

OCT 24 1986

FILE NO.: HA-4/23/86-1900  
180-Day Exp. Date: 10/20/86  
DOCUMENT NO.: 1887B

Department of Accounting and  
General Services  
1151 Punchbowl Street  
Honolulu, Hawaii 96813

Gentlemen:

We are pleased to inform you that your Conservation District Use Application for lighting system improvements at Kulani Correctional Facility, South Hilo, Hawaii, TMK: 2-4-08: 9 was approved on October 10, 1986 subject to the following conditions:

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

4. The applicant shall comply with all applicable Public Health Regulations;
5. Four (4) copies each of the final location map, plans, and specifications shall be submitted to the Chairperson, or his authorized representative, for approval of which three (3) copies will be returned;
6. A fire contingency plan, acceptable to the Division of Forestry and Wildlife, Department of Land and Natural Resources, shall be implemented during and after installation of lighting system improvements;
7. That the following procedures be followed regarding the lights and their installation:
  - a. Locate lights at the top of each tower or pole;
  - b. Do not erect towers (or poles) any taller than existing utility poles;
  - c. Lights shall be shielded to prevent glare above the horizontal plane;
  - d. "Cut-off luminaire" street lights are recommended for use at Kulani; and
  - e. Low pressure sodium lights shall be used.
8. Other terms and conditions as prescribed by the Chairperson;





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

SUSUMU ONO, CHAIRMAN  
BOARD OF LAND & NATURAL RESOURCES

EDGAR A. HAMASU  
DEPUTY TO THE CHAIRMAN

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

FILE NO.: HA-4/23/86-1900  
180-Day Exp. Date: 10/20/86  
DOCUMENT NO.: 1816B

October 10, 1986

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

Gentlemen:

Reconsideration of  
Conservation District Use Application HA-4/23/86-1900  
for Lighting System Improvements at Kulani  
Correctional Facility, South Hilo, Hawaii

APPLICANT: Department of Accounting and General Services

LANDOWNERSHIP: State of Hawaii, Department of Social Services

BACKGROUND:

On September 26, 1986 Board action on the subject CDUA was deferred until October 10, 1986 in order that Staff report on the response of the Department of Accounting and General Services (DAGS) to the proposed Condition 7e requiring the use of low pressure sodium lights.

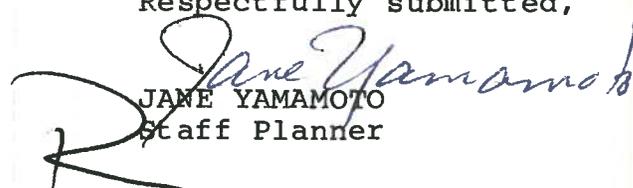
REPORT:

DAGS responded that low pressure sodium lights were acceptable. The initial cost of low pressure lights is higher, while the operating cost is lower. Currently the project is short of funds, and may have to be carried out in phases.

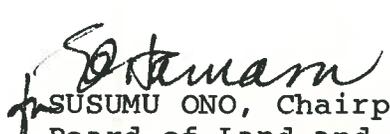
RECOMMENDATION:

Therefore Staff recommends approval with conditions as submitted September 26, 1986.

Respectfully submitted,

  
JANE YAMAMOTO  
Staff Planner

Approved For Submittal:

  
SUSUMU ONO, Chairperson  
Board of Land and Natural Resources

ITEM H-12



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

SUSUMU ONO, CHAIRMAN  
BOARD OF LAND & NATURAL RESOURCES

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STATE PARKS  
WATER AND LAND DEVELOPMENT

FILE NO.: HA-4/23/86-1900  
180-Day Exp. Date: 10/20/86  
DOCUMENT NO.: 1728B

September 26, 1986

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

Gentlemen:

Conservation District Use Application  
for Lighting System Improvements at Kulani  
Correctional Facility, South Hilo, Hawaii

APPLICANT: Department of Accounting and General Services  
LANDOWNERSHIP: State of Hawaii, Department of Social Services  
LOCATION: South Hilo, Hawaii (TMK: 2-4-08: 9)  
AREA OF PARCEL/USE: 7244.27 Acs.  
SUBZONE: General  
DESCRIPTION OF AREA/CURRENT USE:

The project area is currently used as the Kulani Correctional Facility on a parcel designated as Kulani Honor Camp on the Tax Maps. This parcel lies within the Forest Reserve in the South Hilo District. The terrain of the site of the proposed building is flat. This parcel lies at about 4,000' level. The vegetation on the proposed construction site consists mainly of kikuyu grass. Access from Hilo is by the Stainback Highway.

PROPOSED USE:

Installation of additional outdoor lighting, and replacement of existing outdoor mercury lamps with sodium lamps at the Kulani Correctional Facility grounds.

More lighting is needed for surveillance during the evening hours. Lack of an adequate compound lighting system creates a serious security problem. For fire safety reasons, the doors to all dormitories must be kept unlocked at night. Evening fogs hamper compound surveillance making it relatively easy for inmates to slip in and out of the dormitories undetected. A recent shakedown of the facility uncovered numerous guns, knives, marijuana, drugs, etc., which represent a serious hazard to the safety of inmates, facility staff, and the community.

ITEM H-3

The increased lighting will (1) aid in controlling the infiltration of contraband, which poses a serious threat to inmates, staff and community, (2) improve the safety of staff as they make rounds during night hours, and (3) improve the ability of the staff to monitor inmates.

SUMMARY OF COMMENTS:

The application was sent to the following agencies for review and comment: County of Hawaii Planning Department, Department of Public Works and Department of Water Supply; State Department of Health, Office of Environmental Quality Control, Environmental Council, Office of Hawaiian Affairs; the Department of Land and Natural Resources' Divisions of Aquatic Resources, Forestry and Wildlife, State Parks/Historic Sites, Land Management, Water and Land Development, Conservation and Resources Enforcement, and Natural Area Reserves System.

Their comments are summarized below.

County of Hawaii Planning Department

High pressure sodium luminaires impact negatively with the Mauna Kea telescope activities. The Mauna Kea Observatory should be contacted for comments.

The project location is outside of the County's Special Management Area (SMA) and thus our SMA rules are inapplicable to this situation.

Division of Forestry and Wildlife

Item 7, Page 2 of the negative Declaration does not take into consideration the effect of night lighting on overflights of ocean birds.

The threatened Newell Shearwater (a'o) and Hawaiian Dark Rumped Petrel (a'u) fly over Kulani at night. Birds that have collided with antennas and towers have been recovered on the prison grounds.

The following procedure is recommended for this proposed project.

1. Locate lights at the top of each tower or pole.
2. Do not erect towers (or poles) any taller than existing utility poles.
3. Lights shall be shielded to prevent glare above the horizontal plane.
4. General Electric sells "cut-off luminaire" street lights. These have been recommended for use on Kauai and are being installed there by Kauai Electric Co. It is recommended that these lights be used at Kulani.

Office of Environmental Quality Control

Although we have no major concerns with regard to the proposed lighting improvements, we have noticed a number of CDUAs recently for improvements to Kulani Correctional Facility. It is our opinion that these improvements should be assessed cumulatively rather than individually, and if these are found to have significant environmental impacts, an environmental impact statement should be prepared.

Historic Sites Section

The planned lighting is in the midst of the existing facility, so we believe the project will have "no effect" on significant historic sites.

Following the recommendation of the Hawaii County Planning Department regarding the adverse effects of sodium lights, staff contacted the Hawaii Institute of Astronomy.

The Institute recommends the use of low pressure sodium lights. They forwarded a copy of Light Pollution: The Adverse Impact of Urban Sky Glow on Astronomy and on the Environment, by Dr. David Cranford of the National Optical Astronomy Observatories, Kitt Peak National Observatory, Tucson, Arizona. This report endorses the summary recommendations of the Committee on Light Pollution and Radio Interference of the American Astronomical Society. Number 7 is pertinent to the Kulani project.

- "7. And especially: Use monochromatic light sources whenever possible. Presently, this means low pressure sodium (LPS) sources. Areas where LPS is especially good: street lighting, parking lots, and any security lighting. We can stand population growth with LPS."

The other agencies consulted expressed no concerns or objections to this project.

ANALYSIS:

Following review and acceptance of the application for processing, the applicant, by letter dated May 12, 1986, was notified that:

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

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

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

If the precautions recommended by the Division of Forestry and Wildlife, and that of the Institute for Astronomy are followed, the impact on the natural environment is expected to be minimal.

The completed project is expected to provide needed facilities at an established government institution. The project site is within the established correctional facility. Therefore the positive impact is expected to be greater than any negative impact.

As such, Staff recommends as follows:

RECOMMENDATION:

That the application for lighting system improvements at the Kulani Correctional Facility situated on TMK: 2-4-08: 9 at Kulani, South Hilo, Hawaii be approved subject to the following conditions:

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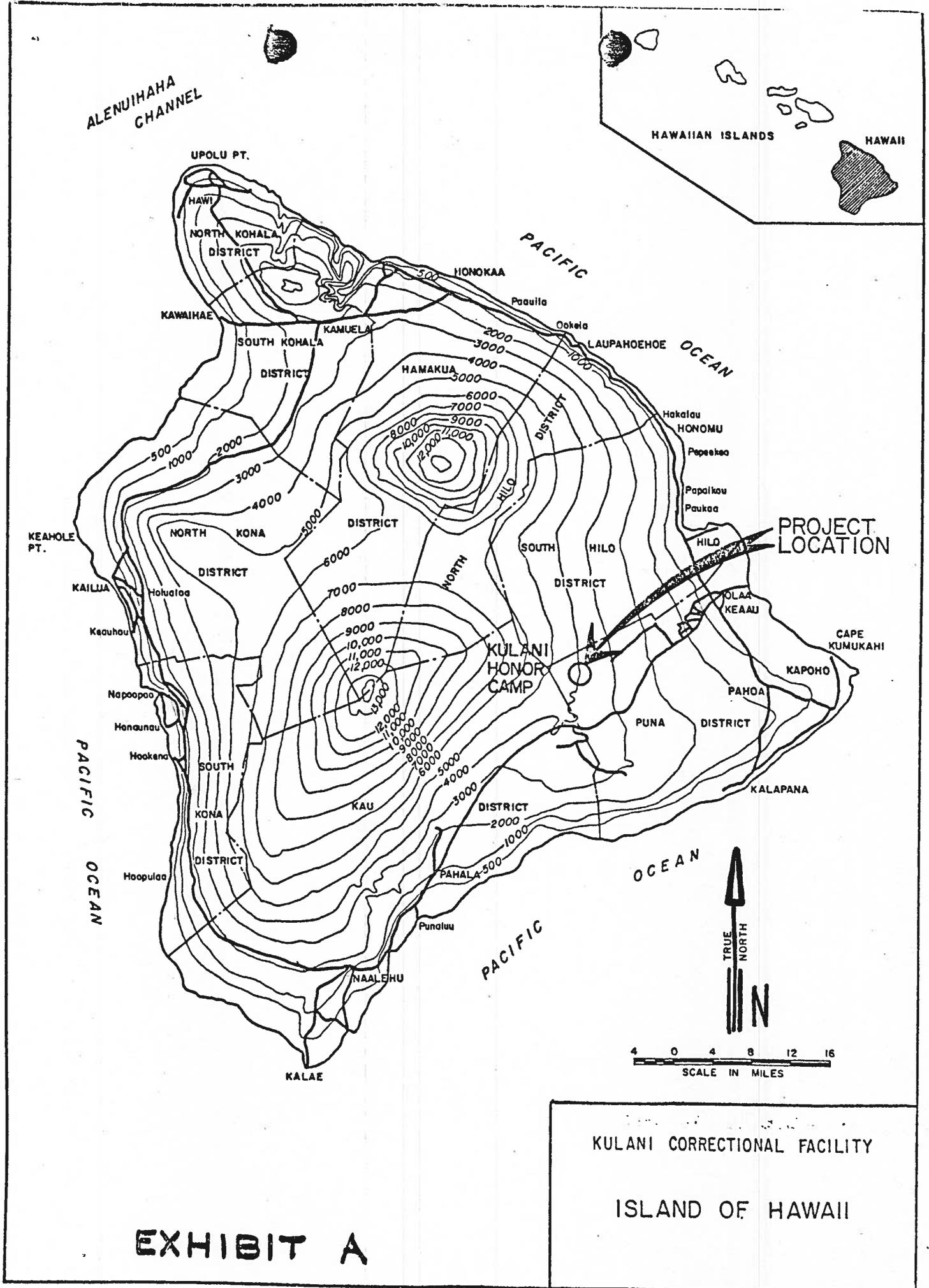
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8. Other terms and conditions as prescribed by the Chairperson.

Respectfully submitted,

  
JANE YAMAMOTO  
Staff Planner

Approved For Submittal:

  
SUSUMU ONO, Chairperson  
Board of Land and Natural Resources



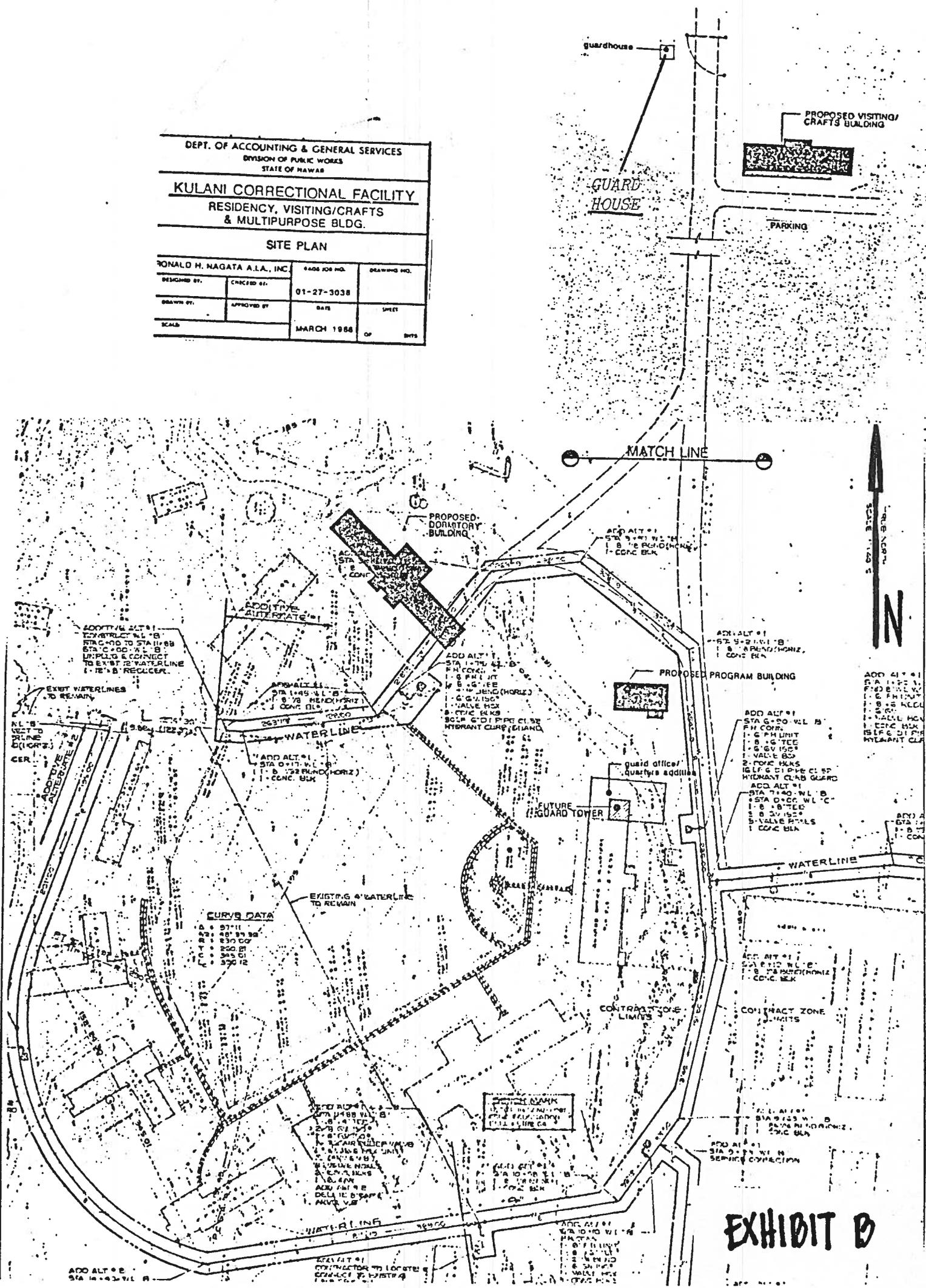
**EXHIBIT A**

KULANI CORRECTIONAL FACILITY  
ISLAND OF HAWAII

CDUA no. HA-1900  
 APPLICANT DEPT OF ACCOUNTING + GENERAL SERVICES  
 AGENT \_\_\_\_\_  
 TMK 2-4-08:9

SUBZONE		PROTECTIVE
		RESOURCE
		LIMITED
		GENERAL

DEPT. OF ACCOUNTING & GENERAL SERVICES DIVISION OF PUBLIC WORKS STATE OF HAWAII			
KULANI CORRECTIONAL FACILITY RESIDENCY, VISITING/CRAFTS & MULTIPURPOSE BLDG.			
SITE PLAN			
RONALD H. NAGATA A.I.A., INC.		PAGE JOB NO.	DRAWING NO.
DESIGNED BY	CHECKED BY	01-27-3038	
DRAWN BY	APPROVED BY	DATE	SHEET
SCALE		MARCH 1988	OF 01/01



CDUA no. HA-1900  
 APPLICANT DEPT. OF ACCOUNTING & GENERAL SERVICES  
 AGENT \_\_\_\_\_  
 TMK 2-4-08:9

SUBZONE  PROTECTIVE  
 RESOURCE  
 LIMITED  
 GENERAL

