CWB, Honolulu

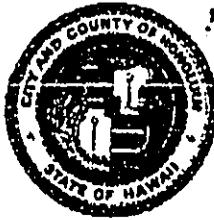
PLANNING DEPARTMENT
CITY AND COUNTY OF HONOLULU

850 SOUTH KING STREET
HONOLULU, HAWAII 96813

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1995 SEP 22 PM 1:01

JEREMY HARRIS
MAYOR



DLNR
OCEA

CHERYL D. SOON
CHIEF PLANNING OFFICER
CAROLL TAKAHASHI
DEPUTY CHIEF PLANNING OFFICER

MH 9/95-1823

September 19, 1995

SP

DEPT. OF LAND
& NATURAL RESOURCES
STATE OF HAWAII

95 SEP 21 10:44

RECEIVED

Honorable Michael D. Wilson, Chairperson
Board of Land and Natural Resources
Department of Land and Natural Resources
State of Hawaii
P.O. Box 621
Honolulu, Hawaii 96809

Dear Mr. Wilson:

Draft Environmental Assessment (DEA)/
Conservation District Use Application (CDUA)
No. OA-2785 for a Greenwaste Recycling Facility
at Kailua, Oahu, Hawaii. Tax Map Key: 4-2-15: 9

In response to your department's request of September 1, 1995, we have reviewed the subject DEA/CDUA and have the following comments to offer:

1. We confirm that the subject site is designated for Public Facilities use on the Koolaupoko Development Plan Land Use Map.
2. The Koolaupoko Development Plan Public Facilities Map shows a symbol for a publicly funded solid waste facility/modification, site determined, within six years for the Kalaheo Landfill Closure project (Ordinance No. 92-38). According to the Division of Refuse Collection and Disposal of the Department of Public Works, the Kalaheo Landfill Closure project is anticipated to be completed in October of 1995. The subject project site is deemed compatible with the former landfill.
3. We have no objections to the proposed greenwaste recycling facility which would probably result in the following:
 - a) assist the State and City waste reduction programs;
 - b) help the City divert greenwaste away from their landfills;

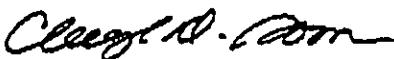
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Honorable Michael D. Wilson, Chairperson
Board of Land and Natural Resources
Department of Land and Natural Resources
September 19, 1995
Page 2

- c) assist in faster handling of greenwaste during hurricanes and tsunamis;
- d) save tax dollars by reducing the City's trucking cost; and
- e) provide tree trimmers, general contractors, rubbish haulers, and the general public a facility which could result in the reduction of dumping greenwaste on State and City roadways, public and private properties.

Should you have any questions, please contact Matthew Higashida of our staff at 527-6056.


CHERYL D. SOON
Chief Planning Officer

CDS:js

cc: Office of Environmental Quality Control
Department of Public Works

DEPARTMENT OF PARKS AND RECREATION
CITY AND COUNTY OF HONOLULU

950 SOUTH KING STREET
HONOLULU, HAWAII 96813



JEREMY HARRIS
MAYOR

DONA L. HANAIKE
DIRECTOR

ALVIN K.C. AU
DEPUTY DIRECTOR

September 13, 1995

Mr. Michael D. Wilson, Chairperson
Department of Land and Natural Resources
State of Hawaii
Post Office Box 621
Honolulu, Hawaii 96809

SL
DEPARTMENT OF LAND
& NATURAL RESOURCES
STATE OF HAWAII

35 SEP 18 AM 1:56

RECEIVED

Dear Mr. Wilson:

Subject: Conservation District Use Application for a
Greenwaste Recycling Facility
Kailua, Oahu, Hawaii
Tax Map Key 4-2-15: 9
File No. OA-2785

We have reviewed the Conservation District Use Application and your department's notice to the applicant for the above-described project and have no comment to offer.

Thank you for the opportunity to review this project.

If you have any questions please contact Lester Lai of our Advance Planning Branch at 523-4696.

Sincerely,

A handwritten signature in cursive script, likely belonging to Dona L. Hanaike.

For DONA L. HANAIKE
Director

DLH:ei

DIVISION
OCEA

95 SEP 13 PM 3:07

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STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

STATE HISTORIC PRESERVATION DIVISION
33 SOUTH KING STREET, 8TH FLOOR
HONOLULU, HAWAII 96813

September 12, 1995

MICHAEL D. WILSON, CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES

DEPUTY
GILBERT COLOMA-AGARAN

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

MEMORANDUM

LOG NO: 15417
DOC NO: 9509TD18

TO: Roger C. Evans, Administrator
Office of Conservation and Environmental Affairs

FROM: Don Hibbard, Administrator
Historic Preservation Division

SUBJECT: Conservation District Use Application, Establishment of Greenwaste Facility, Charles R. Trasker (File No. OA-2785)
Kailua, Ko'olaupoko, O'ahu
TMK: 4-2-15: 9

SL

This facility will be located at the Kalaheo Sanitary Landfill, the development of which would have destroyed any and all historic sites. Therefore, we believe that this project will have "no effect" on historic sites.

TD:jk

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SEP 14 PM 12:11
DLNR
OCEA

2257

UUA

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
Office of Conservation and Environmental Affairs
Honolulu, Hawaii

RECEIVED
95 SEP 5 AM
FORESTRY & WILDLIFE
STATE OF HAWAII

FILE NO.: OA-2785
Acceptance Date: 8/22/95
180-Day Exp. Date: 2/18/96
SUSPENSE DATE: 21 Days

SEP 1 1995

MEMORANDUM

TO: Aquatic Resources, Forestry & Wildlife, Historic Preservation Division, Land Management, Water and Land Development, State Parks, Conservation and Resources Enforcement

FROM: Roger E. Evans, Administrator
Office of Conservation and Environmental Affairs

SUBJECT: REQUEST FOR COMMENTS
Conservation District Use Application

APPLICANT: Charles R. Tasker

FILE NO.: OA-2785

REQUEST: Establishment of Greenwaste Facility

LOCATION: Kailua, Oahu, Hawaii

TMK: 4-2-15: 9

PUBLIC HEARING: YES NO

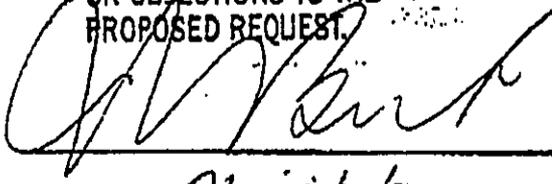
Please contact Sam Lemmo at the Office of Conservation and Environmental Affairs, at 587-0377, should you have any questions on this matter.

If no response is received by the suspense date, we will assume there are no comments.

Attachment(s)

September 8, 1995

DOFAW HAS NO COMMENTS
OR OBJECTIONS TO THE
PROPOSED REQUEST.



Administrator

MICHAEL G. BUCK

cc: Oahu District

DLNR
OCEA

95 SEP 9 PM 3:42

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2010

- ___ ADMINISTRATION
 - ___ ASST. ADMIN.
 - ___ DEV. BR.
 - ___ PLAN. BR.
 - ___ REG. MGT. BR.
 - ___ PROJ. CONTROL
 - ___ ENV. REC. PLAN.
 - ___ TECHNICAL STAFF
 - ___ ADMIN. ASST.
 - ___ INTERP. BR.
- FOR
- ___ CIRCULATE/POST/STAFF RM
 - ___ COMMENTS & REC.
 - ___ DRAFT REPLY
 - ___ FILE
 - ___ FOLLOW UP
 - ___ INFO.
 - ___ RUSH (DUE _____)
 - ___ SEE ME
 - ___ SEND COPY TO: _____

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DIVISION OF
STATE PARKS
SEP 6 10 59 AM '95

24

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
Office of Conservation and Environmental Affairs
Honolulu, Hawaii

FILE NO.: OA-2785
Acceptance Date: 8/22/95
180-Day Exp. Date: 2/18/96
SUSPENSE DATE: 21 Days

SEP 1 1995

MEMORANDUM

TO: *Sam Lemmo*: Aquatic Resources, Forestry & Wildlife, Historic Preservation Division, Land Management, Water and Land Development, State Parks, Conservation and Resources Enforcement

FROM: *Sam*: Roger E. Evans, Administrator
Office of Conservation and Environmental Affairs

SUBJECT: REQUEST FOR COMMENTS
Conservation District Use Application

APPLICANT: Charles R. Tasker

FILE NO.: OA-2785

REQUEST: Establishment of Greenwaste Facility

LOCATION: Kailua, Oahu, Hawaii

TMK: 4-2-15: 9

PUBLIC HEARING: YES NO

Please contact Sam Lemmo at the Office of Conservation and Environmental Affairs, at 587-0377, should you have any questions on this matter.

If no response is received by the suspense date, we will assume there are no comments.

Attachment(s)

No comments. Consider landscape screening & southeast portion, if deemed desirable.

**RALEIGH NAGATA, State Parks
Administrator**

Date: 9/14/95

SHIR
OCEA

95 SEP 14 AM 2:04

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2496

DLNR

BENJAMIN J. CAYSTANG
GOVERNOR OF HAWAII



Post-It™ brand fax transmittal memo 7671		# of pages > 2
To <i>B. Tasker</i>	From	<i>S. Lemmo</i>
Co.	Co.	
Dept.	Phone #	<i>581-0386</i>
Fax # <i>396-7430</i>	Fax #	

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

DLNR
OCEA

In reply please refer to:

October 17, 1995

95-174/epo

TO: The Honorable Michael Wilson, Chairperson
Department of Land and Natural Sources

FROM: Lawrence Miike *Lawrence Miike*
Director of Health

SUBJECT: CONSERVATION DISTRICT USE APPLICATION
Applicant: Charles Tasker
File No.: OA-2785
Request: Establishment of Greenwaste Recycling Facility
Location: Kailua, Oahu
TMK: 4-2-15: 9

RECEIVED
DLNR
OCEA

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RECEIVED

Thank you for the opportunity to review and comment on the subject application. Although we do not have any objections to this Conservation District Use Application (CDUA), we would like to offer the following comments:

- The major issue concerning the proposed project is that it is to be constructed on a closed municipal solid waste landfill (MSWL), presently at the start of its post closure care period. Closed MSWL may pose environmental hazards due to explosive gas migration, underground fires, settlement and leachate releases. Major settlement has already occurred at the site and is expected to continue for many years. Maintenance and care of the cover system, stormwater control and other appurtenant systems is necessary during the post closure care period.

Design and operation of any facility on the closed landfill must not compromise the closure systems.
- A clarification should be made on the exact boundaries of the ten acre parcel being leased from the City & County. Does the ten acres include the office trailer area or the access road leading to the composting area?
- Since the facility will be sitting on top of the landfill, there is always the possibility of settlement. The

The Honorable Michael Wilson
October 17, 1995
Page 2

95-174

applicant must consider settlement in the design of their composting pads and other structures.

4. The Kalaheo landfill has a methane gas extraction system in place. The applicant must be aware of the possibility of fire within the landfill and develop a plan to mitigate and respond to any landfill fires.
6. The applicant should provide additional information concerning the volume or weight of greenwaste anticipated per day and the maximum on site at any one time.

If you have any questions, please contact Mr. George Teramoto of the Office of Solid Waste Management at 586-4240.

c: OSWM



We combine skill and craft with knowledge and fact.

OAHU TREE & STUMP EXPERTS

November 3, 1995

Mr. Lawrence Mike, Director
Department of Health
State of Hawaii
PO Box 3378
Honolulu, Hawaii 96801

Subject: Response to your Memo of October 17, 1995 to The Honorable Michael Wilson, Chairperson, Department of Land and Natural Resources, on the Application for a Greenwaste Recycling Facility at Kailua (TMK: 4-2-59),

1. The Greenwaste Recycling Facility is to be located on top of a closed municipal solid waste landfill. The operation of a composting facility is being designed to not interfere in any way with the ongoing maintenance of the closed landfill. No permanent structures are planned for the composting site. All working areas will be surfaced with rock. As settlement occurs, more cover dirt and rock will be added as necessary to maintain proper drainage. Operators at the compost site will be instructed to be vigilant to not remove any cover material in the normal course of the operation. The methane recovery system greatly reduces the likelihood of fires from migrating gas, and explosions would not be expected since there will be no enclosed structures on top of the old landfill.

The methane recovery and storm water control systems will be marked and protected from the operating equipment. We will have to work with the County to insure that there is sufficient flexibility in the cover liner and methane piping to withstand the movement and weight loadings from the equipment and compost windrows.

2. The exact boundaries of the ten acre site are delineated in the Environmental Assessment on Exhibit 8: The final site grading plan for the Kahaleo Landfill. The ten acres does not include the access road or office area.

3. Settlement: see #1. above.

4. Internal landfill fires will be the ongoing responsibility of the County. The methane recovery system greatly reduces the likelihood of fires from the migrating gas. If a fire occurs in the landfill below a compost pile, the materials which can safely be removed will be moved.

P.O. Box 26176 • Honolulu, HI 96825 • (808) 396-8844
Contractor's License Number C17036

Mr. Lawrence Mike, Director
Department of Health
Page 2

Fires which might occur in the compost will be the responsibility of Oahu Tree & Stump.
A fire prevention and suppression plan will be developed before operations are initiated.

5. The amount of greenwaste to be received at the site is unknown. We project that it might be as much as half of that which is currently handled at the City and County transfer stations.

I appreciate your review and comments on the Draft Environmental Assessment, and hope that you find the above responses satisfactory. If you have any further questions, please do not hesitate to contact me at 396-8844.

Sincerely,



Charles Tasker

Oahu Tree & Stump Experts

20

BENJAMIN J. CAYETANO
GOVERNOR



GARY GILL
DIRECTOR

STATE OF HAWAII
OFFICE OF ENVIRONMENTAL QUALITY CONTROL

220 SOUTH KING STREET
FOURTH FLOOR
HONOLULU, HAWAII 96813
TELEPHONE (808) 586-4185
FACSIMILE (808) 586-2452

September 25, 1995

Mr. Charles R. Tasker
dba Oahu Tree & Stump Removal Experts
P.O. Box 26176
Honolulu, Hawaii 96825

Dear Mr. Tasker:

Having received the Department of Land and Natural Resources' Office of Conservation and Environmental Affairs, September 5, 1995, draft environmental assessment for your proposed Greenwaste Recycling Facility at Kailua, Oahu, TMK: 3-5-24:003, we wish to inform you that we have published appropriate notice of the same in the September 23, 1995, edition of *The Environmental Notice*.

We would like to take this opportunity to comment on the above draft environmental assessment.

1. Please provide in the final environmental assessment an indication of rainfall in the project area (isohyetal maps may be a useful information source) and how such rainfall may affect the composting operations.
2. What actions will the facility take to prevent odors? What contingency plans will be implemented if odors occur? What method will be used to assess odor impacts (community complaints?).

Please contact Mr. Leslie Segundo at 586-4185 should you have any questions. Thank you for your cooperation.

Sincerely,


GARY GILL
Director

c: Mr. Samuel J. Lemmo, DLNR-OCEA

21



We combine skill and craft with knowledge and fact.

OAHU TREE & STUMP EXPERTS

November 3, 1995

Mr. Gary Gill, Director
Office of Environmental Quality Control
State of Hawaii
220 South King Street, 4th Floor
Honolulu, HI 98613

Dear Mr. Gill:

Thank you for your letter of September 25, 1995 on the Draft Environmental Assessment for the Greenwaste Recycling Facility at Kailua (TMK: 4-2-15 2). The mean annual rainfall is just under 60-inches, with highs of 6-7-inches a month in November through January, and lows of about 2-inches each in June and September.

Standard operating procedures for compost sites allow for maintaining the desired moisture level in the ground greenwaste compost piles through a series of techniques. First, the plies are arranged along the slope of the land so that water is not held against the piles, but runs off between them. The top of the landfill is required to slope at about 2% to provide drainage. This is considered sufficient and standard for composting sites.

The slope of surface of the landfill will drain rainfall to Southwest. Stormwater purification is best accomplished by providing grasslands down gradient from the site. The grasses catch any material which is washed off site, and uptake nutrients which might be dissolved in the water. The excess rainwater will drain off the site through the perimeter drainage channel to the landfill siltation basin.

Further, as the compost settles following the pile formation, the material packs down and most of the rainfall will just run off the pile. Because of this, if it ever becomes necessary to add moisture to the compost the pile must be opened up and turned, or the top of the pile must be flattened so that the water can penetrate before it runs off.

There are two main sources of odors in composting operations. First are those caused by excessive nitrogen in the material. For microbes which decompose the organic materials, the amount of nitrogen and carbon must be balanced. If there is not enough nitrogen, then the microbes will not be active, and the process will proceed very slowly.

However, if there is too much nitrogen, ammonia and volatile organic compounds are produced. These unpleasant odors are frequently associated with sludge composting facilities, because the incoming organics are high in nitrogen and low in carbon. If sufficient carbon source (woody material) is not added the smells will be released every time the compost is turned.

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Contractor's License Number C17036

Mr. Gary Gill, Director
Office of Environmental Quality Control
Page 2

Excess nitrogen is rarely a problem in a greenwaste composting program because most plant trimmings have a good carbon to nitrogen balance. The exception would be large masses of grass clippings. Lawn maintenance services should be encouraged to "grass-cycle", mulching and leaving the grass where it is mowed. If grass is received in large amounts, then it can easily be mixed with woodier materials before it is placed into the windrows to avoid the problem.

The second type of compost odors are those formed when insufficient oxygen is available and the composting materials becoming anaerobic. Associated with this condition are the hydrogen sulfide gas (rotten egg smell) odors. At greenwaste composting sites, these odors are only produced if the compost windrows are not turned at frequent enough intervals. If these odors are ever produced, simply providing more frequent aeration will remove the problem.

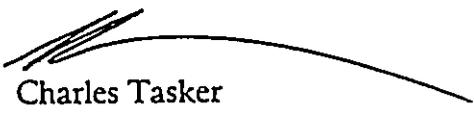
At the beginning of the composting process, it is important for the compost pile to reach and maintain higher temperatures (above 135 degrees Fahrenheit), for three to four days, to kill weed seeds. Once this has been accomplished, the compost can be turned as often as necessary to keep it from becoming anaerobic. In dryer climates, operators frequently do not wish to turn the material too often because moisture is released, and then has to be replaced. At this site, lack of moisture should not be a problem.

To reduce the possibility of off-site odors impacting the facility neighbors, the first line of detection will be provided by the facility workers and the on-site operations manager. As they might become accustomed to odors, truck drivers delivering loads (including County drivers) will be asked to notify operator if they smell anything unusual. Finally, the scale house/gate operator will be on the vigil for odors coming down the hill.

Any odors which might be produced would be expected to be quickly dissipated because the site is subject to almost continual air movement. It should also be noted that the prevailing wind direction is away from population centers, so even if odors are produced inadvertently, there would be minimal impacts on the neighborhoods.

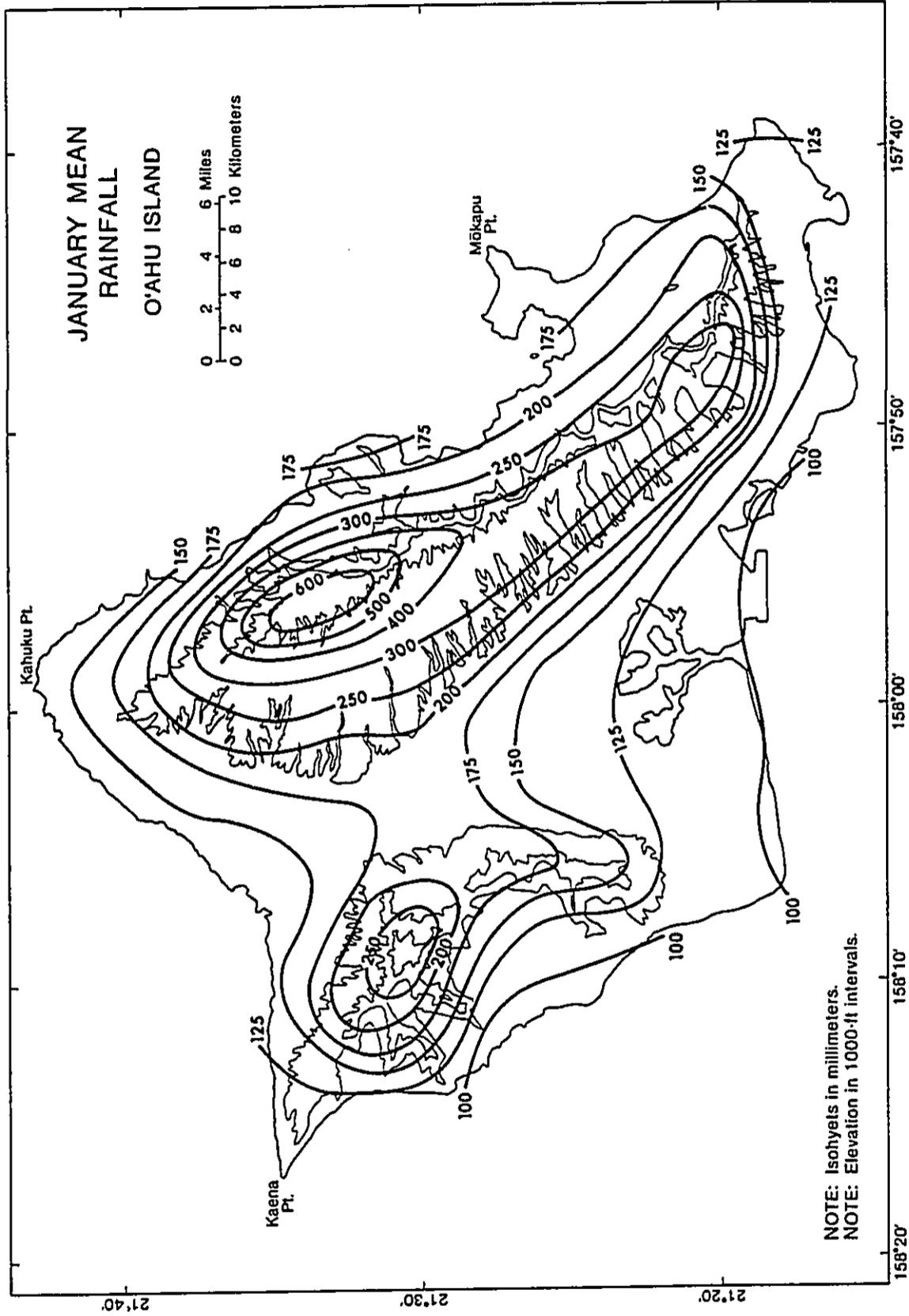
If you have any further questions with regard to this response to your comments, please do not hesitate to contact me at 396-8844.

Sincerely,



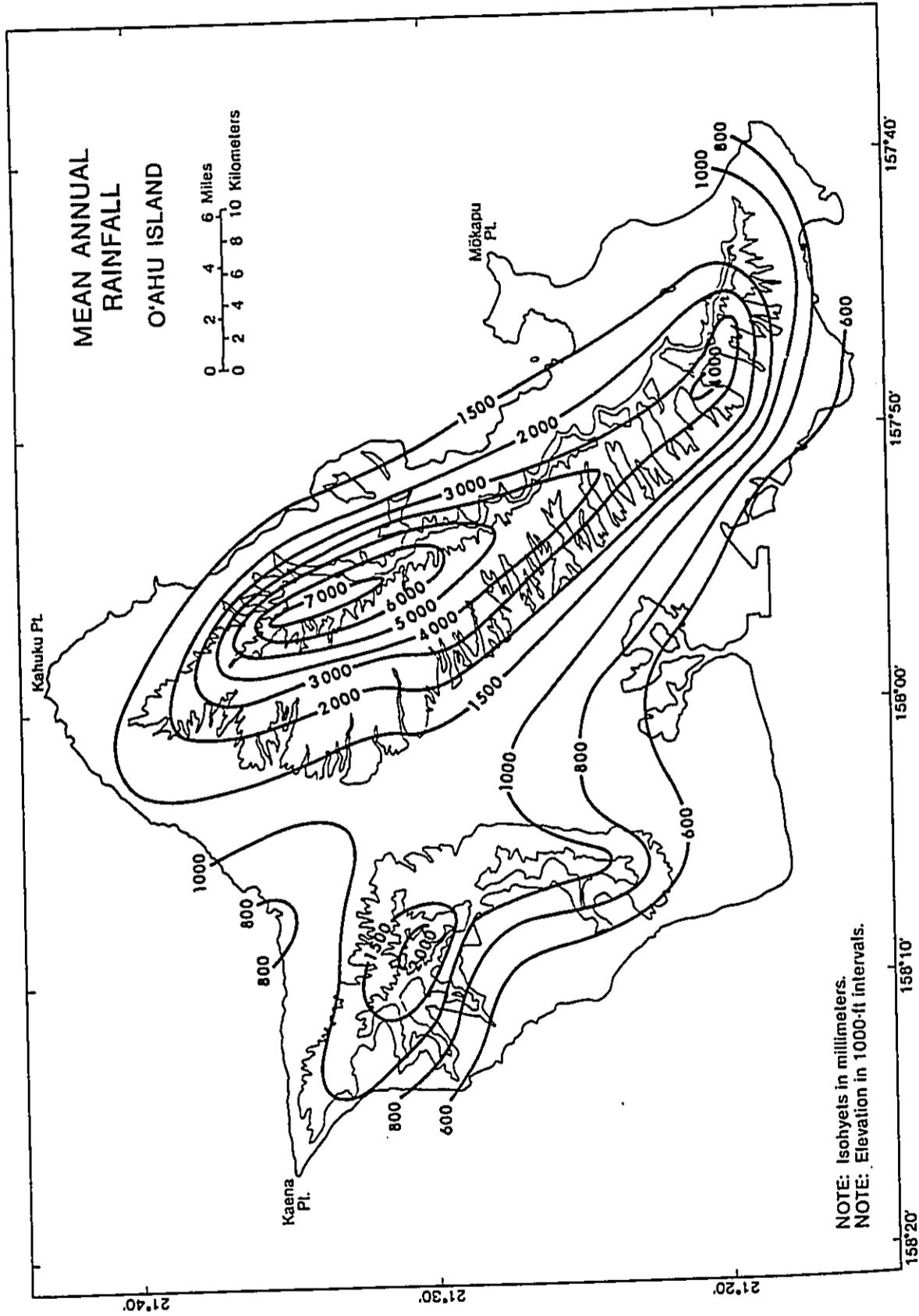
Charles Tasker

Oahu Tree & Stump Experts

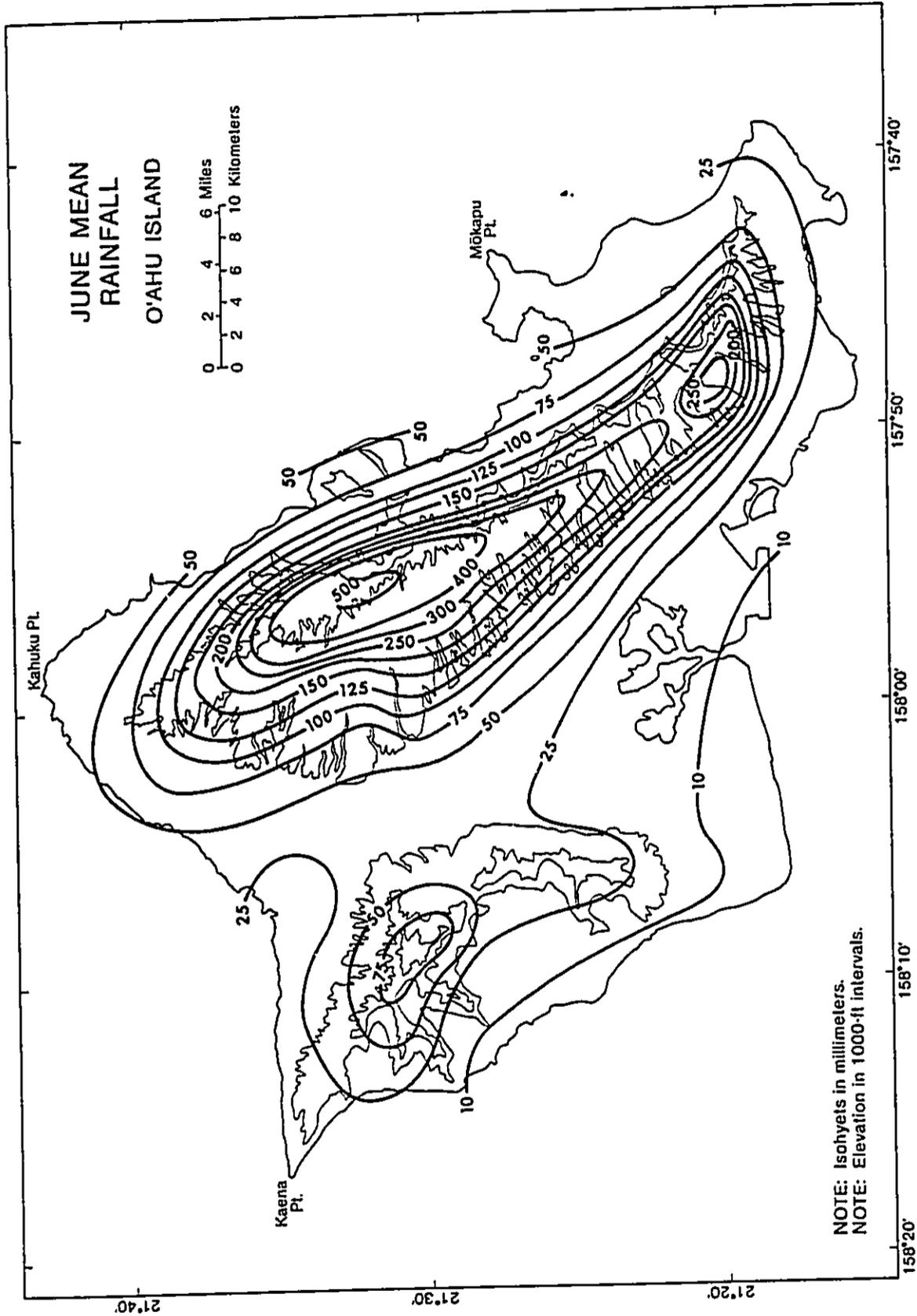


Appendix Figure A.106. January mean rainfall, O'ahu Island, Hawai'i

UNIVERSITY OF HAWAII LIBRARY



Appendix Figure A.105. Mean annual rainfall, O'ahu Island, Hawai'i



Appendix Figure A.111. June mean rainfall, O'ahu Island, Hawai'i

*KAWAI NUI HERITAGE FOUNDATION
P.O. BOX 1101
KAILUA, HAWAII 96734*

October 22, 1995

Mr. Charles R. Tasker
Oahu Tree and Stump Experts
P.O. Box 26176
Honolulu, Hawaii 96825

RE: DRAFT ENVIRONMENTAL ASSESSMENT / KALAEHO GREENWASTE
RECYCLING FACILITY

These comments are being submitted on behalf of the Kawai Nui Heritage Foundation

We are confused as to the process as it pertains to this proposal. The document we are commenting on is labelled as a Draft EA, and yet, a letter dated February 3, 1995 from Kenneth Sprague, City and County Department of Public Works, states that the project "is exempt from the preparation of an environmental assessment". If the City has already concluded that there will be no negative impacts we have to wonder whether there is any point in taking the time to examine this document and comment on the environmental impacts. The vagueness of this proposal does not allow us to reach the same conclusion with confidence.

The Draft EA is admirably consistent in its failure to examine issues of public concern in sufficient detail for meaningful input to be returned. Issues such as odor, noise, and traffic are glossed over in a few sentences, neglecting to inform the reader of what will be done to insure public health and address probable impacts of the project.

Section 4.13 tells us that a public hearing is required, yet unless the public is given sufficient information ahead of time how can they be expected to provide well considered commentary at that meeting?

Section 2.5 tells us that Hawaii State law requires that the counties divert 25% of the waste generated within the county away from landfill disposal by 1995 and 50% by the year 2000. While these goals are admirable and while green waste facilities can probably help us to achieve them we must weigh whether or not the site proposed for this facility is appropriate.

We know that there are considerable odor problems associated with such facilities and yet this EA does not adequately describe what management strategies will be employed to deal with them. Neither is there a quantification of the projected

degree of success of such efforts. The same holds true for noise impacts, although the document does state that operations will only run from 7:30 am to 6:30 pm. If noise levels (which are unquantified) are high enough to limit operations to hours when people are likely to be at work, we have to wonder what impacts this plant will have on students at near by Kalaheo High School.

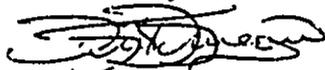
Section 2.3 states "If unacceptable items are found in a load, the facility operator will not accept the load and will require the transporter to remove the waste from the sight and dispose of it properly. The facility operators will have a list of facilities with addresses that will accept materials which the facility will not accept."

The Kawai Nui Heritage Foundation and other community organizations have taken great pains to organize the community to remove refuse dumped along the periphery of Kawai Nui marsh. If this facility is allowed to open, a process of recording refused loads and checking that they are indeed taken to proper disposal sites (rather than dumped along the roadside) must be instituted. Significant penalties for not following the proper disposal procedures must be in place before the plant is allowed to open.

Because this proposed project lies above the States largest wetland (which provides habitat for endangered species) we are also concerned with leaching, storm water runoff, and other water quality issues. We feel a detailed discussion of these concerns is imperative before any actions are taken. We also feel that provisions for concerned agencies and public entities to monitor the impacts of this project should be part of the planning process, and should be stipulated as conditions of the permitting process.

We find this EA to be deficient and recommend that a more detailed EA be developed. We look forward to being notified of public hearings for this project when they are scheduled.

Sincerely,



Keith Krueger
Vice President

CC: Office of Environmental Quality Control
Councilmember Steve Holmes
Kailua Neighborhood Board



We combine skill and craft with knowledge and fact.

OAHU TREE & STUMP EXPERTS

November 3, 1995

Mr. Keith Krueger, Vice President
Kawai Nui Heritage Foundation
PO Box 1101
Kailua, Hawaii 96734

Dear Mr. Krueger:

The following information is provided to the Kawai Nui Heritage Foundation in response to your comments on our Draft Environmental Assessment for the Greenwaste Recycling Facility at Kailua [TMK: 42159].

Properly operated compost facilities have no significant impacts as to odor. Offensive odor generation at greenwaste processing facilities is primarily the result of composting materials not receiving the proper amount of air during the initial processing phases. To maintain the material in an oxygen rich environment, the materials will be ground shortly after they are received and the compost piles will be turned regularly. Materials which are responsible for the most significant odor problems (e.g., sewage sludge, grease trap waste and food wastes) will not be accepted at this facility.

The facility should generate significantly less noise and traffic than it did when the landfill was operating. Noise levels should be below those generated when the landfill was operating, because there will be less heavy equipment operating. Additionally, as the prevailing wind is from the Northeast, much of the noise (and any offensive odors which might be inadvertently produced) should be carried away from the Kalaheo High School.

We would be prepared to make a record of all loads rejected, including the type of material and the license number of the vehicle transporting it, and turn that list over to the County on a daily basis in order to assist in reducing the amount of materials improperly disposed. Further, we would make it plain to the vehicle operators that this action were being taken to provide a preventative element.

Only very minimal amounts of leachate are produced from a properly operated compost site. If any leachate is produced in the compost it would be returned to the composting materials. Site rainfall will drain to the southwest down a grassy slope, will pass into the stormwater drainage ditch and be collected in the silt basin. Hence, no leachate from the composting operation is projected to leave the site.

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Contractor's License Number C17036

Mr. Keith Krueger, Vice President
Kawai Nui Heritage Foundation
page 2

Stromwater run-off purification is best accomplished by providing grasslands down gradient from the compost site, on the sides of the landfill. The grasses catch any compost which is washed off site, and uptake nutrients before they reach the wetlands.

I hope that this response reduces your concerns about any negative impacts which our operation will have on the Kawai Nui Marsh. We share your concern for the well being of this treasured resource, and will operate our composting facility in a responsible manner to protect it.

If you have any additional questions, please do not hesitate to contact me at 396-8844.

Sincerely,



Charles Tasker

**Planning and Zoning Committee
Environmental Committee**
Kailua Neighborhood Board #31
PO Box 487

October 21, 1995

Mr. Charles R. Tasker
Oahu Tree & Stump Experts
PO Box 26176
Honolulu, HI 96825
(808) 39-8844

Dear Mr. Tasker,

Thank you for the opportunity to comment on the draft Environmental Assessment (EA) for the Kaleheo Green waste Recycling Facility (GWRF). At first glance, a GWRF would seem to be a good use of a capped landfill, but we have serious questions about the EA and the details of the proposed action. With much regret we note the EA has little science and it is mostly glossy generalizations. We request a revised and expanded draft EA to address the specifics of odor control, storm water run-off and citizen inspections.

This operation is vastly different from burying waste. Landfills cover waste within hours and are designed with engineering controls to prevent runoff. They have strict operating and monitoring requirements and have time tested procedures. This operations leaves waste exposed to the air and rain for months, it is new to Hawaii's climate and has no proven controls or monitoring.

It is unethical to request an exception from the requirements of an EA yet this EA starts with a cover letter requesting a waiver. This attitude is reflected throughout the document. This facility is expected to serve over 500,000 people, it is within sight and smell of 30,000 people and is perched atop Hawaii's largest wetland. Yet, it avoids any quantified discussion of the potential impact, and any concrete control measures required for this huge undertaking. We note the "preparer" is not identified in the document nor are their credentials.

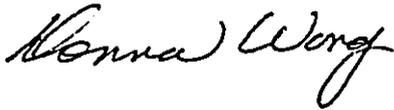
We would like to see the following items addressed in the next draft EA and placed in the Conditional Use Permit:

- **Odor:** There must be provisions for odor monitoring with established regulatory levels. Based on a review of the green waste trade magazine "BioCycle," smell is still a major problem at these facilities nation-wide. Numerous control technologies are available, yet this EA does not discuss any of them. The EA dismisses smell due to the predominate trades, however, during Kona winds and during the evenings, the cool air from the hills settles towards the coast. This has caused the smell from the Waimanalo GWRF to cause health problems and odors on the coast up to two miles away.
- **Stormwater Runoff:** Recent water quality monitoring has shown the Kawai Nui Marsh to be extremely sensitive to nitrogen levels. The added urea at the proposed GWRF could easily upset the balance. Two things will help to minimize the impact. One, a continual nitrogen balance calculation could be used to reduce excess nitrogen and second a routine mandatory storm water runoff sampling. The storm water monitoring of runoff from the windrows should also be designated in the Conditional Use Permit. The EA should show locations of monitoring wells and pre- and post-proposal nitrogen levels.
- **Marine Waters:** The flippant remark about Kaneohe marine waters in paragraph 3.1.5.2 should be replaced with a serious study of the potential impact on the actual receiving waters of Kailua Bay (not Kaneohe).

- Miscellaneous: Regular site visits by the neighborhood board should be stipulated in the Conditional Use Permit. The EA should address public citizen visits as safety permits. The traffic flow study should address whether all vehicles are allowed or would only trucks from C&C transfer stations. Also heavy truck traffic should be limited to the H-3 highway and should avoid residential roads.

With proper design, operation, and monitoring, a GWRF may become a point of pride of Kailua, however, this will only happen with serious consideration of the environmental tradeoffs inherent in the concentration and treatment of any waste. The people of Kailua deserve the best available control technology to maintain our quality of life and to prevent Kailua from unfairly carrying the burden of half the island of Oahu.

We look forward to your reply.



Donna Wong, Chairwoman
Planning and Zoning Committee
Environmental Committee

cc: Department of Land and Natural Resources
Office of Environmental Quality Control
Mr John Harter, Department of Health
Mr. Kenneth Sprague, Department of Public Works



We combine skill and craft with knowledge and fact.

OAHU TREE & STUMP EXPERTS

November 3, 1995

Ms. Donna Wong, Chairperson
Planning and Zoning Committee
Environment Committee
Kailua Neighborhood Board #31
PO Box 487
Kailua, Hawaii

Dear Ms. Wong:

The following information is provided to the Kailua Neighborhood Board in response to your comments on our Draft Environmental Assessment for the Greenwaste Recycling Facility at the Kalaheo landfill site.

ODOR: There are two main sources of odors in composting operations. First are those caused by excessive nitrogen in the material. For microbes which decompose the organic materials, the amount of nitrogen and carbon must be balanced. If there is not enough nitrogen, than the microbes will not be active, and the process will proceed very slowly.

However, if there is too much nitrogen, ammonia and volatile organic compounds are produced. These unpleasant odors are frequently associated with sludge composting facilities, because the incoming organics are high in nitrogen and low in carbon. If sufficient carbon source (woody material) is not added quickly the smells will be released every time the compost is moved or turned. Materials which are responsible for the most significant odor problems (e.g., sewage sludge, grease trap waste and food wastes) will not be accepted at this facility, as they have been at both the Waimanalo and Maui County composting sites where there have been significant odor problems.

Excess nitrogen is rarely a problem in a greenwaste composting program because most plant trimmings have a good carbon to nitrogen balance. The exception would be large masses of grass clippings. Lawn maintenance services should be encouraged to "grass-cycle", mulching and leaving the grass where it is mowed. If grass is received in large amounts, then it can easily be mixed with woodier materials before it is placed into the windrows to avoid the problem. Use of urea by our composting operation will be extremely limited, and applied only if there were not sufficient nitrogen available in the incoming materials. This will reduce the possibility of excess nitrogen migrating off-site.

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Contractor's License Number C17036

Ms. Donna Wong
Kailua Neighborhood Board #31
Page 2

The second type of compost odors are caused when insufficient oxygen is available and the composting materials becoming anaerobic. Associated with this condition are the hydrogen sulfide gas (rotten egg smell) odors. At greenwaste composting sites, these odors are only produced if the compost windrows are not turned at frequent enough intervals. If these odors are ever produced, simply providing more frequent aeration will remove the problem.

At the beginning of the composting process, it is important for the compost pile to reach and maintain higher temperatures (above 135 degrees Fahrenheit), for three to four days, to kill weed seeds. Once this has been accomplished, the compost can be turned as often as necessary to keep it from becoming anaerobic. In dryer climates, operators frequently do not wish to turn the material too often because moisture is released, and then has to be replaced. At this site, lack of moisture should not be a problem.

To reduce the possibility of off-site odors impacting the facility neighbors, the first line of detection will be provided by the facility workers and the on-site operations manager. As they might become accustomed to odors, truck drivers delivering loads (including County drivers) will be asked to notify operator if they smell anything unusual. Finally, the scale house/gate operator will be on the vigil for odors coming down the hill.

Any odors which might be produced would be expected to be quickly dissipated because the site is subject to almost continual air movement. It should also be noted that the prevailing wind direction is away from population centers, so even if odors are produced inadvertently, there would be minimal impacts on the neighborhoods.

STORMWATER RUNOFF: Standard operating procedures for compost sites allow for maintaining the desired moisture level in the ground greenwaste compost piles through a series of techniques. First, the plies are arranged along the slope of the land so that water is not held against the piles, but runs off between them.

The top of the landfill is required to have a slope of about 2% to provide drainage, and this is considered sufficient and standard for composting sites. The slope of surface of the landfill will drain rainfall to the southwest. Stormwater run-off purification is best accomplished by providing grasslands down gradient from the compost site, on the sides of the landfill. The grasses catch any compost which is washed off site, and uptake nutrients before they reach the wetlands. The excess rainwater will drain off the site through the perimeter drainage channel to the landfill siltation basin.

Ms. Donna Wong
Kailua Neighborhood Board #31
Page 3

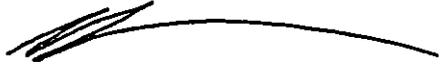
Further, as the compost settles following the pile formation, the material packs down and most of the rainfall will just run off the pile. Because of this, if it ever becomes necessary to add moisture to the compost the pile must be opened up and turned, or the top of the pile must be flattened so that the water can penetrate before it runs off.

TRAFFIC: It is projected that greenwaste will be received at the facility from tree trimming contractors, landscapers, the City and county transfer stations and the general public. Signs posted at the gate will request that those bringing greenwastes to the site avoid using residential roads.

I share your your concern for the well being of Kailua and the Kawai Nui Marsh. I also wish to see the facility become a point of pride for Kailua and will operate it in a responsible manner to protect the environment. I would encourage you to visit the site when we begin operations.

If you have any further questions with regard to these responses to your comments, please do not hesitate to contact me at 396-8844.

Sincerely,



Charles Tasker

Oahu Tree & Stump Experts

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

NOTICE OF PUBLIC HEARING
ON USE WITHIN
THE CONSERVATION DISTRICT

DATE: November 15, 1995
TIME: 6:00 P.M.
PLACE: Kalanimoku Building (Board Room 132)
1151 Punchbowl Street, Honolulu

The Board of Land and Natural Resources, State of Hawaii, pursuant to Section 183C, Hawaii Revised Statutes, will hold a board meeting for the purpose of a public hearing to receive testimony on the following:

Conservation District Use Application No. OA-2785 to Establish a Commercial Greenwaste Recycling Facility at the Old Kalaheo Landfill, Kailua, Oahu; TMK: 4-2-15: 9. Applicant: Charles R. Tasker dba Oahu Tree and Stump Removal Experts.

Information and maps of the general location of the area under consideration are on file for inspection at the Department of Land and Natural Resources, 1151 Punchbowl Street, Room 131, Honolulu.

Any person may testify or present information on the application. If you have a legal interest that may be adversely affected by the application, you have a right to request an administrative contested case hearing. However, you must make the request either orally or in writing by the close of this public hearing and file a written petition for a contested case hearing within 10 days after the date of this public hearing. If you do not make such a request or fail to file a timely written petition with the Department of Land and Natural Resources, the consequence is that you will be precluded from later obtaining a contested case hearing, and seeking judicial review of the adverse decision without a contested case hearing. See Chapter 13-1, Hawaii Administrative Rules of the Department of Land and Natural Resources.

BOARD OF LAND AND NATURAL RESOURCES

Michael D. Wilson
f MICHAEL D. WILSON, Chairperson and
Member
Dated: OCT 17 1995

PUBLICATION DATE: October 25, 1995

HONOLULU ADVERTISER

BENJAMIN J. CAYETANO
GOVERNOR OF HAWAII



LAWRENCE MIKE
DIRECTOR OF HEALTH

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

In reply, please refer to:
EMD/SHW

October 5, 1995

S0922GT

Mr. Charles R. Tasker
Kalaheo Greenwaste Recycling Facility
P. O. Box 26176
Honolulu, Hawaii 96825

Dear Mr. Tasker:

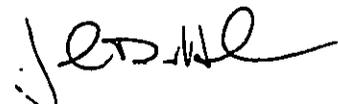
Subject: Solid Waste Management Permit Application to
operate a Greenwaste Composting Facility
Permit No. CO-0040-95

This is to acknowledge receipt of your application for the
subject permit. The filing fee for composting facilities is
\$50.00. The amount received was \$20.00. It is requested that
the additional \$30.00 be submitted as soon as possible. Your
receipt for the \$20.00 is enclosed.

The application is currently under review and any questions or
comments will be forwarded to you for response.

If you have any questions, please contact George Teramoto of my
staff at 586-4240.

Yours truly,


JOHN HARDER, Coordinator
Office of Solid Waste Management

Enclosure: Receipt for \$20.00

JH:gt

7

1996-01-23-0A-~~FEA~~ Kamehameha Hwy. Helemano/Waiialua Junction
JAN 23 1996
FILE COPY

FINAL ENVIRONMENTAL ASSESSMENT
CHAPTER 343, HAWAII REVISED STATUTES (HRS)

FOR THE PROPOSED

KAMEHAMEHA HIGHWAY
HELEMANO/WAIALUA JUNCTION

ALTERNATE ROUTE

PROJECT NO. 83A-02-92

PREPARED FOR THE
STATE DEPARTMENT OF
TRANSPORTATION

HIGHWAYS DIVISION

JANUARY, 1996

PREPARED BY
ENVIRONMENTAL COMMUNICATIONS
ENGINEERS SURVEYORS HAWAII, INC.

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2.	PROJECT LOCATION MAP
3.	PROJECT LIMITS MAP
4.	PRESENT DESIGN
5.	ALTERNATIVE " A "
6.	ALTERNATIVE " C "
7.	ALTERNATIVE " D "
8.	SMA / FLOOD ZONE MAP

L SUMMARY INFORMATION

Project Name: Haleiwa Bypass Waialua Connection
Final Environmental Assessment

Proposing Agency: State of Hawaii
Department of Transportation
Highways Division

Accepting Authority: Governor, State of Hawaii

Agencies to be Consulted: (Listed in Section VII)

Project Location: The project area is located within the vicinity of the Weed Junction Traffic Circle in the Waialua District of Oahu. TMK: 6-2-07; and 6-4-01

Landowner: State of Hawaii & Castle & Cooke, Inc.

Existing Use: Vacant

State Land Use: Agriculture

Development Plan: Agriculture

Zoning: AG-1

Project Description: The proposed project consists of a new connection plan for the Haleiwa Bypass Road system.

An Environmental Impact Statement for the Haleiwa By-pass road was published in 1981 and has been subsequently reevaluated and revised in 1987. Detailed information on the By- pass road can be found within these documents.

This study addresses only the new connection system and addresses environmental impacts associated within the system.

II. PROJECT DESCRIPTION

Background

The proposed project involves the construction of an alternate connection to Waialua/Haleiwa town from the by-pass roadway. The existing bypass roadway begins before the Weed Junction Traffic Circle and rejoins Kamehameha Highway (FAP Route 83) near the Haleiwa Beach, a distance of 2.3 miles. The portion of the new connector road (proposed action) is limited to the southeastern portion of Weed Junction.

Due to public concern over loss of economic activity in the town of Haleiwa which could result due to the by-pass roadway, the southeastern connection of the Kamehameha Highway and the Haleiwa Bypass will be revised to encourage traffic to travel along the existing Kamehameha Highway which goes through the town of Haleiwa, via Weed Junction.

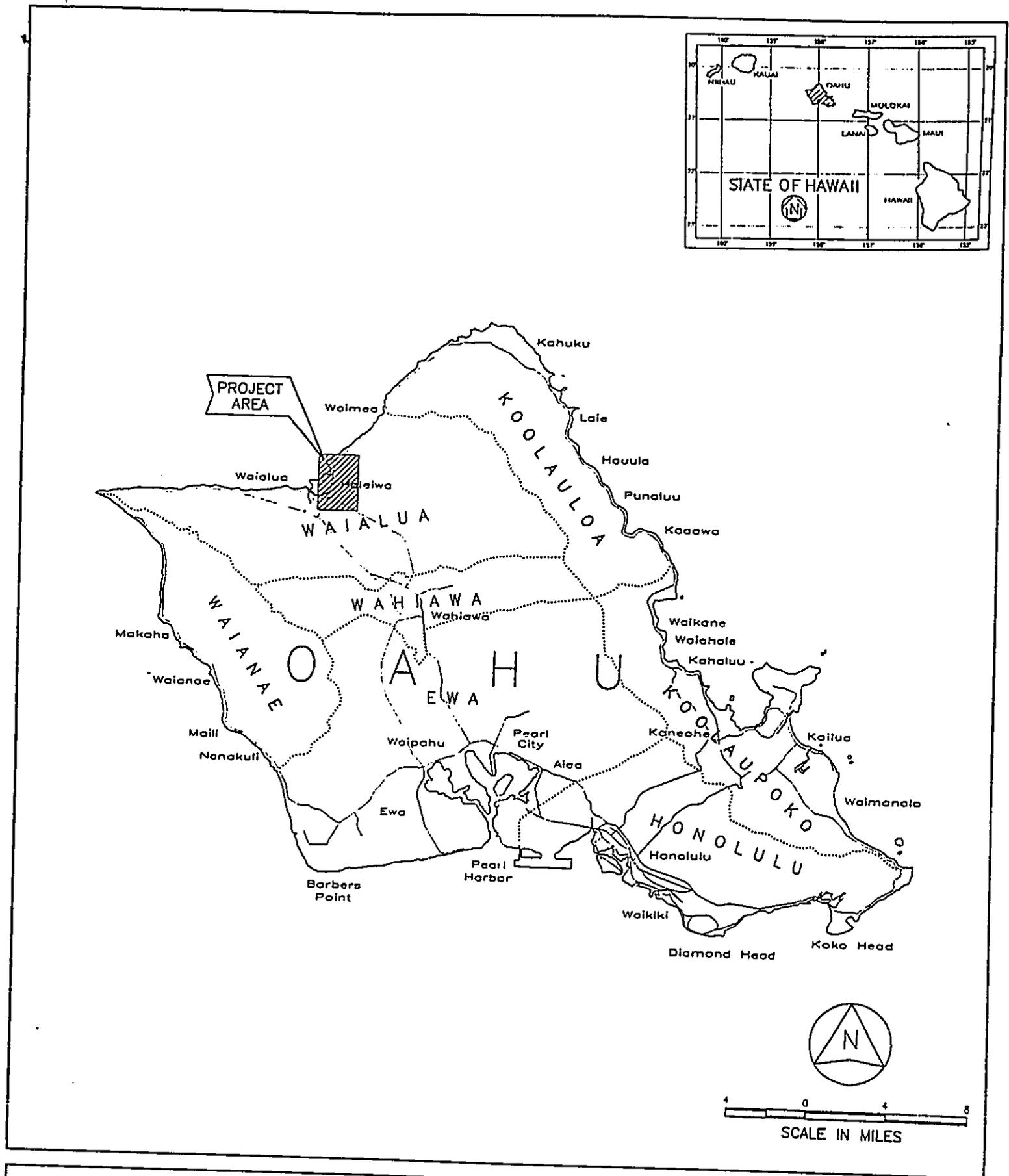
This environmental assessment focuses on the revised southeastern terminus design. The project's effect on anticipated environmental impacts and proposed mitigation measures have been discussed in the 1981 FEIS and reevaluated in 1987 generally remain valid to date.

The project area, location map and the general project limits are shown in Figures 1 to 3. The Special Management Area (SMA) map is Figure 8.

Existing Conditions

The existing bypass road presently provides a direct route to the North Shore area of Oahu. An at grade tee intersection serves as the access point to Waialua and Haleiwa from the Wahiawa direction. Left turn movements would be required to access Haleiwa Town from the Wahiawa direction. This alternative would also require North Shore bound traffic originating from Waialua and Haleiwa to make left turn movements on to the bypass road.

Within the town of Haleiwa, Kamehameha Highway continues as a two lane facility providing a single traffic lane in each direction.



Haleiwa Bypass Waialua Connection
Draft Environmental Assessment

II-2

Figure 1
Project Area Map
 November 1995

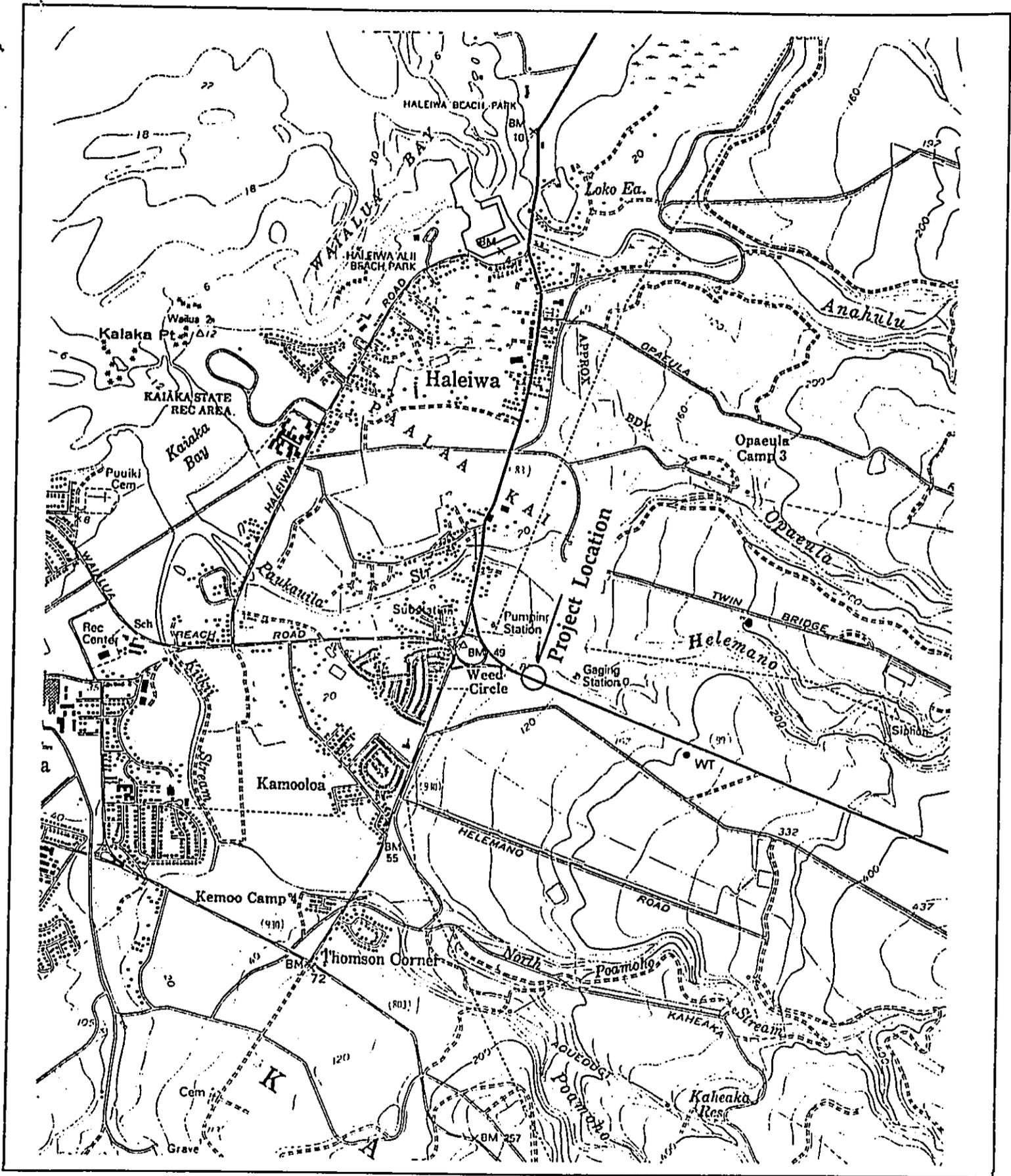
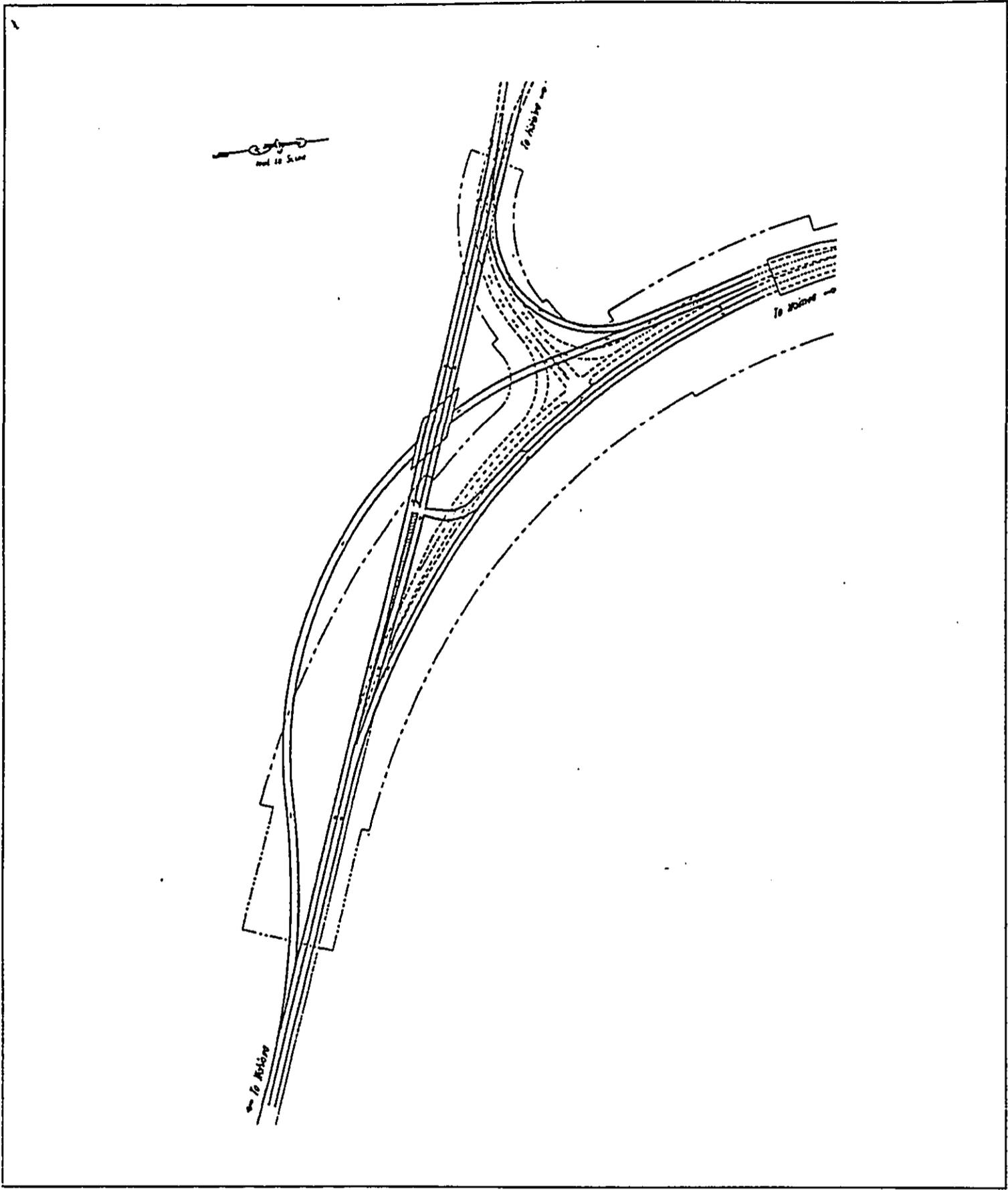


Figure 2
Project Location Map

Haleiwa Bypass Waiialua Connection
Draft Environmental Assessment

II-3

November 1995



Haleiwa Bypass Waialua Connection
Draft Environmental Assessment

II-4

Figure 3
Project Limits Map

November 1995

Technical Characteristics

Description of Present Design

The Haleiwa Bypass originates at Kamehameha Highway, east of the existing Weed Junction rotary and follows a north-south alignment that parallels Kamehameha Highway just mauka of Haleiwa Town. The Bypass Road is complete and in operation. The USGS Quad map (Figure 2) does not show the new road Addition. The portion of Kamehameha Highway into Haleiwa was re-aligned to form the stem of the T-intersection. The approaches at this intersection are signalized and consist of single through traffic lanes, in both directions, with dedicated lanes for turning movements.

Description of Proposed Design Alternative

Under the proposed design alternative, traffic from the Wahiawa direction will be able to enter directly into Haleiwa Town, on Kamehameha Highway, without having to make a left turn on the Bypass Road. Traffic heading towards Wahiawa Town, on the Haleiwa Bypass Road, will cross under Kamehameha Highway and merge with the Wahiawa-bound traffic on Kamehameha Highway. Figure 3 shows the limits and layout of the proposed design alternative B.

As summarized in the *Haleiwa Bypass Evaluation of Alternatives of the Waialua Connection, Final Report* prepared in January 1993 by Parson Brinkerhoff Quade & Douglas, Inc., the proposed underpass alternative has been designed with the following:

Traffic Operation

- The left-turn movements from the bypass road to Wahiawa-bound Kamehameha Highway will be grade separated.
- The left-turn movement from Kamehameha Highway to the Waimea-bound bypass road must yield to the Haleiwa-bound through movement on Kamehameha Highway.
- The proposed configuration produces a high-speed merge which requires drivers to look over their right shoulder while on a curve.

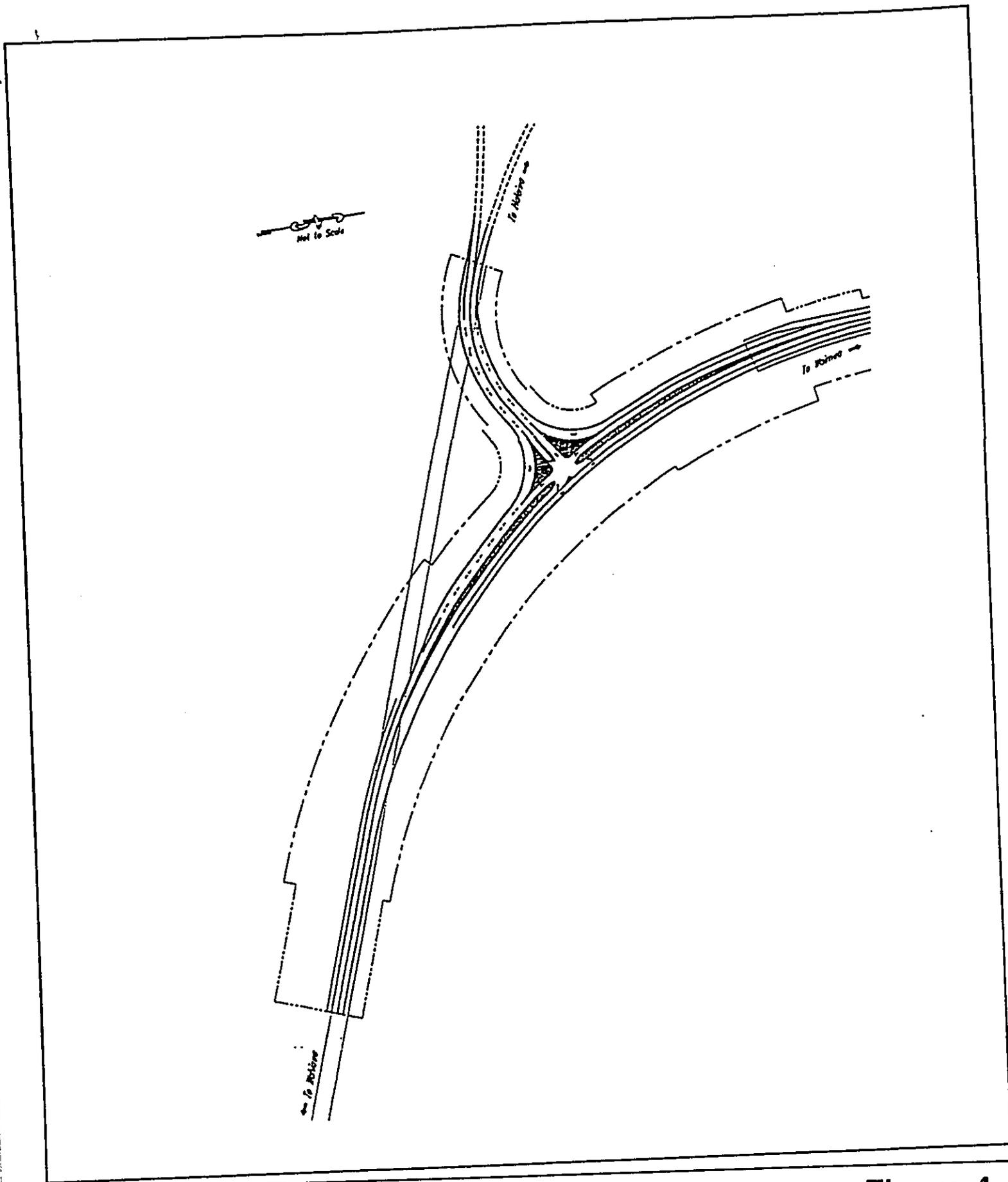


Figure 4
Present Design

- High traffic volumes from the underpass must merge with Wahiawa-bound traffic on Kamehameha Highway: Level of Service E conditions are anticipated.
- Location of the Helemano stream structure requires a reverse or "S" curve in the alignment to produce a ninety-degree intersection with Kamehameha Highway.
- Grade-separation produces fewer conflicts than an at-grade separation.

Cost Factors

- Estimated construction costs are \$5.5 to \$6.0 million higher than the previously proposed alignment.
- Underpass and retaining structures are required.
- Acquisition of additional right-of-way is required for construction of the underpass and merge ramp.
- Kamehameha Highway will require widening to provide a left-turn lane to the Waimea-bound bypass road.
- This alternative will require removal of the existing intersection.

Constructability

- Additional environmental issues may need to be addressed which may delay completion of the project.
- The existing cane haul access road to Kamehameha highway may require relocation.
- Detours during construction will be required. Present intersection can be used as a detour road.

Visual Impact

- The underpass structure would have moderate visual impacts.

Socio-economic Characteristics

Economic Concerns for Local Businesses

The proposed action will not result in the relocation of any residences or services and consequently will not have any direct property related impacts. The proposed alignment is expected to have positive economic impact on businesses located within Haleiwa Town.

During the course of the planning and construction of the bypass road, significant attention has been given to the potential economic impacts which may result from the diversion of local traffic. This has been expressed both positively and negatively with little consensus.

Beyond the socio-economic impact of the bypass road itself, notable attention has been to the Weed Junction terminus. As originally proposed, left-turn movements would be required for Waimea-bound traffic to access Haleiwa. This was of concern to local business which expressed that left-turn movements at the T-intersection are dangerous and will discourage traffic from entering Haleiwa.

The interchange alternative subject of this document is the proposed solution for this potential economic impact. By eliminating a left turn movement and maintaining access to Kamehameha Highway without the need to yield, accessibility to Haleiwa is maintained.

Employment and Materials

Construction of the proposed interchange will require additional labor employment which will result in additional tax revenues and increased spending. Additional materials will also be required for the underpass alternative due to grade separation change related structures.

Project Costs

It is projected that construction of the proposed interchange will require \$5.5 to \$6.0 million dollars to complete.

Environmental Characteristics

The proposed project will result in a minor change in environmental conditions from the present at-grade T-intersection. Moderate visual impacts will result from implementation of the proposed alternative. Traffic, air and noise conditions will not vary significantly from impacts expected from the present at-grade intersection..

III. AFFECTED ENVIRONMENT

The social, economic, and environmental context of the project area has not changed significantly since 1981. A complete description of environmental conditions can be found in the *Haleiwa Bypass Final Environmental Impact Statement, Report Number: FHWA-HI-EIS-80-01-F*.

The proposed project is located on the North Shore (Waialua District) of the island of Oahu, near the town of Haleiwa. The Waialua District is still primarily rural in character. Land use surrounding Haleiwa Town is predominantly classified conservation and agricultural. Sugar cane is the dominant crop.

The project area consist of fallowed agricultural land and vacant areas designed for roadway use. The topography of the project site is sloping towards the ocean and in the Haleiwa direction with a gradual flattening in the Weed Junction vicinity. Additional grading will be required for the bypass and underpass connections.

No hydrological resources are located on the project site. The project area is naturally drained and is not subject to flooding.

The roadway is included in the North Shore Development Plan Public Facilities Map of the city and county of Honolulu and is consistent with the land use and transportation plans for the area.

Examination of recent traffic data indicate that traffic growth predictions in the FEIS remain valid. The 1981 FEIS predicted traffic to increase by 2.5 percent of 1978 volumes per year. The FEIS used a 1978 traffic count of 14,500 average daily vehicles (ADT) along the Kamehameha Highway and increased this by 363 per year. Using the method found in the FEIS, ADT along the Kamehameha Highway should have been 19,582 in 1992. According to Parsons Brinckerhoff Quade and Douglas (1992), traffic volumes along the Kamehameha Highway were only 18,220 ADT in 1992.

IV. SUMMARY OF MAJOR IMPACTS AND ALTERNATIVES CONSIDERED

Generally, there are virtually no changes in the impacts anticipated with the selected alignment. Impacts of the revised project design, as they compare to the original design evaluated in the FEIS, are discussed below:

Scenic Impacts

The scenic impact of the proposed alternative will be greater than the existing intersection due to the underpass which will be more visible than the existing at-grade intersection. The proposed alternative would be visible to traffic using the Kamehameha Highway and the Haleiwa Bypass. However, the visual impact will not be significant since there is little development near the Waialua connection.

Economic Impacts

The FEIS identified that a bypass around Haleiwa could reduce the amount of impulse buying which Haleiwa business owners currently rely on for a significant portion of business. The new shopping center planned for the Pupukea area was also a concern. The bypass road could give the new shopping center a competitive advantage, as Haleiwa would be bypassed while traffic would continue to pass through Pupukea.

The proposed alternative will have less of an economic impact on Haleiwa businesses. Traffic traveling west on Kamehameha Highway will be able to continue directly into the town of Haleiwa, without having to yield to oncoming traffic traveling south on the Haleiwa Bypass.

Policy Revisions

Since the 1987 reevaluation of the Waialua connection and bypass road EIS, discussion and correspondence with various local, state and federal agencies have noted changes in policies.

In 1985, the U.S. Fish and Wildlife Service (USFWS) released an updated version of the Hawaiian Waterbirds Recovery Plan. The plan identified the Ukoa Marsh as a more critical component of the overall endangered waterbird recovery program. The USFWS was therefore contacted to determine if there had been any changes in the project's impact on threatened or endangered species. The USFWS determined that the selected alignment as approved in the FEIS would not jeopardize the continued existence of any listed species. USFWS reconfirmed their position on September 27, 1991; no significant new information resulted. The project area is not located within the Ukoa Marsh area.

The U.S. Soil Conservation Service (SCS) was contacted, in accordance with the Farmland Protection Policy (7 CFR 658), because the selected alternative alignment would require the use of prime agricultural lands. The SCS concluded the removal of these farmlands would have a significant impact on agriculture on Oahu. With the recent closure of the Waialua Sugar Mill, and the fallowed state of the portion of the project within the agriculture district, no economic impacts will result.

Coastal Zone Management Program

The State of Hawaii Department of Planning and Economic Development (DPED) reviewed the project for consistency with the Hawaii Coastal Zone Management Program (HCZMP). The HCZMP is an expression of state policy that furnishes guidance on the use, protection, and development of land and ocean resources within Hawaii's coastal zone. The DPED determined that the proposed project is consistent with the HCZMP. (This function has since shifted to the Office of State Planning, Office of the Governor.)

The proposed project is located within the Coastal Zone Management Area which now includes all projects within the State of Hawaii regardless of whether or not they are within the Special Management Area (SMA) or not.

Act 91, Session Laws of Hawaii, provides that the Coastal Zone Management Area now includes all land areas as well as marine waters extending to the limits of the State's Police power and management authority.

Act 258 amended Chapter 205A by adding two additional sets of objectives and policies, bring the total to nine objectives and policies that must be addressed by the proposed project. They are:

Recreational Resources

The closest receiving waters would be the junction of Halemano and Opaepa Streams. Once completed, impacts from surface runoff resulting from the construction of the connection would be non-existent or negligible.

Historic Resources

No known historic or archaeological resources of significance are located within the project location. If during construction, any previously unidentified archaeological sites are encountered, the work shall be stopped and the State DLNR Historic Sites Office shall be contacted.

Coastal Ecosystems

It is anticipated that the nature of the underpass structure will not significantly impact the Coastal Zone.

Coastal Hazards

There are no known hazards due to the subject action. The project site is located in Zone X, an area determined to be outside of the 500 year flood plain, according to the National Flood Insurance Program *Flood Insurance Rate Map* of September 4, 1987. See Figure 8).

Public Participation

The existing review processes for this project has been augmented by the various permits that will be required before construction can commence. The permits will require in their right, public participation to the extent that the concerns of the various publics are not addressed.

Beach Protection

The subject action will not result in an adverse impact to any beaches

Alternatives Considered

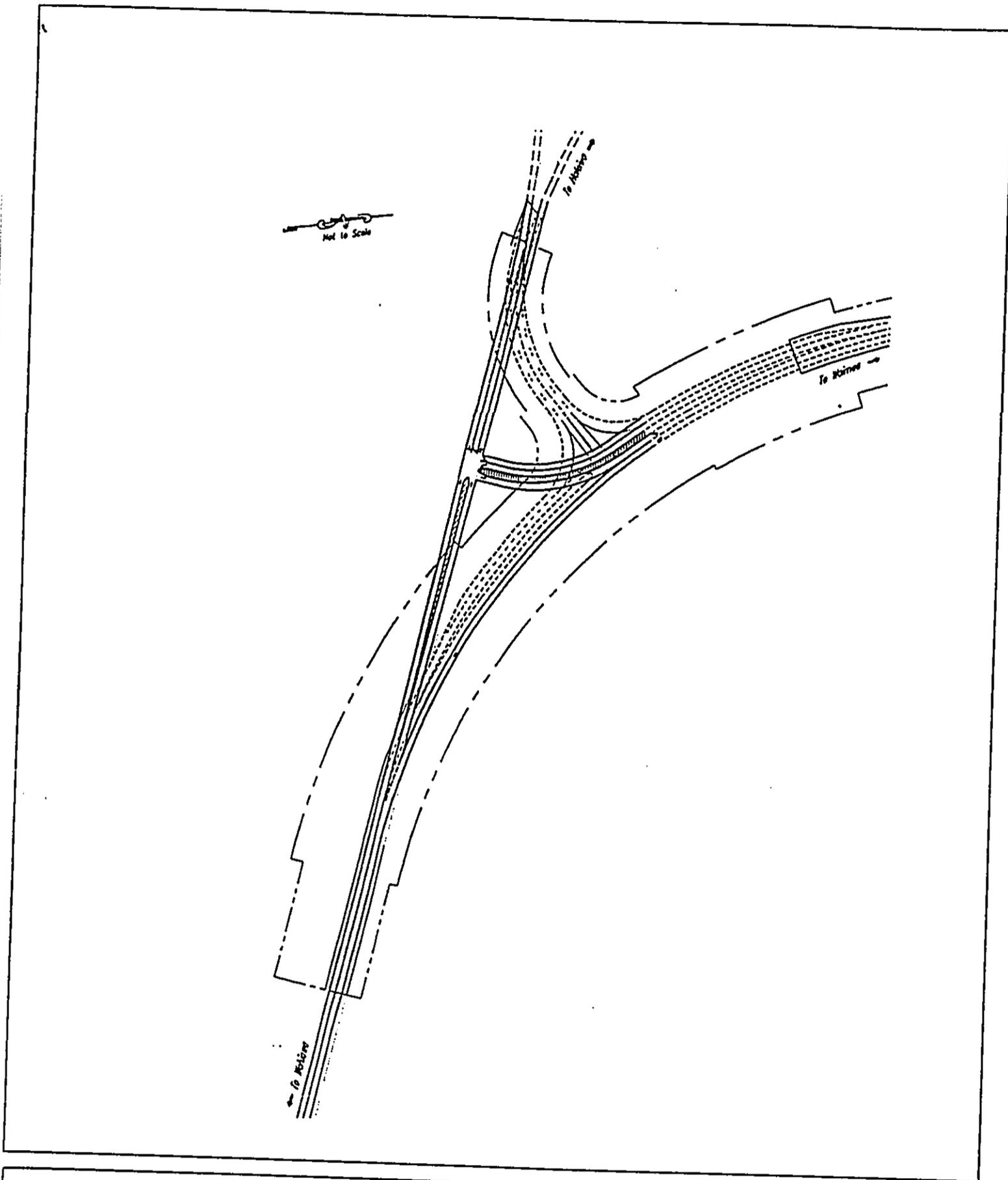
Alternatives considered have been documented in the *Haleiwa Bypass Evaluation of Alternatives for the Waialua Connection Final Report* prepared by Parsons Brinkerhoff Quade & Douglas, Inc. These alternatives consisted of the following:

No Action - "Do-Nothing Alternative"

Existing conditions would remain in their present state, with the newly completed By-Pass Road and the T-intersection as the only improvements. This alternative was rejected for safety reasons and community business concerns.

Alternative "A": Reverse T-Intersection

Under this alternative, the bypass road would be extended in a north-south alignment intersecting Kamehameha Highway forming the stem of a T-intersection (Figure 5). In this configuration, existing Kamehameha Highway would serve as the primary through roadway with the Haleiwa Bypass approach as the minor intersection approach. The major approaches at this intersection

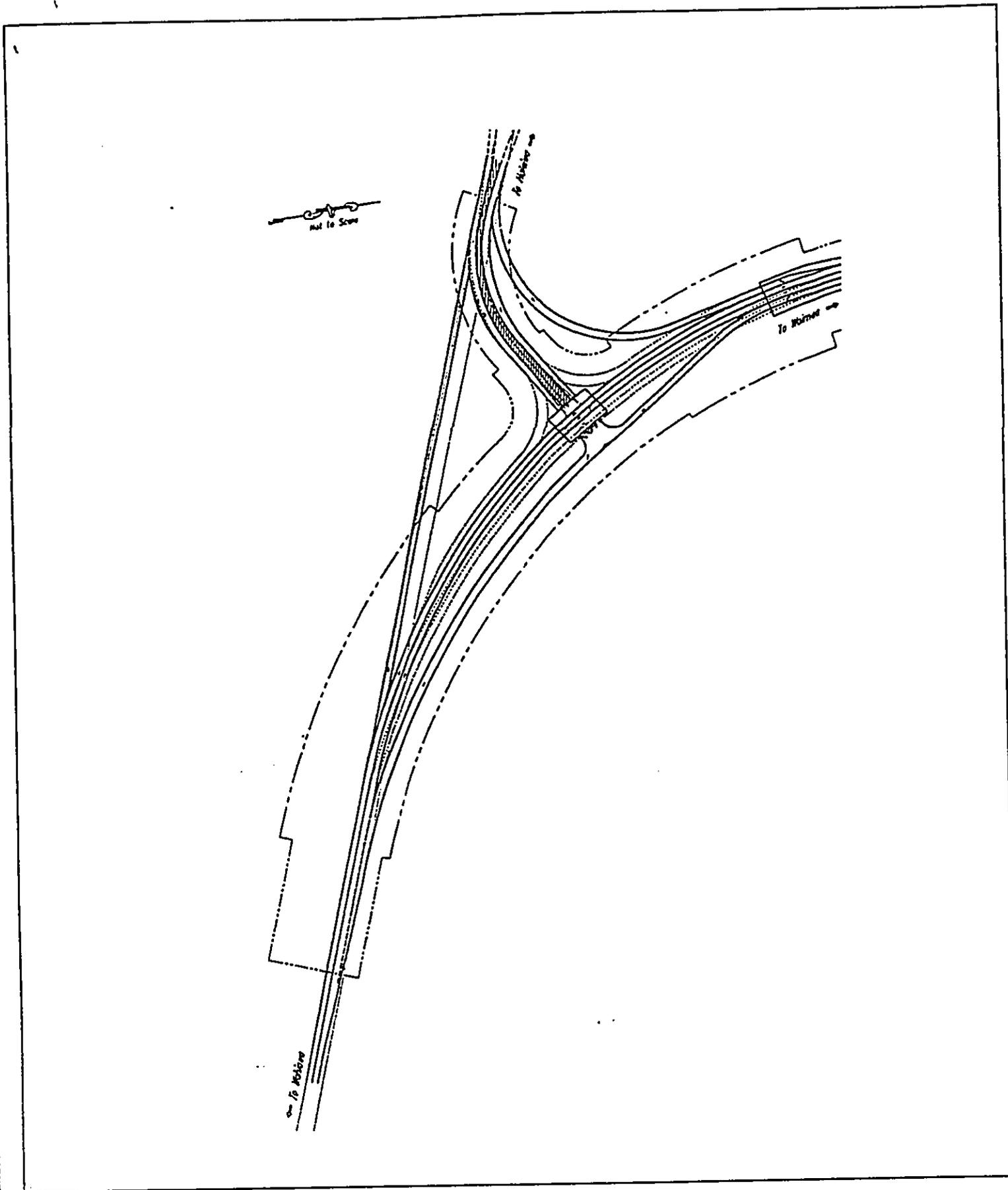


Haleiwa Bypass Waialua Connection
Draft Environmental Assessment

IV-4

FIGURE 5
ALTERNATIVE " A "

November 1995



consist of single through traffic lanes with dedicated lanes for turning movements while the minor approach would have separate lanes for left-turn and right-turn movements. This alternative would still require a major intersection and was consequently rejected.

Alternative "B": Underpass

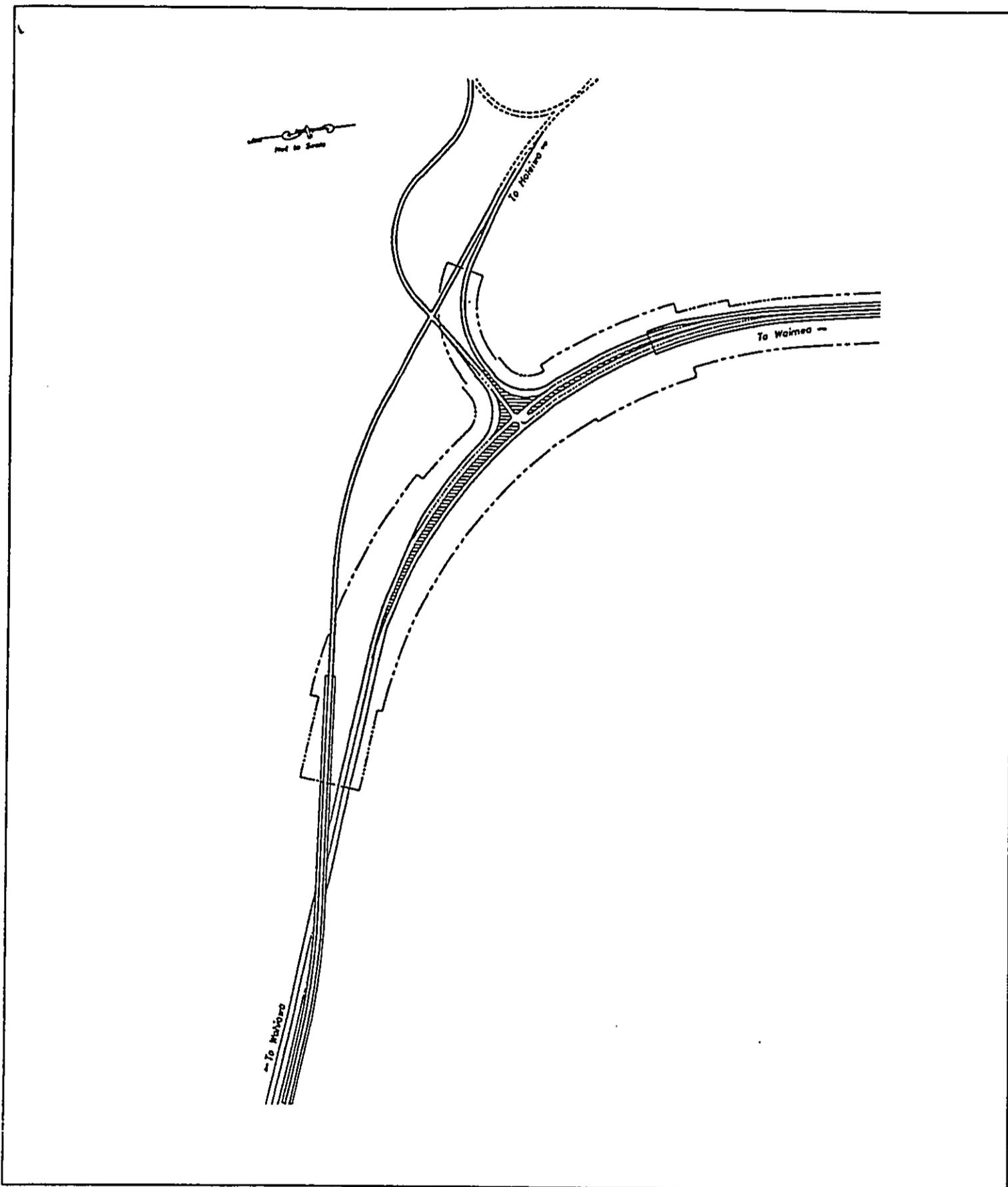
This is the project alternative as discussed in this document. (See characteristics, Page II-5).

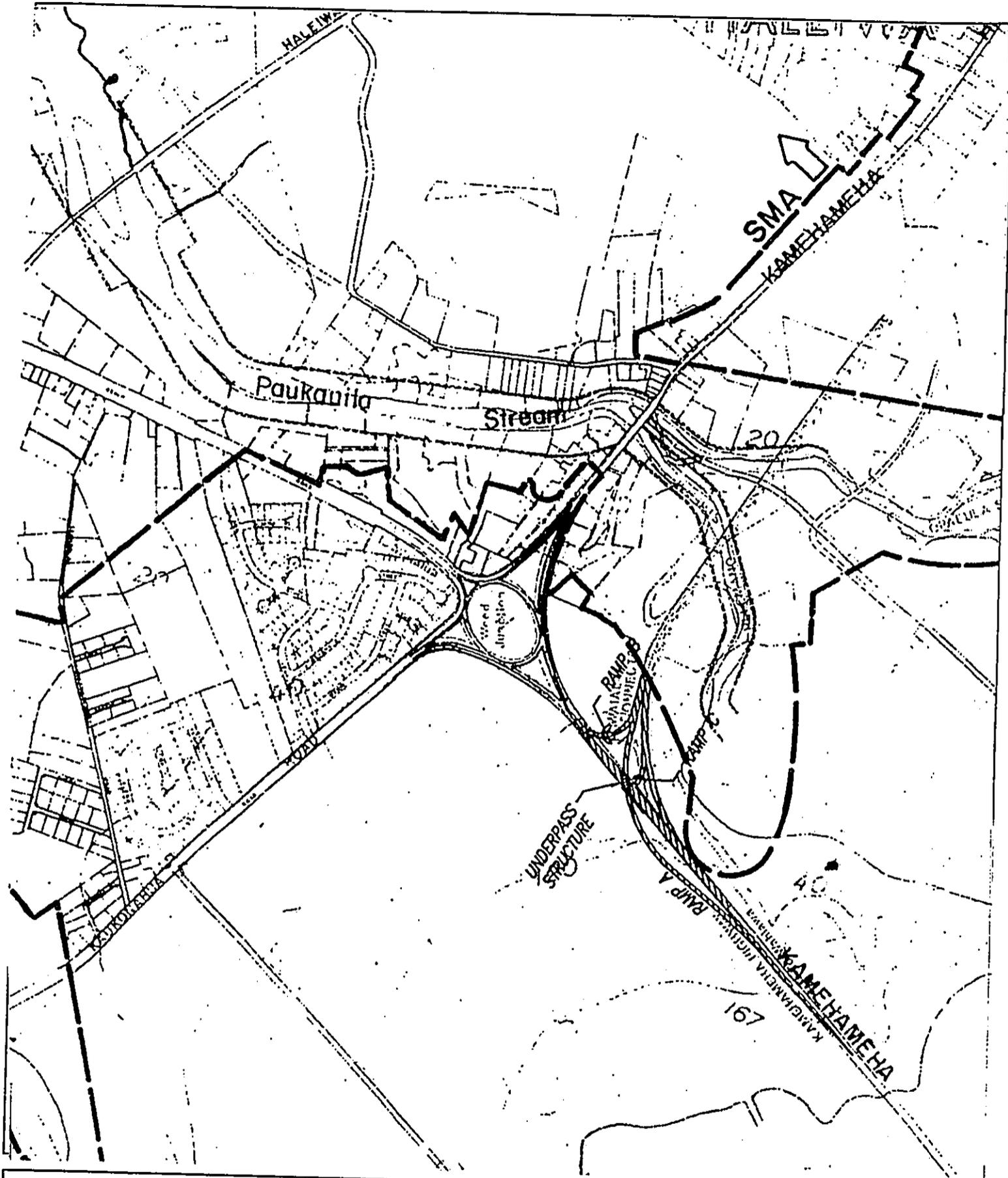
Alternative "C": Diamond Interchange

This alternative was considered the most viable next to the proposed alternative design. This alternative would retain the Haleiwa Bypass as the primary through roadway and provide grade separation for left-turn movements to and from Weed Junction (Figure 6). Alternative "C" would function as a freeway diamond interchange. An underpass structure allows the left-turn movement from Kamehameha Highway to Haleiwa and the left-turn movement from Weed Junction to Waimea-bound bypass road to cross beneath the Haleiwa Bypass. The left-turn movement from Kamehameha Highway to Haleiwa would operate as a free movement while the left-turn movement from Weed Junction to Waimea would be controlled by a stop sign. Alternative "C" would utilize the alignment of existing Kamehameha Highway to serve traffic movements from Weed Junction to Wahiawa. All movements at this intersection would be served by separate dedicated traffic lanes.

Alternative "D": Flyover Ramp

This alternative retains the at-grade intersection in the "Present Design" at the Waialua connection of the Haleiwa Bypass with the addition of a single lane overpass structure/flyover ramp (Figure 7). The flyover ramp would eliminate the left-turn movement from Haleiwa-bound Kamehameha Highway to Weed Junction by providing a connection from Kamehameha Highway to Weed Junction for traffic from Wahiawa to Haleiwa, Waialua or Mokuleia. All other traffic movements at the Waialua connection would continue to be served by the at-grade intersection in the "Present Design". The connection of the flyover ramp to the Wahiawa-bound leg of Weed Junction introduces another at-grade intersection between Weed Junction and the original intersection. This alternative was dropped from consideration due to visual impacts and high costs.





Haleiwa Bypass Waialua Connection
 Final Environmental Assessment

Figure 8
Special Management Area

V. MITIGATION MEASURES

As discussed above under economic impacts, the revised intersection design is proposed to mitigate adverse economic effects which could impact businesses in the town of Haleiwa. The proposed underpass design will make it equally convenient to continue along Kamehameha Highway or travel north on the Haleiwa Bypass. There are no other changes from the proposed mitigation measures contained in the FEIS.

Construction related impacts will be mitigated by appropriate construction measures as prescribed by Department of Health regulation, construction standards and Honolulu Police Department notification requirements. Traffic diversion will be required during the construction period and may cause some inconvenience but will only last until project completion. Noise and dust impacts should not be significant to residences due to the distance from the construction site to the nearest residential sites.

VI. REFERENCES

Parsons Brinckerhoff Quade and Douglas. 1992. Haleiwa Bypass evaluation of alternatives for the Waialua connection - Draft. Prepared for U.S. Department of Transportation Federal Highway Administration and State of Hawaii Department of Transportation, Honolulu, Hawaii. 28p + Appendices.

U.S. Department of Transportation Federal Highway Administration and State of Hawaii Department of Transportation. 1981. Haleiwa Bypass final environmental impact statement: Kamehameha Highway realignment from Weed Junction to Haleiwa Beach Park (report number: FHWA-HI-EIS-80-01-F). Lead Agency Federal Highway Administration. Honolulu, Hawaii. 225p + Appendices.

U.S. Department of Transportation Federal Highway Administration and State of Hawaii Department of Transportation. 1987. Kamehameha Highway realignment final environmental impact statement reevaluation. Federal Highway Administration and State of Hawaii Department of Transportation, Honolulu, Hawaii.

**VII. LIST OF AGENCIES CONSULTED IN THE PREPARATION OF
THE ENVIRONMENTAL ASSESSMENT**

ORGANIZATIONS AND AGENCIES

Agency Date of Consultation Date Comment Rec'd

Federal

U.S. Dept. of Interior
Fish & Wildlife Service

U.S. Army Corps of Engineers
Operations Branch

11-22-95

U.S. Dept. of Agriculture
Soil Conservation Service

U.S. Geological Survey
Water Resources Division

11-9-95

State of Hawaii

Dept. of Land and Natural Resources
Office of Conservation Affairs

Dept. of Health
Environmental Mgt. Division

12-5-95

Dept. of Business Economic Development
and Tourism

Office of the Governor
Office of State Planning
Coastal Zone Management

Dept. of Agriculture
Planning/Development

UH-Manoa - Environmental Center

UH-Manoa - Water Resources Research Center

Dept. of Accounting/General Services
State Engineer

11-14-95

Dept. of Defense

Dept. of Hawaiian Home Lands

City & County of Honolulu
Building Dept.

Dept. of Land Utilization
Environmental Affairs

11-28-95

Planning Dept.

Dept. of Public Works

11-20-95

Dept. of Housing &
Community Development

12-7-95

Board of Water Supply

11-28-95

Dept. of Transportation Svcs.

Fire Department

11-15-95

Police Department

Dept. of Parks & Recreation

11-24-95

No. Shore Neighborhood Bd. # 27
P.O. Box 607
Haleiwa, HI 96712

Ms. Pam Harlow
Haleiwa Main Street
P.O. 878
Haleiwa, HI 96712



United States Department of the Interior

U.S. GEOLOGICAL SURVEY

WATER RESOURCES DIVISION
677 Ala Moana Boulevard, Suite 415
Honolulu, Hawaii 96813

November 9, 1995

Mr. Herbert Tao
State of Hawaii
Department of Transportation
869 Punchbowl St.
Honolulu, Hawaii 96813

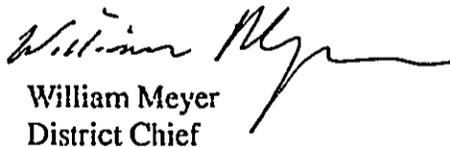
Dear Mr. Tao:

Subject: Draft Environmental Assessment, Kamehameha Highway
Helemano/Waialua Junction, Alternate Route
TMK: 6-2-07; 6-4-01

The staff of the U.S. Geological Survey, Water Resources Division, Hawaii District, has reviewed the Draft Environmental Assessment, and we have no comments to offer at this time.

Thank you for allowing us to review the DEA. We are returning it for your future use.

Sincerely,

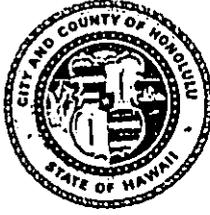

William Meyer
District Chief

cc: Fred Rodriguez, Environmental Communications

NO RESPONSE REQUIRED

DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET
HONOLULU, HAWAII 96813



JEREMY HARRIS
MAYOR

KENNETH E. SPRAGUE
DIRECTOR AND CHIEF ENGINEER

DARWIN J. HAMAMOTO
DEPUTY DIRECTOR

ENV 95-316

November 20, 1995

Mr. Herbert Tao
Department of Transportation
Highways Division
State of Hawaii
869 Punchbowl Street
Honolulu, Hawaii 96813

Dear Mr. Tao:

Subject: Draft Environmental Assessment (DEA)
Kamehameha Highway Helemano/Waiialua Junction
TMK: 6-2-07; 6-4-01

We have reviewed the subject DEA and have no comments to offer at this time.

Should you have any questions, please contact Mr. Alex Ho,
Environmental Engineer, at 523-4150.

Very truly yours,

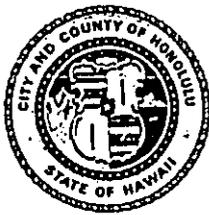

FOR KENNETH E. SPRAGUE
Director and Chief Engineer

cc: Environmental Communications
(Fred Rodriguez)

NO RESPONSE REQUIRED

FIRE DEPARTMENT
CITY AND COUNTY OF HONOLULU

3375 KOAPAKA STREET, SUITE H425
HONOLULU, HAWAII 96819-1869



JEREMY HARRIS
MAYOR

ANTHONY J. LOPEZ, JR.
FIRE CHIEF

ATTILIO K. LEONARDI
FIRE DEPUTY CHIEF

November 15, 1995

Mr. Herbert Tao
Department of Transportation
State of Hawaii
869 Punchbowl Street
Honolulu, Hawaii 96813

Dear Mr. Tao:

SUBJECT: Kamehameha Highway Helemano/Waialua Junction
Alternate Route

We have reviewed the subject material provided and foresee no adverse impact in Fire Department facilities or services.

Should you have any questions, please call Assistant Chief Arthur Ugalde of our Administrative Services Bureau at 831-7774.

Sincerely,

A handwritten signature in cursive script, appearing to read "Attilio K. Leonard", is written over the typed name of the Fire Chief.

for ANTHONY J. LOPEZ, JR.
Fire Chief

RHL:ny

cc: Environmental Communications (Fred Rodriguez)

NO RESPONSE REQUIRED

BENJAMIN J. CAYETANO
GOVERNOR



SAM CALLEJO
COMPTROLLER

MARY PATRICIA WATERHOUSE
DEPUTY COMPTROLLER

STATE OF HAWAII
DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES
P. O. BOX 119, HONOLULU, HAWAII 96810

LETTER NO. (P) 1786.5

NOV 14 1995

Department of Transportation
Highways Division
State of Hawaii
Honolulu, Hawaii

Attention: Mr. Herbert Tao

Gentlemen:

Subject: Kamehameha Highway Helemano/Waiialua Junction
Alternate Route
Waiialua, Oahu
Preliminary Draft Environmental Assessment

Thank you for the opportunity to review the subject document. The proposed project will not impact any of our facilities. Therefore, we have no comments to offer.

If there are any questions, please call Mr. Ralph Yukumoto of the Planning Branch at 586-0488.

Very truly yours,

A handwritten signature in cursive script, appearing to read "Gordon Matsuoka".
GORDON MATSUOKA
State Public Works Engineer

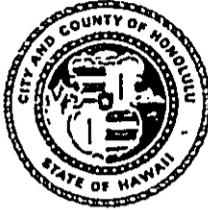
RY:jk

cc: Mr. Fred Rodrigues, Environmental Communications

NO RESPONSE REQUIRED

DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET, 5TH FLOOR • HONOLULU, HAWAII 96813
PHONE: (808) 523-4427 • FAX: (808) 527-5498



JEREMY HARRIS
MAYOR

ROLAND D. LIBBY, JR.
DIRECTOR

ROBERT AGRES, JR.
DEPUTY DIRECTOR

December 7, 1995

Mr. Herbert Tao
Highways Division
State Department of Transportation
869 Punchbowl Street
Honolulu, Hawaii 96813

Dear Mr. Tao:

Subject: Request for Comments for the Preliminary Draft Environmental Assessment - Kamehameha Highway Helemano/Waialua Junction Alternative Route

This is in response to your letter of November 8, 1995 requesting our comments on the Kamehameha Highway Helemano/Waialua Junction Alternative Route. The proposed development does not conflict with any current or proposed Department projects. We have no further comments to offer at this time.

Should you have any questions, please contact Rae Gee of the Planning and Analysis Division at 527-5088.

Thank you for the opportunity to comment.

Sincerely yours,

A handwritten signature in cursive script that reads "Gail Kaito".

GAIL M. KAITO
Acting Chief Planner

cc: Environmental Communications

NO RESPONSE REQUIRED

DEC 8 1995

BENJAMIN J. CAYETANO
GOVERNOR



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

KAZU HAYASHIDA
DIRECTOR
DEPUTY DIRECTORS
JERRY M. MATSUDA
GLENN M. OKIMOTO

IN REPLY REFER TO:

HWY-DS
2.8540

December 20, 1995

Ray! MERRY CHRISTMAS!
Mr. Raymond H. Sato
Manager and Chief Engineer
Board of Water Supply
City and County of Honolulu
630 South Beretania Street
Honolulu, Hawaii 96843

Dear Mr. Sato:

Subject: Kamehameha Highway Helemano/Waiialua Junction Alternate
Route, Project No. 83A-02-92

We have received your comments dated November 28, 1995 and we
respond as follows:

1. The construction plans, with your review comments, will
be resubmitted to the Board of Water Supply for review
and approval.
2. The existing 20-inch water main is acknowledged as
being within the subject parcel area.

Thank you for your prompt review and comments.

Very truly yours,


HUGH Y. ONO
ADMINISTRATOR
Highways Division

BOARD OF WATER SUPPLY

CITY AND COUNTY OF HONOLULU

630 SOUTH BERETANIA STREET

HONOLULU, HAWAII 96843



November 28, 1995

JEREMY HARRIS, Mayor

WALTER O. WATSON, JR., Chairman
MAURICE H. YAMASATO, Vice Chairman
KAZU HAYASHI IIDA
MELISSA Y. J. LUM
FORREST C. MURPHY
KENNETH E. SPRAGUE

RAYMOND H. SATO
Manager and Chief Engineer

Mr. Herbert Tao
Highways Division
Department of Transportation
State of Hawaii
869 Punchbowl Street
Honolulu, Hawaii 96813

Dear Mr. Tao:

Subject: Draft Environmental Assessment (DEA) for the Proposed Kamehameha Highway
Helemano/Waiialua Junction Alternate Route (Project No. 83A-02-92), TMK: 6-2-07
and 6-4-01

Thank you for the opportunity to review the DEA for the proposed project. We have the following comments to offer:

1. We have an existing 20-inch water main along Kamehameha Highway within the subject area.
2. We returned the construction plans with our comments to the consultant, Engineers Surveyors Hawaii, Inc., on February 16, 1995, and have not received any submittals since.
3. The construction plans should be submitted for our review and approval.

If you have any questions, please contact Barry Usagawa at 527-5235.

Very truly yours,


RAYMOND H. SATO
Manager and Chief Engineer

cc: Fred Rodriguez, Environmental Communications

BENJAMIN J. CAYETANO
GOVERNOR



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

KAZU HAYASHI-DA
DIRECTOR
DEPUTY DIRECTORS
JERRY M. MATSUDA
GLENN M. OKAMOTO

IN REPLY REFER TO

HWY-DS
2.8542

December 20, 1995

Mr. Patrick T. Onishi, Director
Department of Land Utilization
City & County of Honolulu
650 S. King Street
Honolulu, Hawaii 96813

Dear Mr. Onishi:

Subject: Kamehameha Highway Helemano/Waiialua Junction Alternate
Route, Project No. 83A-02-92

We have received your comments dated November 28, 1995 and we
respond as follows:

1. We note that both Helemano and Opaepa Streams are the closest waterways to the proposed project site. Both streams are approximately 1200' away from the planned improvements, and it is unlikely that construction runoff will impact the streams. Best Management Practices (BMP) will include grassing and hydromulching, as called for in the construction specifications, minimizing exposed areas due to clearing and grubbing and to comply with the City ordinance on grading.
2. The drainage for the alternate roadway consists of inlets and culverts that will connect into the existing drainage system of the bypass road.
3. The existing Haleiwa Bypass and the proposed alternate roadway will be shown on the Special Management Area (SMA) map and will be included in the Final E.A.

Thank you for your timely comments.

Very truly yours,

A handwritten signature in black ink, appearing to read "Hugh Y. Ono".

HUGH Y. ONO
ADMINISTRATOR
Highways Division

DEPARTMENT OF LAND UTILIZATION
CITY AND COUNTY OF HONOLULU
650 SOUTH KING STREET
HONOLULU, HAWAII 96813 • (808) 523-4432



JEREMY HARRIS
MAYOR

PATRICK T. ONISHI
DIRECTOR

LORETTA K.C. CHEE
DEPUTY DIRECTOR

95-07756 (DT)

November 28, 1995

Mr. Fred Rodriguez
P. O. Box 536
Honolulu, Hawaii 96809

Dear Mr. Rodriguez:

Draft Environmental Assessment (DEA) for
Kamehameha Highway Helemano/Waialua Junction Alternate Route
Tax Map Keys: 6-2-07 and 6-4-01

We have reviewed the above-referenced DEA and have the following comments:

1. Page IV-2 of the DEA mentions that the closest receiving waters are Helemano and Opaepa Streams. Best Management Practices (BMPs) should be implemented to prevent construction runoff from entering the stream. BMPs should be discussed in the Final Environmental Assessment (FEA).
2. What type of drainage system will be constructed on the bridge and where will its point of discharge be located?
3. The existing Haleiwa Bypass and the proposed alternate roadway to Waialua/Haleiwa town from the Bypass should be shown on the Special Management Area (SMA) map on page IV-8. Then we can determine whether the proposed roadway is within the SMA.

Thank you for the opportunity to comment. We would like to review the FEA when it becomes available. If you have any questions concerning this letter, please contact Dana Teramoto of our staff at 523-4648.

Very truly yours,

Handwritten signature of Patrick T. Onishi in cursive script.
PATRICK T. ONISHI
Director of Land Utilization

PTO:am

cc: State Department of Transportation

NOV 29 1995

9507756.djt

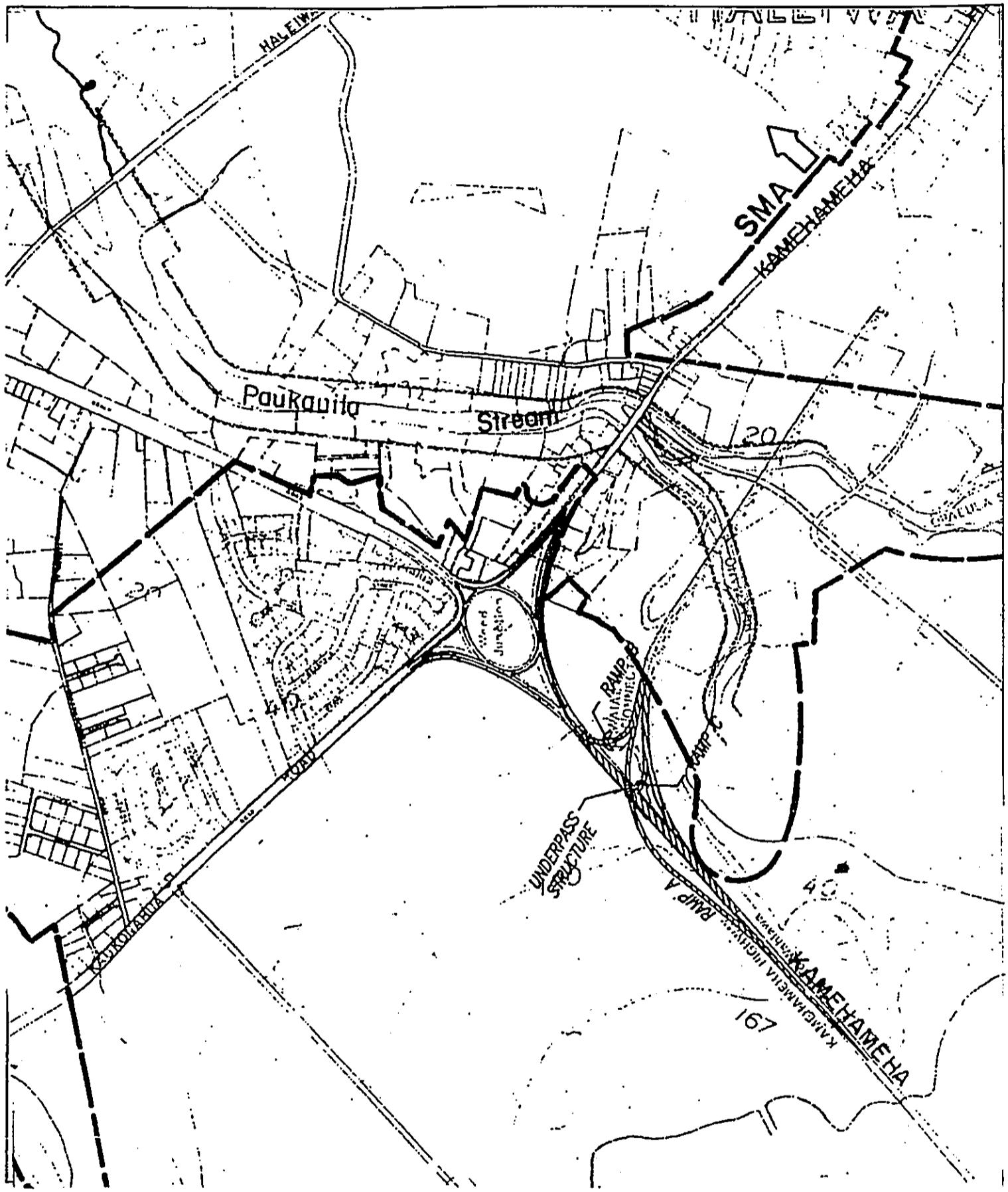


Figure 8
Special Management Area

Haleiwa Bypass Waialua Connection
Final Environmental Assessment

IV-8

January, 1996

BENJAMIN J. CAYETANO
GOVERNOR



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

KAZU HAYASHIDA
DIRECTOR

DEPUTY DIRECTORS
JERRY M. MATSUDA
GLENN M. OKIMOTO

IN REPLY REFER TO:

HWY-DS
2.8541

December 20, 1995

Mr. Paul Mizue, P.E., Acting Chief
Planning and Operations Division
Department of the Army
Pacific Ocean Division, Corps of Engineers
Fort Shafter, Hawaii 96858-5440

Dear Mr. Mizue:

Subject: Kamehameha Highway Helemano/Waialua Junction Alternate
Route, Project No. 83A-02-92

We have received your comments dated November 22, 1995 and
acknowledge the following:

- a. Since this project will not impact waters of the U.S.,
a Department of the Army permit will not be required;
and
- b. That the Flood Hazard information as provided in the
environmental assessment is correct.

Thank you for your timely comments.

Very truly yours,


HUGH A. ONO
ADMINISTRATOR
Highways Division



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
PACIFIC OCEAN DIVISION, CORPS OF ENGINEERS
FORT SHAFTER, HAWAII 96858-5440

November 22, 1995

Planning and Operations Division

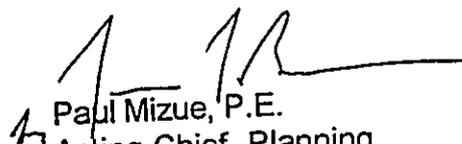
Mr. Herbert Tao
State of Hawaii
Department of Transportation
Highways Division
869 Punchbowl Street
Honolulu, Hawaii 96813

Dear Mr. Tao:

Thank you for the opportunity to review and comment on the preliminary Draft Environmental Assessment (EA) for the Kamehameha Highway Helemano/Waialua Junction Project, Oahu (TMKs 6-2-7 and 6-4-1). The following comments are provided pursuant to Corps of Engineers authorities to disseminate flood hazard information under the Flood Control Act of 1960 and to issue Department of the Army (DA) permits under the Clean Water Act; the Rivers and Harbors Act of 1899; and the Marine Protection, Research and Sanctuaries Act.

- a. Based on the information provided, the project will not impact waters of the U.S.; therefore, a DA permit will not be required (NP96-033).
- b. The flood hazard information provided on page IV-3 of the EA is correct.

Sincerely,


Paul Mizue, P.E.
Acting Chief, Planning
and Operations Division

DEPARTMENT OF PARKS AND RECREATION
CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET
HONOLULU, HAWAII 96813

JEREMY HARRIS
MAYOR



DONA L. HANAIKE
DIRECTOR
ALVIN K.C. AU
DEPUTY DIRECTOR

November 29, 1995

Mr. Kazu Hayashida, Director
Department of Transportation
State of Hawaii
869 Punchbowl Street
Honolulu, Hawaii 96813-5097

Attention: Mr. Herbert Tao

Dear Mr. Hayashida:

Subject: Preliminary Draft Environmental Assessment
Kamehameha Highway, Helemano, and Waialua Junction
Alternate Route
Waialua, Oahu, Hawaii

This responds to the preliminary draft environmental assessment preparation document for the subject project.

Based on our review, we have no comments to offer at this time.

Should you have any questions, please contact Brian Suzuki of our Advance Planning Branch at 527-6316.

Sincerely,


For DONA L. HANAIKE
Director

DLH:ei

✓ cc: Fred Rodriguez, Environmental Communications

NO RESPONSE REQUIRED

DEC 4 1995

We Add Quality to Life

BENJAMIN J. CAYETANO
GOVERNOR OF HAWAII



LAWRENCE MIIKE
DIRECTOR OF HEALTH

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

In reply, please refer to:

November 29, 1995

95-218/epo

To: Herbert Tao
Highway Division
Department of Transportation

From: Lawrence Miike *Lawrence Miike*
Director of Health

Subject: Draft Environmental Assessment (DEA)
Kamehameha Highway Helemano/Waiialua Junction
Alternate Route (Project No. 83-A-02-92)
Haleiwa, Oahu
TMK: 6-2-07 and 6-4-01

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

c: Environmental Communications ✓
Office of Environmental Quality Control

NO RESPONSE REQUIRED

DEC 5 1995

BENJAMIN J. CAYL IANO
GOVERNOR



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

KAZU HAYASHIDA
DIRECTOR
DEPUTY DIRECTORS
JERRY M. MATSUDA
GLENN M. OKIMOTO

IN REPLY REFER TO:
HWY-DS
2.8607

January 9, 1996

Mr. Charles Swanson, Director
Department of Transportation Services
City and County of Honolulu
Pacific Park Plaza
711 Kapiolani Boulevard Suite 1200
Honolulu, Hawaii 96813

Dear Mr. Swanson:

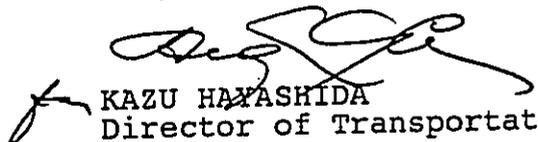
Subject: Draft Environmental Assessment for the Kamehameha
Highway Helemano/Waiialua Junction Alternate Route
Project No. 83A-02-92

We received your response dated December 22, 1995, and offer
the following:

The schedule requested for the construction of the proposed
alternate route will be furnished to your office as the plans
are finalized.

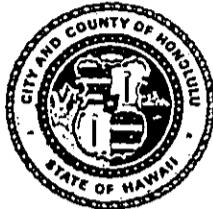
Thank you for your timely response.

Very truly yours,


KAZU HAYASHIDA
Director of Transportation

DEPARTMENT OF TRANSPORTATION SERVICES
CITY AND COUNTY OF HONOLULU

PACIFIC PARK PLAZA
711 KAPIOLANI BOULEVARD, SUITE 1200
HONOLULU, HAWAII 96813



JEREMY HARRIS
MAYOR

CHARLES O. SWANSON
DIRECTOR

December 22, 1995

11/95-05263R

Mr. Herbert Tao
Department of Transportation
State of Hawaii
869 Punchbowl Street
Honolulu, Hawaii 96813

Dear Mr. Tao:

Subject: Draft Environmental Assessment for the Kamehameha
Highway Helemano/Waiialua Junction Alternate Route

We have reviewed the subject draft environmental assessment and have no comments regarding the transportation or traffic impacts of this project. Please provide this department with a tentative time schedule regarding when construction is anticipated to commence and the duration of construction.

Should you have any questions regarding these comments, please Faith Miyamoto of the Transportation Systems Planning Division at 527-6976.

Respectfully,

A handwritten signature in cursive script, appearing to read "Swanson", is written over a horizontal line.

CHARLES O. SWANSON
Director

cc: Mr. Fred Rodriguez, Environmental Communications
Office of Environmental Quality
Control

BENJAMIN J. CAYETANO
GOVERNOR



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

KAZU HAYASHIDA
DIRECTOR

DEPUTY DIRECTORS
JERRY M. MATSUDA
GLENN M. OKIMOTO

IN REPLY REFER TO:

HWY-DS
2.8613

January 9, 1996

TO: GARY GILL, DIRECTOR
OFFICE OF ENVIRONMENTAL QUALITY CONTROL

FROM: KAZU HAYASHIDA *K.H.*
DIRECTOR OF TRANSPORTATION

SUBJECT: DRAFT ENVIRONMENTAL ASSESSMENT FOR KAMEHAMEHA HIGHWAY
HELEMANO/WAIALUA JUNCTION ALTERNATE ROUTE
PROJECT NO. 83A-02-92

Thank you for your comments dated December 21, 1995 on the subject highway project and we respond as follows:

1. Parsons Brinckerhoff Quade and Douglas, Inc. prepared an evaluation in 1992 of the Haleiwa Bypass alternatives for the Waialua connection. This analysis provided the basis of the preferred alternative selection. The evaluation provided existing 1992 Average Daily Traffic (ADT) for week day and weekend traffic at the proposed Waialua connection for all routes leading into and away from Haleiwa town. They also forecast the future year ADT to the year 2010. These two ADT forecasts are provided for your information.
2. We note that both Helemano and Opaepala Streams are the closest waterways to the proposed project site. Both streams are approximately 1200 feet away from the planned improvements, and it is unlikely that construction runoff will impact the streams and ocean. Best Management Practices (BMP) will include grassing and hydromulching, as called for in the construction specifications, minimizing exposed areas due to clearing and grubbing. The contractor will also be required to comply with the City and County of Honolulu's Grading Ordinance and the State Department of Health's National Pollution Discharge Elimination System (NPDES) permit.

3. Special mitigation measures to alleviate visual impacts from the proposed project are not considered to be significant. The proposed structure will provide for an underpass with minimum of structural improvements above grade. The required signage to provide motorists with the correct choices of traffic movements will be posted in accordance with the Federal Highway Administration guidelines. Landscaping is proposed to enhance the entrance to Haleiwa and Waialua.
4. We have included the existing Haleiwa Bypass on the U.S. Geological Survey Quad map, and this is shown on Figure 8 of the Environmental Assessment.

Thank you for your continuing concern and cooperation.

Enclosures

BENJAMIN J. CAYETANO
GOVERNOR



GARY GILL
DIRECTOR

STATE OF HAWAII
OFFICE OF ENVIRONMENTAL QUALITY CONTROL

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December 21, 1995

Mr. Kazu Hayashida, Director
Hawaii Department of Transportation
869 Punchbowl Street
Honolulu, Hawaii 96813-5097

Dear Mr. Hayashida:

Subject: Draft Environmental Assessment for the Kamehameha Highway
Helemano/Waialua Junction Alternate Route

Thank you for the opportunity to review the subject document. We have the following comments.

1. Please provide traffic volumes for existing conditions, future without project and future with project at the Kamehameha Highway Helemano/Waialua Junction. What is the present traffic distribution between Kamehameha Highway and Haleiwa Bypass? What is the expected distribution after this project is completed?
2. Substantial grading would be required for the bypass and underpass connections. The topography of the project site slopes towards the ocean. Please describe the specific mitigation measures that will be considered to prevent runoff from entering the adjacent streams, wetlands, and ocean.
3. The proposed project would be visible to traffic using Kamehameha Highway and Haleiwa Bypass. Please describe the specific mitigation measures that will be employed to reduce the visual impacts.
3. The project location map on Figure 2 should show the alignment of the Haleiwa Bypass.

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Mr. Kazu Hayashida
December 21, 1995
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If you have any questions, please call Jeyan Thirugnanam at 586-4185. Mahalo.

Sincerely,

A handwritten signature in black ink, appearing to read "Gary Gill". The signature is stylized with a large, sweeping initial "G" and a cursive "Gill".

Gary Gill
Director

c: Fred Rodriguez