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GOVERNOR OF HAWAII

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BOARD OF LAND AND NATURAL RESOURCES
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ENGINEERING
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
KAHOOLAWE ISLAND RESERVE COMMISSION
LAND
STATE PARKS

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
OFFICE OF CONSERVATION AND COASTAL LANDS
POST OFFICE BOX 621
HONOLULU, HAWAII 96809

REF:OCCL:TM

CDUA: OA-3391

FEB - 5 2007

MEMORANDUM

TO: Genevieve Salmonson, Director
Office of Environmental Quality Control

FROM: Samuel J. Lemmo, Administrator
Office of Conservation and Coastal Lands

SUBJECT: Final Environmental Assessment (FEA)/ Finding of No Significant Impact (FONSI) for Conservation District Use Application (CDUA) OA-3391 for the Hawaii Pacific University Hale Kou Force Main, Kaneohe, island of Oahu, TMK (1) 4-5-035:001; TMK: (1) 4-5-042: 002, 011, 015, 016; TMK: (1) 4-5-054: 001& 078

The Office of Conservation and Coastal Lands (OCCL) has reviewed the FEA for the proposed Hale Kou Force Main. The Draft Environmental Assessment (DEA) for CDUA OA-3391 was published in OEQC's December 8, 2006 Environmental Notice.

The FEA is being submitted to OEQC. We have determined that this project will not have significant environmental effects, and have therefore issued a FONSI. Be advised, however, that this finding does not constitute approval of the proposal. Please publish this notice in OEQC's upcoming February 23, 2007 Environmental Notice.

We have enclosed four copies of the FEA for the project. A copy of the OEQC Bulletin Publication Form and Project Summary is attached. Comments on the draft EA were sought from relevant agencies and the public, and were included in the FEA.

Please contact Tiger Mills of our Office of Conservation and Coastal Lands Staff at 587-0382 if you have any questions on this matter.

Attachments

RECEIVED
07 FEB -6 M 11:23
OFFICE OF ENVIRONMENTAL QUALITY CONTROL

2007-02-23-OA-FEA · HAWAII PACIFIC UNIVERSITY HALE KOU FORCE MAIN

FINAL ENVIRONMENTAL ASSESSMENT

HAWAII PACIFIC UNIVERSITY

HALE KOU FORCE MAIN

Kāne'ohe, District of Ko'olaupoko, Honolulu, Hawai'i

Prepared for

Hawaii Pacific University
1166 Fort St. Suite 2-G
Honolulu, Hawaii 96813

January 2007

FINAL ENVIRONMENTAL ASSESSMENT

HAWAII PACIFIC UNIVERSITY

HALE KOU FORCE MAIN

Kāne'ohe, District of Ko'olaupoko, Honolulu, Hawai'i

Prepared in Partial Fulfillment of the Requirements of Chapter 343, Hawaii Revised Statute and Title 11, Chapter 200, Hawaii Administrative Rules, Department of Health, State of Hawaii

Prepared for

Hawaii Pacific University
1166 Fort St. Suite 2-G
Honolulu, Hawai'i 96813

Prepared by

Gerald Park Urban Planner
1221 Kapiolani Boulevard, Suite 211
Honolulu, Hawai'i 96814

January 2007

PROJECT PROFILE

Proposed Action:	Hawaii Pacific University Hale Kou Force Main Kāne'ohe, District of Ko'olaupoko, Honolulu, Hawai'i
Applicant:	Hawaii Pacific University 1166 Fort Street Honolulu, Hawaii 96813
Approving Agency:	Department of Land and Natural Resources PO Box 621 Honolulu, Hawai'i 96806
Need for Assessment:	Propose the Use of Conservation District Land Hawaii Administrative Rules §11-200-6(b)(1)(B)
Tax Map Key:	Various
Land Area:	Approximately 37,500 square feet
Land Owner:	Hawaii Pacific University City and County of Honolulu (3 Parcels) State of Hawaii (2 Parcels) C and R Emerson Phillip J. and Cheryl L. Scellato
Existing Use:	Highway, Residential, Road right-of-way Sewer Pump Station
State Land Use Designation:	Conservation
Conservation Distirct *Subzone*:	General
Sustainable Communities Plan:	Open Space/ Preservation, Major Parks, ***Golf Courses, Cemeteries, and Nature Preserves***
Zoning:	P-1 Restricted Preservation
State Land Use Designation:	Urban
Sustainable Communities Plan:	Low Density Residential
Zoning:	R-5 Residential
Special Management Area:	Outside Special Management Area
Anticipated Determination:	Finding of No Significant Impact
Contact:	Office of Conservation and Coastal Lands Department of Land and Natural Resources PO Box 621 Honolulu, Hawai'i 97801 Telephone: 587-0380

Note: Revisions to the text of the Draft Environmental Assessment are shown in **bold *italic*** type. Deleted text is **[bracketed]**.

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DESCRIPTION OF THE PROPOSED PROJECT 1

Hawaii Pacific University proposes to construct an off-site sewer force main Kāne'ohe, District of Ko'olaupoko, City and County of Honolulu, State of Hawai'i. In general, the project is bounded by the Hawaii Pacific University Hawaii Loa Campus and Kamehameha Highway on the east, the Hale Kou Interchange and Pali Golf Course on the south, H-3 travel lanes and private property on the west, and the Hale Kou Waikaluakai Homesteads Subdivision on the north. A Location Map is shown in Figure 1.

The force main crosses seven separate lots (excluding Applicant's) and Applicant is seeking a 10-foot wide sewer easement from the respective owners. The seven affected lots are identified below and a tax map is shown in Figure 2.

Tax Map Key	Owner	Land Area
*4-5-035: 001	City and County of Honolulu	215.893 acres
*4-5-042: 011	State of Hawaii	9.95 acres
*4-5-042: 002	State of Hawaii	2.148 acres
*4-5-042: 015	City and of Honolulu	15.570 acres
*4-5-042: 016	C & R Emerson	4.38 acres
4-5-054: 001	Phillip J. & Cheryl L. Scellato	6,912 square feet
4-5-054: 078	City and County of Honolulu	4,753 square feet
*4-5-035: 010	Hawaii Pacific University	105.887 acres

Lots marked with an asterisk are in the State Conservation District. The unmarked lots are in the State Urban District.

A. Technical Characteristics

Applicant proposes to install an off-site force main sewer between a new sewer pump station to be constructed at Hawaii Pacific University's Hawaii Loa Campus (TMK: 4-5-035:010) and a City and County of Honolulu Sewer Pump Station on Kahiko Street (TMK: 4-5-054: 078) in the Hale Kou Waikaluakai Homesteads Subdivision. The force main alignment is approximately 3,750 feet in length between both pump stations and would be installed within a 10-foot wide easement. As shown in Figure 3, from a new pump station on the HPU property, the alignment crosses Kamehameha Highway in a northeast to southwest direction, passes through a corner of the Pali Golf Course (near the 15th tee and green) then turns north crossing all travel lanes and ramps of the H-3 Freeway on the west side of the Hale Kou Interchange. From Kionaole Road the alignment enters private property and proceeds along the bottom of a gulch, traverses under Kamo'oali'i Stream on City property, strikes uphill crossing private property, and then enters the Hale Kou Sewer Pump Station.

An 8" high-density polyethylene pipe with fused joints is planned for the force main. Critical sections of the polyethylene pipe will be inserted inside a slightly larger diameter pipe creating a "jacket" to protect the force main should settlement occur. Under the H-3 segment, sections of the main will be enclosed in a steel carrier pipe, per DOT guidelines. Topographical conditions will determine how deep the pipe would be installed with expected

depths ranging from -5 feet to -20 feet. The State Department of Transportation will establish appropriate depths under the H-3 Freeway.

The entire force main will be constructed using directional drilling rather than a cut and cover construction method. Directional drilling minimizes disruptions to the environment and reduces the magnitude of construction related impacts typically associated with cut and cover construction methods.

To facilitate the drilling process, up to 5 separate "access" pits will be needed. Areas for the pits will be cleared and the ground excavated to allow the directional drill to enter the ground. At this time, the pit dimensions are estimated at 4' X 6' or 4' X 8' depending on depths. After pipe sections are installed and tested, the pits will be backfilled and the area restored to pre-construction conditions. The locations of the access pits will be selected by the drilling contractor.

B. Social Characteristics

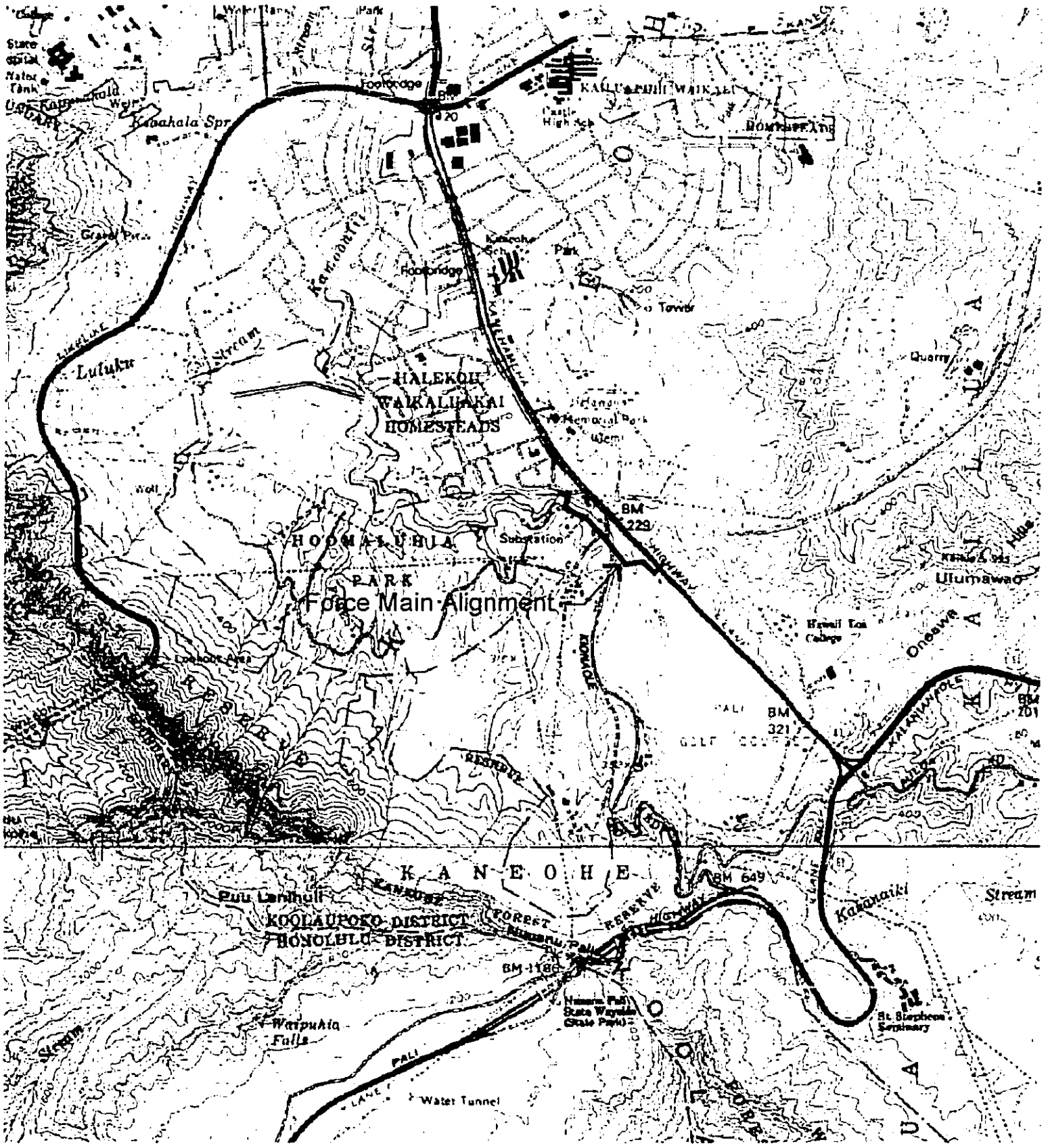
No recreational or residential uses will be displaced because of this project.

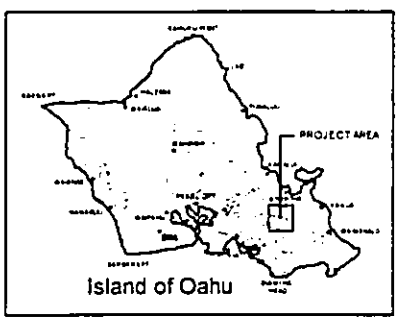
The force main crosses private properties and the respective owners have approved of having a utility easement over their property. Applicant is in the process of procuring easements from the State of Hawaii and City and County of Honolulu where required.

C. Economic Characteristics

The construction cost of the force main is estimated at $2.0 million. Applicant will pay all costs associated with the proposed improvements.

Construction will commence after all necessary permits are received. Construction should be completed within one (1) year from start-up





Source: USGS, Kaneohe & Honolulu Quadrangles

Figure 1
Location Map

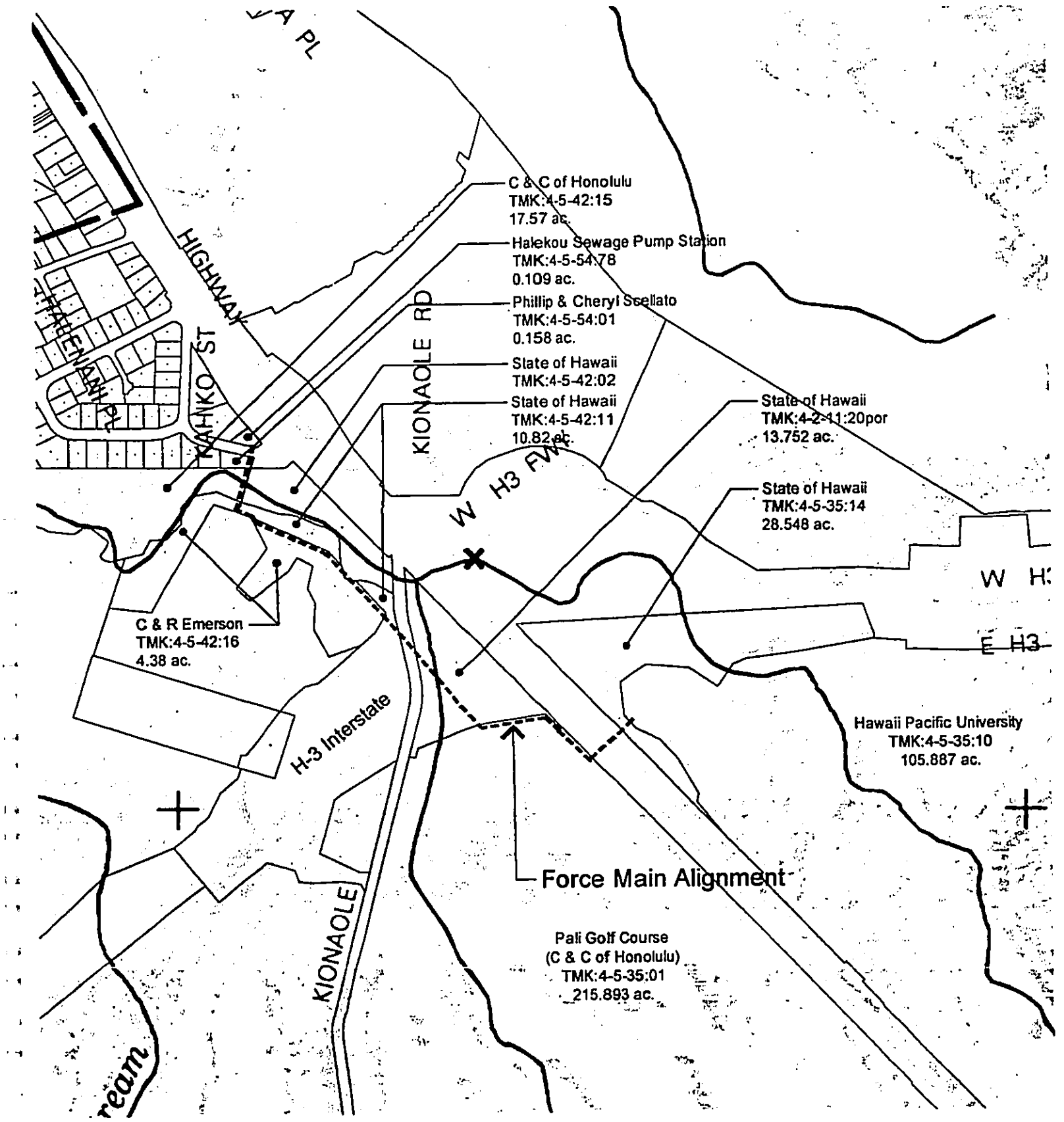
HPU Halekou Force Main

Kaneohe, Ko'olaupoko District, O'ahu

NORTH

LINEAL SCALE (FEET)
1000 500 0 500 1000 2000

Gerald Park
Urban Planner
August 2006



Source: City & County of Honolulu Website
Aerial: FIRM Map Number 15003C0270G
June 2, 2005.

Figure 2
Tax Map

HPU Halekou Force Main

Kaneohe, Ko'olaupoko District, O'ahu

NORTH

LINEAL SCALE (FEET)
250 125 0 125 250 500

Gerald Park
Urban Planner
August 2006

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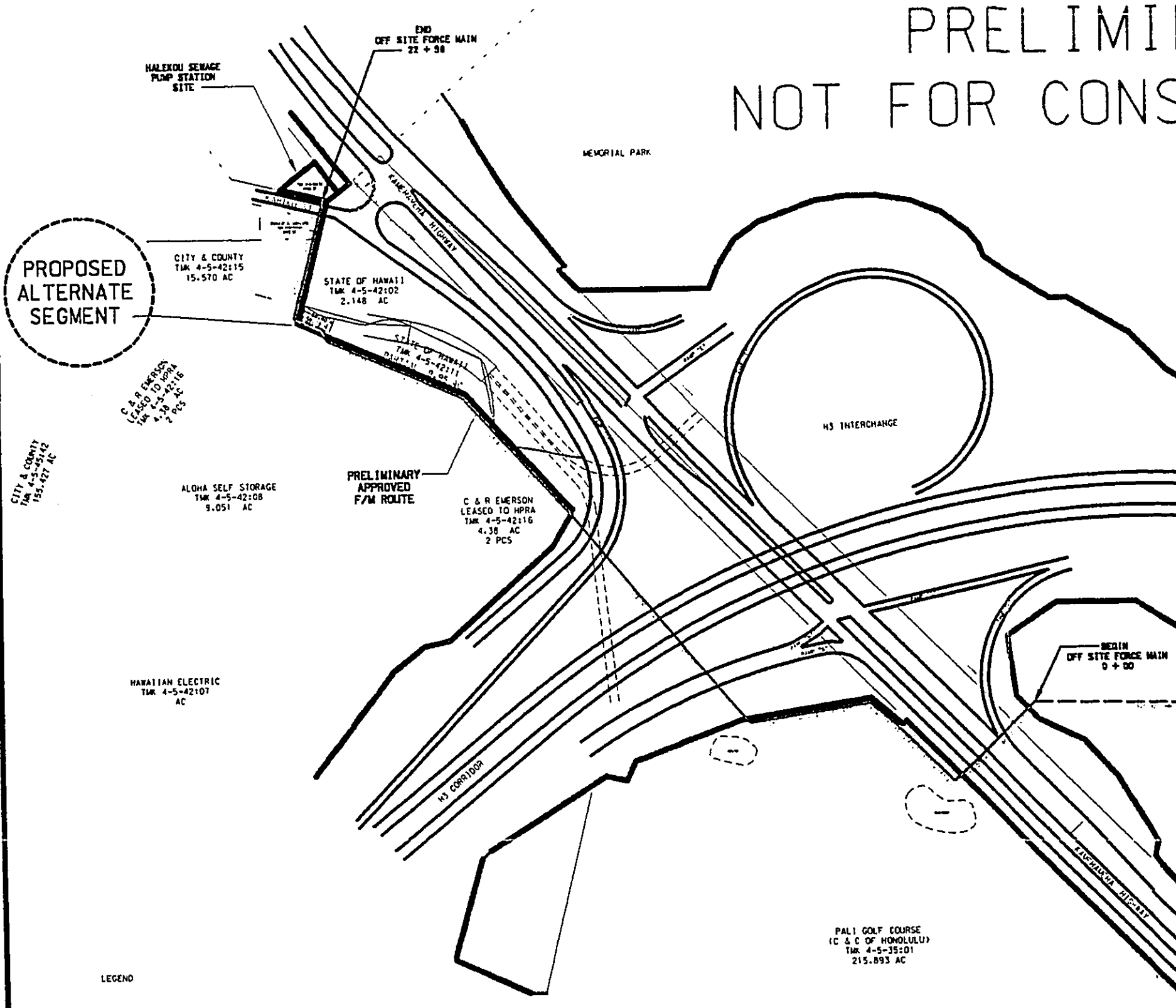

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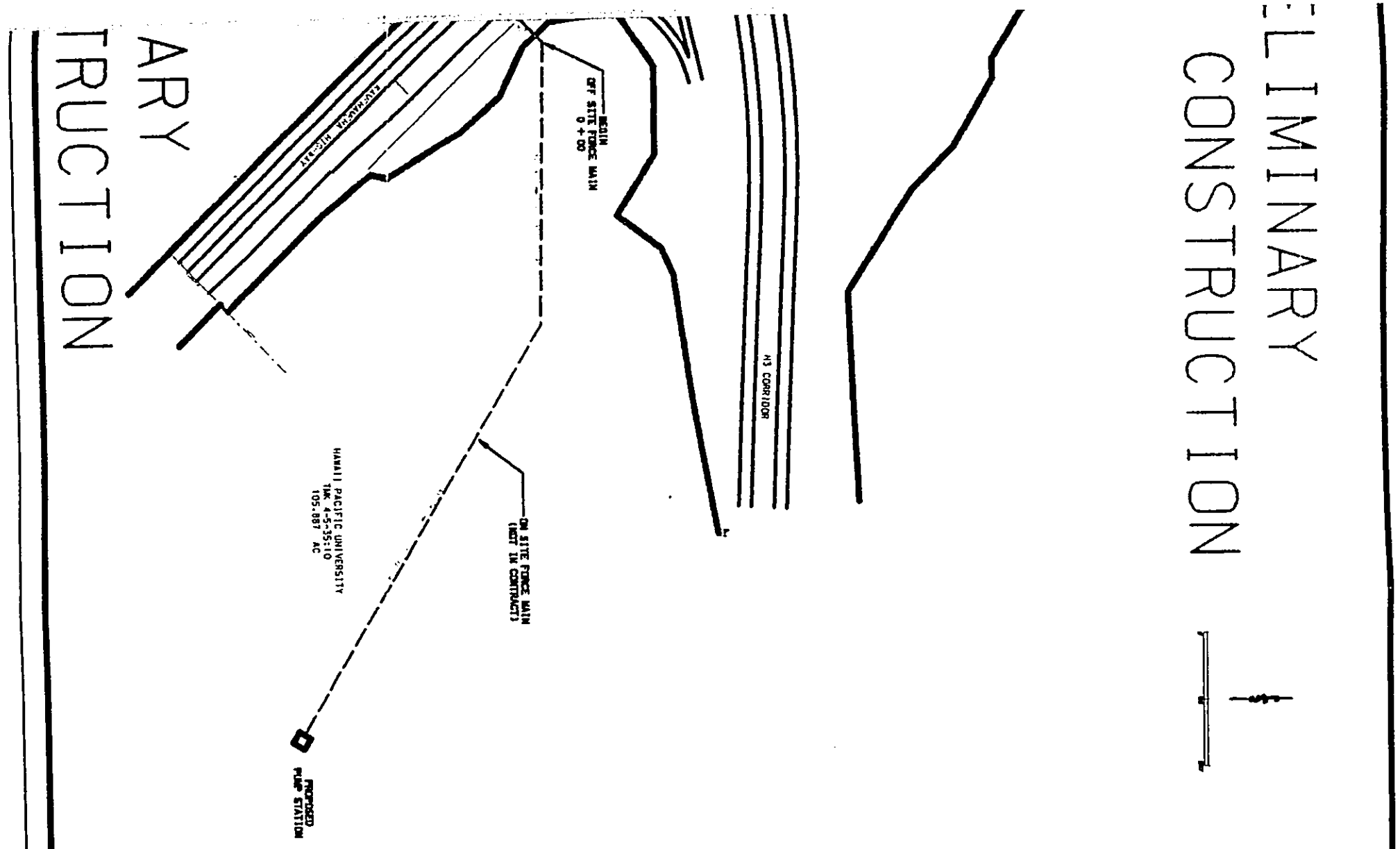


DGN NO.: OSFMALT	JOB NO.: HPU04	DRAWN BY: RGN		DATE: 3/8/05
SHEET 1	HAWAII PACIFIC UNIVERSITY HALEKOU FORCE MAIN ALTERNATE	RGN DESIGNS P. O. Box 4339, KAILUA-KONA, HI 96745 Phone/Fax 808-928-0000 ENVIRONMENTAL, CIVIL, & SANITARY ENGINEERING		REVISIONS NO. DATE 1 6/13/05
1 of 1	SITE PLAN			

EXISTING CONDITIONS 2

A. Existing Uses

The wastewater treatment plant at the HPU Hawaii Loa campus was constructed in 1972 in conjunction with the initial building program for Hawaii Loa College. The package treatment plant provides secondary treatment with solids collected in a digester and effluent passing through a clarifier before discharging into one of two on-site effluent trench systems. Collected solids are pumped out of the digester once a year and hauled away for disposal. The plant has a capacity of 30,000 gallons per day and a current average daily flow of 20,000 gallons.

The ¾ mile long force main traverses an array of urban type land uses in spite of the predominance of conservation designated land along its alignment. It crosses under two roads---Kamehameha Highway, a major road connecting Kaneohe to the north with the Pali Highway to the south, and eastbound and westbound lanes of the H-3 Interstate Freeway at the Hale Kou Interchange.

The Hale Kou Sewer Pump Station, located at the entrance to an existing residential subdivision, collects and pumps waste to the Kaneohe Wastewater Treatment Plant. The main also crosses the northern corner (along the 15th tee and green) of the Pali Golf Course and through a privately owned lot in the Conservation District on which a single-family residence has been constructed and the grounds landscaped.

The main also passes through an unnamed gulch and under Kamo'oali'i Stream. Judging from conditions in the gulch, this natural setting and stream bed have been modified to accommodate flood improvements. A wetland may be present along the stream.

B. Environmental Conditions

General **climate** conditions in the vicinity of the project site can be characterized as warm and moderately wet. Northeasterly tradewinds prevail approximately 80 percent of the year and are particularly prevalent from April through November. Southerly (or "Kona") winds occur near half the time during the months of December through March. Average annual wind speeds are approximately 15 miles per hour, with wind speeds during the summer months being generally greater. Average annual temperature is about 75^{0}F with little seasonal variation. Average annual rainfall is about 60-75 inches with winter months being generally the wettest.

Ground elevation ranges from generally flat land to a steeply sloping gulch face. Kamehameha Highway is relatively flat with north and southbound lanes and adjacent landform sloping in the direction of the Hale Kou Interchange which is lower in grade. The 15th tee and green at the Pali Golf Course (a par 3 hole) are higher than Kamehameha Highway but about the same elevation as the elevated travel lanes of the Hale Kou Interchange.

The ground is relatively flat through private property off Kionaole Road and on to the bottom of the unnamed gulch (elevation 200 feet). From the gulch bottom, the east bank strikes steeply up to Kahiko Street (elevation 260 feet). The east and west gulch faces

Image 1. Section of Kamehameha Highway near Force Main Crossing.

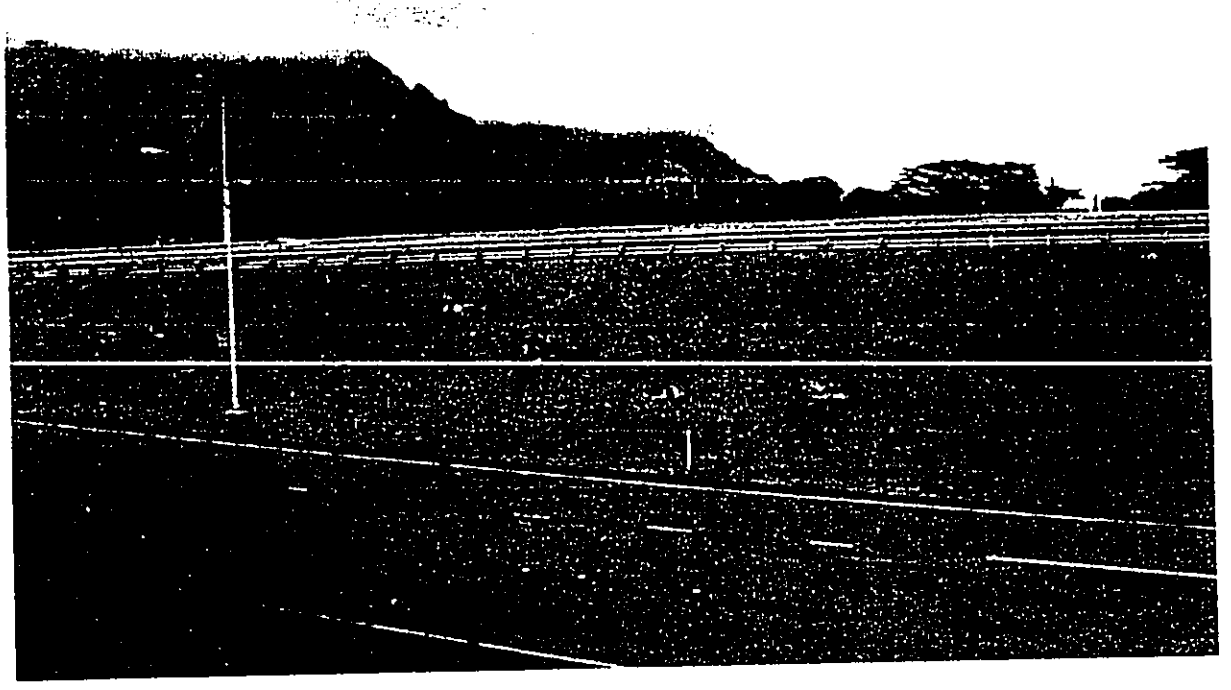


Image 2. H-3 Embankment near Force Main Crossing.

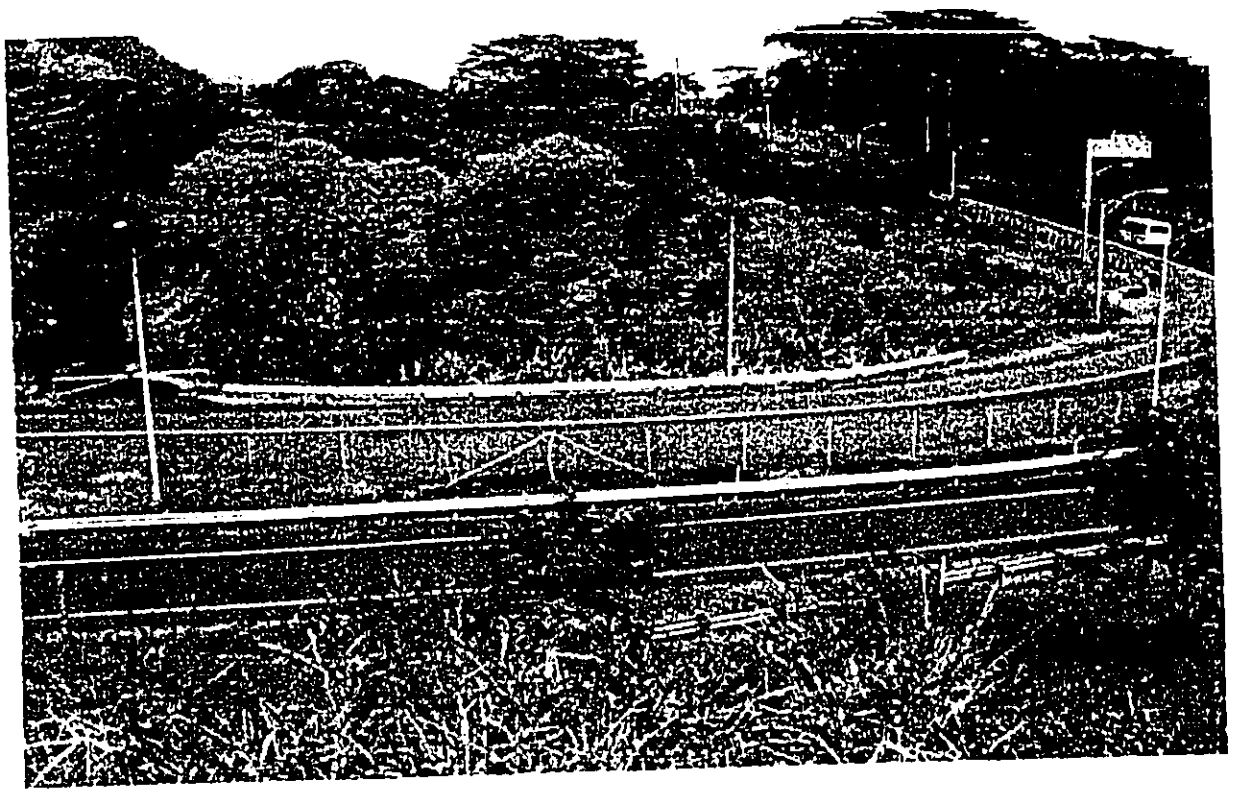


Image 3. Kionaole Street and Private Property from H-3 Westbound Lane.

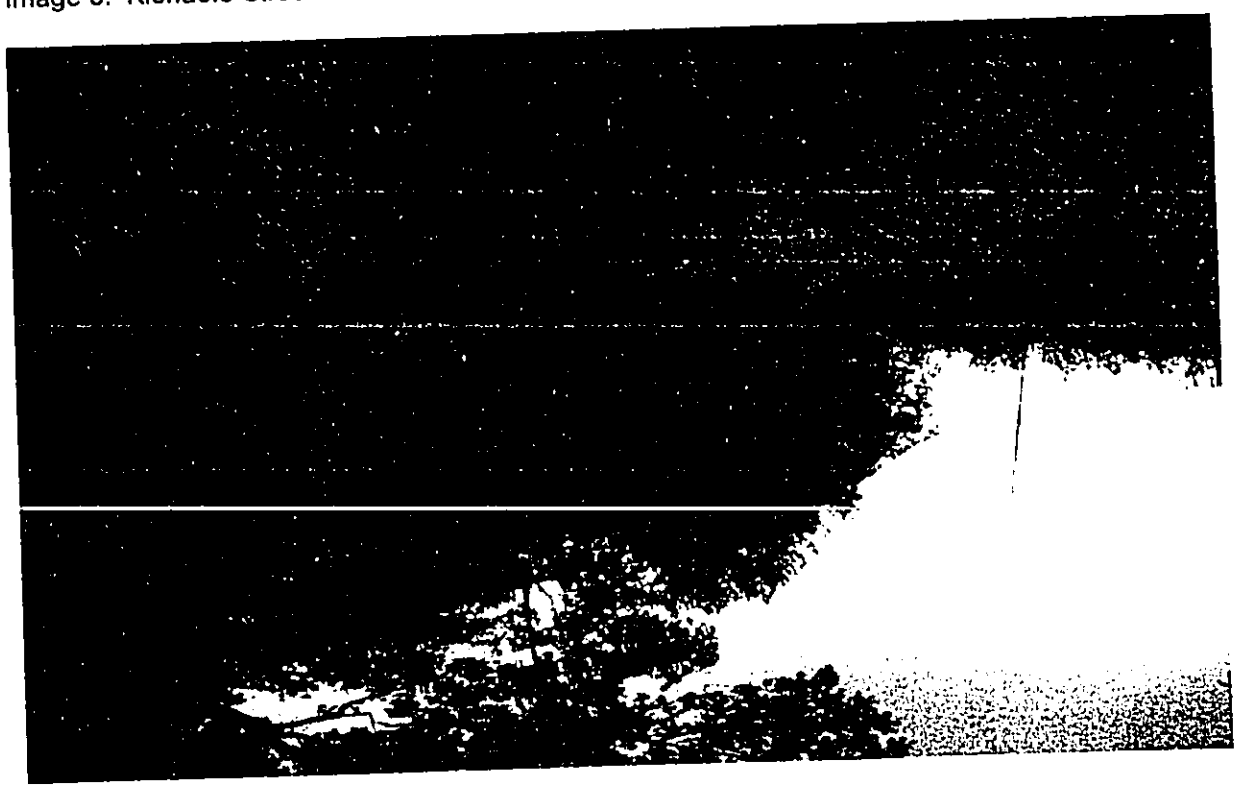


Image 4. Section of Kamo'oali'i Stream at time of field investigation (2/06).

Image 5. View into Gulch from Kahiko Street. Scellato Residence on the Right.

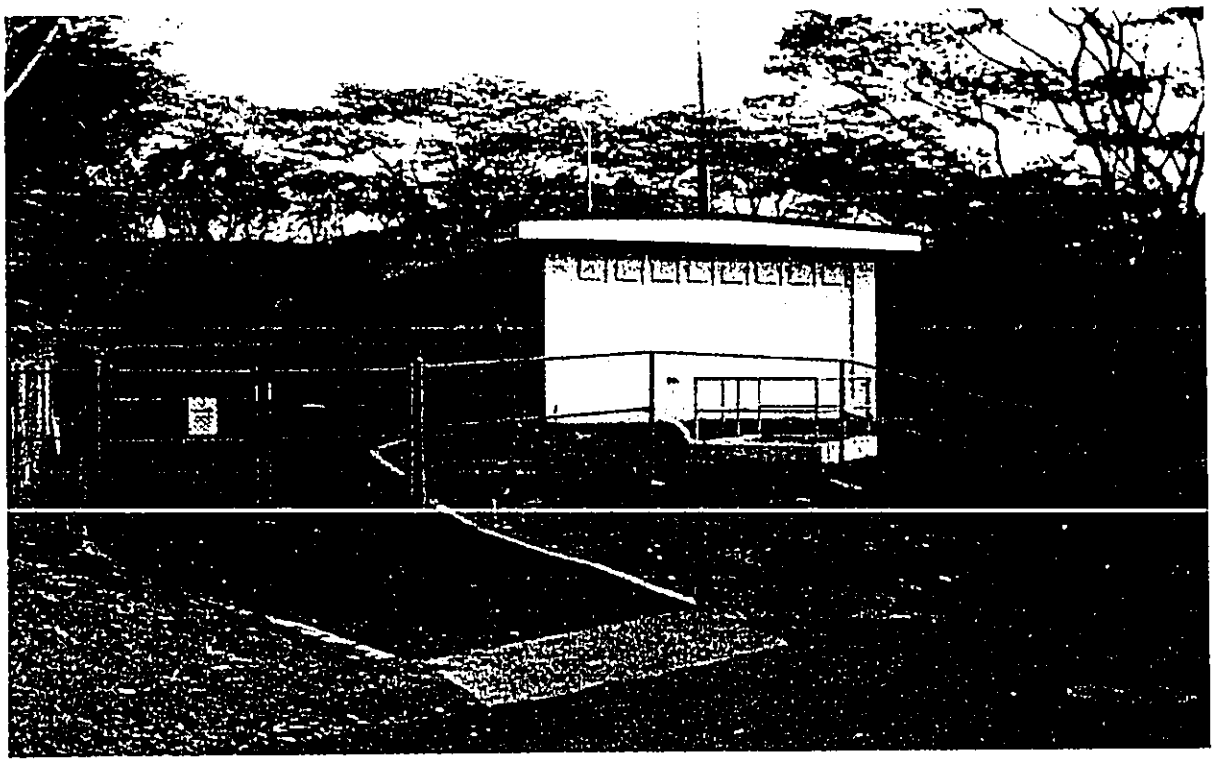


Image 6. Hale Kou Sewer Pump Station on Kahiko Street.

are essentially the upper gulch margin of an unnamed (possibly Hi`ilaniwai) stream tributary to Kamo`oali`i Stream inside nearby Ho`omaluhia Botanical Garden. A topographic map of this section of the force main alignment is attached.

The Soil Conservation Soil Map (1972) for the area identifies two **soils** of the Kaneohe series---Kaneohe silty clay (5 to 15% slopes) and Kaneohe silty clay clay (30 to 65% slopes) and one of the Hanalei series---Hanalei silty clay (0 to 2% slopes)---occurring along the force main alignment. Based on the respective soil descriptions, Hanalei soils found at the bottom of the gulch, Kaneohe silty clay (30 to 65%) comprises the steep gulch north facing slopes, and Kaneohe silty clay (5 to 15%) the flat area where the pump station is located.

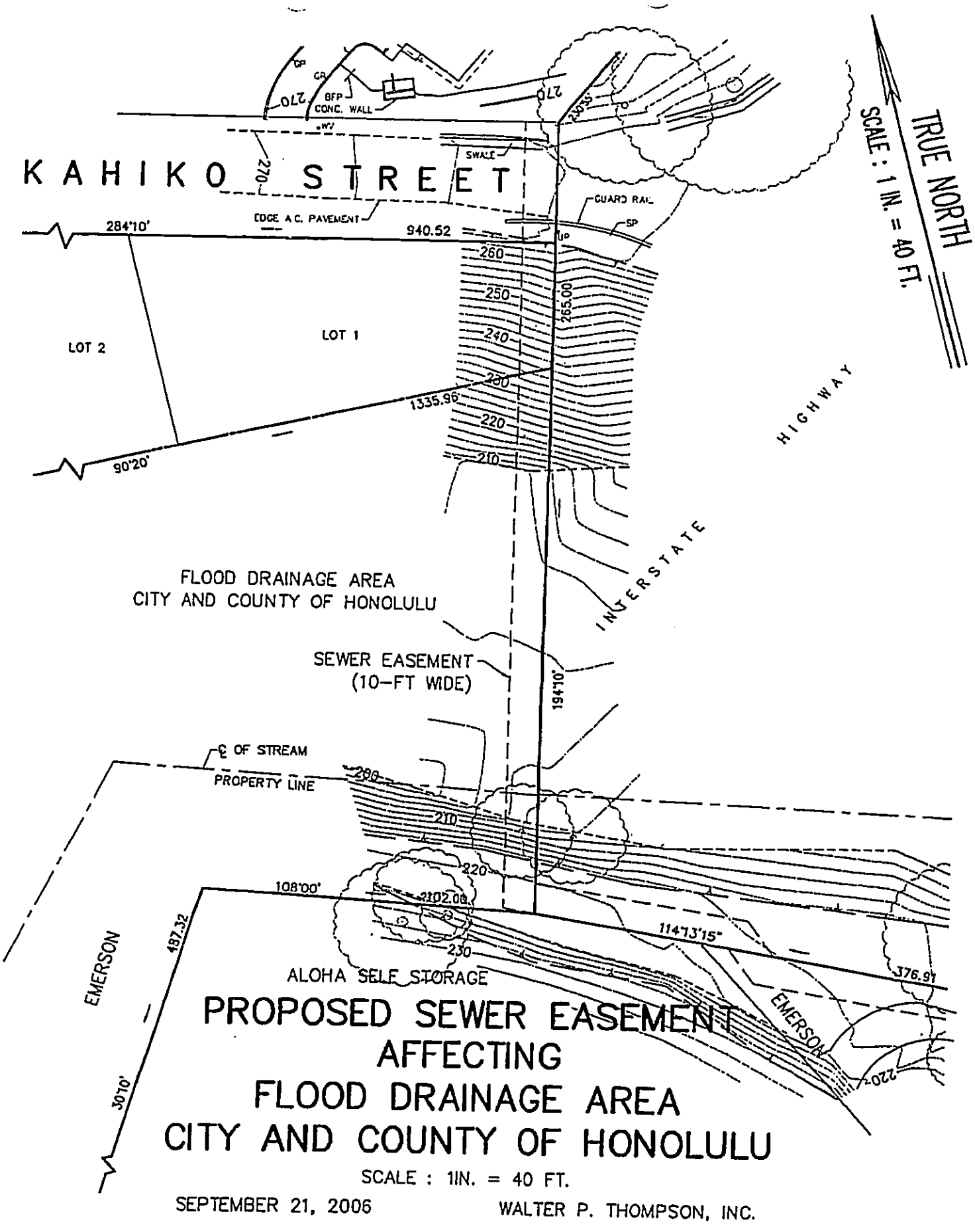
The **Flood Insurance Rate Map** (Figure 4) designates land along the alignment "Flood Zone ***"D" which is defined as "areas in which flood hazards are undetermined but possible" (DLNR Engineering Comment)*** ["X (Unshaded)" which is defined as "areas determined to be outside 500 year flood plain"](Federal Emergency Management Agency, 2000).

Three **flowage easements** are designated for and along the west facing slope through the gulch. The easements are identified as Flowage Easements F-5 (1.718 acres), F-6 (2.662 acres), and F-7 (384 square feet). The easements were created to allow runoff from uphill adjoining properties to flow into the gulch. The easements are over tax map key 4-5-42: 016.

Kamo'oali'i Stream, a perennial stream, passes under the Hale Kou Interchange within a large culvert structure and is confined to a concrete lined, open box culvert for another section downstream of the interchange, than is unlined further downstream at the lower end of this project area. At the proposed pipeline crossing the stream flows within a narrow boulder filled channel about 20 feet in width. Slopes on both sides are moderately steep and densely vegetated. A man-made dam constructed of stacked stone and earth bridges the stream. The dam measures about 3' high, 8' wide, and 10 to 12' long. Water passes beneath the dam through two L-shaped 36" wide by 18' long corrugated pipes set in the stream bed. The vertical leg of the "L" (or inlet) is on the east side of the dam and the horizontal leg (outlet end) on the west side.

Three types of botanical environments comprise the project area: 1) the gently rolling upland landscape varying from the maintained golf course, to plantings in private residential lots to the somewhat natural vegetated gulch slopes: 2) roadside areas that are regularly maintained by moving or herbicides; and 3) the stream. In the landscaped areas, such as the golf course and yards of private residences, only the more conspicuous plants (some ornamentals) were identified. Roadside areas are characterized by ruderal plants: species able to quickly grow back after a disturbance such as moving or herbicide application. Plants associated with the stream are those growing within the open culvert and on the banks close to the water.

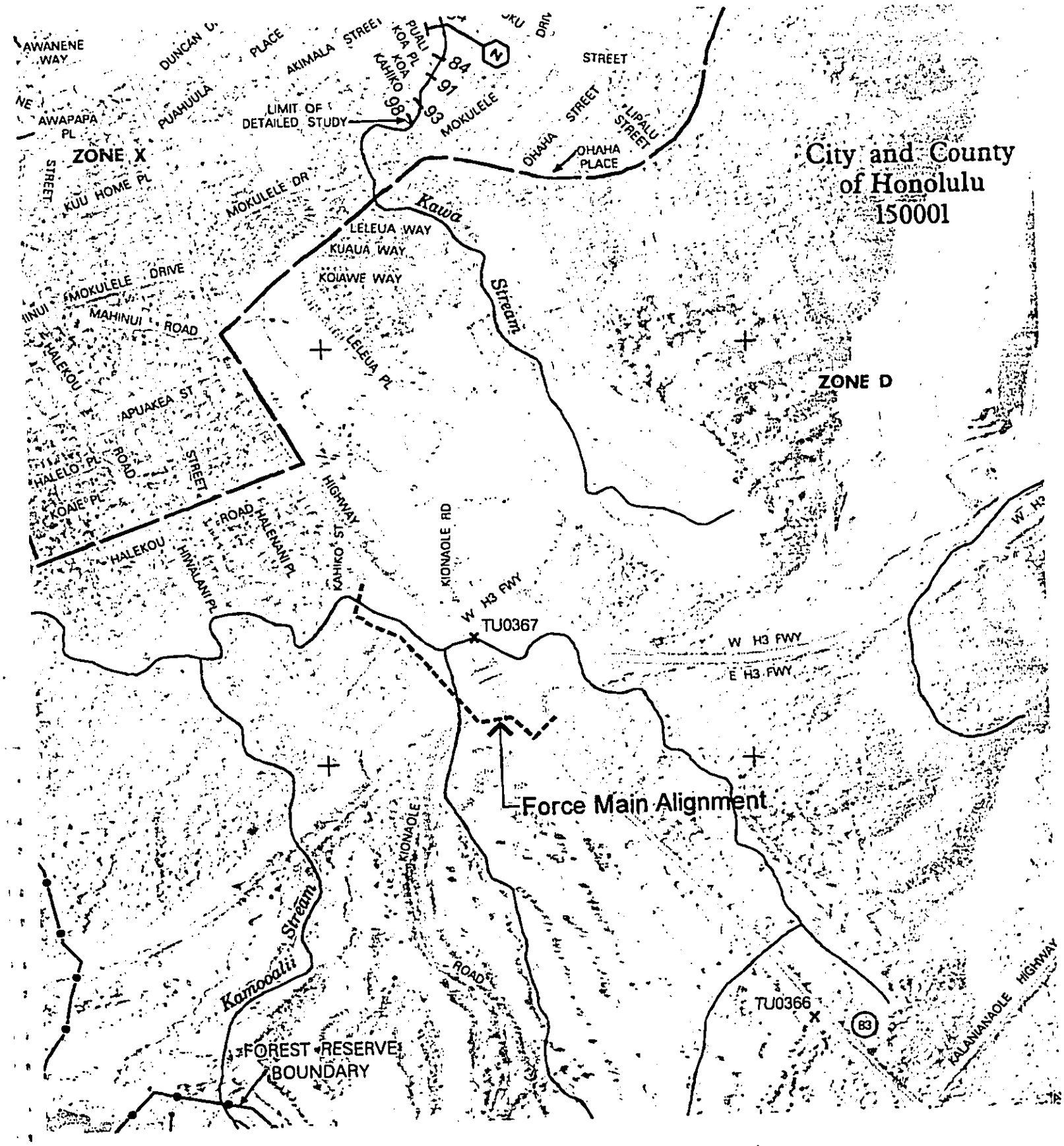
A total of 98 **plant species** were revealed by the survey as extant in the project area (See Appendix A). Of those plants recorded in the project area, all but 2 are considered to be naturalized species or cultivated, ornamental species. Seven of the latter are actual early Polynesian introductions to the Islands. Both of the two indigenous species recorded (*primrose willow* and *koali'awa*) are common on the windward side of Oahu. No rare or special trees occur on the subject property. No species listed as protected, threatened, or endangered were observed in the project area.



PROPOSED SEWER EASEMENT AFFECTING FLOOD DRAINAGE AREA CITY AND COUNTY OF HONOLULU

SCALE : 1IN. = 40 FT.

SEPTEMBER 21, 2006 WALTER P. THOMPSON, INC.



Legend

Zone D Areas in which Flood Hazards are Undetermined

Source: Federal Emergency Management Agency
Flood Insurance Rate Map
Map Number 15003C0270G
Date: June 2, 2005.

Figure 4
FIRM Map

HPU Halekou Force Main

Kaneohe, Ko'olaupoko District, O'ahu

NORTH

LINEAL SCALE (FEET) 500 250 0 250 500 1000

Gerald Park
Urban Planner
August 2006

No **wildlife** was observed at the time of our field investigation. A single dog and a cat were seen at a residence on Kionaole Street.

Barred dove, sparrow, and mynah were the only **bird** species observed during a site investigation. The ubiquitous mongoose may be present.

At the time of the survey, the **stream water** was muddy and no stream fauna was observed. A croaking bull frog was heard at the bottom of the gulch but was not seen. Because of the muddy water, water quality samples were not collected.

The State Historic Preservation Division reported that the project should have "no effect" on **historical resources** because of previous ground disturbance (See Appendix B).

C. Land Use Controls

State and County **land use controls** along the alignment are:
State Land Use Designation: Conservation, Urban
Conservation District Subzone: General
Koolaupoko *Sustainable* Communities Plan: Open Space/ Preservation ***Area, Major Parks, Golf Couses, Cemeteries, and Nature Preserves,*** Low Density Residential
Zoning: P-1 Restricted Preservation, R-5 Residential
Special Management Area: Outside Special Management Area

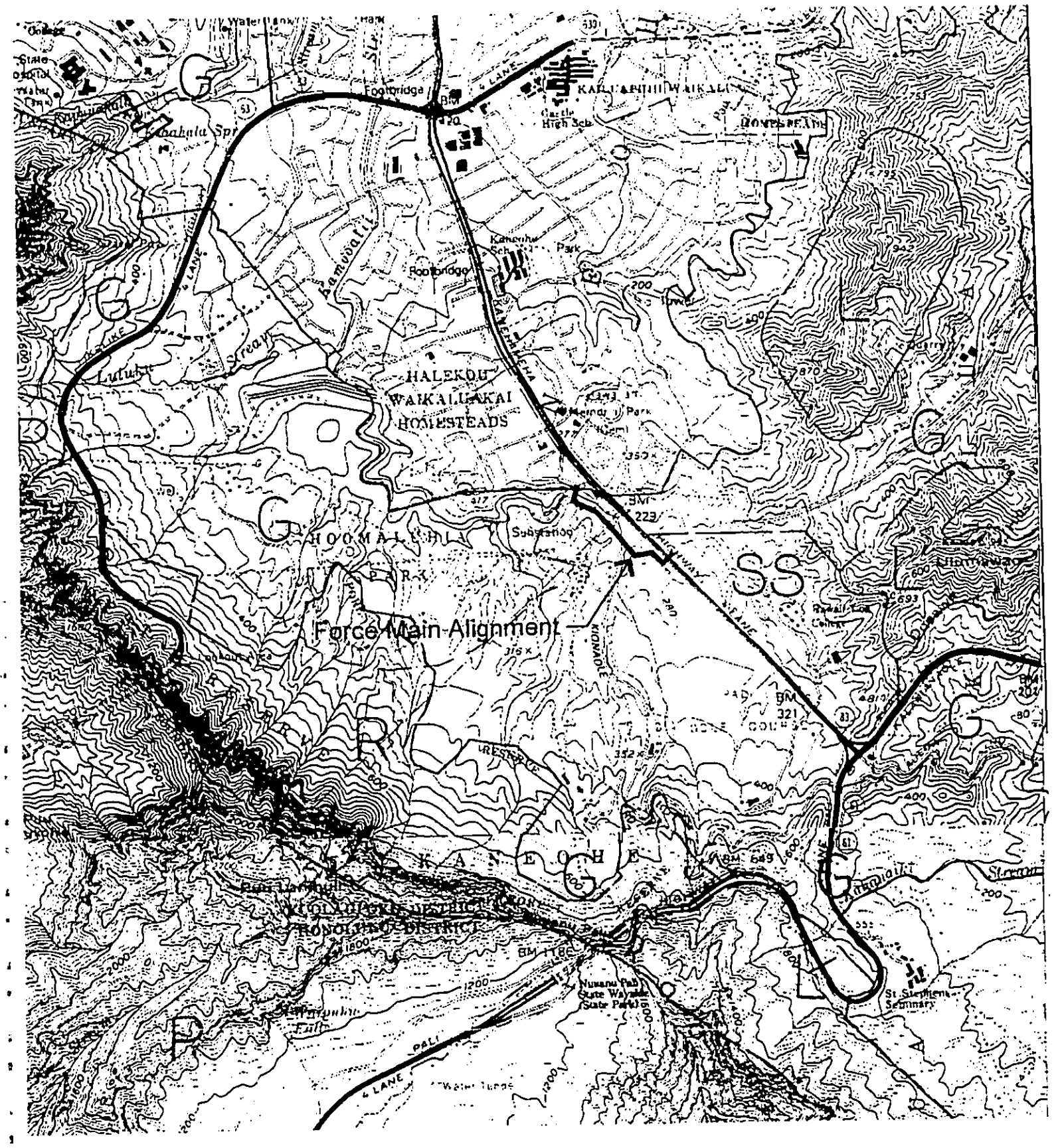
Most of the force main crosses through land in the General subzone of the State **Conservation** district (See Figure 5). Uses in the conservation district are regulated by the Department of Land and Natural Resources, State of Hawaii. Applicant is required to file a Conservation District Use Application and receive Board of Land and Natural Resources approval prior to commencing the project.

Near its terminus at the Hale Kou Sewer Pump Station, land is within the State **Urban** district and zoned low-density residential (R-5). The project is located primarily within the Preservation Boundary established by the Ko'olaupoko *Sustainable* Communities Plan for the District of Ko'olaupoko. The Preservation Boundary includes areas within the State Conservation District. In addition to the Preservation Boundary, the KSCP establishes Urban Community, Rural Community, and Agriculture Boundaries. These boundaries "are intended to help guide future development, redevelopment, and resource management within: existing zoning designations; future zoning designations and other standards or guidelines that may be developed in response to the provisions of this plan; other established entitlements; or in accordance with pertinent policy and character established in this plan."

D. Public Facilities

Kamehameha Highway is the only road on the Windward side of Oahu linking the Ko'olaupoko District with the Ko'olauloa and North Shore Districts to the north. In the vicinity of the force main crossing, the undivided highway has two northbound and two southbound travel lanes. The posted speed limit is 35 mph. There are no curbs, gutters, or sidewalks along the road.

The **H-3 Freeway** and the Hale Kou Interchange border a section of the Pali Golf Course on the north. Within the project limits, the H-3 features two traffic lanes in both directions, one



Legend

- P — Protective Subzone
- L — Limited Subzone
- R — Resource Subzone
- G — General Subzone

Source: Department of Land & Natural Resources, Kaneohe (O-12) & Honolulu (O-13) Quadrangles

Figure 5
Conservation District and Subzones

HPU Halekou Force Main

Kaneohe, Ko'olaupoko District, O'ahu

westbound on ramp, and one southbound off ramp. The highway links Marine Corps Air Station Kaneohe on the east with Pearl Harbor and Hickam Air Force Base on the west a distance of approximately 16 miles.

Kionaole Road (also identified as the Hale Kou Interchange Service Road) connects Kamehameha Highway with residential and recreational properties to the north and south of the Hale Kou Interchange. Kionaole Road is a two-lane, two-way, paved all-weather surface road within a 40-foot right-of-way.

Kahiko Street accesses the Hale Kou Waikaluakai Homesteads Subdivision from Kionaole Street. The two-way, two-lane paved subdivision road is without curbs, gutters, and sidewalks.

A Board of Water Supply 12" **water line** is located in Kamehameha Highway. At Kionaole Road, an 8" line branches from the 12' line to Kahiko Street and Kionaole Road.

In general, there is no municipal **sewer** service for lots in the Conservation district. Within the project limits, a single- family residence has been built on a lot in the Conservation District (TMK: 4-5-042:016) but it is not connected to the municipal sewer. Municipal sewer service is available to residences in the Hale Kou Waikaluakai Homesteads.

The average daily flow for the Hale Kou WWPS is estimated at 135 gallons per minute, the maximum flow at 675 gallons per minute, and the peak flow at 803 gallons per minute. The City and County of Honolulu has approved a Sewer Connection Application to accommodate a daily flow of 30,000 gallons from the Hawaii Loa Campus (Department of Planning and Permitting Comment).

Power and communication systems are available along Kionaole Road. Two Hawaiian Electric Company utility easements pass over the alignment from a transformer station located to the east and above the unnamed gulch.

SUMMARY OF POTENTIAL ENVIRONMENTAL IMPACTS AND MEASURES TO MITIGATE ADVERSE EFFECTS 3

The scope of the project was discussed with the Applicant and consulting engineer. State and County agencies were contacted for information relative to their areas of expertise. Time was spent in the field noting site conditions and conditions in the vicinity of the property. The consultations and field investigations helped to identify existing conditions and features that could affect or be affected by the project. These conditions include:

- Approximately 2/3 of the force main alignment passes through improved property;
- There are no rare, threatened, or endangered flora or fauna within the project limits;
- There are no recorded archaeological or cultural resources within the project limits;
- The project is not located in a flood hazard zone; and
- Kamo'oali'I Stream flows through a gulch adjoining Kionaole Road.

A. Short-term Impacts

Site work is a necessary function to prepare the land for building improvements to follow and is probably the most disruptive construction activity on the environment. Site work is a persistent source of **fugitive dust**. Site contractors are aware that dust is a nuisance to both workers and people living near work sites and it is imperative for them to maintain stringent dust controls. Water sprinkling is probably the most effective dust control measure given the scale of the proposed improvements. The Contractor, however, may choose to implement other measures based on their experience with similar projects, physical conditions, and job sites. Air pollution control measures will comply with Chapter 60.1, Air Pollution Control regulations of the State Department of Health.

The Contractor will be responsible for general housekeeping along the alignment and for keeping adjacent streets and properties free of dirt, mud, and construction litter and debris.

Construction **noise**, like fugitive dust, cannot be avoided. Exposure to noise, however, is expected to vary in volume, frequency, and duration. Noise will vary also by construction phase, the duration of each phase, and the type of equipment used during the different phases. For this project, noise will be pronounced during the early stages when an area around the access pit is cleared and excavated. The drilling rig will be placed in the access pit and aligned in the general direction of the next access pit. Initially, the drilling rig can be noisy but noise is expected to diminish as the "corer" is directed underground to the next access pit.

Community Noise Control regulations establish a maximum permissible sound level for construction activities occurring within various zoning districts. The preservation zoning district is placed in the Class A zoning district and the maximum permissible sound level is 55 dBA between the hours of 7:00 am and 10:00 pm (Chapter 46, Community Noise Control, 1996). If construction work produces noise in excess of the permissible daytime noise level then a noise permit (or variance) will be needed. The Contractor will be responsible for obtaining the permit and complying with conditions attached to the permit.

Minimal grading and excavating are required to dig the access pits. Earthwork will be performed in accordance with the Revised Ordinances of Honolulu, 1990, as amended and

the Rules Relating to Soil Erosion Standards and Guidelines. Best Management Practices (BMPS) for erosion and drainage control during construction will be prepared for review and approval by the Department of Planning and Permitting.

Excavated material will be stockpiled adjacent to the access pit and used for backfill. Excess material will be hauled away to a disposal site or another job site for use as fill.

Should subsurface **archaeological or cultural features** be unearthed, work in the immediate area will cease and the State Historic Preservation Division notified immediately for disposition of the finds. If burials are unearthed, the State Historic Preservation Division and the Honolulu Police Department will be notified.

Adverse effects on **flora** are not anticipated. None of the plants observed are rare, threatened, or endangered or proposed for that status.

Directional drilling under Kamehameha Highway and the H-3 Freeway should not interfere with traffic movement on those respective roads. A **traffic management plan** will be prepared and submitted to the Department of Transportation, State of Hawaii and City and County of Honolulu for review and approval. Mitigating measures may include but are not limited to:

- Posting construction notices alerting motorists of scheduled work under the right-of-way;
- Posting warning signs on both sides of the work area to alert motorists of construction and to slow traffic speed;
- Posting flagmen for traffic control (if needed); and
- Limiting road work to between 8:30 AM and 3:00 PM, Monday through Friday.

Construction vehicles hauling men and material will contribute to **traffic** in the area along the alignment. Material deliveries will be scheduled during non-peak traffic hours to minimize impacts on local traffic. Construction material will be off-loaded and stockpiled at a to be determined location.

If materials need to be unloaded along the road right-of-way, flagmen will be posted for traffic control. When this occurs, minor traffic delays can be expected but should not last for more than a few minutes.

The contractor will coordinate activities on the Pali Golf Course with the golf course superintendent. Measures will be taken to minimize alteration to the course grounds and to minimize interference with play on the 15th hole.

B. Long-term Impacts

Wastewater flow will continue at the existing flow rate of about 20,000 gallons per day. This rate will increase in proportion to student growth and expansion at the Hawaii Loa Campus. Increases in flow can be accommodated by the force main and the existing Hale Kou Sewage Pump Station. When operational, the force main will convey approximately 20,000 gallons per day of treated wastewater effluent to the municipal sewer system effectively ceasing the discharge of effluent onto conservation district land. Connecting to a public wastewater disposal system will eliminate the discharge of treated wastewater in a

conservation zone. This action will benefit the public health, safety, and welfare and help protect conservation district resources.

When operational, the force main will not be visible to the public eye. Wastewater flow should neither emit air pollutants nor affect acoustical conditions within the project limits. Adverse Impacts to flora and fauna, groundwater, traffic, utility systems, adjoining properties, and existing uses within the project limits are not anticipated.

The pipeline will be installed under Kamo'oali'i Stream thus no impacts on stream flow and the stream bed are anticipated.

There are no reported archaeological features within the project limits that would be affected by the project.

The high-density polyethylene pipe will be placed inside an outer jacket in critical sections to prevent breakage should ground settlement occur. All joints will be heat fused to ensure against leakage. The polyethylene pipe reflects state of the art technology and has a life expectancy of 50-75 years.

ALTERNATIVES TO THE PROPOSED ACTION 4

A. No Action

The no action alternative would maintain the status quo of the properties and preclude the occurrence of all environmental impacts, short and long-term, beneficial and adverse described in this Assessment. A No Action alternative would curtail Hawaii Pacific University future plans to expand its Hawaii Loa Campus.

PERMITS AND APPROVALS 5

Permits and approvals required for the project are listed below. Other permits and approvals may be required depending on final construction plans.

AUTHORITY	PERMIT/APPROVAL
State of Hawaii	
Department of Land and Natural Resources	Conservation District Use Application
Department of Health	Variance from Pollution Controls NPDES Permit
Department of Transportation	Work in State Highway Right-of-Way
City and County of Honolulu	
Department of Planning and Permitting	Grubbing, Grading and Stockpiling Permit to Excavate Public Right-of-Way

AGENCIES AND ORGANIZATIONS TO BE CONSULTED IN THE ASSESSMENT PROCESS 6

The Draft Environmental Assessment for the Hawaii Pacific University Hale Kou Force Main was published in the Office of Environmental Quality Control's Environmental Notice of December 8, 2006 and December 23, 2006. Publication initiated a 30-day public review period ending on January 8, 2007. The Office of Conservation and Coastal Lands, Department of Land and Natural Resources circulated copies of the Draft Environmental Assessment. An asterisk * identifies agencies and organizations that submitted letters or written comments during the review period. All comment letters and responses are found in Appendix C.

State of Hawaii
- Department of Health
  - ****Environmental Planning Office***
  - Wastewater Branch
  - *Office of Environmental Quality Control
- Department of Land and Natural Resources
  - Division of Aquatic Resources
  - ****Engineering Division***
  - Division of Forestry and Wildlife
  - ****Land Division, Oahu***
  - ****Water Resource Management***
- Department of Transportation
  - Highways Division
- *Office of Hawaiian Affairs

City and County of Honolulu
- ****Board of Water Supply***
- Department of Enterprise Services
  - Pali Golf Course
- Department of Environmental Services
- *Department of Planning and Permitting
- Department of Transportation Services

Others
- ****Hawaiian Electric Company***
- Kaneohe Neighborhood Board No. 30
- *Kailua Neighborhood Board No. 31
- Kaneohe Public Library (Placement)
- Kailua Public Library (Placement)

Chapter 200 (Environmental Impact Statement Rules) of Title 11, Administrative Rules of the State Department of Health, establishes criteria for determining whether an action may have significant effects on the environment (§11-200-12). The relationship of the proposed project to these criteria is discussed below.

1) **Involves an irrevocable commitment to loss or destruction of any natural or cultural resource;**

   The State Historic Preservation Division has issued a "no effect" determination for the project.

2) **Curtails the range of beneficial uses of the environment;**

   The force main will be buried at considerable depths below the ground surface. Vegetation on the surface will not be disturbed except in the vicinity of the planned access pits.

3) **Conflicts with the state's long-term environmental policies or goals and guidelines as expressed in chapter 344, Hawaii Revised Statutes, and any revisions thereof and amendments thereto, court decisions or executive orders;**

   The project does not conflict with long-term environmental policies, goals, and guidelines of the State of Hawaii.

4) **Substantially affects the economic or social welfare of the community or State;**

   The project will not substantially affect the economic or social welfare of the community or State.

5) **Substantially affects public health;**

   Public health will not be adversely affected during and after completion of construction.

6) **Involves substantial secondary impacts, such as population changes or effects on public facilities;**

   Substantial secondary impacts are not anticipated.

7) **Involves a substantial degradation of environmental quality;**

   A substantial degradation of environmental quality is not anticipated.

8) **Is individually limited but cumulatively has considerable effect upon the environment or involves a commitment for larger actions;**

   The project does not involve a commitment for a larger action.

9) **Substantially affects a rare, threatened or endangered species, or its habitat;**

No rare, threatened or endangered flora or fauna were observed within and alongside the force main alignment.

10) **Detrimentally affects air or water quality or ambient noise levels;**

Noise will be audible during construction but given the limited scope of improvements, construction noise would be similar to what is typically heard during home improvement activities. All construction activities will comply with air quality and noise pollution regulations of the State Department of Health.

11) **Affects or is 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 waters;**

The proposed improvements are not located in an environmentally sensitive area. In general, the project limits have been disturbed by man in the past though construction and habitation activities. The dense vegetative cover alongside Kionaole Road does harbor unique flora and fauna despite its natural appearance.

12) **Substantially affects scenic vistas and view planes identified in county or state plans or studies; or,**

The underground force main will not be visible and therefore should not affect scenic vistas and view planes from public viewing places.

13) **Requires substantial energy consumption.**

Substantial energy consumption is not anticipated.

REFERENCES

AECOS Consultants. March 2006. Botanical survey for a sewer line at the H-3/Kamehameha Highway interchange and Kionaole Road, in Kane'ohe, windward O'ahu.

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Park, Gerald. 2006. *Field Observation.*

U.S. Department of Agriculture, Soil Conservation Service. August 1972. *Soil Survey of Islands of Kauai, Oahu, Maui, Molokai, and Lanai, State of Hawaii.* In Cooperation with The University of Hawaii Agricultural Experiment Station. U.S. Government Printing Office, Washington D.C.

APPENDIX A

BOTANICAL REPORT

Botanical survey for a sewer line at the H-3/Kamehameha Highway interchange and Kionaole Road, in Kane'ohe, windward O'ahu[1]

March 3, 2006 **DRAFT** *AECOS Consultants* No. AC055

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This brief report presents results of a botanical field survey undertaken on January 23, 2006 in the vicinity of Kamehameha Highway, Interstate H-3, and Kionaole Road in Kane'ohe. The survey relates to a proposed new sewer line from the vicinity of Hawaii Pacific University windward campus to a C&C sewer pump station on Kionaole Road. The area is mostly State property now part of the interchange between Kamehameha Highway and H-3, but includes a portion of the City & County of Honolulu Pali Golf Course and private parcels off Kionaole Road. Kamo'oali'i Stream passes under the highway cloverleaf within a large culvert structure and is confined to a concrete-lined, open box culvert for another section downstream of the interchange, then is unlined further downstream at lower end of our project area.

Results of the field survey of extant plants with relative abundance determinations are given in Table 1. This table gives the taxa, common names, and status with respect to introduced (alien) versus native for each species. Species listed as naturalized (Nat.) or ornamental (Orn.) are species not native to the Hawaiian Islands, having been introduced after 1778. Naturalized means that the species is propagating on its own in the wild; ornamental means the species is likely present due to planting and cultivation by man at this location. Native species are categorized as being either introduced to Hawai'i by the early Polynesian migrations to these shores (Polynesian introduction or **Pol.**) or arriving by means not associated with humankind. Native species that evolved in Hawai'i and consequently occur naturally no where else are endemic species (**End.**); species whose distribution includes the Hawaiian Islands as well as other places in the world (usually other places in the Pacific basin) are indigenous species (**Ind.**). Listed species are native species that are protected by state or federal law.

Table 1. Checklist of plants found on the ----
(TMK: 4-5-042:008), Kane`ohe, windward O`ahu.

[1] This report was prepared for use by Gerald Park Urban Planner in an Environmental Assessment for the proposed sewer main improvements. The EA will become part of the public record.

Species	Common name	Status	ABUNDANCE		
			MNA.	RUD	STR.
	FERNS				
BLECHNACEAE					
Blechnum appendiculatum Willd.	blechnum fern	Nat.	--	--	U
POLYPODIACEAE					
Phymatosorus grossus (Langsd.& Fisch.) Brownlie	*laua`e*	Nat.	O	--	--
PTERIDACEAE					
Adiantum sp.	maidenhair fern	---	--	--	U
THELYPTERIDACEAE					
Christella parasitica (L.) H. Lev.	wood fern	Nat.	O	--	O
	GYMNOSPERMS				
ARAUCARIACEAE					
Araucaria cf. *columnaris* (G. Forst.) J.D. Hook.	Cook-pine	Nat.	U	--	--
	FLOWERING PLANTS DICOTYLEDONES				
ACANTHACEAE					
Asystasia gangetica (L.) T. Anderson	Chinese violet	Nat.	U	U	--
Odontonema cuspidatum (Nees) Lorence et al.		Nat.	R	--	--
AMARANTHACEAE					
Amaranthus viridis L.	slender amaranth	Nat.	--	U	--
ANACARDIACEAE					
Schinus terebinthifolius Raddi	Christmas berry	Nat.	U	U	--
APIACEAE					
Centella asiatica (L.) Urb	Asiatic pennywort	Nat.	--	U	--
ARALIACEAE					
Scheflera actinophylla (Endl.) Harms	octopus tree	Nat.	O	--	--
ASTERACEAE (COMPOSITAE)					
Ageratum conyzoides L.	*maile hohono*	Nat.	--	U	--
Bidens alba (L.) DC	Spanish needle	Nat.	O	C	--
Calyptocarpus vialis Less.	---	Nat.	--	U	--
Emilia sonchifolia (L.) DC	Flora's paintbrush	Nat.	--	O	--
Pluchea carolinensis Jacq.) G Don	sourbush	Nat.	U	--	--
Sigesbeckia orientalis L.	sm. yel. crownbeard	Nat.	--	R	--
Sonchus oleraceus L.	*pualele*, sow thistle	Nat.	--	U	--
Sphagneticola trilobata (L.) Pruski	wedelia	Nat.	A	O	--
Synedrella nodiflora (L.) Gaertn.	nodeweed	Nat.	--	U	--
Vernonia cinerea (L.) Less.	little ironweed	Nat.	U	--	--

Table 1 (continued).

Species	Common name	Status	ABUNDANCE

Species	Common name	Status	ABUNDANCE MNA.	RUD	STR.
ASTERACEAE (continued)					
Taraxicum officinale W.W. Weber ex Wigg	common dandelion	Nat.	--	R	--
Youngia japonica (L.) DC	oriental hawksbeard	Nat.	--	R	--
BALSAMINACEAE					
Impatiens walleriana J.D. Hook.	busy Lizzy	Nat.	--	--	O
BIGNONIACEAE					
Spathodea campanualta P. Beauv.	African tulip tree	Nat.	O	--	--
CLUSIACEAE					
Calophyllum inophyllum L.	*kamani*	**Pol.**	R	--	--
Clusia rosea Jacq.	autograph tree	Nat.	R	--	--
COMBRETACEAE					
Terminalia catappa L.	false *kamani*	Nat.	R	--	--
CONVOLVULACEAE					
Ipomoea alba L.	moon flower	Nat.	U	--	--
Ipomoea indica (J. Burm.) Merr.	*koali'awa*	**Ind.**	R	--	--
Ipomoea obscura (L.) Kerr-Gawl		Nat.	--	O	--
Merremia tuberosa (L.) Rendle	wood rose	Nat.	U	--	--
EUPHORBIACEAE					
Aleurites moluccana (L.) Willd.	*kukui*	**Pol.**	R	--	--
Bischofia javanica Blume	koka, toog	Nat.	O	--	--
Chamaesyce hirta (L.) Millsp.	garden spurge	Nat.	--	O	--
Chamaesyce hypericifolia (L.) Millsp.	graceful spurge	Nat.	--	U	--
Chamaesyce prostrata (Aiton) Small	prostrate spurge	Nat.	--	U	--
Macaranga tanarius (L.) Müll. Arg.	--- (juv.)	Nat.	R	--	--
Phyllanthus tenellus Roxb.	niuri	Nat.	--	U	--
Ricinus communis L.	castor bean	Nat.	--	R	--
FABACEAE					
Canavalia sp.		Nat.	U	--	--
Chamaecrista nictitans (L.) Moench	partridge pea	Nat.	--	U	--
Crotalaria incana L.	fuzzy rattlepod	Nat.	--	U	--
Desmodium triflorum (L.) DC	---	Nat.	--	U	--
Erythrina variagata L.	Indian coral tree	Orn.	U	--	--
Falcateria moluccana (Miq.) Barneby & Grimes	Moluccan albizia	Nat.	R	--	--
Indigofera suffruticosa Mill.	indigo	Nat.	--	R	--
Leucaena leucocephala (Lam.) deWit	*koa-haole*	Nat.	O	--	--
Mimosa pudica L.	sensitive plant	Nat.	--	U	--
Neonotonia wightii (Wight & Arnott) Lackey	---	Nat.	C	--	--
Samanea saman (Jacq.) Merr.	monkeypod	Nat.	R	--	--

Table 1 (continued).

Species	Common name	Status	ABUNDANCE		
			MNA.	RUD	STR.
LAMIACEAE					
Hyptis pectinata (L.) Poit.	comb hyptis	Nat.	--	U	--
LAURACEAE					
Persea americana Mill.	alligator pear	Nat.	U	--	--
MALVACEAE					
Hibiscus tiliaceus L.	*hau*	**Pol.**	U	--	--
MELASTOMATIDAE					
Clidemia hirta (L.) D..	Koster's curse	Nat.	U	--	--
MORACEAE					
Artocarpus altilis (Z) Fosberg	breadfruit tree	**Pol.**	R	--	--
Ficus microcarpa L. fil.	Chinese banyan	Nat.	R	R	--
MYRTACEAE					
Syzigium cumini (L.) Skeels	Java plum	Nat.	O	--	--
Syzigium malaccense (L.) Merr. & Perry	mountain apple	Nat.	R	--	--
Psidium guajava L.	common guava	Nat.	R	--	--
ONAGRACEAE					
Ludwigia octovalvus (Jacq.) Raven.	primrose willow	**Ind.**	--	--	O
OXALIDACEAE					
Oxalis corniculata L.	*'ihi'ai*	**Pol.**	--	U	--
PLANTAGINACEAE					
Plantago major L.	Broad-leaved plantain	Nat.	--	U	--
PORTULACACEAE					
Portulaca oleracea L.	pigweed	Nat.	U	--	--
RUBIACEAE					
Hedyotis corymbosa (L.) Lam.		Nat.	--	U	--
Paederia scandens (Lour.) Merr.	*maile pilau*	Nat.	AA	C	--
ULMACEAE					
Tremma orientalis (L.) Blume	Gunpowder tree	Nat.	U	--	--
VERBENACEAE					
Citharexylum caudatum L.	fiddlewood	Nat.	C	--	--
Stachytarpheta jamaicensis (L.) Vahl.	Jamaican vervain	Nat.	U	--	--
Verbena littoralis Kunth	*owi*	Nat.	R	--	--
MONOCOTYLEDONES					
ARACEAE					
Alocasia macrorrhizos (L.) Schott	*'ape*	Nat.	--	--	R
Monstera delicosa Liebmann	monstera	Orn.	U	--	--
Syngonium podophyllum Schott	"nephthytis"	Nat.	C	--	--
Xanthosoma roseum Schott	*'ape*	Nat.	--	--	O

Table 1 (continued).

			MNA.	RUD	STR.
ARECACEAE					
Cocos nucifera L.	coconut	**Pol.**	U	--	--
Indet.	juv. palms	Nat.	U	--	--
COMMELINACEAE					
Commelina diffusa L.	*honohono*	Nat.	U	--	O
COSTACEAE					
Costus cf. *speciosus* (J. König) J.E. Smith	spiral flag	Orn,	R	--	--
CYPERACEAE					
Cyperus involucratus Roxb.	umbrella sedge	Nat.	--	--	C
Cyperus rotundus L.	nut grass	Nat.	O	--	--
MUSACEAE					
Musa × *paradisica* L.	banana	**Pol.**	U	--	--
POACEAE (GRAMINEAE)					
Axonopus compressus (Sw.) P. Beauv.	carpetgrass	Nat.	C	--	--
Bambusa vulgaris J.C. Wendland	common bamboo	Orn.	U	--	--
Chloris barbata (L.) Sw.	swollen fingergrass	Nat.	--	C	--
Coix lacryma-job L.	Job's tears	Nat.	--	--	U
Cynodon dactylon (L.) Pers.	Bermuda grass	nat.	O	--	--
Eleusine indica (L.) Gartn.	beach wiregrass	Nat.	U	C	--
Panicum maximum Jacq.	Guinea grass	Nat.	A	A	--
Paspalum conjugatum Bergius	Hilo grass	Nat.	C	--	--
Paspalum fimbriatum Kunth	Panama paspalum	Nat.	--	U	--
Pennisetum purpureum Schumach.	elephant grass	Nat.	C	O	--
Phyllostachys cf. *nigra* (Lindley) Munro	black bamboo	Orn.	U	--	--
Sporobolis sp.	dropseed	Nat.	--	U	--
Themeda villosa (Poir.) A. Camus	Lyon's grass	Nat.	--	R	--
Urochloa mutica (Forssk.) T.Q. Nguyen	California grass	Nat.	O	--	--
Indet. bamboo	---	Orn.	C	--	--
ZINGERBIACEAE					
Heliconia behai Balisier	jacquinii heliconia	Orn.	R	--	--
Heliconia caribaea Lam.	gold heliconia	Orn.	U	--	--
Heliconia collinsiana Griggs	red hanging heliconia	Orn.	R	--	--

Table 1 Legend:

Status = distributional status
- end. = endemic; native to Hawaii and found naturally nowhere else.
- Ind. = indigenous; native to Hawaii, but not unique to the Hawaiian Islands.
- nat. = naturalized, exotic, plant introduced to the Hawaiian Islands since the arrival of Cook Expedition in 1778, and well-established outside of cultivation.
- orn. = exotic, ornamental; plant not naturalized at this location (not well-established outside of cultivation).
- pol. = Polynesian introduction before 1778.

Table 1. (continued)

Abundance = occurrence ratings for plants

R – Rare - only one or two plants seen.
U - Uncommon - several to five plants observed.
O - Occasional - found between five and ten times; not abundant anywhere.
C - Common - considered an important part of the vegetation and observed numerous times.
A - Abundant - found in large numbers; may be locally dominant.
AA - Abundant - abundant and dominant; defining vegetation type.

In the table, relative abundance is given for each of three types of environments found within the project area: 1) the gently rolling upland landscape varying from the maintained golf course, to plantings in private residential lots to the somewhat natural vegetated gulch slopes; 2) roadside areas that are regularly maintained by mowing or herbicides; and 3) the stream. In the landscaped areas, such as the golf course and yards of private residences, only the more conspicuous plants (some ornamentals) were identified. The roadside area is characterized by ruderal plants: species able to quickly grow back after a disturbance such as mowing or herbicide application. Plants associated with the stream are those growing within the open culvert and on the banks close to the water.

A total of 98 plant species were revealed by the survey as extant in the project area. This number is somewhat artificial, as more species exist (lawn grasses at the golf course and ornamentals around dwellings) within the area and others no doubt could be found short distances beyond the limits set for the survey. While this is a relatively large number of species, a 9-acre lot adjacent to this project area was found to harbor at least 72 plant species (Guinther, 2003). Of the plants recorded in our project area, all but 2 (2 %) are considered to be naturalized species or cultivated, ornamental species. Seven of the latter are actually early Polynesian introductions to the Islands. Both of the two indigenous species recorded are common on the windward side of O'ahu.

No rare or special trees occur on the subject property. No species listed as protected, threatened or endangered (DLNR, 1998; Federal Register, 1999, 2002) were observed in the project area. It is the case that there is a wetland along Kamo'oali'i Stream.

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Guinther, Eric B. 2003. Botanical survey of a private parcel (TMK: 4-5-042:008) off Kionaole Road, in Kane`ohe, windward O`ahu. Prep. For Gerald Park Urban Planner. AECOS Consultants No. AC037: 5 p.

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Federal Register 1999. Department of the Interior, Fish and Wildlife Service, Endangered and Threatened Wildlife and Plants. 50CFR 17:11 and 17:12 – December 3, 1999

_____. 2002. Department of the Interior, Fish and Wildlife Service, 50 CFR 17. Endangered and Threatened Wildlife and Plants. Review of Species That Are Candidate or Proposed for Listing as Endangered or Threatened; Annual Notice of Findings on Recycled Petition; Annual Description of Progress on Listing Actions. *Federal Register*, 67 No. 114 (Thursday, June 13, 2002): 40657-40679.

APPENDIX B

STATE HISTORIC PRESERVATION DIVISION CORRESPONDENCE

LINDA LINGLE
GOVERNOR OF HAWAII

PETER T. YOUNG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

DAN DAVIDSON
DEPUTY DIRECTOR - LAND

YVONNE Y. IZU
DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
BUREAU OF CONVEYANCES
COMMISSION ON WATER RESOURCE MANAGEMENT
CONSERVATION AND COASTAL LANDS
CONSERVATION AND RESOURCES ENFORCEMENT
ENGINEERING
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
KAHOOLAWE ISLAND RESERVE COMMISSION
LAND
STATE PARKS

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

HISTORIC PRESERVATION DIVISION
KAKUHIHEWA BUILDING, ROOM 555
601 KAMOKILA BOULEVARD
KAPOLEI, HAWAII 96707

June 23, 2004

Gerald Park
Urban Planner
1221 Kapi`olani Boulevard
Honolulu, Hawai`i 96814

LOG NO: 2004.1925
DOC NO: 0406EJ30

received
6.29.04

Dear Mr. Park:

SUBJECT: **Chapter 6E-42 Historic Preservation Review- Hawaii Pacific University (Windward Campus) Force Main**
Kailua, Ko`olaupoko, O`ahu
TMK: (1) 4-5-042

Thank you for the opportunity to comment on the proposed installation of a new wastewater line from the northern end of the HPU campus to the Halekou Wastewater Pump Station. The wastewater line will cross Kamehameha Highway, the H-3 Interstate and several private properties in the area. We received your request for comments on June 18, 2004.

The project proposes to use micro-tunneling methods to install the pipeline and will also require four open trench access pits spaced along the alignment. Between the Hale Kou Interchange and the wastewater pump station, the pipeline would be installed at the bottom of a gulch and run parallel to an existing concrete box culvert. A review of our records shows that there are no known historic sites at this location. No sites were identified during archaeological monitoring conducted during the construction of the Halekou Interchange. Extensive past disturbances during the development of the H-3 and Kamehameha Highway makes it unlikely significant historic sites would remain. Thus, we believe that "no historic properties will be affected" by this action.

In the unlikely event that historic sites, including human burials, are uncovered during routine construction activities, all work in the vicinity must stop and the State Historic Preservation division must be contacted at 692-8015.

Should you have any questions, please call Sara Collins at 692-8026 or Elaine Jourdane at 692-8027.

Aloha,

P. Holly McEldowney

P. Holly McEldowney, Administrator
State Historic Preservation Division

EJ: sky

APPENDIX C

COMMENT LETTERS AND RESPONSES

LINDA LINGLE
GOVERNOR OF HAWAII

PETER T. YOUNG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

ROBERT K. MASUDA
DEPUTY DIRECTOR - LAND

DEAN NAKANO
ACTING DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
BUREAU OF CONVEYANCES
COMMISSION ON WATER RESOURCE MANAGEMENT
CONSERVATION AND COASTAL LANDS
CONSERVATION AND RESOURCES ENFORCEMENT
ENGINEERING
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
KAHOOLAWE ISLAND RESERVE COMMISSION
LAND
STATE PARKS

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
OFFICE OF CONSERVATION AND COASTAL LANDS
POST OFFICE BOX 621
HONOLULU, HAWAII 96809

REF:OCCL:TM

CDUA: OA-3391
Acceptance Date: November 21, 2006
180-Day Expiration Date: May 20, 2007
SUSPENSE DATE: 21 Days from stamped date NOV 27 2006

MEMORANDUM:

TO: The Department of Land and Natural Resources Divisions of:

- ✓ Oahu District Land Office
- ___ Conservation & Resource Enforcement
- ___ Engineering
- ___ Historic Preservation
- ___ Water Resource Management

2006 NOV 27 P 3:26 RECEIVED OFFICE OF CONSERVATION AND COASTAL LANDS

FROM: Samuel J. Lemmo, Administrator
Office of Conservation and Coastal Lands

SUBJECT: REQUEST FOR COMMENTS
Conservation District Use Application (CDUA) OA-3391 and Draft Environmental Assessment (EA) for the Hawaii Pacific University Hale Kou Force Main

APPLICANT: Hawaii Pacific University

TMKs: (1) 4-5-035:001; TMK: (1) 4-5-042: 002, 011, 015, 016; TMK: (1) 4-5-054: 001& 078

LOCATION: Kaneohe, Island of Oahu

PUBLIC HEARING: YES NO X

Please contact Tiger Mills at 587-0382, should you have any questions on this matter.

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

(X) Comments Attached

( ) No Comments

Signature 11/29/06

LINDA LINGLE
GOVERNOR OF HAWAII

PETER T. YOUNG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

ROBERT K. MASUDA
DEPUTY DIRECTOR

DEAN NAKANO
ACTING DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
BUREAU OF CONVEYANCES
COMMISSION ON WATER RESOURCE MANAGEMENT
CONSERVATION AND COASTAL LANDS
CONSERVATION AND RESOURCES ENFORCEMENT
ENGINEERING
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
KAHOOLAWE ISLAND RESERVE COMMISSION
LAND
STATE PARKS

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
LAND DIVISION
POST OFFICE BOX 621
HONOLULU, HAWAII 96809

November 30, 2006

RECEIVED
OFFICE OF CONSERVATION AND COASTAL LANDS
2006 DEC -4 A 11:13
DEPT OF LAND & NATURAL RESOURCES STATE OF HAWAII

TO: Sam Lemmo, Administrator
OCCL

FROM: Cecil Santos
Oahu District Land Agent

Comments: CDUA-OA-3391

The parcel identified as Tax Map Key 4-5-042:002 (2.148 acres) is State land under the Department of Land and Natural Resources (DLNR) and has been set aside to the State Department of Transportation by Governor's Executive Order 2631. We have no objections to the Department of Transportation issuing an easement with the prior approval of the Board of Land and Natural Resources.

LINDA LINGLE
GOVERNOR OF HAWAII

PETER T. YOUNG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

ROBERT K. MASUDA
FIRST DEPUTY

BRIAN NAKADO
ACTING DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
BUREAU OF CONVEYANCES
COMMISSION ON WATER RESOURCE MANAGEMENT
CONSERVATION AND COASTAL LANDS
CONSERVATION AND RESOURCES ENFORCEMENT
ENGINEERING
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
KAHOOLAWE ISLAND RESERVE COMMISSION
LAND
STATE PARKS

RECEIVED
2006 NOV 28 A10:42
DEPT. OF LAND & NATURAL RESOURCES

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
OFFICE OF CONSERVATION AND COASTAL LANDS
POST OFFICE BOX 621
HONOLULU, HAWAII 96809

REF:OCCL:TM

CDUA: OA-3391
Acceptance Date: November 21, 2006
180-Day Expiration Date: May 20, 2007
SUSPENSE DATE: 21 Days from stamped date NOV 27 2006

MEMORANDUM:

TO: The Department of Land and Natural Resources Divisions of:

___ Oahu District Land Office
___ Conservation & Resource Enforcement
___ Engineering
__/__ Historic Preservation
___ Water Resource Management

2006 DEC 12 P 4:09
DEPT. OF LAND & NATURAL RESOURCES STATE OF HAWAII

FROM: Samuel J. Lemmo, Administrator
Office of Conservation and Coastal Lands

SUBJECT: REQUEST FOR COMMENTS
Conservation District Use Application (CDUA) OA-3391 and Draft Environmental Assessment (EA) for the Hawaii Pacific University Hale Kou Force Main

APPLICANT: Hawaii Pacific University

TMKs: (1) 4-5-035:001; TMK: (1) 4-5-042: 002, 011, 015, 016; TMK: (1) 4-5-054: 001& 078

LOCATION: Kaneohe, Island of Oahu

PUBLIC HEARING: YES NO X

Please contact Tiger Mills at 587-0382, should you have any questions on this matter.

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

( ) Comments Attached

(X) No Comments

Signature

LINDA LINGLE
GOVERNOR OF HAWAII

PETER T. YOUNG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

ROBERT K. MASUDA
FIRST DEPUTY

BRIAN NAKADO
ACTING DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
BUREAU OF CONVEYANCES
COMMISSION ON WATER RESOURCE MANAGEMENT
CONSERVATION AND COASTAL LANDS
CONSERVATION AND RESOURCES ENFORCEMENT
ENGINEERING
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
KAHOOLAWE ISLAND RESERVE COMMISSION
LAND
STATE PARKS

2007 JAN -5 P 1:50
DEPT. OF LAND & NATURAL RESOURCES STATE OF HAWAII

RECEIVED
OFFICE OF CONSERVATION AND COASTAL LANDS

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
OFFICE OF CONSERVATION AND COASTAL LANDS
POST OFFICE BOX 621
HONOLULU, HAWAII 96809

REF:OCCL:TM

CDUA: OA-3391
Acceptance Date: November 21, 2006
180-Day Expiration Date: May 20, 2007
SUSPENSE DATE: 21 Days from stamped date NOV 27 2006

MEMORANDUM:

TO: The Department of Land and Natural Resources Divisions of:

___ Oahu District Land Office
___ Conservation & Resource Enforcement
__/__ Engineering
___ Historic Preservation
___ Water Resource Management

FROM: Samuel J. Lemmo, Administrator
Office of Conservation and Coastal Lands

SUBJECT: REQUEST FOR COMMENTS
Conservation District Use Application (CDUA) OA-3391 and Draft Environmental Assessment (EA) for the Hawaii Pacific University Hale Kou Force Main

APPLICANT: Hawaii Pacific University

TMKs: (1) 4-5-035:001; TMK: (1) 4-5-042: 002, 011, 015, 016; TMK: (1) 4-5-054: 001& 078

LOCATION: Kaneohe, Island of Oahu

PUBLIC HEARING: YES NO X

Please contact Tiger Mills at 587-0382, should you have any questions on this matter.

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

X Comments Attached

( ) No Comments

Signature

DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

Ref.: OCCL:TM/CDUA:OA-339
Oahu.534

COMMENTS

( ) We confirm that the project site, according to the Flood Insurance Rate Map (FIRM), is located in Zone ___.

( ) Please take note that the project site, according to the Flood Insurance Rate Map (FIRM), is located in Zone ___.

(X) Please note that the correct Flood Zone Designation for the project site according to the Flood Insurance Rate Map (FIRM) is Zone D. The National Flood Insurance Program does not have any regulations for development within Zone D.

( ) Please note that the project must comply with the rules and regulations of the National Flood Insurance Program (NFIP) presented in Title 44 of the Code of Federal Regulations (44CFR), whenever development within a Special Flood Hazard Area is undertaken. If there are any questions, please contact the State NFIP Coordinator, Ms. Carol Tyau-Beam, of the Department of Land and Natural Resources, Engineering Division at (808) 587-0267.

Please be advised that 44CFR indicates the minimum standards set forth by the NFIP. Your Community's local flood ordinance may prove to be more restrictive and thus take precedence over the minimum NFIP standards. If there are questions regarding the local flood ordinances, please contact the applicable County NFIP Coordinators below:

( ) Mr. Robert Sumimoto at (808) 523-4254 or Mr. Mario Siu Li at (808) 523-4247 of the City and County of Honolulu, Department of Planning and Permitting.
( ) Mr. Kelly Gomes at (808) 961-8327 (Hilo) or Mr. Kiran Emler at (808) 327-3530 (Kona) of the County of Hawaii, Department of Public Works.
( ) Mr. Francis Cerizo at (808) 270-7771 of the County of Maui, Department of Planning.
( ) Mr. Mario Antonio at (808) 241-6620 of the County of Kauai, Department of Public Works.

( ) The applicant should include project water demands and infrastructure required to meet water demands. Please note that the implementation of any State-sponsored projects requiring water service from the Honolulu Board of Water Supply system must first obtain water allocation credits from the Engineering Division before it can receive a building permit and/or water meter.

( ) The applicant should provide the water demands and calculations to the Engineering Division so it can be included in the State Water Projects Plan Update.

( ) Additional Comments:_____

_____

(X) Other: Please correct information on pages 10 and 16, second paragraph, of the Draft Environmental Assessment and Conservation District application for the subject project. Reference to Federal Emergency Management Agency dated June 2, 2005, instead of Federal Emergency Management Agency, 1990.

_____

Should you have any questions, please call Ms. Alyson Yim of the Planning Branch at 587-0259.

Signed: _____
ERIC T. HIRANO, CHIEF ENGINEER

Date: 1-3-07

GERALD PARK
Urban Planner

Planning
Land Use
Research
Environmental
Studies

1221 Kapiolani Blvd.
Suite 211
Honolulu, Hawaii
96814

Telephone:
(808) 596-7494
Facsimile:
(808) 596-7495
e-mail:
geraldpark@aol.com

January 24, 2007

Eric T. Hirano, Chief Engineer
Engineering Division
Department of Land and Natural Resources
State of Hawaii
PO Box 621
Honolulu, Hawaii 96809

Dear Mr. Hirano:

Reference: OCCL:TM/CDUA: OA-339
Oahu.534

Thank you for reviewing and commenting on the Draft Environmental Assessment prepared for the subject project.

The Final Environmental Assessment shall be revised to indicate that the correct FIRM designation is Zone D and not Zone X as reported (on page 10).

We appreciate the participation of the Engineering Division in the environmental assessment review process.

Sincerely,

GERALD PARK URBAN PLANNER

Gerald Park
Principal

c: K. Mills, OCCL-DLNR
R. Stepien, HPU

BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU
630 SOUTH BERETANIA STREET
HONOLULU, HI 96843

December 13, 2006

Mr. Samuel J. Lemmo, Administrator
State of Hawaii
Department of Land and Natural Resources
Office of Conservation and Coastal Lands
Post Office Box 621
Honolulu, Hawaii 96809

2006 DEC 15 A 9:06
DEPT. OF LAND & NATURAL RESOURCES
STATE OF HAWAII
OFFICE OF CONSERVATION AND COASTAL LANDS

Dear Mr. Lemmo:

Subject: Your Letter Dated November 27, 2006 Regarding Conservation District Use Application (CDUA) OA-3391 and Draft Environmental Assessment (EA) for the Hawaii Pacific University Hale Kou Force Main

Thank you for the opportunity to comment on the proposed project.

The construction drawings should be submitted for our review and approval.

If you have any questions, please contact Robert Chun at 748-5440.

Very truly yours,

KEITH S. SHIDA
Principal Executive
Customer Care Division

STATE OF HAWAII
OFFICE OF ENVIRONMENTAL QUALITY CONTROL
235 SOUTH BERETANIA STREET
SUITE 702
HONOLULU, HAWAII 96813
TELEPHONE (808) 586-4185
FACSIMILE (808) 586-4186
E-mail: oeqc@health.state.hi.us

GENEVIEVE SALMONSON
DIRECTOR

December 13, 2006

Mr. Peter Young, Chair
Department of Land and Natural Resources
P.O. Box 621
Honolulu, Hawai'i 96809

Dear Mr. Young:

Subject: Draft Environmental Assessment for the HPU Hale Kou Force Main

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

1. The applicant should address the indirect, secondary and cumulative impacts of the new transmission main. What future development is planned at the Hawaii Loa campus? What is the potential for land along the sewer main corridor to be developed?
2. The applicant should describe the potential impact to cultural resources.
3. The applicant should contact the Commission on Water Resources Management concerning the stream crossing.
4. Please print on both sides of the pages in the final document to reduce bulk and save on paper.

Should you have any questions, please call Jeyan Thirugnanam at 586-4185.

Sincerely,

Genevieve Salmonson
Director

c: HPU
Gerald Park

GERALD PARK
Urban Planner

Planning
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Research

Environmental
Studies

1221 Kapiolani Blvd.
Suite 211
Honolulu, Hawaii
96814

Telephone:
(808) 596-7484
Facsimile:
(808) 596-7485
e-mail:
geraldpark@aol.com

January 24, 2007

Genevieve Salmonson, Director
Office of Environmental Quality Control
State of Hawaii
235 South Beretania Street, Suite 702
Honolulu, Hawaii 96813-2437

Dear Ms. Salmonson:

Subject: Hawaii Pacific University Hale Kou Force Main

Thank you for reviewing the Draft Environmental Assessment prepared for the subject project. We offer the following responses in the order your comments were presented.

1. Currently there is no master plan in place for the Hawaii Pacific University Hawaii Loa Campus. HPU, however, is exploring expansion opportunities for the campus to include the construction of new residence halls, a student center, and classroom buildings. Expanding the physical plant at the Hawaii Loa Campus is attributable in part to increasing enrollment in the university. At some time in the near future, HPU will commence work on a long-range development plan for the campus.

   There is limited potential for land along the force main alignment to be developed. The force main traverses land set aside for recreation and transportation use. Land along Kamo'oali'i Stream cannot be developed because it is part of a flood control area. The force main crosses a residential lot on Kahiko Street that has been developed and a lot in the State Conservation district on which a single-family residence has been constructed.

   Because the force main is for the use of Hawaii Pacific University, it is not likely that residential connections (if any) would be allowed.

2. The State Historic Preservation Division (June 23, 2004) pointed out that their records show there are no known historic sites at this location and no sites were identified during archaeological monitoring conducted during the construction of the Halekou Interchange. In addition extensive past disturbances during the development of the H-3 and Kamehameha Highway make it unlikely significant historic sites would remain.

   In the absence of known archaeological sites or resources, cultural resources should not be impacted by the proposed project.

3. In its review of the Draft Environmental Assessment, the Commission on Water Resources Management had no comments to offer.

4. Duplex printing will be considered for printing the Final Environmental Assessment.

We thank the Office of Environmental Quality Control for participating in the environmental assessment review process.

Sincerely,

GERALD PARK URBAN PLANNER

Gerald Park

c: K. Mills, OCCL-DLNR
R. Stephen, HPU

PHONE (808) 594-1888 FAX (808) 594-1865

STATE OF HAWAI'I
OFFICE OF HAWAIIAN AFFAIRS
711 KAPIOLANI BOULEVARD, SUITE 500
HONOLULU, HAWAI'I 96813

HRD06/2823

December 14, 2006

Samuel Lemmo
Department of Land and Natural Resources
Office of Conservation and Coastal Lands
P.O. Box 621
Honolulu, HI 96809

RE: Conservation District Use Application and Draft Environmental Assessment for the Proposed Hawai'i Pacific University Hale Kou Force Main, Kāne'ohe, O'ahu, TMK (1) 4-5-035: 001; 4-5-042: 002, 011, 015, 016; 4-5-054: 001 & 078.

Dear Mr. Lemmo,

The Office of Hawaiian Affairs (OHA) is in receipt of your November 27, 2006 submission and offers the following comments:

Our staff has no comment specific to the above-listed proposed project at this time. Thank you for your continued correspondence.

OHA requests that, in accordance with Section 6E-46.6, Hawaii Revised Statutes and Chapter 13-300, Hawaii Administrative Rules, if the project moves forward, and if any significant cultural deposits or human skeletal remains are encountered, work shall stop in the immediate vicinity and the State Historic Preservation Division (SHPD/DLNR) shall be contacted.

Thank you for the opportunity to comment. If you have further questions or concerns, please contact Jesse Yorck, Native Rights Policy Advocate, at (808) 594-0239 or jessey@oha.org.

Aloha,

Clyde W. Nāmu'o
Administrator

DEPARTMENT OF PLANNING AND PERMITTING
CITY AND COUNTY OF HONOLULU
650 SOUTH KING STREET, 7TH FLOOR • HONOLULU, HAWAII 96813
TELEPHONE: (808) 523-4432 • FAX: (808) 527-6743
DEPT. INTERNET: www.honolulupdp.org • INTERNET: www.honolulu.gov

MUFI HANNEMANN
MAYOR

HENRY ENG, FAICP
DIRECTOR

DAVID K. TANOUE
DEPUTY DIRECTOR

2006/ELOG-2989 (TH)

December 19, 2006

Mr. Samuel J. Lemmo, Administrator
Office of Conservation and Coastal Lands
Department of Land and Natural Resources
State of Hawaii
P.O. Box 621
Honolulu, Hawaii 96809

Dear Mr. Lemmo:

Subject: Conservation District Use Application (CDUA) OA-3391 and Draft Environmental Assessment (DEA) for the Hawaii Pacific University Hale Kou Force Main located at Kaneohe, Oahu, Tax Map Keys: 4-5-035:001; 4-5-042:002, 011, 015, 016; and 4-5-054:001 and 078

We have reviewed the subject CDUA and DEA and have no objections to the proposed project.

We concur that the project is located within the Urban Community Boundary of the Koolaupoko Sustainable Communities Plan (SCP) area. The proposed project appears to run through land designated as "Open Space/Preservation Areas" and "Major Parks, Golf Courses, and Cemeteries, and Nature Preserves" as shown on the Koolaupoko SCP Land Use Map. However, the project does not run through the "Preservation Boundary" as mentioned in Section 2.C "Land Use Controls" (page 13) of the DEA. The project appears to run within the "Urban Community Boundary" but outside of the Koolaupoko SCP's "Preservation Boundary." As such, we recommend that the FEA describe the project as being located in the "Urban Community Boundary" of the Koolaupoko SCP and running through land designated as "Open Space/ Preservation Areas" and "Major Parks, Golf Courses, and Cemeteries, and Nature Preserves."

We concur that all the parcels of land that the proposed project runs through, except one (1) parcel, is currently zoned P-1 Restricted Preservation District. Only TMK: 4-5-054:078, the site of the existing Halekou Wastewater Pump Station (WWPS) is currently zoned R-5 Residential District. The City's Land Use Ordinance (LUO) does

not regulate land uses in the P-1 District. The existing Halekou WWPS is defined as a "type A utility installation" and is permitted in the R-5 District in accordance with the LUO.

Page 15 of the DEA mentions the presence of water lines in the project area that are owned by the City's Board of Water Supply (BWS). However, the BWS is not listed in Section 7 (page 21). If the BWS has already been consulted, we recommend that the DEA be revised to mention that the applicant has consulted the BWS and include any comments or documentation relevant from the BWS regarding the proposed project.

The DEA should explain the need for the project. The DEA should also explain what is the capacity of the City's Halekou WWPS and what is the current and future wastewater flows for the project.

The applicant is required to prepare a Traffic Control Plan (TCP) for the portion of the proposed project that involves City roadways. The TCP, along with construction plans need to be submitted to the Department of Planning and Permitting for review and approval.

Thank you for the opportunity to comment on this matter. Should you have any questions, please contact Tim Hata of our staff at 527-6070.

Very truly yours,

Henry Eng, FAICP, Director
Department of Planning and Permitting

HE:js

p:/Misc/elog2989

DEPARTMENT OF PLANNING AND PERMITTING
CITY AND COUNTY OF HONOLULU
650 SOUTH KING STREET, 7TH FLOOR • HONOLULU, HAWAII 96813
TELEPHONE: (808) 523-4432 • FAX: (808) 527-6743
DEPT. INTERNET: www.honolulu.org • INTERNET: www.co.honolulu.hi.us

MUFI HANNEMANN
MAYOR

HENRY ENG, FAICP
DIRECTOR

DAVID K. TANOUE
DEPUTY DIRECTOR

RECEIVED
OFFICE OF CONSERVATION
AND COASTAL LANDS
07 JAN 10 A 10:48
DEPT. OF LAND & NATURAL RESOURCES
STATE OF HAWAII

January 8, 2007

2006/ELOG-2989 (TH)

Mr. Samuel J. Lemmo, Administrator
Office of Conservation and Coastal Lands
Department of Land and Natural Resources
State of Hawaii
P. O. Box 621
Honolulu, Hawaii 96809

Dear Mr. Lemmo:

Subject: Conservation District Use Application (CDUA) OA-3991 and Draft Environmental Assessment (DEA) for the Hawaii Pacific University Hale Kou Force Main Located at Kaneohe, Oahu, Tax Map Keys: 4-5-035:001; 4-5-042:002, 011, 015, 016; and 4-5-054:001 and 078

This is to correct a comment in our earlier letter on the above project. The first paragraph on page one (1) of our letter dated December 19, 2006, stated that the project appears to run within the "Urban Community Boundary, but outside the Koolaupoko's SCP's Preservation Boundary." After reexamining the Koolaupoko Sustainable Communities Plan Land Use Map, we determined that the proposed project does not run through the Koolaupoko SCP's Urban Community Boundary.

Therefore, we recommend that the FEA describe the project as located outside of the Urban Community Boundary and running through land designated as "Open Space/Preservation Areas" and "Major Parks, Golf Courses, and Cemeteries, and Nature Preserves."

We apologize for any inconvenience this may cause. Should you have any questions, please contact Tim Hata of our staff at 527-6070.

Very truly yours,

Henry Eng, FAICP, Director
Department of Planning and Permitting

HE:mo
p:/Misc/elog2989rev

GERALD PARK
Urban Planner

Planning
Land Use
Research
Environmental
Studies

1221 Kapiolani Blvd.
Suite 211
Honolulu, Hawaii
96814

Telephone:
(808) 596-7484
Facsimile:
(808) 596-7485
e-mail:
geraldpark@aol.com

January 24, 2007

Henry Eng, FAICP, Director
Department of Planning and Permitting
City and County of Honolulu
650 South King Street
Honolulu, Hawaii 96813

Dear Mr. Eng:

Subject: Hawaii Pacific University Hale Kou Force Main

Thank you for reviewing the Draft Environmental Assessment prepared for the subject project. We offer the following responses in the order your comments were presented.

1. Koolaupoko Sustainable Communities Plan

We believe that the project limits is essentially located within the Preservation Community Boundary of the subject Sustainable Communities Plan. A short section of the force main is within the Urban Community Boundary on land designated Low Density Residential where it crosses residential zoned property and enters the Hale Kou Pump Station in the Waikaluakai Homesteads Subdivision.

The text of the Final Environmental Assessment will be revised to include the correct citations for Open Space/Preservation Area, Major Parks, Golf Courses, and Cemeteries, and Nature Preserves, and Low Density Residential.

2. Board of Water Supply

The Board of Water Supply was consulted during the environmental assessment review process and offered no comments about their water lines located within the project limits.

3. Need for the Project

The existing individual wastewater treatment plant on campus is nearing its capacity and economic life. HPU administrators have decided that continued secondary treatment with effluent disposed into two on-site effluent trench systems is not a desired disposal alternative. The existing plant has a capacity of 30,000 gallons per day and a current average daily flow of 20,000 gallons per day.

The capacity of a wastewater pump station can be calculated at different flow rates such as average flow, maximum flow, and peak flow. Capacity can also be affected by dry or wet weather conditions. The average daily flow capacity for the Hale Kou WWPS is estimated at 135 gallons per minute; the maximum flow at 675 gallons per minute; and the peak flow at 803 gallons per minute.

A Sewer Connection Application (2006/SCA1040) has been approved to accommodate a daily flow of 30,000 gallons from the Hawaii Loa Campus.

4. Traffic Control Plan

A Traffic Control Plan for City roadways will be submitted to the Department of Planning and Permitting for review and approval. We would like to point out that the affected City street is Kahiko Street. All other streets within the project limits are under the jurisdiction of the State Department of Transportation.

We thank the Department of Planning and Permitting for participating in the environmental assessment review process.

Sincerely,

GERALD PARK URBAN PLANNER

Gerald Park

c: K. Mills, OCCL-DLNR
R. Stephen, HPU

[HAR, Chapter 11-55, Appendix J]

x. Discharges of storm water from a small municipal separate storm sewer system. [HAR, Chapter 11-55, Appendix K]

xi. Discharges of circulation water from decorative ponds or tanks. [HAR, Chapter 11-55, Appendix L]

3. In accordance with HAR, Section 11-55-38, the applicant for an NPDES permit is required to either submit a copy of the new NOI or NPDES permit application to the State Department of Land and Natural Resources, State Historic Preservation Division (SHPD), or demonstrate to the satisfaction of the DOH that the project, activity, or site covered by the NOI or application has been or is being reviewed by SHPD. If applicable, please submit a copy of the request for review by SHPD or SHPD's determination letter for the project.

4. Any discharges related to project construction or operation activities, with or without a Section 401 WQC or NPDES permit coverage, shall comply with the applicable State Water Quality Standards as specified in HAR, Chapter 11-54.

The Hawaii Revised Statutes, Subsection 342D-50(a), requires that "[n]o person, including any public body, shall discharge any water pollutants into state waters, or cause or allow any water pollutant to enter state waters except in compliance with this chapter, rules adopted pursuant to this Chapter, or a permit or variance issued by the director."

If you have any questions, please contact Mr. Alec Wong, Supervisor of the Engineering Section, CWB, at (808) 586-4309.

We strongly recommend that you review all of the Standard Comments on our website: www.state.hi.us/health/environmental/env-planning/landuse/landuse.html. Any comments specifically applicable to this project should be adhered to.

If there are any questions about these comments please contact Jiacai Liu with the Environmental Planning Office at (808) 586-4346.

Sincerely,

KELVIN H. SUNADA, MANAGER
Environmental Planning Office

c: EPO
WWB
EH-Maui

GERALD PARK
Urban Planner
■
Planning
Land Use
Research
Environmental
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■
1221 Kapiolani Blvd.
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■
Telephone:
(808) 596-7494
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geraldpark@aol.com

January 24, 2007

Kelvin H. Sunada, Manager
Environmental Planning Office
State of Hawaii
Department of Health
PO Box 3378
Honolulu, Hawaii 96814-3378

Dear Mr. Sunada:

Subject: Hawaii Pacific University Halo Kou Force Main
CDUA: OA-3391
Kaneohe, Hawaii

Thank you for reviewing and commenting on the Draft Environmental Assessment prepared for the subject project. We offer the following responses in the order that your comments were presented.

Clean Water Branch

1. A Department of the Army Permit should not be required for this project. The force main would be installed under Kam'ooali'i Stream by directional drilling thus no discharge into waters of the United States is anticipated.

2. It is anticipated that a NPDES general permit will be required for the discharge of hydrotesting water. Application for a general permit will be made to the Department of Health.

3. As indicated, a copy of the Notice of Intent or NPDES application will be submitted to the Department of Land and Natural Resources and the State Historic Preservation Division as required.

   The State Historic Preservation Division (June 23, 2004) pointed out that their records show there are no known historic sites at this location and no sites were identified during archaeological monitoring conducted during the construction of the Halekou Interchange. In addition extensive past disturbances during the development of the H-3 and Kamehameha Highway make it unlikely significant historic sites would remain. Thus, we believe that "no historic properties will be affected" by this action.

4. Construction activity will comply with the applicable State Water Quality Standards as specified in HAR, Chapter 11-54.

We thank the Clean Water Branch of the Department of Health for participating in the environmental assessment review process.

Sincerely,

GERALD PARK URBAN PLANNER

Gerald Park

c: K. Mills, OCCL-DLNR
R. Steplen, HPU

KAILUA NEIGHBORHOOD BOARD NO. 31

P.O BOX 487 • KAILUA, HAWAII 96734
PHONE: (808) 527-5749 • FAX: (808) 527-5760 • INTERNET: www.co.honolulu.hi.us

received
1.12.07

January 8, 2007

Gerald Park Urban Planner
1221 Kapiolani Boulevard, Suite 211
Honolulu, Hawai'i 96814

Dear Gerald Park,

RE: Hawai'i Pacific University Hale Kou Force Main

Thank you for providing the Kailua Neighborhood Board with a copy of DEA for the above project. The Board has no comments on the project but is concerned about traffic during construction and would like to receive a copy of the traffic assessment.

Please send the traffic assessment to Kathy Bryant-Hunter, Board Chair at PO Box 487 Kailua, Hawai'i 96734.

If you have any questions please contact Planning, Zoning and Environment Committee Vice Chair Jim Corcoran at 262-3093 or Corcoran@lava.net.

Sincerely,
Donna Wong
Donna Wong, Chair
Planning, Zoning and Environment Committee

Oahu's Neighborhood Board System - Established 1973

GERALD PARK
Urban Planner

Planning
Land Use
Research
Environmental
Studies

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January 24, 2007

Kathy Bryant-Hunter, Chair
Kailua Neighborhood Board No. 31
PO Box 487
Kailua, Hawaii 96734

Dear Ms. Bryant-Hunter:

Subject: Hawaii Pacific University Hale Kou Force Main

Thank you for reviewing the Draft Environmental Assessment prepared for the subject project. We offer the following response to your comment.

A traffic assessment was not prepared for the project. Directional drilling, rather than cut (excavation) and cover construction, will minimize construction impacts on the natural and man-made environment to include roads and traffic circulation within the project limits. As indicated in the Draft Environmental Assessment, a traffic management plan will be submitted to the Department of Transportation, State of Hawaii and the Department of Planning and Permitting for review. Both agencies can also recommend additional measures for mitigating impacts on traffic during construction.

We thank the Kailua Neighborhood Board for its participation in the environmental assessment review process.

Sincerely,
GERALD PARK URBAN PLANNER
Gerald Park
Principal

c: K. Mills, OCCL-DLNR
R. Stephen, HPU

Hawaiian Electric Company, Inc. • PO Box 2750 • Honolulu, HI 96840-0001

January 8, 2007

RECEIVED
OFFICE OF CONSERVATION
AND COASTAL LANDS
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DEPT. OF LAND &
NATURAL RESOURCES
STATE OF HAWAII

Office of Conservation & Coastal Lands
Department of Land & Natural Resources
P.O. Box 621
Honolulu, HI 96809

Gentlemen:

Re: **CDUA OA-3391 & Draft EA**
Hawaii Pacific Univ. Hale Kou Force Main
Kaneohe, Oahu

Thank you for the opportunity to comment on the above-referenced project. Hawaiian Electric Company, Inc. (HECO) has no objections at this time. The proposed directional drilling will not affect HECO overhead easements in the project area.

HECO will need continued access any existing facilities/easements on the subject property for maintenance purposes. In addition, we reserve the opportunity to further comment on the protection of existing power lines and electric power facilities that may be affected by the project. As the project develops and construction plans are finalized, please continue to keep us informed so that we may be better able to evaluate any effects on our system facilities.

Our point of contact for this project, and the originator of these comments, is Roy Noda, Principal Engineer, Structural Division, Engineering Department (543-7067). I suggest dealing directly with Roy to coordinate HECO's continuing input in this project.

Sincerely,

Kirk S. Tomita
Senior Environmental Scientist

cc: R. Noda
R. Liu