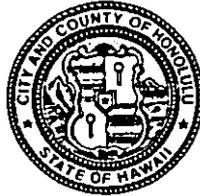


DEPARTMENT OF ENVIRONMENTAL SERVICES  
~~DEPARTMENT OF WASTEWATER MANAGEMENT~~  
CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET  
HONOLULU, HAWAII 96813

Kailua Heights Waste  
Water Pump Station  
Mod.

JEREMY HARRIS  
MAYOR



RECEIVED

KENNETH E. SPRAGUE, P.E., Ph.D.  
DIRECTOR

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CHERYL K. OKUMA-SEPE, KSO.  
DEPUTY DIRECTOR

DCP 98-235

September 18, 1998

Mr. Gary Gill, Director  
Office of Environmental Quality Control  
235 South Beretania Street, Suite 702  
Honolulu, Hawaii 96813

Dear Mr. Gill:

Subject: Notice of Determination - Finding of No Significant Impact (FONSI) for  
Kailua Heights Wastewater Pump Station Modification  
Kailua, Oahu, Hawaii  
TMK: 4-2-75: 17

The City and County of Honolulu, Department of Environmental Services (ENV) (formerly the Department of Wastewater Management) has reviewed and responded to comments related to the Draft Supplemental Environmental Assessment received during the 30-day public comment period which began on July 23, 1998. The agency has determined that this project will not have significant environmental effects and has issued a Finding of No Significant Impact. Please publish this notice in the October 8, 1998 edition of *The Environmental Notice*.

We have enclosed the following items for your review:

- (1) One copy of the OEQC Bulletin Publication Form;
- (2) Four copies of the Final Supplemental EA;
- (3) One copy of the proposed distribution list; and
- (4) One copy of the "Letter to Participants"

The following information is provided in accordance with the requirements for a Notice of Determination:

Identification of Proposing Agency

City and County of Honolulu, Department of Environmental Services (formerly the Department of Wastewater Management)

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Mr. Gary Gill  
Page 2  
September 18, 1998

Identification of Accepting Agency

N/A

Brief Description of the Proposed Action

The proposed action is modification of the existing Kailua Heights Wastewater Pump Station to accommodate the peak wet weather wastewater flow of 15.11 MGD. Proposed modifications include: building expansion to house a 300 KW emergency generator; wet well rehabilitation; incorporation of noise abatement features in the structural and mechanical design; replacement of wastewater pumps; installation of new instrumentation and controls; installation of a new flow meter; upgrade of the ventilation system; and landscape planting.

Determination

Finding of No Significant Impact (FONSI)

Reasons Supporting Determination

This determination is based on the significance criteria listed in Section 11-200-12 of the Environmental Impact Statement Rules:

- (1) The proposed project will not involve an irrevocable commitment to loss or destruction of any natural or cultural resource. The WWPS is an existing structure within a residential area. The proposed building expansion will be located within a portion of the site that has previously served as a paved parking area.
- (2) The proposed project will not curtail the range of beneficial uses of the environment. The improvements will be located within the City and County parcel, currently designated for use as a wastewater pump station.
- (3) The proposed project will not conflict with the State's long term environmental policies or goals and guidelines as expressed in Chapter 344, HRS, and any revisions thereof and amendments thereto, court decisions, or executive orders.
- (4) The proposed project will not have a substantial negative effect on the economic or social welfare of the community or state. The proposed project will not have a long term impact on employment or economics. The impact on social welfare will be positive since the proposed modifications will enhance wastewater service for the community.
- (5) The proposed project will not have a substantial negative effect on public health. Rather, the project will reduce potential public health concerns by upgrading the wastewater pump station facilities.
- (6) The proposed project does not involve substantial secondary impacts, such as population changes or effects on public facilities. Rather, the proposed project is part of a larger wastewater system improvement project which was previously addressed in the *Final Environmental Assessment for Kalaheo Avenue Relief Sewer at Kailua, Koolauoko, Oahu*.

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Mr. Gary Gill  
Page 3  
September 18, 1998

- (7) The proposed project does not involve substantial degradation of environmental quality. Instead, the proposed improvements will aid in preserving environmental quality by minimizing the potential for wastewater spills at the pump station.
- (8) The proposed project will not have a considerable cumulative effect upon the environment or involve a commitment for larger actions. As stated previously, the project has been identified as part of the overall Kalaheo Avenue Relief Sewer Improvements. Any environmental impacts resulting from any cumulative effects or commitments for larger actions would have been addressed in the Kalaheo Avenue Relief Sewer Final EA.
- (9) The proposed project will not substantially affect a rare, threatened, or endangered species or its habitat since there are not present within the project site or its vicinity.
- (10) The proposed project will not detrimentally effect air or water quality or ambient noise levels. These potential impacts and mitigation measures have been addressed in the appropriate sections of the EA.
- (11) The proposed project will not affect, nor is it likely to suffer damage by being located in an environmentally sensitive area such as a flood plain, tsunami zone, beach, erosion-prone area, geologically hazardous land, estuary, fresh water, or coastal water.
- (12) The proposed project will not substantially affect scenic vistas or viewplanes identified in county or state plans or studies. The pump station will visually remain as a single-story structure.
- (13) The proposed project will not require substantial energy consumption. Typically, energy consumption will remain close to existing levels during average dry weather flow conditions. High energy consumption will be associated with high pumping rates which will occur infrequently, during peak wet weather flow conditions.

Should you have any questions, please contact Mr. Po Chan of the Department of Design and Construction, Division of Infrastructure Design and Engineering at 523-4324.

Sincerely,

  
KENNETH E. SPRAGUE  
Director

cc: Kenneth Ishizaki - Engineering Concepts, Inc.  
Po Chan - IDE

12/

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1998-10-08-OA-FEA-Kailua Heights  
Wastewater Pump Station Modification

OCT 8 1998  
**FILE COPY**

Final Supplemental Environmental Assessment

**KAILUA HEIGHTS WASTEWATER  
PUMP STATION MODIFICATION**

Kailua, Oahu, Hawaii  
TMK: 4-2-75:17



ENGINEERING CONCEPTS, INC.

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**Final Supplemental Environmental Assessment**

**KAILUA HEIGHTS WASTEWATER  
PUMP STATION MODIFICATION**

**Kailua, Oahu, Hawaii  
TMK: 4-2-75:17**

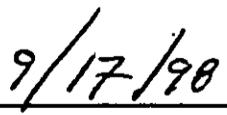
*This environmental document has been prepared pursuant to  
Chapter 343, Hawaii Revised Statutes*

Proposing Agency:

**DEPARTMENT OF ENVIRONMENTAL SERVICES  
City and County of Honolulu  
650 South King Street  
Honolulu, Hawaii 96813**

Responsible Official:

  
Kenneth E. Sprague, Director

  
Date

Prepared by:

**ENGINEERING CONCEPTS, INC.  
250 Ward Avenue, Suite 206  
Honolulu, Hawaii 96814**

September 1998

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**EXECUTIVE SUMMARY**

**APPLICANT:** Department of Environmental Services  
City and County of Honolulu  
650 South King Street  
Honolulu, Hawaii 96813

**Responsible Official:** Kenneth E. Sprague, Director

**Contact Person:** Po Chan, Dept. of Design and Construction  
**Phone:** 523-4324  
**Fax:** 523-4642

**PROJECT TITLE:** Kailua Heights Wastewater Pump Station  
Modification

**PROPOSED ACTION:** Modification of the existing Kailua Heights  
WWPS to accommodate the peak wet weather  
wastewater flow of 15.11 MGD.

**LOCATION:** 504 Auwina Street  
Kailua, Oahu, Hawaii  
TMK: 4-2-75:17

**PROPERTY OWNER:** City and County of Honolulu

**PROJECT AREA:** 10,000 sq.ft.

**EXISTING USES:** Municipal wastewater pump station

**STATE LAND USE:** Urban District

**COUNTY ZONING:** R-10 Residential District

**ALTERNATIVES  
CONSIDERED:** (1) No action  
(2) Installation of 4 pumps  
(3) Construction at another location

**POTENTIAL IMPACTS &  
MITIGATION MEASURES**

**Short Term Impacts:** Construction-related soil erosion, traffic, noise and air quality impacts in the immediate vicinity of the project.

**Mitigation Measures:** **SOIL EROSION:** Mitigative measures will be identified on the construction plans and will be implemented during construction to minimize soil erosion and offsite sediment transport.

**TRAFFIC:** Construction will be scheduled to avoid peak traffic conditions. The contractor will prepare a traffic control plan if work encroaches within city streets.

**NOISE:** The contractor will be required to comply with all state and county noise regulations.

**AIR QUALITY:** Dust control will be implemented during construction.

Construction will not proceed until all permits and approvals are obtained.

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**Long Term Impacts:**

**NOISE:** Intermittent operation of the emergency generator during maintenance testing and when electrical power outages occur.

**AIR QUALITY:** Emissions will occur intermittently during operation of the emergency generator.

**VISUAL:** Expansion of the existing building within the side yard setback.

**Mitigation Measures:**

**NOISE:** Emergency generator will be housed within the building expansion. Acoustical abatement measures will be incorporated in the design.

**AIR QUALITY:** Any long term impact will be intermittent, as a result of operation of the emergency generator during weekly testing or electrical power outage.

**VISUAL:** Landscaping will be planted to improve the view of the pump station from the street.

## CHAPTER 1

### INTRODUCTION

#### 1.1 PURPOSE OF THIS DOCUMENT

The purpose of this Final Supplemental Environmental Assessment (EA) is to disclose potential environmental impacts associated with proposed modifications to the Kailua Heights Wastewater Pump Station (WWPS). This document is supplemental to the *Final EA for Kalaheo Avenue Relief Sewer at Kailua, Koolaupoko, Oahu*, which was accepted on August 22, 1995.

This document was prepared following a period of public review of a Draft EA. Public comments and applicant responses have been incorporated in this document.

#### 1.2 BACKGROUND

The Kailua Heights WWPS and force main are part of the wastewater collection system serving the tributary area of the Kailua Regional Wastewater Treatment Plant (WWTP). Influent to the Kailua Heights WWPS includes wastewater conveyed from the Enchanted Lakes WWPS on Akumu Street through a 24-inch trunk sewer (Kailua Heights District Trunk Sewer Section II). Presently, a 14-inch force main from the Kailua Heights WWPS discharges to a 24-inch trunk sewer on Wanao Road, between the intersections of Kakahiaka Street and Aumoe Road (Kailua Heights District Trunk Sewer Section 1). This trunk sewer conveys wastewater to the Kailua Regional WWTP Influent Pump Station (IPS) via the 36-inch Kalaheo Avenue Interceptor Sewer Sections I & II and the 54-inch and 66-inch Mokapu Interceptor Sewer systems.

The proposed WWPS improvements are part of the second phase of the Kalaheo Avenue Relief Sewer Project, which spans the wastewater collection system from the intersection of Keolu Drive and Akumu Street to the Kailua Regional WWTP. A Final EA was prepared by Akinaka & Associates, Ltd., pursuant to Chapter 343, HRS. As mentioned previously, the EA was entitled, *Final Environmental Assessment for Kalaheo Avenue Relief Sewer at Kailua, Koolaupoko, Oahu*, and was accepted on August 22, 1995. Modification of the Kailua Heights WWPS was one phase of the proposed construction addressed in the Kalaheo Avenue Relief Sewer Final EA.

Subsequently, a preliminary engineering report (PER) for the proposed Kailua Heights WWPS improvements was prepared by Akinaka & Associates, Ltd. in 1995. However, during the design phase of the project, deviations from the

original scope of the work proposed in the PER were required. The most significant deviation was the extension of the existing building footprint for construction of a generator room. The generator room addition resulted in the need for a minor Special Management Area Use Permit (SMP) and a waiver of the development or design standards from the Department of Planning and Permitting (formerly the Department of Land Utilization).

This supplemental EA has been prepared to disclose the updated scope of work for the Kailua Heights WWPS modifications, including the proposed building expansion.

### **1.3 OBJECTIVES**

The primary objective of the proposed project is to upgrade the capacity and reliability of the Kailua Heights WWPS, as part of the overall Kalaheo Avenue Relief Sewer Project. The objective of the overall project is to increase the system capacity of specific sections of the wastewater collection system in Kailua.

### **1.4 LOCATION**

The Kailua Heights WWPS is located in a residential neighborhood on the corner of Wanaao Road and Auwina Street in Kailua (see Figures 1.1 and 1.2). The site is bordered by Wanaao Road to the east, and Auwina Street to the north. Kawainui Stream is situated immediately to the south. A 10-foot wide drainage easement in favor of the City and County of Honolulu and a single-family residence (TMK: 4-2-75:16) on Auwina Street are located to the west. Vehicular access to the site is provided by a gated driveway on Wanaao Road, north of the Kawainui Stream bridge.

### **1.5 PERMITS AND APPROVALS REQUIRED**

Permits and approvals which will need to be obtained prior to construction of the project are listed in Table 1. There are no federal permits or approvals anticipated.





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**TABLE 1**  
**PERMITS AND APPROVALS**

AGENCY	PERMIT/APPROVAL
State of Hawaii Department of Health	<ul style="list-style-type: none"><li>• Variance From Pollution Controls</li><li>• Noncovered Source Permit</li><li>• NPDES Permit (Dewatering)</li><li>• Construction plan approval</li></ul>
City & County of Honolulu Department of Planning and Permitting	<ul style="list-style-type: none"><li>• Building Permit for Building, Electrical, Plumbing, Sidewalk/Driveway and Demolition Work</li><li>• Grubbing, Grading and Stockpiling Permit</li><li>• Construction plan approval</li><li>• Special Management Area Minor Permit *</li><li>• Waiver of the development or design standards</li></ul>

\* A SMA Minor Permit was issued by the former Department of Land Utilization on April 8, 1998 (File No. 98/SMA-29)

## CHAPTER 2

### PROPOSED ACTION

#### 2.1 DESCRIPTION OF THE PROPOSED ACTION

The proposed action is construction of modifications to the existing Kailua Heights Wastewater Pump Station (WWPS), as part of planned improvements associated with the Kalaheo Avenue Relief Sewer Project. The proposed modifications will increase the pumping capacity of the Kailua Heights facility to meet a peak wet weather flow of 15.11 MGD (10,490 gpm).

Proposed improvements, impacts and mitigation measures were previously addressed in the *Final Environmental Assessment for Kalaheo Avenue Relief Sewer at Kailua, Koolaupoko, Oahu* in August 1995. However, subsequent to approval of the Final EA, major deviations to the project were proposed. It is the intent of this supplemental environmental document to address aspects of the proposed project which were not addressed in the previously prepared Final EA. Specifically:

- A room addition is required for housing the emergency generator and appurtenances since the existing generator room is too small.

The new generator room will be connected to the south end of the existing building. The generator room will be a one level reinforced concrete and concrete masonry unit (CMU) structure. The new room will house a 300 KW diesel engine emergency generator and appurtenances.

- Wet well rehabilitation is required due to extensive deterioration of the protective epoxy coating, concrete walls and metal rungs.

The repair procedure will involve preparation of the existing surfaces by sand or water blasting, patching of the concrete and installation of a protective polyvinyl chloride (PVC) lining to protect the concrete.

- Special noise abatement features will be incorporated in the structural and mechanical designs to mitigate chronic problems.
- Replacement of the existing wastewater pumps, including piping and valves.

Three pumps will be installed (2 duty, 1 standby), each sized for 6,500 gpm at 23 feet total dynamic head. The pump motors will each be 75 horsepower units.

- Installation of new controls and instrumentation.
- Installation of a new flow meter housed in a concrete enclosure. The flow meter will be installed underground within a concrete housing which is open to the atmosphere to eliminate "confined space" conditions. A 3'-6" safety railing will encircle the flow meter housing.
- Upgrade of the ventilation system to provide supply air and exhaust to the intermediate floor and pump room levels;
- Construction of site improvements, including a 6-foot high CMU wall along the western property line to shield view of the pump station site from an adjacent residence. The wall will also provide some sound attenuation.
- Landscape planting along the front and perimeter areas of the site to create a visual buffer between the pump station facility and the surrounding roads.

Refer to **Figure 2.1** for the location of proposed improvements. An elevation view of the front of the pump station building upon completion of the generator room is illustrated on **Figure 2.2**.

## **2.2 PROJECT SCHEDULE AND CONSTRUCTION COST**

It is anticipated that construction of the proposed pump station improvements will start in the first quarter of 1999 and will take 18 months to complete.

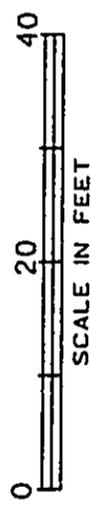
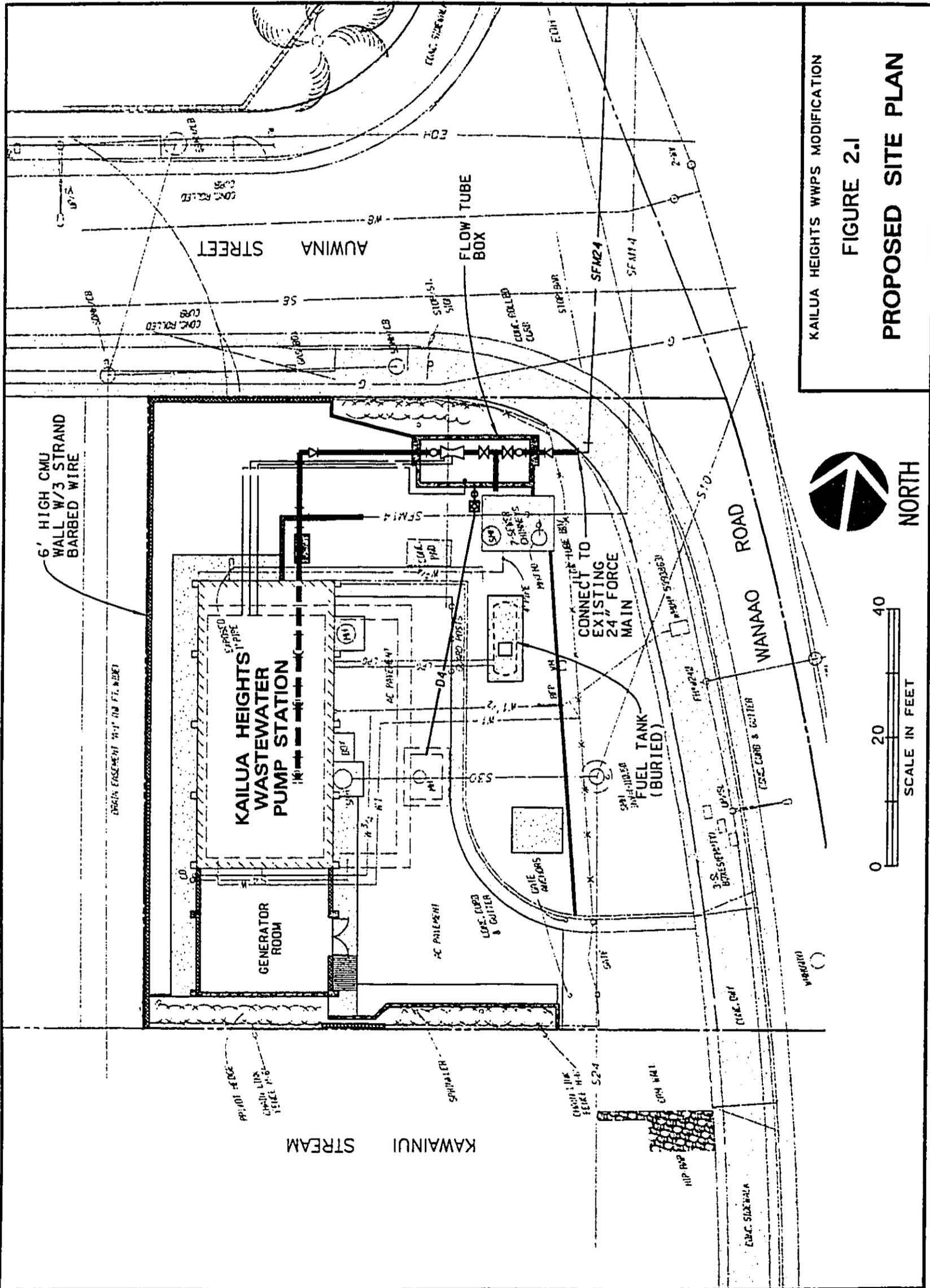
### **2.2.1 Construction Phasing**

Construction will be phased in order to maintain an operational facility throughout the renovation period. The contractor will be required to provide a detailed construction phasing plan for Department of Design and Construction approval prior to beginning work.

The phasing plan will address all aspects of the proposed construction. Some work will need to be scheduled during late night/early morning hours when wastewater flows to the pump station are at the lowest levels. Construction activities may need to be terminated during periods of inclement weather and standby equipment will be available to accommodate peak flows generated by wet weather.

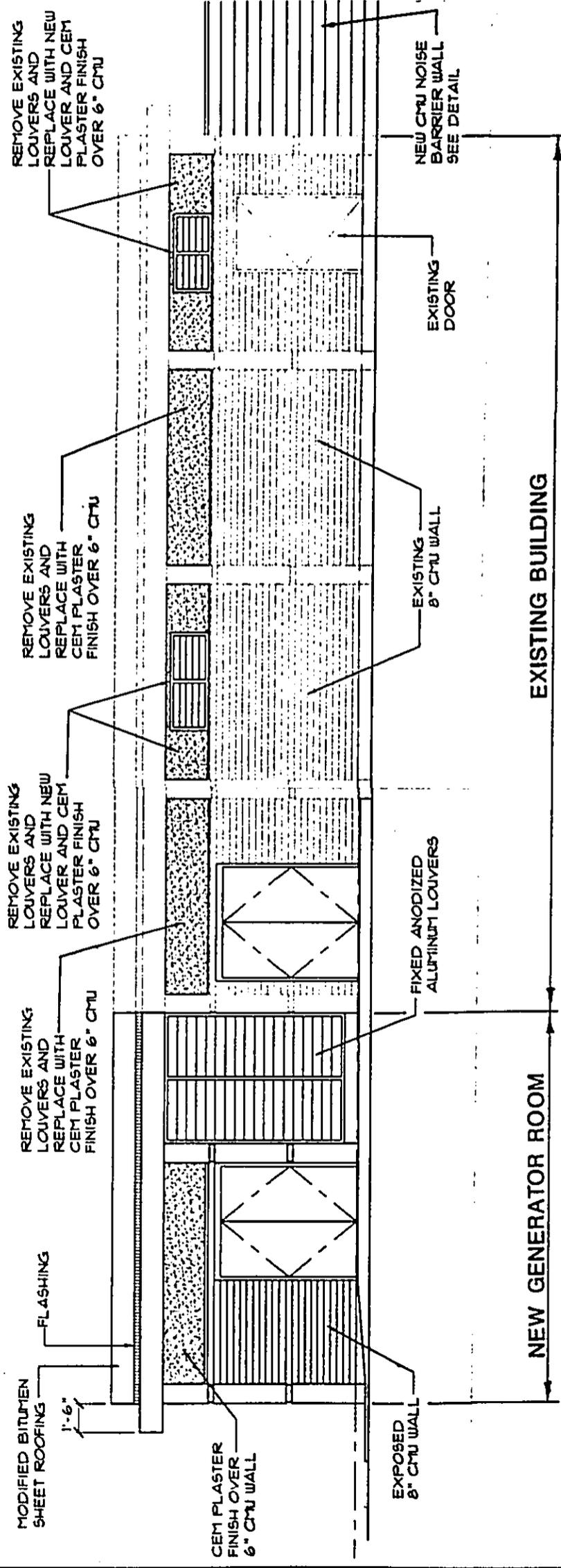
The critical period during construction will occur during rehabilitation of the wet well and installation of the pumps and pump station piping. During this period, wastewater will bypass the pump station, being diverted instead to an upstream manhole which will serve as a temporary wet well. A portable, self-priming pump

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KAILUA HEIGHTS WWS MODIFICATION  
**FIGURE 2.1**  
**PROPOSED SITE PLAN**

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KAILUA HEIGHTS WFPS MODIFICATION  
**FIGURE 2.2**  
**PUMP STATION BUILDING**  
**EAST ELEVATION**

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will convey the diverted wastewater flows to the emergency pump connection at the new flow meter box. A second pump, rated at higher capacity, will be required to function as a standby unit and to aid in pumping unusually high flows.

Noise abatement features will need to be incorporated in the temporary pump setup to minimize disturbances to neighboring residences.

### **2.2.2 Construction Cost**

The estimated cost to construct the proposed project is approximately \$2.2 million. Funding for the project will be provided by the City and County of Honolulu. Construction will not require direct assessments to the residents being served by the proposed improvements.

## CHAPTER 3

### DESCRIPTION OF THE AFFECTED ENVIRONMENT

The intent of this chapter is to describe the existing physical and social environment which is affected by the proposed project. Potential impacts which may result from development of the proposed project, and mitigation measures which will be employed to minimize negative impacts, are described in **Chapter 4**.

#### 3.1 GEOLOGY, SOILS AND TOPOGRAPHY

Soil boring logs indicate the project site was covered with a thin layer of silty brown clay with medium and hard coral below. Several feet of imported soil fill have been placed to achieve the existing grades ranging from approximately 6.5 to 7.5 feet at the pump station building exterior.

#### 3.2 WATER RESOURCES

##### 3.2.1 Surface Water

The nearest surface water course is Kawainui Stream, adjacent to the pump station site to the south. Kawainui Stream is a tributary of Kaelepulu Stream, which discharges to Kailua Bay. Kawainui Stream is designated as a Class 2 inland water.

##### 3.2.2 Ground Water

Ground water is present at an elevation of approximately 1.3 feet to 1.8 feet MSL. Ground water levels are affected by tidal and weather conditions. Higher groundwater levels would be anticipated at high tide or following a heavy rain. There is no potable water source in the vicinity of the project site.

#### 3.3 FLOOD AND TSUNAMI HAZARD

According to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map, the project site is located in Zone X, an area determined to be outside the 500-year flood plain (see **Figure 3.1**). A flood water surface elevation of 4.5 feet in Kawainui Stream adjacent to the WWPS site was established by FEMA's Flood Insurance Study. The floor elevation of the pump station is 7.82 feet, more than three feet above this stream flood elevation.

## CHAPTER 3

### DESCRIPTION OF THE AFFECTED ENVIRONMENT

The intent of this chapter is to describe the existing physical and social environment which is affected by the proposed project. Potential impacts which may result from development of the proposed project, and mitigation measures which will be employed to minimize negative impacts, are described in **Chapter 4**.

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#### 3.2 WATER RESOURCES

##### 3.2.1 Surface Water

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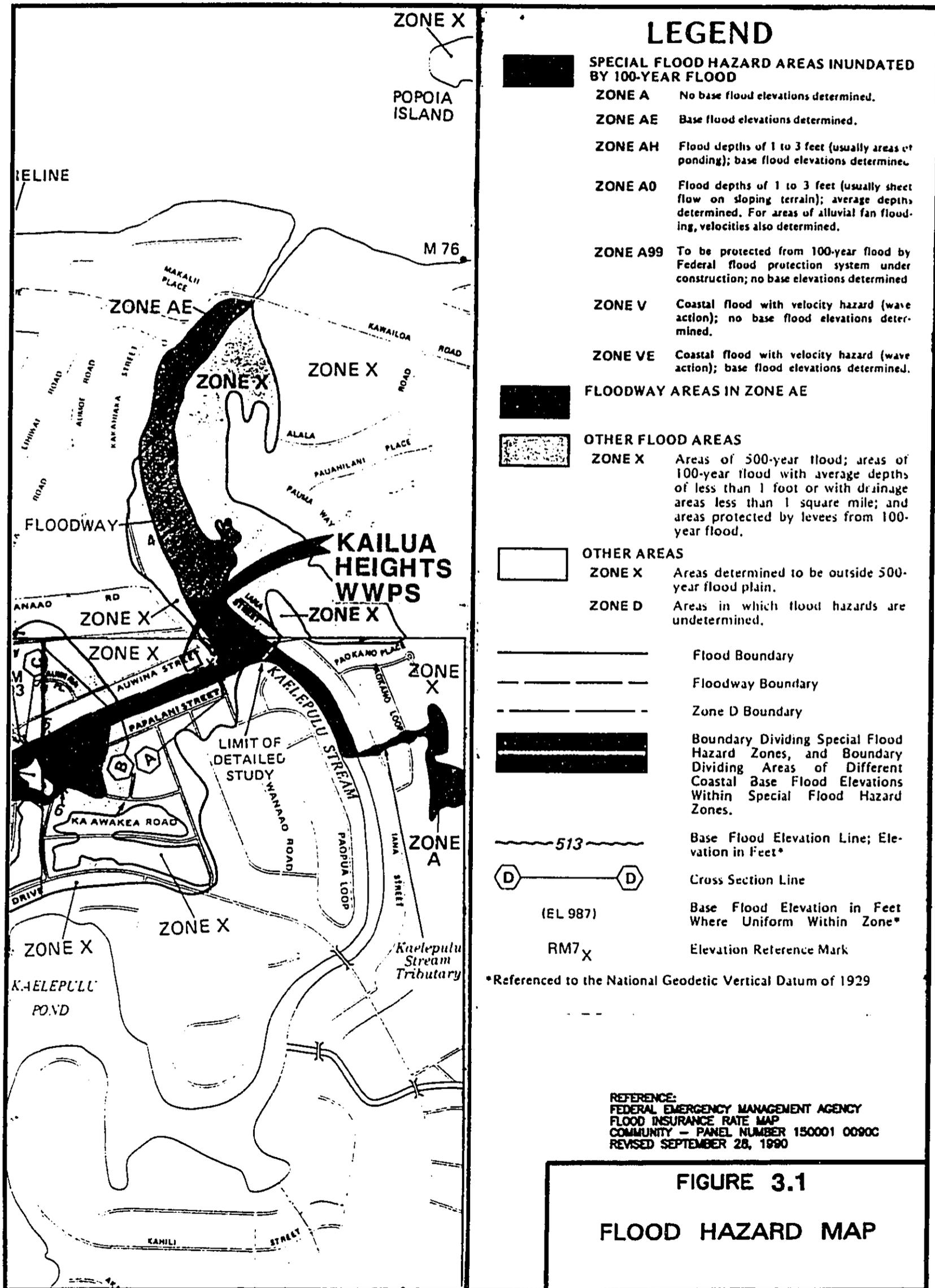
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The project site is not located within a tsunami evacuation area.

### **3.4 FLORA AND FAUNA**

The project site is situated within a residential neighborhood which was developed in the 1960's. The area has been extensively developed and impacted by man made structures. Within the pump station grounds, unpaved areas have been landscaped. Onsite vegetation includes, grass, privet hedges, three cigar boxwood trees and a paperbark tree.

Fauna in the vicinity of the project site is representative of most suburban developed areas on the island.

### **3.5 ARCHAEOLOGY**

According to the State Historic Preservation Division, there are no known historic sites at the project location (refer to correspondence included in **Appendix B**). Due to the previous development within the pump station site, it is unlikely that any historic sites remain.

### **3.6 LAND USE AND ZONING**

#### **3.6.1 State Land Use**

The project site is located within the Urban district according to the State Land Use Commission Land Use District Map O-14 (**Figure 3.2**).

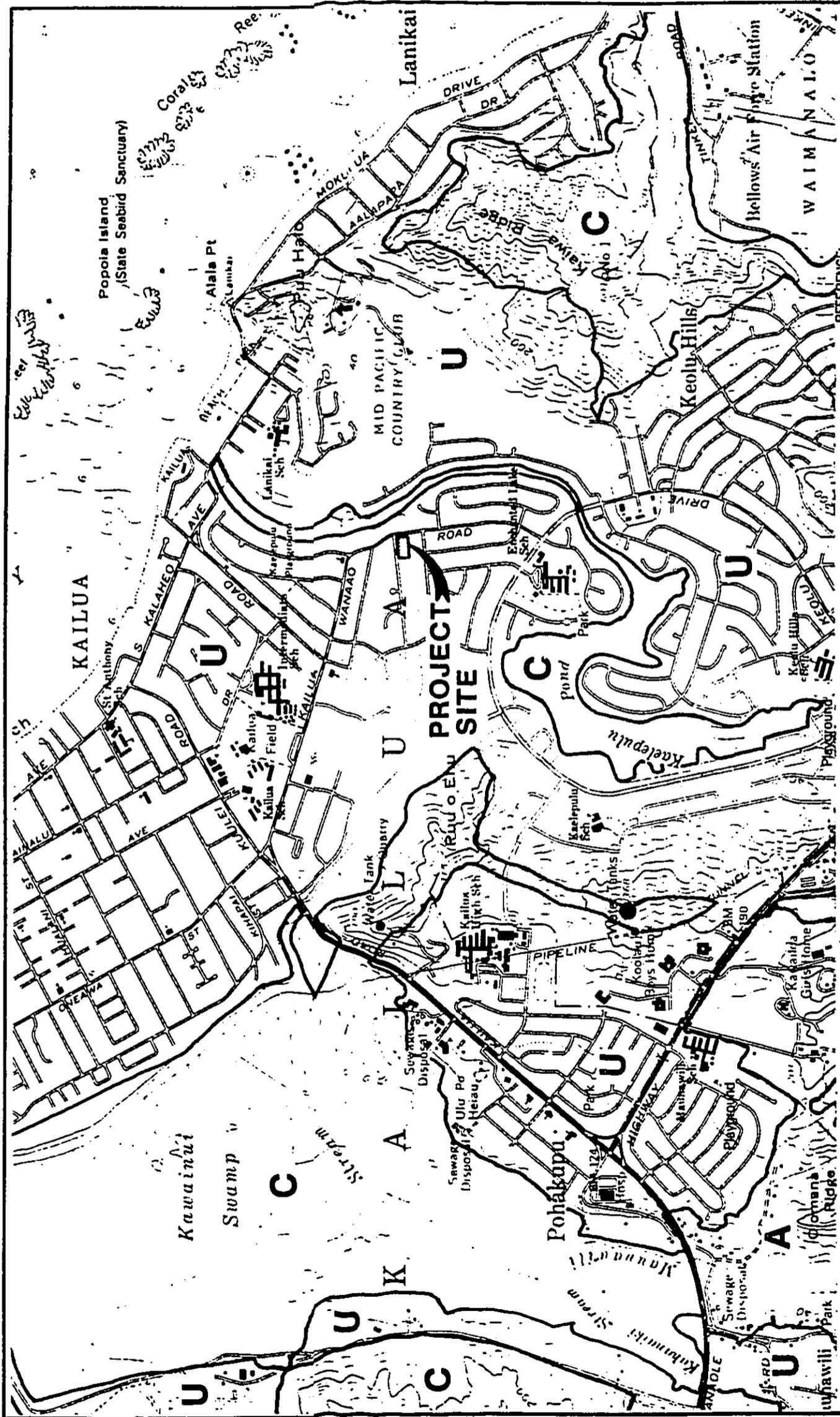
#### **3.6.2 City and County Zoning**

The project site is located within the R-10 Residential District on the City and County of Honolulu Zoning Map No. 23 (**Figure 3.3**).

#### **3.6.3 Special Management Area**

The project site is located within the Special Management Area (SMA) as indicated on the (former) Department of Land Utilization SMA Map for Koolaupoko. Refer to **Figure 3.3** for the SMA boundary in the project vicinity. The former Department of Land Utilization granted a minor Special Management Area Use Permit (SMP) for the project based on the estimated construction cost of the aboveground exterior improvements (excluding equipment) not exceeding \$125,000. The project will be subject to conditions of the SMP.

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REFERENCE:  
STATE LAND USE COMMISSION  
LAND USE DISTRICT MAP O-14

FIGURE 3.2

STATE LAND USE MAP



NORTH



LEGEND:

- U** URBAN DISTRICT
- A** AGRICULTURAL DISTRICT
- C** CONSERVATION DISTRICT

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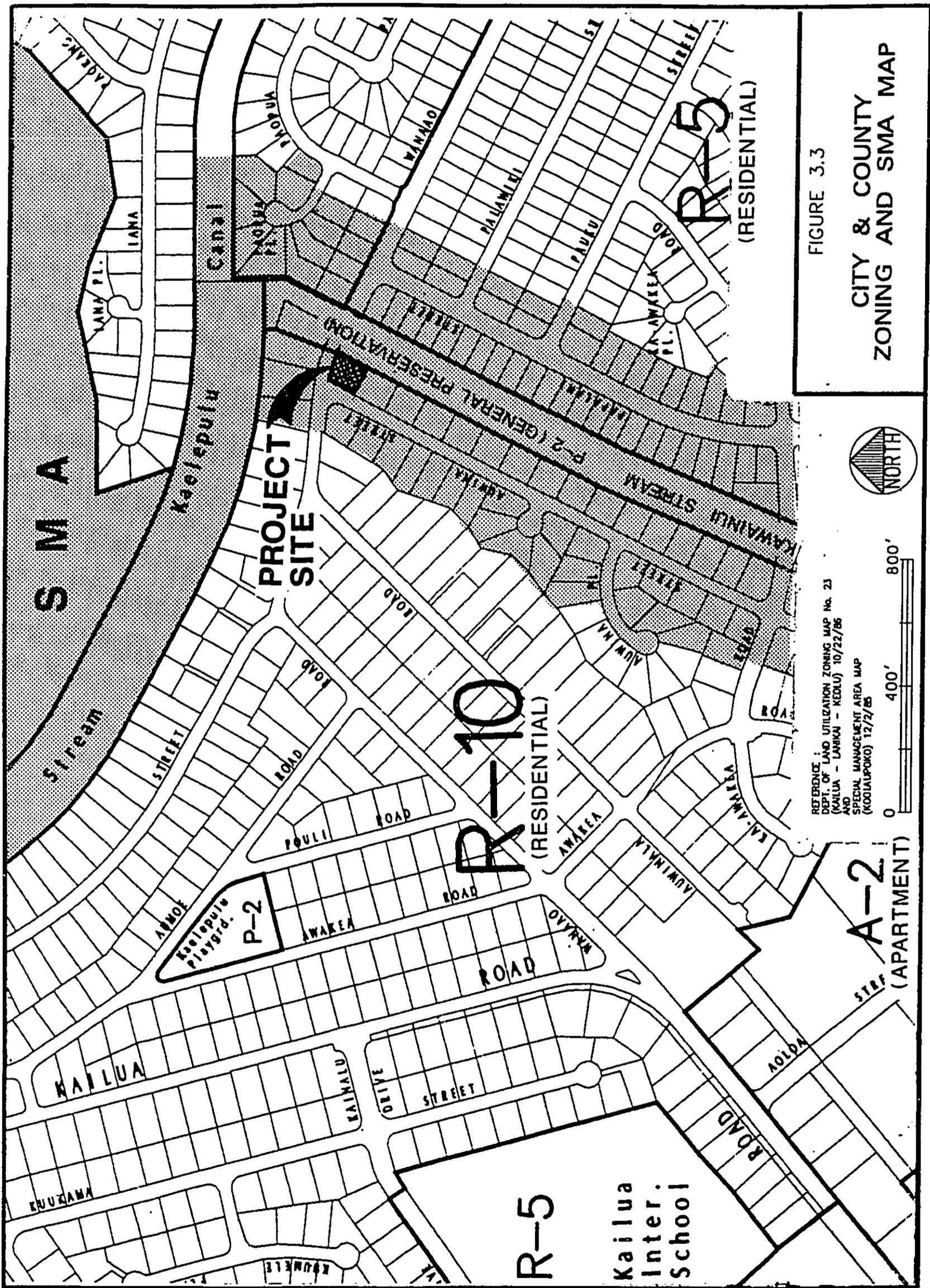


FIGURE 3.3

CITY & COUNTY ZONING AND SMA MAP



REFERENCE : DEPT. OF LAND UTILIZATION ZONING MAP No. 23 (KAILUA - LAHUKA - KEOU) 10/22/86 AND SPECIAL MANAGEMENT AREA MAP (KOOLOPOKO) 12/2/86



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#### **3.6.4 Waiver of the Development or Design Standards**

A yard setback waiver will be requested from the Department of Planning and Permitting due to encroachment within the required yard areas. Required yard setbacks for the pump station site (zoned R-10) are identified in the Land Use Ordinance as 30 ft for the front yard and 15 ft for the back and side yards. The proposed generator room expansion will extend within the side yard setback area. In addition, the existing pump station building is a nonconforming structure due to its encroachment into the back yard setback area.

A waiver will also be requested for the proposed noise barrier wall for the air conditioner condenser, to be located on the north side of the pump station. Although the wall will not encroach into the side yard setback area, its height of 8'-8" exceeds the 8'-0" limit allowed for walls and fences constructed by public utilities.

#### **3.7 TRAFFIC**

The pump station site is located at the corner of Wanaao Road and Auwina Street. Wanaao Road is a well-travelled, connecting the residential neighborhood of Enchanted Lakes with the Kailua town area. Presently, the project site generates very little traffic. Maintenance personnel visit the pump station site several times a day, and the emergency generator is tested on a weekly basis by another crew.

#### **3.8 NOISE**

The pump station site is subjected to noise from traffic on Wanaao Road. Due to the operation of the emergency generator, the louvered windows on the west side (rear) of the generator room have been covered with a wood enclosure to reduce noise exposure at the adjacent residence.

Noise complaints from neighbors were reported by Akinaka and Associates, Inc. in the preliminary engineering report for the project. The noise level of the existing 75 KW emergency generator was measured to be 88 dBA along the western property line. In comparison, the State Department of Health has established noise limits for residential lots on Oahu at 55 dBA for daytime and 45 dBA for nighttime periods.

#### **3.9 AIR QUALITY**

The State Department of Health does not conduct routine air quality monitoring in the project vicinity. It is believed that the ambient air quality is good due to the

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presence of the prevailing tradewinds and the lack of major sources of air pollution activity. There are no industrial sources in the area. Motor vehicle traffic, especially during peak hours, is the only source of air pollution.

There have been no complaints regarding odors emanating from the pump station.

### **3.10 VISUAL**

The Kailua Heights WWPS is visible from Wanaao Road, Auwina Street, residences across Kawainui Stream, and the adjacent residence on Auwina Street. Although the pump station has three floors, its exterior appearance is a single story structure like the neighboring residential homes since two floors are located underground. A 1,150-gallon fuel storage tank is presently situated in the front yard and is visible from Wanaao Road (see Photo 1).

### **3.11 SOCIOECONOMIC**

The project site is located with a middle-class suburban neighborhood. The Kalaheo Avenue Relief Sewer Final EA reported that most of the residents who are in the labor force work in Honolulu. The Kailua town core includes commercial businesses and retail activities to service the neighborhood. Agricultural production in the area is insignificant.

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DOCUMENT CAPTURED AS RECEIVED

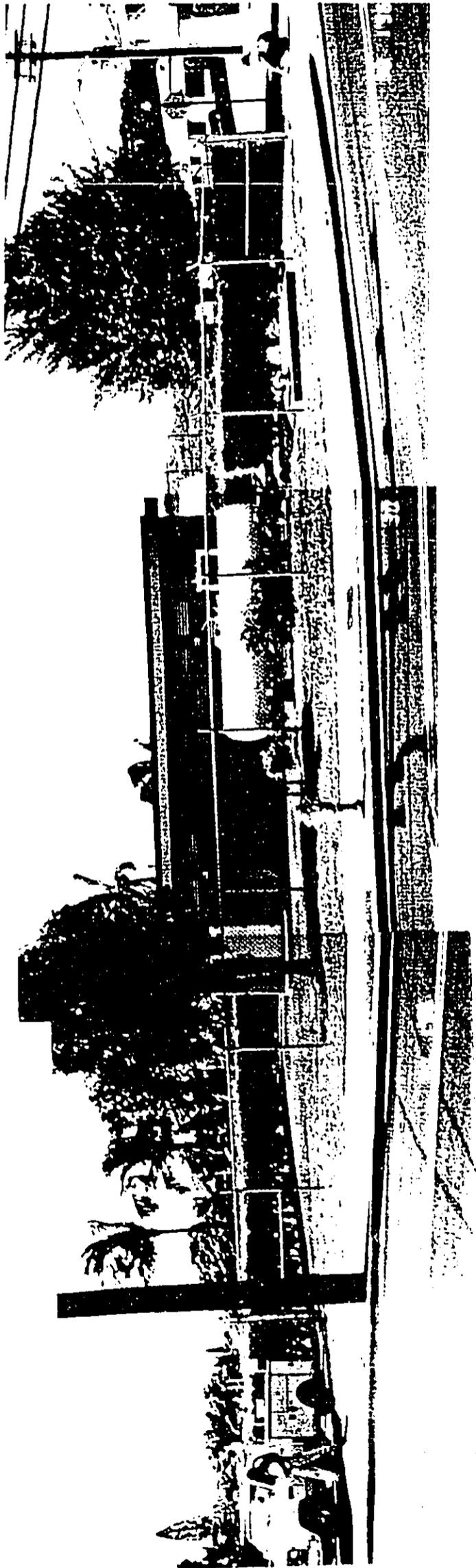


PHOTO 1 - PHOTOGRAPH OF PUMP STATION FROM WANAAO ROAD

## CHAPTER 4

### POTENTIAL IMPACTS AND MITIGATION MEASURES

The intent of this chapter is to describe potential impacts to the existing physical and social environment which may result from construction and operation of the proposed project. Mitigation measures which will be employed to minimize negative impacts are also discussed in this chapter.

Potential impacts may be classified as "short term" or "long term". Short term impacts are generally associated with construction activities while long term impacts are those that are lasting, resulting from the presence or operation of the project after it is constructed.

#### 4.1 SOIL EROSION

The potential for soil erosion will be a short term impact, limited to construction activities. While most of the proposed construction will take place within previously paved areas, disturbance of the pavement or existing vegetation during excavation or trenching activities will result in bare ground with the potential for soil erosion. After completion of construction, soil erosion potential will revert back to pre-construction conditions due to repaving and establishment of vegetative cover.

Mitigative measures will be implemented during construction to minimize soil erosion and offsite sediment transport. These measures will be included in the construction drawings and may include the following:

- Installation of debris barriers within the neighboring catch basins during construction to minimize deposition of construction-related trash and sediment within the municipal storm drain system; and
- Construction of a temporary silt fence along the property line with Kawainui Stream to minimize offsite transport of sediment to the stream.

#### 4.2 TOPOGRAPHY

The proposed project will not significantly alter the topography of the area. Most of the proposed construction will be located within existing paved areas. No mitigation measures are proposed.

#### 4.3 WATER RESOURCES

The proposed project will not significantly impact the surface water or ground water resources in the vicinity. As discussed previously, sediment control measures will be implemented to minimize offsite sediment transport during construction. In addition, the existing vegetative buffer between the pump station site and the Kawainui Stream will provide a natural filter for surface runoff. There are no mitigation measures proposed.

#### 4.4 FLOOD AND TSUNAMI HAZARD

The proposed project is not located within a flood zone or tsunami evacuation area, nor will the project impact these areas.

#### 4.5 FLORA AND FAUNA

The project site will not have a significant impact on existing flora or fauna due to its location within previously developed areas. No mitigation measures are proposed.

#### 4.6 ARCHAEOLOGY

The proposed project will be constructed within a previously developed parcel. According to the State Historic Preservation Division, the project should have "no effect" on historic sites (see Appendix B). However, in the unlikely event that excavation activities unearth an archaeological deposit, construction activities will be halted and the State Historic Preservation Division will be contacted for instructions.

#### 4.7 LAND USE AND ZONING

The proposed project will not require a change in the existing land use or zoning.

#### 4.8 TRAFFIC

The proposed project will have a short term impact on existing traffic on both Wanaao Road and Auwina Street. Traffic impacts will be limited to the period of construction, and may include the following:

- temporary inconvenience to nearby residences, including the possible reduction of on-street parking during construction; and
- temporary increase in construction-related traffic on both roads, including workers vehicles, trucks and construction equipment.

These short term impacts will be mitigated by implementation of the following measures:

- If construction activities will encroach on traffic lanes within Wanaao Road and/or Auwina Street, a traffic control plan will be prepared by the contractor and submitted to the City and County of Honolulu Department of Transportation Services for approval. The traffic control plan will include measures to safely route traffic around the proposed construction.
- Construction activities will be coordinated with neighbors, as needed, to minimize inconveniences.
- Construction operations will be scheduled to avoid peak traffic conditions on both roads.

The proposed project will not have a long term impact on traffic conditions on either Wanaao Road or Auwina Street. No increase in traffic generation will result from development of the project.

#### 4.9 NOISE

Short term noise impacts may result from construction activities. However, adverse impacts from construction noise are not anticipated to affect public health and welfare due to the temporary nature of the work and the administrative controls available for its regulation. To mitigate construction-related noise impacts, the contractor will be required to comply with Hawaii Administrative Rules Chapter 11-46 "Community Noise Control", and noise regulations of the City and County of Honolulu, including those specified in the grading permit.

Specifically:

- The contractor shall obtain a noise permit if the noise levels from the construction activities are expected to exceed the allowable levels of the rules as stated in Section 11-46-6(a).
- Construction equipment and onsite vehicles requiring an exhaust of gas or air shall be equipped with mufflers as stated in Section 11-46-6(b)(1)(A).

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- The contractor shall comply with the requirements pertaining to construction activities as specified in the rules and the conditions issued with the permit as stated in Section 11-46-7(d)(4).

Long term noise impacts may result from operation of the new 300 KW emergency generator. The generator will be tested weekly by maintenance personnel and will activate occasionally when electrical power outages occur.

The actual noise impact due to operation of the generator is not anticipated to be significant due to infrequent occurrence and installation of appropriate acoustical abatement measures, including the following:

- The new generator room walls will be constructed of dense concrete and CMU. All cells within the western facing CMU wall of the generator room will be grouted solid or filled with sand. The roof slab will be constructed of a minimum 4-inch thick dense concrete, 1 lb/sq.ft. roofing material, plus 1-inch thick insulation. Except for treated ventilation openings or penetrations, all cracks and voids in the roof and walls of the new room will be sealed.
- The ceiling and bare wall surfaces (from the ceiling down to the 1 foot height line) of the new generator room will be treated with 4-inch total thickness of semirigid fiberglass insulation.
- The radiator servicing the emergency generator motor will also be equipped with acoustical treatments, including duct silencers fabricated of galvanized or stainless steel with fiberglass baffle insulation; and a transition duct or plenum between the radiator and the silencers lined with a minimum 4-inch thick, semirigid insulation plus an outer face layer of semirigid duct liner board.
- One residential plus one critical grade muffler will be installed in series on the engine exhaust pipe. The exhaust pipe will discharge upward and toward the east (Wanaao Road) property line. The design intent is to avoid noise emission toward the closest residence to the west.
- The new double door at the entrance to the new generator room will be constructed of galvanized steel and rated at a minimum STC 45 as an assembly, which includes a steel door frame, and adjustable compression-type seals along the head, jamb, astragal, and door bottom.

Another potential long term noise source will be the air-cooled condensing unit for the new air conditioner system, to be located on the Auwina Street side of the pump station building. An 8'-8" high CMU noise barrier wall will be constructed

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on the north and west sides of the condenser to deflect noise upward and away from the nearby residences.

A 6-foot high CMU wall will be constructed along the western property line and will provide some additional sound attenuation.

Through facility design, sound levels emanating from stationary equipment such as the air conditioning system, exhaust fans or emergency generator shall be attenuated to comply with the provisions of HAR 11-46.

#### **4.10 AIR QUALITY**

During construction, generation of fugitive dust during demolition, earthmoving and other activities, may result in a temporary impact on air quality. To ensure compliance with State Department of Health regulations, an effective dust control plan will be implemented during construction. Dust control measures may include watering the work area, use of wind screens, keeping the adjacent roadways clean, and covering open-bed trucks. Permanent re-paving and landscaping will be scheduled as soon as practicable.

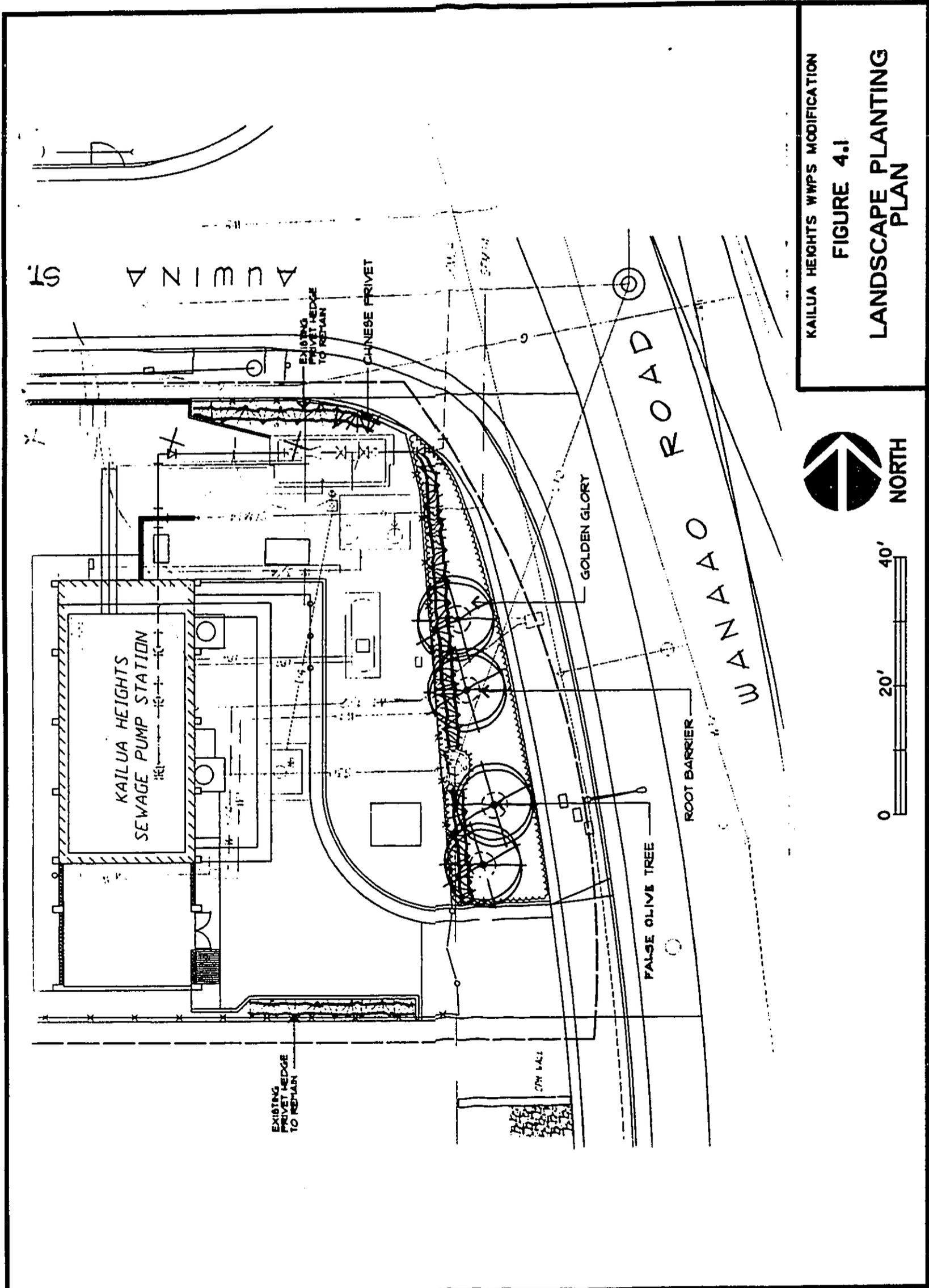
There will be no long term impact to air quality associated with the proposed project. Emissions from the emergency generator may have a long term impact on air quality in that emissions will persist when the generator is activated. However, any long term impact will be intermittent, occurring predominantly during maintenance testing, which is part of the standard operating procedure. Other than testing, the generator will not be activated unless an electrical power outage occurs.

#### **4.11 VISUAL**

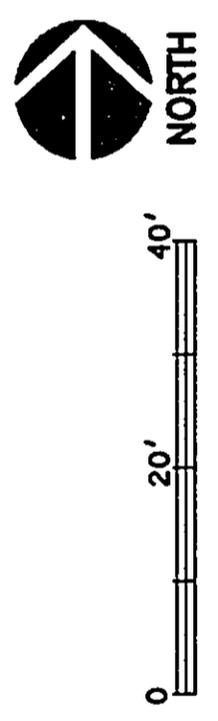
Although the proposed improvements will be constructed within an existing wastewater pump station, the addition of the generator room will visually impact the site. Landscaping will be included along Wanaao Road to minimize the visual impact of the pump station building (see Figure 4.1). Landscaping will include the addition of four false olive trees in the front yard area to add a vertical element in front of the pump station building and new generator room extension. The Chinese privet hedge will be maintained along the north and south sides of the site, and will be extended along the front yard fence for additional screening.

The existing above ground fuel storage tank will be removed and replaced with an underground tank, which will have a positive impact on the front yard view.

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KAILUA HEIGHTS WMPs MODIFICATION  
**FIGURE 4.1**  
**LANDSCAPE PLANTING PLAN**



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The 6-foot high CMU wall to be constructed along the western property line will shield the view of the pump station site from the adjacent residence.

#### **4.12 SOCIOECONOMIC**

The proposed project will not have a significant impact on population or employment opportunities.

## CHAPTER 5

### ALTERNATIVES CONSIDERED

This chapter discusses alternatives against which the proposed action was evaluated. The alternatives were rejected due to their inability to meet the project objectives, or attainment of the objectives to a less desirable degree. To restate, the primary objective of the project is to upgrade the capacity and reliability of the Kailua Heights WWPS, as part of the overall Kalaheo Avenue Relief Sewer Project. The objective of the overall project is to increase the system capacity of specific sections of the wastewater collection system in Kailua.

The proposed action of modifying the existing Kailua Heights Wastewater Pump Station will increase the pumping capacity to meet a peak wet weather flow of 15.11 MGD (10,490 gpm). The existing pumps and piping will be replaced. Three identical variable speed pumps will be installed (up to two on duty with one standby pump). During average dry weather flow conditions, operation of only one pump will be required to convey wastewater flows.

#### 5.1 NO ACTION

Without construction of the proposed pump station modifications, the Kailua Heights Wastewater Pump Station will not have the capacity to convey the peak wet weather wastewater flow through the system. The pump station will continue to be subject to overflow and spills during peak flow conditions.

The "no action" alternative is not acceptable since it fails to meet the project objectives.

#### 5.2 INSTALLATION OF FOUR PUMPS

The existing pump station is designed to accommodate three pumping units. Addition of a fourth pump to the station would entail extensive structural improvements, including expansion of the below ground pump room and wet well. While there are operational benefits to installation of four pumps (up to three on duty with one standby), the capital cost of this alternative would clearly exceed those requiring installation of only three pumps. Another disadvantage of this alternative would be the need to move the generator room. As with the proposed action, the emergency generator would be too large to fit in the existing generator room. However, expansion on the south side of the building for the generator room would not be possible due to the expansion requirements for the fourth

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pump. The generator would likely be housed in a separate structure, fronting the pump station building along Wanaao Road.

### **5.3 CONSTRUCTION AT ANOTHER LOCATION**

Another alternative to the proposed action was construction of a new pump station on a separate lot in the immediate vicinity of the existing pump station. Advantages of this alternative include: the ability to design a facility with adequate interior space to accommodate the new pumps and appurtenances; and no operational down time since flow to the existing pump station would be routed to the new pump station at the completion of its construction. However, there are several disadvantages of this alternative: availability and expense of purchasing the land; higher construction cost; additional land use permits and approvals; and the fate of existing pump station building and site.

## CHAPTER 6

### FINDINGS AND DETERMINATION

#### 6.1 DETERMINATION

The Department of Environmental Services has concluded that the proposed project does not have the potential to generate significant environmental impacts, and the need to prepare an environmental impact statement is not foreseen. This Final Supplemental EA has been submitted with a Finding of No Significant Impact (FONSI) determination.

#### 6.2 FINDINGS AND REASONS SUPPORTING ANTICIPATED DETERMINATION

The overall and cumulative effects of the proposed action were evaluated with respect to Hawaii Administrative Rules (HAR) Title 11, Department of Health, Chapter 200, Environmental Impact Statement Rules, Section 11-200-12 "Significance Criteria". The following findings and conclusions can be made in support of the FONSI determination:

- (1) The proposed project will not involve an irrevocable commitment to loss or destruction of any natural or cultural resource. The WWPS is an existing structure within a residential area. The proposed building expansion will be located within a portion of the site that has previously served as a paved parking area.
- (2) The proposed project will not curtail the range of beneficial uses of the environment. The improvements will be located within the City and County parcel, currently designated for use as a wastewater pump station.
- (3) The proposed project will not conflict with the state's long term environmental policies or goals and guidelines as expressed in Chapter 344, HRS, and any revisions thereof and amendments thereto, court decisions, or executive orders.
- (4) The proposed project will not have a substantial negative effect on the economic or social welfare of the community or state. The proposed project will not have a long term impact on employment or economics. The impact on social welfare will be positive since the proposed modifications will enhance wastewater service for the community.

- (5) The proposed project will not have a substantial negative effect on public health. Rather, the project will reduce potential public health concerns by upgrading the wastewater pump station facilities.
- (6) The proposed project does not involve substantial secondary impacts, such as population changes or effects on public facilities. Rather, the proposed project is a part of a larger wastewater system improvement project which was previously addressed in the *Final Environmental Assessment for Kalaheo Avenue Relief Sewer at Kailua, Koolaupoko, Oahu*.
- (7) The proposed project does not involve substantial degradation of environmental quality. Instead, the proposed improvements will aid in preserving environmental quality by minimizing the potential for wastewater spills at the pump station.
- (8) The proposed project will not have a considerable cumulative effect upon the environment or involve a commitment for larger actions. As stated previously, the project has been identified as part of the overall Kalaheo Avenue Relief Sewer improvements. Any environmental impacts resulting from any cumulative effects or commitments for larger actions would have been addressed in the Kalaheo Avenue Relief Sewer Final EA.
- (9) The proposed project will not substantially affect a rare, threatened, or endangered species or its habitat since there are none present within the project site or its vicinity.
- (10) The proposed project will not detrimentally affect air or water quality or ambient noise levels. These potential impacts and mitigation measures have been addressed in the appropriate sections of the EA.
- (11) The proposed project will not affect, nor is it likely to suffer damage by being located in an environmentally sensitive area such as a flood plain, tsunami zone, beach, erosion-prone area, geologically hazardous land, estuary, fresh water, or coastal water.
- (12) The proposed project will not substantially affect scenic vistas or viewplanes identified in county or state plans or studies. The pump station building will visually remain as a single-story structure.

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- (13) The proposed project will not require substantial energy consumption. Typically, energy consumption will remain close to existing levels during average dry weather flow conditions. High energy consumption will be associated with high pumping rates which will occur infrequently, during peak wet weather flow conditions.

## CHAPTER 7

### CONSULTED PARTIES AND PARTICIPANTS IN THE ENVIRONMENTAL ASSESSMENT PROCESS

#### 7.1 LIST OF PREPARERS

This Final Supplemental EA was prepared for the City and County of Honolulu Department of Environmental Services by Engineering Concepts, Inc. The following organizations were also involved in the preparation of this document.

<u>Organization</u>	<u>Area of Expertise</u>
Hawaii Design Associates, Inc.	Landscape Architecture
Y. Ebisu & Associates	Acoustical Engineering

#### 7.2 PARTIES CONSULTED

Preliminary consultation with several agencies was conducted prior to preparation of the Draft Supplemental EA. These agencies include:

State Historic Preservation Division  
(former) Department of Land Utilization  
(former) Department of Public Works

Forty two (42) copies of the Draft EA were mailed to agencies, organizations and other interested parties. A complete listing of these consulted parties is included in Sections 7.2.1 through 7.2.4.

Availability of the Draft EA was published in the July 23, 1998 edition of *The Environmental Notice*. A total of nine comment letters were received as of August 27, 1998. Agencies and organizations responding to the request for comments are marked with an asterisk (\*) in the lists which follow.

##### 7.2.1 State Government

###### State Legislature:

Senator Whitney Anderson, 25th District  
Representative Kenny Goodenow, 51st District

###### Department of Business, Economic Development and Tourism:

- \* Land Use Commission
- \* Office of Planning
- Energy, Resources and Technology Division

- Department of Land and Natural Resources
- \* State Historic Preservation Division
- \* Department of Health, Environmental Planning Office
- \* Office of Environmental Quality Control
- University of Hawaii, Environmental Center

#### 7.2.2 City and County Government

- Councilmember John Henry Felix, District III
- \* Board of Water Supply
- \* Department of Planning and Permitting

#### 7.2.3 Other Interested Parties

- Office of Hawaiian Affairs
- American Lung Association
- \* Hawaiian Electric Company, Inc.
- GTE Hawaiian Telephone Company
- Oceanic Cable
- \* The Gas Company
- Kailua Neighborhood Board No. 31
- Alice N. Puu
- James Deputy
- John Halloran
- Clarence & Barbara Gentry
- Bernice Pauahi Bishop Estate
- McCune Trust c/o Elmer E. McCune

#### 7.2.4 Libraries

- Hawaii State Library
- Kailua Public Library

### 7.3 COMMENTS ON THE DRAFT EA

Comment letters received during public review of the Draft EA and responses prepared by the applicant have been included in **Appendix C**.

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## CHAPTER 8

### REFERENCES

Akinaka & Associates, Ltd., *Final Environmental Assessment for Kalaheo Avenue Relief Sewer at Kailua, Koolaupoko, Oahu*, prepared for the Department of Wastewater Management, August 1995.

Akinaka & Associates, Ltd., *Preliminary Engineering Report and Cost Estimate for Kalaheo Avenue Relief Sewer, Kailua, Koolaupoko, Oahu*, prepared for the Department of Wastewater Management and Department of Public Works, August 1995.

Engineering Concepts, Inc., *Design Report Final Submittal, Kailua Heights Wastewater Pump Station and Force Main*, prepared for the Department of Wastewater Management, September 1996.

Hawaii State, Department of Health, *Hawaii Administrative Rules*, "Chapter 42: Vehicular Noise Control for Oahu", October 24, 1981.

Hawaii State, Department of Health, *Hawaii Administrative Rules*, "Chapter 43: Community Noise Control for Oahu", October 24, 1981.

Hawaii State, Department of Health, *Hawaii Administrative Rules*, "Chapter 60.1: Air Pollution Control", October 29, 1993.

Hawaii State, Department of Health, *Hawaii Administrative Rules*, "Chapter 200: Environmental Impact Statement Rules", August 20, 1996.

Honolulu, City and County Department of Land Utilization, *Land Use Ordinance*, August 1997.

Honolulu, City and County Department of Land Utilization, *Permit Register*, December 1992.

U.S. Department of Agriculture, Soil Conservation Service, *Soil Survey of Islands of Kauai, Oahu, Maui, Molokai and Lanai, State of Hawaii*, August 1972.

U.S. Federal Emergency Management Agency, National Flood Insurance Program, "Flood Insurance Rate Map, City and County of Honolulu, Community Panel Number 150001 0090C", revised September 28, 1990.

University of Hawaii, Department of Geography, *Atlas of Hawaii*, Second Edition, 1983.

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**APPENDIX A**

**Special Management Area Minor Permit**

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DEPARTMENT OF LAND UTILIZATION  
CITY AND COUNTY OF HONOLULU

430 SOUTH KING STREET, 7TH FLOOR • HONOLULU, HAWAII 96813  
PHONE: (808) 527-4414 • FAX: (808) 527-6743

JEREMY HARRIS  
MAYOR



JAN NADE SULLIVAN  
DIRECTOR

LORETTA K.C. CHEE  
DEPUTY DIRECTOR

98-02027(ask)

MINOR PERMIT: SPECIAL MANAGEMENT AREA (SMA)

File No.	:	98/SMA-29
Project (Valuation)	:	Kailua Heights Wastewater Pump Station Modification (\$102,000)
Location	:	504 Auwina Street, Kailua, Oahu
Tax Map Key	:	4-2-75: 17
Zoning	:	R-10 Residential District
Applicant	:	Department of Wastewater Management, City and County of Honolulu

DEPT OF WASTEWATER MGMT  
DIV OF ENGRG & CONSTR

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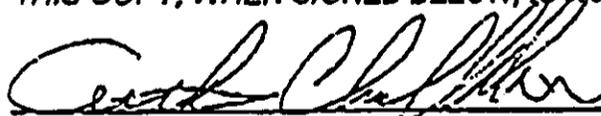
We have reviewed your proposal and find that it lies within the Special Management Area (SMA) established in Chapter 25, Revised Ordinances of Honolulu. We find that your proposed development has a valuation of less than \$125,000 and will have no significant effect on the SMA. Therefore, a Minor Permit is hereby **APPROVED**. In accordance with the application documents received on March 20, 1998, and subject to conditions listed below.

There are no further assessment requirements under Chapter 25, ROH.

If the accepted valuation of the proposed work exceeds \$125,000, the project will be returned to the Department of Land Utilization for further review under Chapter 25.

A copy of this approval should accompany your application(s) for construction permits.

**THIS COPY, WHEN SIGNED BELOW, IS NOTIFICATION OF THE ACTION TAKEN.**


Branch Chief
April 8, 1998

---

SIGNATURE
TITLE
DATE

The above approval does not constitute approval of any other required permits, such as building permits.

98SMA29-24

cc: DWM (Po Chan)

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**APPENDIX B**

**Correspondence with State Historic Preservation Division**

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BENJAMIN J. CAYETANO  
GOVERNOR OF HAWAII



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MAY 3 1998

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

DEPUTIES

GILBERT COLOMA-AGARAN

AQUACULTURE DEVELOPMENT  
PROGRAM

AQUATIC RESOURCES  
CONSERVATION AND

RESOURCES ENFORCEMENT

CONVEYANCES

FORESTRY AND WILDLIFE  
HISTORIC PRESERVATION

DIVISION

LAND DIVISION

STATE PARKS

WATER AND LAND DEVELOPMENT

ENGINEERING CONCEPT

STATE OF HAWAII

DEPARTMENT OF LAND AND NATURAL RESOURCES

STATE HISTORIC PRESERVATION DIVISION  
33 SOUTH KING STREET, 6TH FLOOR  
HONOLULU, HAWAII 96813

April 20, 1998

Kenneth Ishizaki, P. E.  
Engineering Concepts, Inc.  
250 Ward Avenue, Suite 206  
Honolulu, Hawaii 96814

LOG NO: 21292 ✓  
DOC NO: 9802EJ05

Dear Mr. Ishizaki:

SUBJECT: Chapter 6E-8 Historic Preservation Review -- Kailua Heights Wastewater  
Pump Station Modifications  
Kailua, Ko'olaupoko, O'ahu  
TMK: 4-2-75:17

Thank you for the opportunity to review this project which proposes pump modifications to an existing municipal wastewater pump station site. A review of our records shows that there are no known historic sites at the project location. Because all modifications will be contained within the existing developed parcel, and it is unlikely that historic sites remain, we believe that this project will have "no effect" on historic sites.

If you have any questions please call Elaine Jourdane at 587-0014.

Aloha,

Don Hibbard, Administrator  
Historic Preservation Division

EJ:jk

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**APPENDIX C**

**Draft EA Comments and Responses**



STATE OF HAWAII  
DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT & TOURISM  
LAND USE COMMISSION  
P.O. Box 2359  
Honolulu, HI 96804-2359  
Telephone: 808-587-3622  
Fax: 808-587-3827

RECEIVED  
JUL 30 1998  
ENGINEERING CONCEPT

July 29, 1998

Mr. Po Chan  
Department of Design and Construction  
City & County of Honolulu  
650 South King Street  
Honolulu, Hawaii 96813

Dear Mr. Chan:

Subject: Draft Supplemental Environmental Assessment (DSEA)  
for the Kailua Heights Wastewater Pump Station  
Modification, Kailua, Oahu, TMK 4-2-75: 17

We have reviewed the DSEA for the subject project and  
confirm that the project site, as represented on Figure 3.2, is  
located within the State Land Use Urban District.

We have no further comments to offer at this time. We  
appreciate the opportunity to comment on the subject DSEA.

Should you have any questions, please feel free to call me  
or Bert Saruwatari of our office at 587-3822.

Sincerely,

ESTHER UEDA  
Executive Officer

EU:th

cc: OEQC  
Kenneth Ishizaki

DEPARTMENT OF DESIGN AND CONSTRUCTION  
CITY AND COUNTY OF HONOLULU  
610 SOUTH KING STREET, 2ND FLOOR  
HONOLULU, HAWAII 96813  
PHONE: (808) 523-4184 • FAX: (808) 523-4887



JEREMY HARRIS  
MAYOR

RANDALL K. FLECK, AIA  
DIRECTOR  
ROLAND D. LIBBY, JR., AIA  
DEPUTY DIRECTOR

DCP 98-184

September 3, 1998

Ms. Esther Ueda, Executive Officer  
Land Use Commission  
Department of Business, Economic  
Development and Tourism  
State of Hawaii  
P.O. Box 2359  
Honolulu, Hawaii 96804-2359

Dear Ms. Ueda:

Subject: Draft Supplemental Environmental Assessment (EA) for  
Kailua Heights Wastewater Pump Station Modification  
Kailua, Oahu, Hawaii TMK 4-2-75: 17

Thank you for your letter of July 29, 1998 regarding the Draft Supplemental EA for the subject  
project. We appreciate your effort in reviewing the document and thank you for confirmation  
that the project site is located within the State Land Use Urban District.

A copy of your letter and this response will be included in the Final Supplemental EA. Should  
you have any further questions or concerns, please contact Richard Leong of the Division of  
Planning and Programming at 527-5863.

Very truly yours,

RANDALL K. FLECK  
Director

cc: Kenneth Ishizaki - Engineering Concepts, Inc.  
Po Chan, IDE

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**DEPARTMENT OF BUSINESS, RECREATION & ECONOMIC DEVELOPMENT & TOURISM**

**OFFICE OF PLANNING**  
235 South Beretania Street, 6th Fl., Honolulu, Hawaii 96813  
Mailing Address: P.O. Box 2359, Honolulu, Hawaii 96804  
Ref. No. P-7630

DESIGN & CONSTRUCTION  
DIV OF INFRASTRUCTURE  
DESIGN & ENGINEERING  
August 6, 1998

Mr. Kenneth E. Sprague  
Director  
Department of Environmental Services  
City and County of Honolulu  
650 South King Street  
Honolulu, Hawaii 96813

Dear Mr. Sprague:

Subject: Kailua Heights Wastewater Pump Station Modification

We note that the project site is adjacent to Kawaiui Stream. We also note that the proposed mitigation measures will be included in the construction plans to minimize soil erosion and offsite sediment transport. However, we would also like to recommend that special care be taken to ensure the containment of potential runoff during the construction of this project. Specific runoff control measures and best management practices to prevent adverse environmental and ecological impacts should be clearly specified in the permit.

If there are any questions, please contact Howard Fujimoto of our Coastal Zone Management Program at 587-2898.

Sincerely,  
  
Rick Egged  
Director  
Office of Planning

RECEIVED  
AUG 14 1998  
AUG 14 1998  
AUG 14 1998  
AUG 14 1998

**DEPARTMENT OF DESIGN AND CONSTRUCTION  
CITY AND COUNTY OF HONOLULU**

850 SOUTH KING STREET, 2ND FLOOR  
HONOLULU, HAWAII 96813  
PHONE: (808) 522-4164 • FAX: (808) 522-4587



JEREMY HARRIS  
MAYOR

RANDALL K. FUJIKI, AIA  
DIRECTOR  
ROLAND D. LUSBY, JR., AIA  
DEPUTY DIRECTOR

DCP 98-185

September 3, 1998

Mr. Rick Egged, Director  
Office of Planning  
Department of Business, Economic  
Development and Tourism  
State of Hawaii  
P.O. Box 2359  
Honolulu, Hawaii 96804-2359

Dear Mr. Egged:

Subject: Draft Supplemental Environmental Assessment (EA) for  
Kailua Heights Wastewater Pump Station Modification  
Kailua, Oahu, Hawaii TMK: 4-2-75: 17

Thank you for your letter of August 6, 1998 to the Department of Environmental Services regarding the Draft Supplemental EA for the subject project. We appreciate your effort in reviewing the document. The contractor will be required to comply with all permits and their conditions, including best management practices and runoff control measures.

A copy of your letter and this response will be included in the Final Supplemental EA. Should you have any further questions or concerns, please contact Richard Leong of the Division of Planning and Programming at 527-5863.

Very truly yours,  
  
RANDALL K. FUJIKI  
Director

cc: Kenneth Ishizaki - Engineering Concepts, Inc.  
Po Chan, IDE



STATE OF HAWAII

DEPARTMENT OF LAND AND NATURAL RESOURCES

STATE HISTORIC PRESERVATION DIVISION  
33 SOUTH KING STREET, 4TH FLOOR  
HONOLULU, HAWAII 96813

RECEIVED

AUG 6 1998 MICHAEL D. WELSH, CHAIRPERSON  
BOARD OF LAND AND NATURAL RESOURCES  
ENGINEERING 33  
SUZUKI COLONIA AGAMA  
SUZUKI

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

August 3, 1998

Bill Liu  
Department of Environmental Services  
City & County of Honolulu  
650 S. King Street  
Honolulu, Hawaii 96813

LOG NO: 21992 ✓  
DOC NO: 9807EJ45

Dear Mr. Liu:

**SUBJECT:** Chapter 6E-8 Historic Preservation Review -- Draft Environmental Assessment (DEA) Kailua Heights Wastewater Pump Station Modifications Kailua, Ko'olaupoko, O'ahu  
TMK: 4-2-75:17

The DEA includes in Appendix B our earlier comments that we believe that this project will have "no effect" on historic sites.

If you have any questions please call Elaine Jourdane at 587-0014.

Aloha,

Don Hibbard, Administrator  
State Historic Preservation Division

EJ:je

c: Kenneth Ishizaki, Engineering Concepts, Inc., 250 Ward Avenue, Suite 206, Honolulu, Hawaii 96814

OEQC, Leiopapa A Kamehameha, Suite 702, 235 S. Beretania St. Honolulu, Hawaii 96813

DEPARTMENT OF DESIGN AND CONSTRUCTION  
CITY AND COUNTY OF HONOLULU

810 SOUTH KING STREET, 2ND FLOOR  
HONOLULU, HAWAII 96813  
PHONE: (808) 523-4564 • FAX: (808) 523-4587



JEREMY HARRIS  
MAYOR

MANDALL K. FUJIKI, AIA  
DIRECTOR  
ROLAND D. LIBBY, JR., AIA  
DEPUTY DIRECTOR

DCP 98-186

September 3, 1998

Mr. Don Hibbard, Administrator  
State Historic Preservation Division  
Department of Land and Natural Resources  
State of Hawaii  
33 South King Street, 6th Floor  
Honolulu, Hawaii 96813

Dear Mr. Hibbard:

**Subject:** Draft Supplemental Environmental Assessment (EA) for Kailua Heights Wastewater Pump Station Modification Kailua, Oahu, Hawaii TMK: 4-2-75: 17

Thank you for your letter of August 3, 1998 to the Department of Environmental Services regarding the Draft Supplemental EA for the subject project. We appreciate your effort in reviewing the document and acknowledge that you have no additional comments to offer.

A copy of your letter and this response will be included in the Final Supplemental EA. Should you have any further questions or concerns, please contact Richard Leong of the Division of Planning and Programming at 527-5863.

Very truly yours,

MANDALL K. FUJIKI  
Director

cc: Kenneth Ishizaki - Engineering Concepts, Inc.  
Po Chan, IDE

0000 0023 2395



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

RECEIVED  
AUG 18 1998

LAWRENCE MERE  
DIRECTOR OF HEALTH

In reply, please refer to

August 12, 1998

98-158/epo

Mr. Po Chan  
Department of Design and Construction  
City and County of Honolulu, 16th Floor  
650 South King Street  
Honolulu, Hawaii 96813

Dear Mr. Chan:

Subject: Draft Supplemental Environmental Assessment (DSEA)  
Kailua Heights Wastewater Pump Station Modification  
Kailua, Oahu  
TMK: 4-2-75:17

Thank you for allowing us to review and comment on the subject project. We have the following comments to offer:

Noise CONCERNS

1. Activities associated with the construction phase of the project must comply with the Department of Health's Administrative Rules, Chapter 11-46, "Community Noise Control."
  - a. The contractor must obtain a noise permit if the noise levels from the construction activities are expected to exceed the allowable levels of the rules as stated in Section 11-46-6(a).
  - b. Construction equipment and on-site vehicles requiring an exhaust of gas or air must be equipped with mufflers as stated in Section 11-46-6(b)(1)(A).
  - c. The contractor must comply with the requirements pertaining to construction activities as specified in the rules and the conditions issued with the permit as stated in Section 11-46-7(d)(4).
2. Through facility design, sound levels emanating from stationary equipment such as air conditioning systems, exhaust fans, refrigeration compressors or generators must be attenuated to comply with the provisions of the

Mr. Po Chan  
August 12, 1998  
Page 2

98-158/epo

Department of Health's Administrative Rules, Chapter 11-46,  
"Community Noise Control."

Should there be any questions on this matter, please call Mr. Jerry Haruno, Environmental Health Program Manager of the Noise, Radiation and Indoor Air Quality Branch at 586-4701.

Wastewater

There does not seem to be any potential impacts with the proposed modifications, as wastewater generated would be transported to the City and County's wastewater treatment facility.

Should you have any questions relative to wastewater, please contact the Planning and Design Section of the Wastewater Branch at 586-4294.

Sincerely,

BRUCE S. ANDERSON, Ph.D.  
Deputy Director for Environmental Health

C. HWB  
NR&IAQB  
OEQC  
Engineering Concepts, Inc.

0000 0023 2397

0000 0023 2398

DEPARTMENT OF DESIGN AND CONSTRUCTION  
CITY AND COUNTY OF HONOLULU

810 SOUTH KING STREET, 2ND FLOOR  
HONOLULU, HAWAII 96813  
PHONE: (808) 523-4584 • FAX: (808) 523-4587

JEFFREY HARRIS  
MAYOR



RANDALL K. FUJIKI, AIA  
DIRECTOR  
ROLAND D. LIBBY, JR., AIA  
DEPUTY DIRECTOR

DCP 98-187

September 3, 1998

Dr. Bruce S. Anderson  
Deputy Director for Environmental Health  
Department of Health  
State of Hawaii  
P.O. Box 3378  
Honolulu, Hawaii 96801

Dear Dr. Anderson:

Subject: Draft Supplemental Environmental Assessment (EA) for  
Kailua Heights Wastewater Pump Station Modification  
Kailua, Oahu, Hawaii TMK: 4-2-75: 17

Thank you for your letter of August 3, 1998 regarding the Draft Supplemental EA for the subject project. We appreciate your effort in reviewing the document and offer the following response to your comments.

Noise Concerns

The EA includes a statement that construction activities will comply with the Department of Health's Administrative Rules, Chapter 11-46, "Community Noise Control". However, the following specific statements will be added to the Final Supplemental EA:

- The contractor shall obtain a noise permit if the noise levels from the construction activities are expected to exceed the allowable levels of the rules as stated in Section 11-46-6(a).
- Construction equipment and onsite vehicles requiring an exhaust of gas or air shall be equipped with mufflers as stated in Section 11-46-6(b)(1)(A).
- The contractor shall comply with the requirements pertaining to construction activities as specified in the rules and conditions issued with the permit as stated in Section 11-46-7(d)(4).

Dr. Bruce S. Anderson  
Page 2  
September 3, 1998

- Through facility design, sound levels emanating from stationary equipment such as the air conditioning system, exhaust fans or emergency generator shall be attenuated to comply with the provisions of HAR 11-46.

Wastewater

We acknowledge your comment that there are no apparent wastewater-related impacts associated with the proposed modifications.

A copy of your letter and this response will be included in the Final Supplemental EA. Should you have any further questions or concerns, please contact Richard Leong of the Division of Planning and Programming at 527-5863.

Very truly yours,

RANDALL K. FUJIKI  
Director

cc: Kenneth Ishizaki - Engineering Concepts, Inc.  
Po Chan, IDE



STATE OF HAWAII  
OFFICE OF ENVIRONMENTAL QUALITY CONTROL

328 SOUTH KING STREET  
SUITE 702  
HONOLULU, HAWAII 96813  
TELEPHONE (808) 522-4185  
FACSIMILE (808) 522-4184

August 20, 1998

Mr. Po Chan  
Department of Design and Construction  
Office of Environmental Services  
City and County of Honolulu  
650 South King Street  
Honolulu, Hawaii 96813

Dear Mr. Chan:

Having reviewed the draft environmental assessment (DEA) for the Kailua Heights Wastewater Pump Station Modification, Kailua, O'ahu, TMK 4-2-75:17, supplemental to the Final Environmental Assessment for the Kalaheo Avenue Relief Sewer at Kailua, Ko'olaupoko, O'ahu, we submit the following comment for your response.

Please discuss in the final environmental assessment whether it is more cost effective to increase capacity or to identify and prevent major sources of infiltration.

If there are any questions, please call Leslie Segundo, Environmental Health Specialist, at 586-4185.

Sincerely,

GARY GILL  
Director

cc: Mr. Kenneth Ishizaki, Engineering Concepts, Inc.

DEPARTMENT OF DESIGN AND CONSTRUCTION  
CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET, 2ND FLOOR  
HONOLULU, HAWAII 96813  
PHONE: (808) 522-4184 • FAX: (808) 522-4587



JEREMY HARRIS  
MAYOR

RANDALL K. FUJINO, AIA  
DIRECTOR

ROLAND D. LUBY, JR., AIA  
DEPUTY DIRECTOR

DCP 98-195

September 4, 1998

Mr. Gary Gill, Director  
Office of Environmental Quality Control  
State of Hawaii  
235 South Beretania Street  
Honolulu, Hawaii 96813

Dear Mr. Gill:

Subject: Draft Supplemental Environmental Assessment (DEA) for Kailua Heights Wastewater Pump Station Modification, Kailua, Oahu, Hawaii. IMK: 4-2-75:17

Thank you for your response of August 20, 1998 to subject DEA. Your comment on whether it is more cost effective to increase capacity or to identify and rehabilitate major sources of infiltration/inflow (I/I) for subject project reflects a concern also of the City Wastewater Planners.

Preliminary cost effective analyses have been prepared for Oahu, including the tributary basin for the Kailua Heights WWPS. A map is attached. The map indicates where it is generally considered not cost effective to rehabilitate major sources of I/I. The preliminary cost effective analyses were based on factors used by mainland wastewater sources. The City is currently conducting local studies and measurements on I/I rehabilitation which will refine the preliminary mainland I/I factors as it affects the cost effective analyses for all of the City and County Wastewater Facilities, including the subject project.

A copy of this letter with attachment will be included in the Final EA.

If there are any further questions, please contact Richard Leong of the Division of Planning and Programming at 527-3863.

Very truly yours,

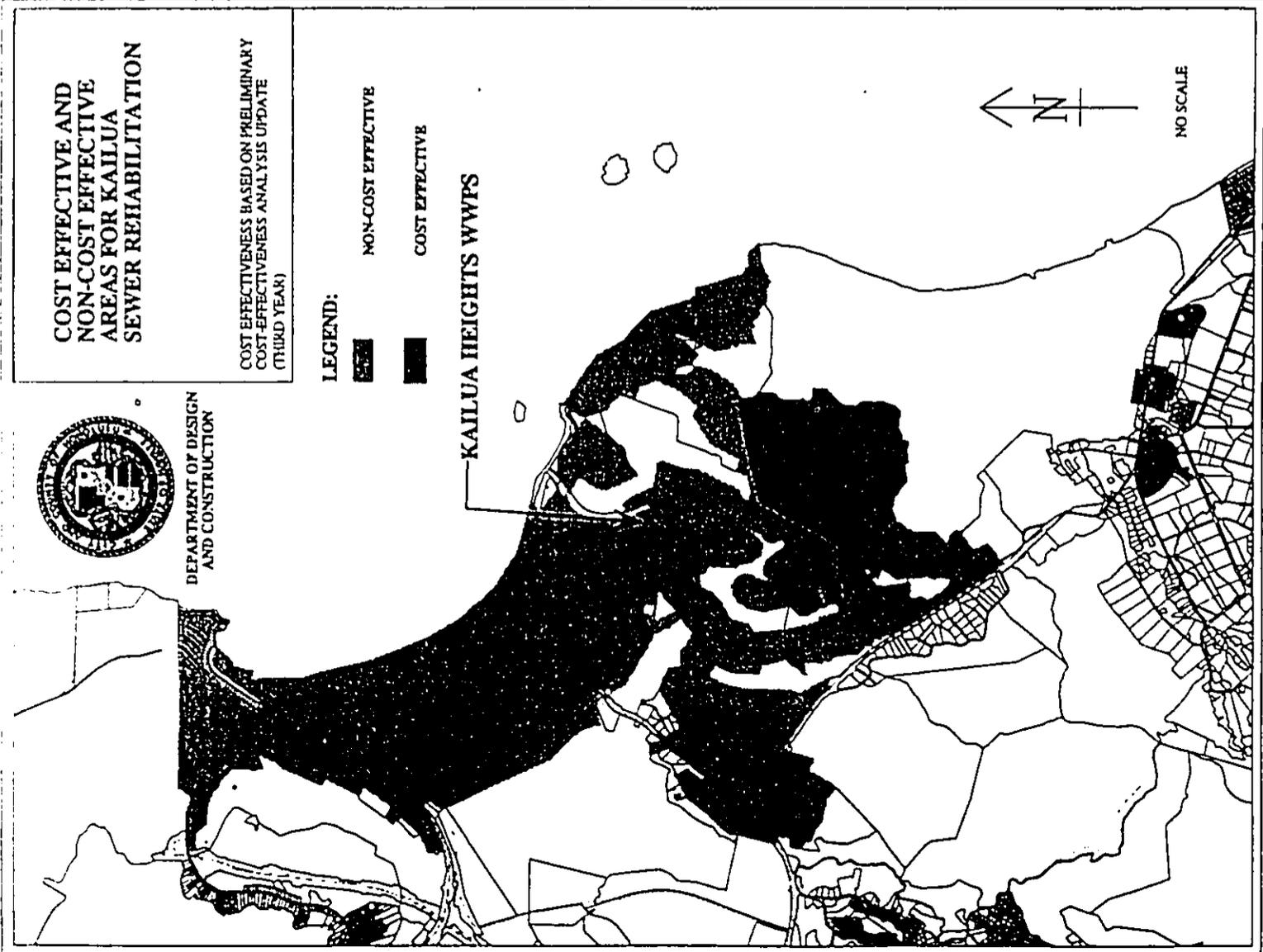
RANDALL K. FUJINO  
Director

Attachment

cc: Kenneth Ishizaki - Engineering Concepts, Inc.  
Po Chan, IDE

0000 0023 2399

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0000 0023 2401

**COPY**  
JEREMY HARRIS, Mayor



**BOARD OF WATER SUPPLY**  
CITY AND COUNTY OF HONOLULU  
630 SOUTH BERTANA STREET  
HONOLULU, HAWAII 96843  
PHONE: (808) 527-6180  
FAX: (808) 533-2714

August 27, 1998

**RECEIVED**  
SEP 2 1998

**TO:** KENNETH E. SPRAGUE, DIRECTOR  
DEPARTMENT OF ENVIRONMENTAL SERVICES

**ATTN:** PO-CHAN  
DEPARTMENT OF DESIGN AND CONSTRUCTION

**FROM:** CLIFFORD S. JAMILE, MANAGER AND CHIEF ENGINEER  
BOARD OF WATER SUPPLY

**SUBJECT:** YOUR TRANSMITTAL OF JULY 23, 1998 OF THE SUPPLEMENTAL DRAFT ENVIRONMENTAL ASSESSMENT FOR THE KAILUA HEIGHTS WASTEWATER PUMP STATION MODIFICATION, KAILUA, OAHU, TMK: 4-2-75: 17

Thank you for the opportunity to review the document for the proposed modifications to the wastewater pump station.

We have the following comments to offer:

1. The existing water system is presently adequate to accommodate the proposed wastewater pump station modifications.
2. The availability of water will be determined when the building permit application is submitted for our review and approval. If water is made available, the applicant will be required to pay our Water System Facilities Charges for resource development, transmission, and daily storage.
3. There is an existing 1-1/2-inch water meter serving the project site.
4. If a three-inch or larger meter is required, the construction drawings showing the installation of the meter should be submitted for our review and approval.
5. The on-site fire protection requirements should be coordinated with the Fire Prevention Bureau of the Honolulu Fire Department.
6. Board of Water Supply approved reduced pressure principle backflow prevention assemblies will be required immediately after the water meters serving the project site.

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

cc: Office of Environmental Quality Control  
Engineering Concepts, Inc.

Ken Warr - our general need - use if needed

DEPARTMENT OF DESIGN AND CONSTRUCTION  
**CITY AND COUNTY OF HONOLULU**  
650 SOUTH KING STREET, 2ND FLOOR  
HONOLULU, HAWAII 96813  
PHONE: (808) 523-4564 • FAX: (808) 523-4587



JEREMY HARRIS  
MAYOR

RANDALL K. FURUKI, AIA  
DIRECTOR

ROLAND D. LIBBY, JR., AIA  
DEPUTY DIRECTOR

DCP 98-188

September 3, 1998

**MEMORANDUM**

**TO:** MR. CLIFFORD S. JAMILE, MANAGER AND CHIEF ENGINEER  
BOARD OF WATER SUPPLY

**FROM:** RANDALL K. FURUKI, DIRECTOR  
DEPARTMENT OF DESIGN AND CONSTRUCTION

**SUBJECT:** DRAFT SUPPLEMENTAL ENVIRONMENTAL ASSESSMENT (EA)  
FOR KAILUA HEIGHTS WASTEWATER PUMP STATION MODIFICATION  
KAILUA, OAHU, HAWAII, TMK: 4-2-75: 17

Thank you for your correspondence of August 27, 1998 to the Department of Environmental Services regarding the Draft Supplemental EA for the subject project. We appreciate your effort in reviewing the document and offer the following response to your comments:

1. We acknowledge your comment that the existing water system is presently adequate to accommodate the proposed pump station modifications.
2. We understand that the availability of water will be determined when the building permit application is submitted, and that if water is made available, Water System Facilities Charges may be assessed. Virtually no increase in demand is anticipated due to the pump station modifications.
3. We acknowledge your comment that an existing 1-1/2 inch water meter serves the project site.
4. The existing water meter will be used. A larger water meter will not be installed.
5. Fire protection is provided by an offsite fire hydrant. Onsite fire protection requirements will be coordinated with the Fire Prevention Bureau of the Honolulu Fire Department.
6. The existing water meter and backflow preventer will be retained.

A copy of your correspondence and this response will be included in the Final Supplemental EA. Should you have any further questions or concerns, please contact Richard Leong of the Division of Planning and Programming at 527-5863.

cc: Kenneth Ishizaki - Engineering Concepts, Inc.  
Po Chan, IDE

DEPARTMENT OF PLANNING AND PERMITTING  
CITY AND COUNTY OF HONOLULU  
650 SOUTH KING STREET, 7TH FLOOR • HONOLULU, HAWAII 96813  
Phone: (808) 523-4414 • Fax: (808) 527-4742



JEREMY HARRIS  
MAYOR

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AUG 3 1998

ENGINEER J. CONNER

August 12, 1998

'98 EA Comments Zone 4

JAN NAOE SULLIVAN  
DIRECTOR

LORETTA K.C. CHEE  
DEPUTY DIRECTOR

98-05565 (ST)

98/SHA-29

MEMORANDUM

TO: KENNETH E. SPRAGUE, DIRECTOR  
DEPARTMENT OF ENVIRONMENTAL SERVICES

FROM: JAN NAOE SULLIVAN, DIRECTOR  
DEPARTMENT OF PLANNING AND PERMITTING

SUBJECT: DRAFT SUPPLEMENTAL ENVIRONMENTAL ASSESSMENT (DSEA) FOR  
KAILUA HEIGHTS WASTEWATER PUMP STATION MODIFICATION  
KAILUA, OAHU. TAX MAP KEY: 4-2-75: 17

We have reviewed the DSEA for the above-referenced project transmitted by your letter dated July 23, 1998, and have no comment beyond those previously provided for the original environmental assessment.

We note that the minor Special Management Area Use Permit, File No. 98/SHA-29, issued by our Department on April 8, 1998, already incorporated the subject modifications.

Thank you for the opportunity to comment on this matter. Should you have any questions, please contact our Coastal Lands Branch at Extension 4077.

*JAN NAOE SULLIVAN*  
JAN NAOE SULLIVAN  
Director of Planning  
and Permitting

JNS:am

cc: Po Chan, Department of Design  
and Construction  
Office of Environmental Quality Control  
/Engineering Concepts, Inc.

9:16:18-05565.dkt

DEPARTMENT OF DESIGN AND CONSTRUCTION  
CITY AND COUNTY OF HONOLULU

850 SOUTH KING STREET, 2ND FLOOR  
HONOLULU, HAWAII 96813  
PHONE: (808) 523-4584 • FAX: (808) 523-4587



JEREMY HARRIS  
MAYOR

RANDALL K. FLUKE, AIA  
DIRECTOR

ROLAND D. LORRY, JR., AIA  
DEPUTY DIRECTOR

DCP 98-189

September 3, 1998

MEMORANDUM

TO: MS. JAN NAOE SULLIVAN, DIRECTOR  
DEPARTMENT OF PLANNING AND PERMITTING

FROM: *JAN NAOE SULLIVAN*  
RANDALL K. FUJIKI, DIRECTOR  
DEPARTMENT OF DESIGN AND CONSTRUCTION

SUBJECT: DRAFT SUPPLEMENTAL ENVIRONMENTAL ASSESSMENT (EA)  
FOR KAILUA HEIGHTS WASTEWATER PUMP STATION MODIFICATION  
KAILUA, OAHU. HAWAII TMK: 4-2-75: 17

Thank you for your correspondence of August 12, 1998 to the Department of Environmental Services regarding the Draft Supplemental EA for the subject project. We appreciate your effort in reviewing the document and acknowledge that you have no additional comments to offer.

A copy of your correspondence and this response will be included in the Final Supplemental EA. Should you have any further questions or concerns, please contact Richard Leong of the Division of Planning and Programming at 527-5863.

cc: Kenneth Ishizaki - Engineering Concepts, Inc.  
Po Chan, IDE

0000 0023 2402

RECEIVED

AUG 27 1998

ENGINEERING CONCEPTS

August 24, 1998



Scott W.H. Seu, P.E.  
Manager  
Environmental Department

Department of Environmental Services  
City and County of Honolulu  
650 South King Street  
Honolulu, HI 96813

Attention: Mr. Po Chan

Subject: Kailua Heights Wastewater Pump Station Modification

Thank you for the opportunity to comment on your July 1998 Draft Supplemental EA for the Kailua Heights Wastewater Pump Station Modification, as proposed by the Department of Environmental Services, City and County of Honolulu. We have reviewed the subject document and have no comments at this time.

HECO shall reserve further comments pertaining to the protection of existing powerlines bordering the project area until construction plans are finalized. Again, thank you for the opportunity to comment on this draft environmental assessment.

Sincerely,

cc: OEQC

Engineering Concepts, Inc.  
250 Ward Ave., Suite 208  
Honolulu, HI 96814

Attention: Mr. Kenneth Ishizaki



WINNER OF THE EDISON AWARD  
FOR DISTINGUISHED INDUSTRY LEADERSHIP

DEPARTMENT OF DESIGN AND CONSTRUCTION

CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET, 2ND FLOOR  
HONOLULU, HAWAII 96813  
PHONE: (808) 522-4364 • FAX: (808) 522-4387



JEREMY HARRIS  
MAYOR

RANDALL K. FUJIKI, AIA  
DIRECTOR  
ROLAND D. LIMEY, JR., AIA  
DEPUTY DIRECTOR

DCP 98-190

September 3, 1998

Mr. Scott W.H. Seu, P.E. Manager  
Environmental Department  
Hawaiian Electric Company, Inc.  
P.O. Box 2750  
Honolulu, Hawaii 96840-0001

Dear Mr. Seu:

Subject: Draft Supplemental Environmental Assessment (EA) for  
Kailua Heights Wastewater Pump Station Modification  
Kailua, Oahu, Hawaii. TMK: 4-2-75: 17

Thank you for your letter of August 24, 1998 to the Department of Environmental Services regarding the Draft Supplemental EA for the subject project. We appreciate your effort in reviewing the document and acknowledge that you have no comments to offer at this time. We will keep you informed during design of the project to minimize conflicts with the existing power lines in the area.

A copy of your correspondence and this response will be included in the Final Supplemental EA. Should you have any further questions or concerns, please contact Richard Leong of the Division of Planning and Programming at 527-5863.

Very truly yours,

Director

cc: Kenneth Ishizaki - Engineering Concepts, Inc.  
Po Chan, IDE

0000 0023 2403

August 20, 1998

Department of Environmental Services  
650 South King Street  
Honolulu, Hawaii 96813

Attention: Mr. Po Chan  
Department of Design and Construction

Gentlemen:

Subject: Draft Supplemental Environmental Assessment  
Kailua Heights Wastewater Pump Station Modification

Please be advised that The Gas Company maintains underground utility gas mains in the project vicinity, which serves commercial and residential customers in the area and is interconnected with the utility network in Kailua. We would appreciate your consideration during the project planning and design process to minimize any potential conflicts with the existing gas facilities in the project area.

Thank you for the opportunity to comment on the Draft Supplemental Environmental Assessment. Should there be any questions, or if additional information is desired, please call me at 594-5574.

Very truly yours,



Keith K. Yamamoto  
Supervisor, Engineering

KKY:AN  
98-205

cc: Mr. Kenneth Ishizaki, Engineering Concepts, Inc.  
Office of Environmental Quality Control

DEPARTMENT OF DESIGN AND CONSTRUCTION  
**CITY AND COUNTY OF HONOLULU**

850 SOUTH KING STREET, 2ND FLOOR  
HONOLULU, HAWAII 96813  
PHONE: (808) 523-4564 • FAX: (808) 523-4587



JEREMY HARRIS  
MAYOR

RANDALL E. FUJIKI, AIA  
DIRECTOR  
ROLAND D. LIMEY, JR., AIA  
DEPUTY DIRECTOR

DCP 98-191

September 3, 1998

The Gas Company  
P.O. Box 3000  
Honolulu, Hawaii 96802-3000

Attention: Mr. Keith K. Yamamoto  
Supervisor, Engineering

Gentlemen:

Subject: Draft Supplemental Environmental Assessment (EA) for  
Kailua Heights Wastewater Pump Station Modification  
Kailua, Oahu, Hawaii, TMK: 4-2-75: 17

Thank you for your letter of August 20, 1998 to the Department of Environmental Services regarding the Draft Supplemental EA for the subject project. We appreciate your effort in reviewing the document. We will keep you informed during design of the project to minimize conflicts with the existing gas facilities in the area.

A copy of your correspondence and this response will be included in the Final Supplemental EA. Should you have any further questions or concerns, please contact Richard Leong of the Division of Planning and Programming at 527-5863.

Very truly yours,



RANDALL K. FUJIKI  
Director

cc: Kenneth Ishizaki - Engineering Concepts, Inc.  
Po Chan, IDE