

DEPARTMENT OF PUBLIC WORKS  
CITY AND COUNTY OF HONOLULU

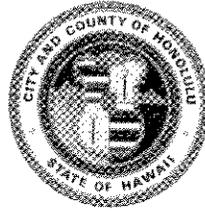
650 SOUTH KING STREET  
HONOLULU, HAWAII 96813

REC'D

FRANK F. FASI  
MAYOR

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OFFICE OF ENVIRONMENTAL  
QUALITY CONTROL



ALFRED J. THIEDE  
DIRECTOR AND CHIEF ENGINEER

11-0011

January 26, 1988

Dr. Marvin T. Miura, Interim Director  
Office of Environmental Quality Control  
State of Hawaii  
465 South King Street, Room 115  
Honolulu, Hawaii 96812

FILE COPY

Dear Dr. Miura:

Subject: Notice of Negative Declaration for the Construction  
of Maintenance Ramps in the Moanalua Stream Channel  
TMK: 1-1-12: 40 to 44

This letter is a Notice of Negative Declaration for the subject project pursuant to Chapter 343, HRS. The project will involve the use of City funds and City lands. This Notice of Determination is based on an Environmental Assessment prepared by the Division of Engineering after consultation with other governmental agencies. Four (4) copies of the Environmental Assessment are attached.

The pertinent data for this notice are as follows:

1. Proposing Agency - Department of Public Works,  
City and County of Honolulu
2. Proposed Action - The proposed project consists of the construction of fourteen (14) concrete maintenance ramps in the Moanalua Stream Channel at existing velocity drops.

The project is intended to provide access in the channel for maintenance vehicles. Presently, vehicles cannot negotiate the 2:1 slope at the velocity drops, and all maintenance equipment, materials, channel debris and cut vegetation must be hand carried.



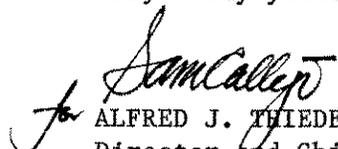
Dr. Marvin T. Miura  
Page two  
January 26, 1988

3. Determination - After assessing the potential environmental effects of the proposed project and consulting with other governmental agencies, we have determined that the proposed project will not have significant impacts on the environment and an Environmental Impact Statement is not required.
4. Reasons for Supporting Determination - It was found that there were no effects which conflicted with the policy, guidelines and provisions of Chapters 342, 343, and 344, HRS, and that a Negative Declaration was appropriate for the following reasons:
  - (a) There will not be any adverse effect on the physical and social environment.
  - (b) There will be no permanent degradation of existing air and noise levels and water quality.
  - (c) There will be no displacement of residences or businesses.
  - (d) There are no known endangered species of animals or plants within the project area.
  - (e) There are no known natural, historic or archaeological sites within the project limits.
  - (f) There will be little or no impact on the land use pattern for the area.
  - (g) The project is compatible with the Development Plan for Oahu.

5. Contact Person - Raymond Nakahara  
Division of Engineering  
Department of Public Works  
City and County of Honolulu  
650 South King Street  
Honolulu, Hawaii 96813

Telephone No. 523-4041

Very truly yours,

  
ALFRED J. THIEDE  
Director and Chief Engineer

Attach. (4)

cc: Dept. of Land Utilization

DEPARTMENT OF PUBLIC WORKS  
CITY AND COUNTY OF HONOLULU

FILE COPY

ENVIRONMENTAL ASSESSMENT  
FOR THE  
CONSTRUCTION OF MAINTENANCE RAMPS IN THE  
MOANALUA STREAM CHANNEL  
MOANALUA, HONOLULU, OAHU, HAWAII  
TAX MAP KEY 1-1-12, 40 TO 44

This document is prepared pursuant to Chapter 343, HRS.

PROPOSING AGENCY: DEPARTMENT OF PUBLIC WORKS  
CITY AND COUNTY OF HONOLULU  
650 SOUTH KING STREET  
HONOLULU, HAWAII 96813

RESPONSIBLE OFFICIAL:

*Sam Collette*  
for ALFRED J. THIEDE  
Director and Chief Engineer

*1-27-88*  
Date

PREPARED BY  
STRUCTURAL SECTION  
DIVISION OF ENGINEERING

## Table of Contents

	<u>Page</u>
I. Description of Proposed Action and Statement of Objective	1
II. Description of Affected Environment	1
III. Agencies Consulted in Making this Assessment	2
IV. General Description of the Project's Technical, Economic, Social and Environmental Characteristics	2
V. Identification and Summary of Major Impacts and Proposed Mitigation Measures	3
V. Alternatives Considered	4
Appendix A - Site Map	
Appendix B - Location Map	
Appendix C - Ramp Details	
Appendix D - Comments	

## I. Description of Proposed Action and Statement of Objective

The proposed project will modify fourteen existing velocity drops at various locations in the Moanalua Stream Channel (see Appendix A - Site Map) to provide maintenance ramps (see Appendix C - Ramp Details) for stream cleaning and channel repair equipment.

All new work will be within the confines of the existing channel. The new work will not increase the area of the existing channel.

The objective of the project is to provide vehicular access in the channel to facilitate maintenance work.

## II. Description of Affected Environment

The proposed project is located in Moanalua Valley, Honolulu, Oahu, Hawaii, mauka of Moanalua Highway. The project area is approximately five miles from the State Capitol in Honolulu (see Appendix B - Location Map). The project area is zoned Residential.

Moanalua Stream Channel, an improved concrete trapezoidal drainage structure, 7,500 feet long was constructed in 1965. The 1-1/2:1 side slopes and invert are lined with four-inch thick concrete slabs. Fourteen velocity drops, three to four feet high with 2:1 slopes are located in the channel.

The average annual rainfall in this area is 40 inches per year. The project site is located in an area of undetermined but possible flood hazards according to the Flood Insurance Rate Map Index. The average temperature varies from 72 degrees to 82 degrees.

According to a recent United States Geological Survey annual report on water resources, Moanalua Stream is an intermittent stream with no water flow for most of the year. There is no significant marine life inhabiting the stream, except for a few fishes such as guppies and swordtails.

Wildlife in the project area consists of the usual common birds found in Hawaii, and no rare or endangered species are known to frequent the lands adjacent to the proposed project.

There are no known archaeological or historical sites in the immediate project area. A search of The Hawaii Register of Historic Places, 1974 shows that there are six historical sites in the Moanalua District. However, the nearest listed site, Aliamanu Burials (Identification

No. 80-13-88), is located approximately 5,300 feet southwest of the project site.

### III. Agencies Consulted in Making this Assessment

#### A. City and County of Honolulu

1. Department of General Planning
2. Department of Land Utilization

#### B. State of Hawaii

1. Department of Land and Natural Resources
2. Department of Health
3. Department of Business and Economic Development

#### C. U. S. Government

1. Department of Interior, Fish and Wildlife Service
2. Department of the Army, Corps of Engineers

Responses to the environmental assessment are located in Appendix D.

### IV. General Description of the Project's Technical, Economic, Social and Environmental Characteristics

The construction of the maintenance ramps is proposed to be accomplished by cutting the existing concrete invert slab at the velocity drops, excavating material to provide a 15% ramp slope and constructing concrete side walls and invert slab.

The new ramps will not create any adverse hydraulic effects at the drops because a flatter invert slope and an increased channel cross section will be provided. Thus, water flow will be slower and less turbulent, and the water surface level will be lower.

The project has an estimated construction cost of \$180,000; it is anticipated that construction will begin in July 1988. It will take approximately 90 calendar days to complete the work. Operating funds from the Division of Road Maintenance, City and County of Honolulu, will be utilized for the project.

This project will not require the displacement or relocation of any persons nor will it require the acquisition of any land because the new construction will be confined to within the existing drainage channel.

The project will require a United States Department of Army permit, a State of Hawaii Board of Health Water Quality Certification and a State of Hawaii Department of Business

and Economic Development Hawaii Coastal Zone Management Program Consistency Certification.

V. Identification and Summary of Major Impacts and Proposed Mitigation Measures

The environmental impact of the proposed project will be only during the construction work and may include the following temporary, unavoidable, adverse environmental effects:

- A. Dust and Noise Emission: The discharge of dust into the atmosphere may occur during the construction period. This is, however, only a short-term effect on the environment, and dust will be reduced and controlled through the application of water and/or other appropriate methods. The specifications will contain provisions that will require the contractor to prevent dust nuisance at all times and must have sufficient equipment and manpower at the job site to accomplish this.

Noise will be generated by construction equipment such as backhoes, compressors and jackhammers during the project. The increase in noise level by construction equipment cannot be avoided, but will be controlled and limited to normal working daylight hours. The contractor will be required to obtain a Community Noise Permit pursuant to Chapter 43 of the State Public Health Regulations and comply with the provisions of Chapter 42, Vehicular Noise Control for Oahu. Individuals that may be adversely affected by the construction noises will be the employees and users of the Moanalua Golf Course and the residents of homes adjacent to the Moanalua Stream Channel. Approximate distances from the work area nearest to various locations and the estimated sound level from equipment noise at the locations from the project site are as follows:

<u>Location</u>	<u>Distance from Project</u>	<u>Sound Level dBa</u>
(1) Nearest residence	50 feet	88
(2) Nearest church	3,000 feet	53
(3) Nearest school	6,700 feet	42
(4) Nearest hospital	3,000 feet	53

- B. Water Pollution: The work is located in an active watercourse and provisions will be made to divert or transfer the water around or through the project site. This can be accomplished through the use of diversion ditches, pumps, etc. Some small incidental amounts of petrochemical products from the contractor's equipment

may be deposited into the stream waters. This adverse effect can be minimized by proper control of the contractor's operations such as proper disposal of wash and dust control water, etc. The specifications will contain provisions concerning water pollution controls. In addition, the work will be done during the summer months when stream flow is low.

- C. Flood Hazard. The project will not increase the possibility of flood damages. The cross sectional area of the existing channel will be increased to accommodate greater flow at the project locations.

#### V. Alternatives Considered

The following courses of action was considered: a) No action, 2) The proposed project.

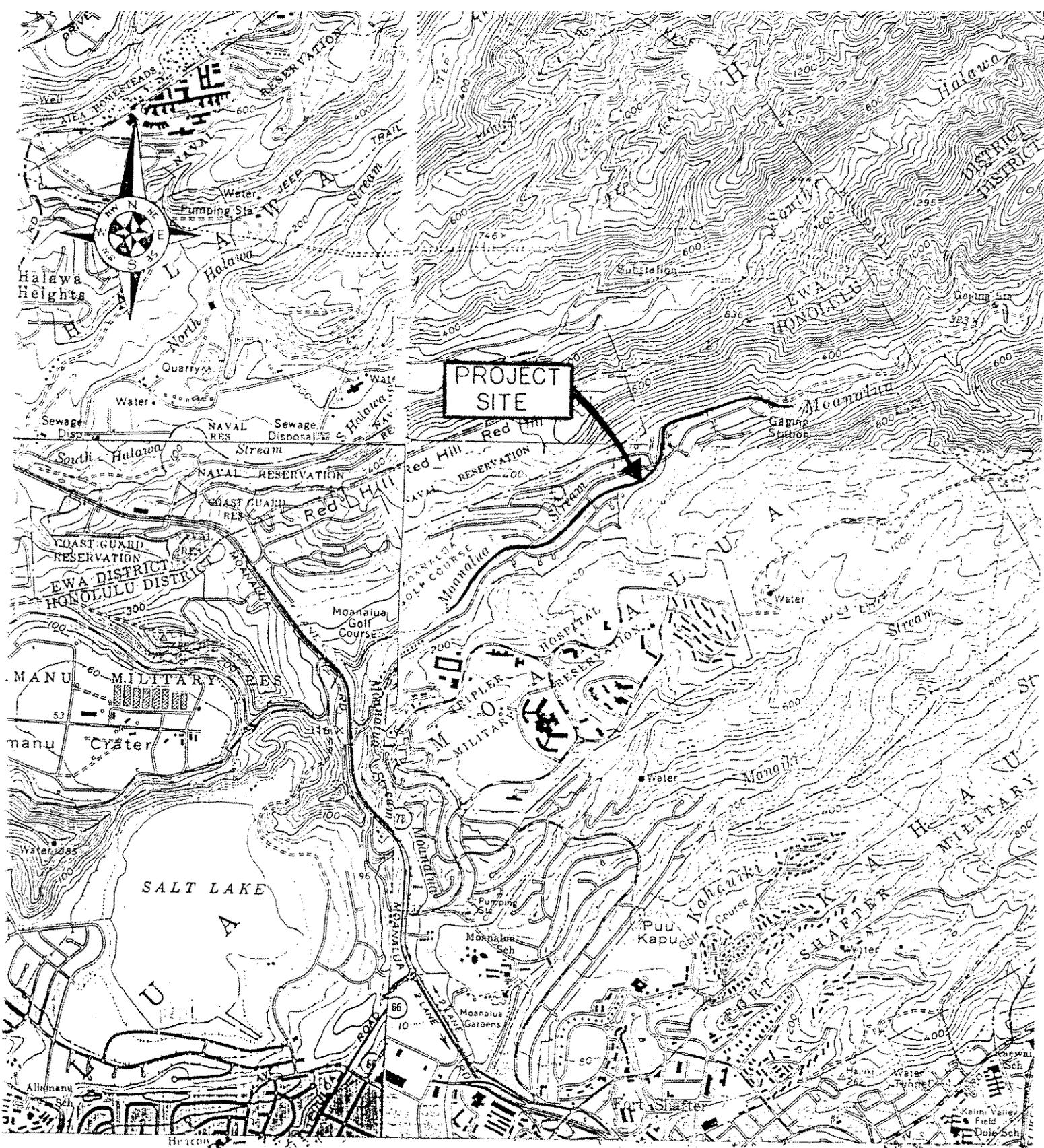
##### A. Discussion

Alternative 1: To take no action will mean more manhours to maintain the channel, less frequent maintenance cleanings which may contribute to possible flooding of adjacent properties, and greater difficulty to make structural repairs.

Alternative 2: The proposed project will enable maintenance personnel to maintain the channel more efficiently with the use of debris hauling equipment. Also small repair work can be done with in-house forces rather than contracting the work.

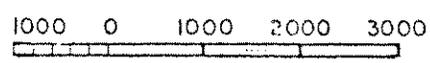
- B. It is recommended that the ramps be constructed to provide easy access for the proper maintenance of the Moanalua Stream Channel.

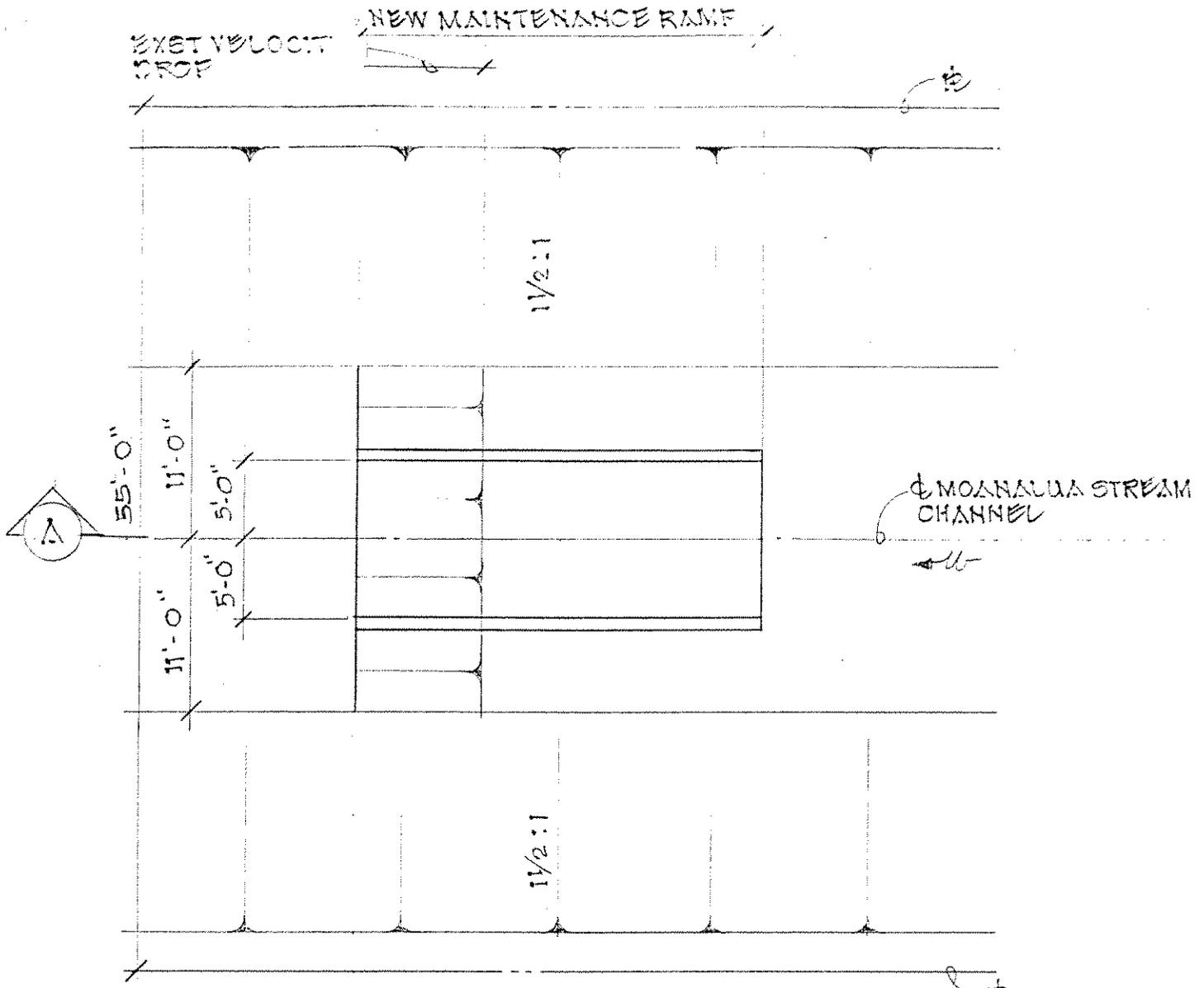




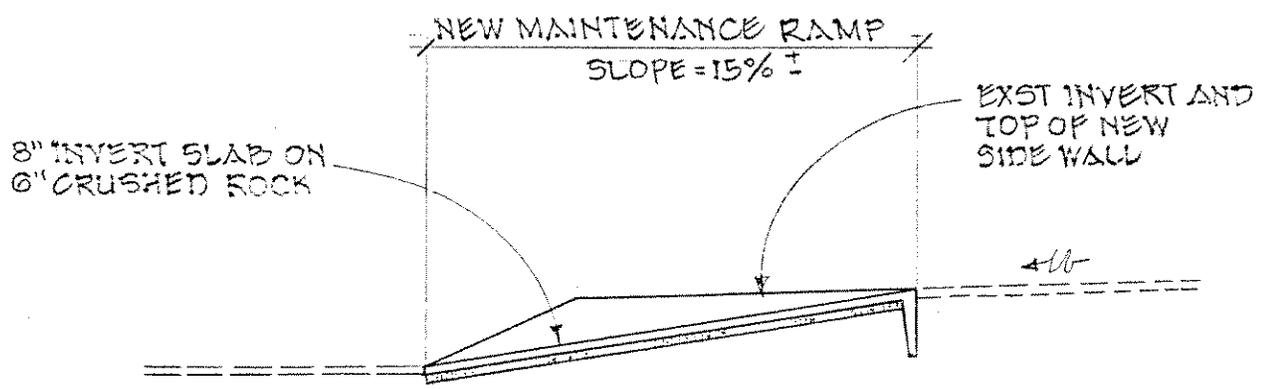
APPENDIX B  
LOCATION MAP

SCALE IN FEET





PLAN SCALE: 1" = 10'-0"



SECTION (A) SCALE: 1" = 10'-0"

APPENDIX C  
RAMP DETAIL

APPENDIX D  
COMMENTS

ALSO SENT TO: General Planning  
Department of Land Utilization  
HS-Board of Land and Natural Resources  
HS-Department of Health  
Fish and Wildlife Service  
U.S. Army Corps of Engineers  
HS-Department of Business and Economic Development

11-0185

November 6, 1987

Mr. William W. Paty, Chairperson  
Board of Land and Natural Resources  
State of Hawaii  
P. O. Box 621  
Honolulu, Hawaii 96809

Dear Mr. Paty:

Subject: Environmental Assessment for the Construction of Maintenance  
Ramps in the Moanalua Stream Channel, TMK: 1-1-12, 40 to 44

We request your assistance and comments on our environmental assessment for this project because of your expertise, area of responsibility or special interest in this matter. This assessment is being made to determine whether an Environmental Impact Statement will be required.

Enclosed is a copy of the environmental assessment giving a description and the characteristics of the proposed project, including a summary of the potential environmental effects. Please call Ray Nakahara at 523-4041 of our Division of Engineering if additional information is needed.

We would appreciate a reply by November 25, 1987.

Very truly yours,  
*Man T. Fukuzawa*

~~For~~ ALFRED J. THIEDE  
Director and Chief Engineer

~~RN:HK:pto~~

Encl.

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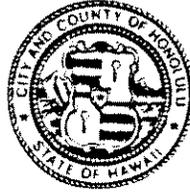
DEPARTMENT OF GENERAL PLANNING  
CITY AND COUNTY OF HONOLULU  
DEPT OF PUBLIC WORKS  
650 SOUTH KING STREET  
HONOLULU, HAWAII 96813

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FRANK F. FASI  
MAYOR



DONALD A. CLEGG  
CHIEF PLANNING OFFICER

GENE CONNELL  
DEPUTY CHIEF PLANNING OFFICER

MM/DGP 11/87-3837

November 20, 1987

MEMORANDUM

TO: ALFRED J. THIEDE, DIRECTOR AND CHIEF ENGINEER  
DEPARTMENT OF PUBLIC WORKS

FROM: DONALD A. CLEGG, CHIEF PLANNING OFFICER  
DEPARTMENT OF GENERAL PLANNING

SUBJECT: ENVIRONMENTAL ASSESSMENT FOR THE CONSTRUCTION OF  
MAINTENANCE RAMPS IN THE MOANALUA STREAM CHANNEL,  
TMK: 1-1-12, 40 TO 44

We have no objections to your proposal to modify velocity drops within the Moanalua Stream Channel to provide maintenance ramps for stream cleaning repair.

The proposal is minor in nature and will have little or no impact on the land use pattern for the area. Therefore, an amendment to the Development Plan Public Facilities Map would not be necessary.

*Donald Clegg*  
DONALD A. CLEGG  
Chief Planning Officer

DEPARTMENT OF LAND UTILIZATION  
CITY AND COUNTY OF HONOLULU

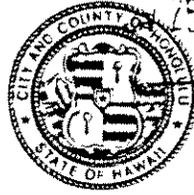
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650 SOUTH KING STREET  
HONOLULU, HAWAII 96813

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FRANK F. FASI  
MAYOR



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ENGR

JOHN P. WHALEN  
DIRECTOR

LU11/87-6063(BWM)

November 25, 1987

MEMORANDUM

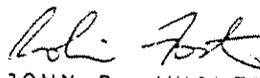
TO: ALFRED J. THIEDE, DIRECTOR & CHIEF ENGINEER  
DEPARTMENT OF PUBLIC WORKS

FROM: JOHN P. WHALEN, DIRECTOR

SUBJECT: ENVIRONMENTAL ASSESSMENT FOR THE CONSTRUCTION OF  
MAINTENANCE RAMPS IN THE MOANALUA STREAM CHANNEL  
TAX MAP KEY 1-1-12, 40 - 44

We have reviewed the Environmental Assessment for the construction of the maintenance ramps in the Moanalua Stream Channel. The Department of Land Utilization has no objections to this project.

Since the project area is outside the Special Management Area (SMA), no SMA permit will be required.

  
JOHN P. WHALEN  
Director of Land Utilization

JPW:s1  
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JOHN WAIHEE  
GOVERNOR OF HAWAII

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EDGR

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

NOV 25 3 54 PM '87

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

In reply, please refer to:  
EPHSD

November 19, 1987

MEMORANDUM

To: Mr. Alfred J. Thiede, Director and Chief Engineer  
Department of Public Works, City and County of Honolulu

From: Deputy Director for Environmental Health

Subject: Environmental Assessment for Construction of Maintenance Ramps in the  
Moanalua Stream Channel, TMK 1-1-12: 40-44

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Thank you for allowing us to review and comment on the subject EA. We provide the following comments on noise.

1. In addition to obtaining a Community Noise Permit, construction activities must comply with the provisions of Title 11, Administrative Rules Chapter 43, Community Noise Control for Oahu.
  - a. Construction equipment and onsite vehicles requiring an exhaust of gas or air must be equipped with mufflers.
  - b. The contractor must comply with the conditional use of the permit as specified in the rules and conditions issued with the permit.
2. Traffic noise from heavy vehicles travelling to and from the construction site must be minimized near existing residential areas.
3. Should there be a baseyard or stockpile area located adjacent to residences, precautions to reduce the noise in these areas, such as barriers or berms, must be implemented. Contingency plans must be developed in the event that complaints are received regarding noise emanating from these areas.

*Bruce S. Anderson*  
\_\_\_\_\_  
BRUCE S. ANDERSON, Ph.D.



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DIV. OF ENGINEERING, FISH AND WILDLIFE SERVICE

Nov 23 2 18 PM '87

300 ALA MOANA BOULEVARD  
P. O. BOX 50167  
HONOLULU, HAWAII 96850

IN REPLY REFER TO:  
ES  
Room 6307

NOV 20 1987

Mr. Alfred J. Thiede  
Director and Chief Engineer  
Department of Public Works  
City and County of Honolulu  
650 South King Street  
Honolulu, Hawaii 96813

Re: Environmental Assessment for the Construction of Maintenance Ramps in the Moanalua Stream Channel, Oahu

Dear Mr. Thiede:

We have reviewed the referenced Environmental Assessment and offer the following comments for your consideration.

The purpose of these improvements is to reduce the slope of fourteen velocity drops within the 7,500-foot long concrete-lined Moanalua Stream channel. These improvements will simplify maintenance work in the channel.

To limit the release of silt and debris from the construction of the new velocity ramps into coastal waters, we recommend that construction work be conducted during the summer months when the stream channel is dry.

We appreciate this opportunity to comment.

Sincerely,

Ernest Kosaka, Field Supervisor  
Environmental Services  
Pacific Islands Office

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Save Energy and You Serve America!



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 DIV. OF ENGINEERING  
 DEPARTMENT OF THE ARMY  
 ENGINEER DISTRICT, HONOLULU  
 BUILDING 230  
 FT. SHAFTER, HAWAII 96856-5440

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November 24, 1987

REPLY TO  
 ATTENTION OF:

8780090  
 ENVE  
 11/30 EXGR

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Mr. Alfred J. Thiede  
 Director and Chief Engineer  
 Department of Public Works  
 City and County of Honolulu  
 650 South King Street  
 Honolulu, Hawaii 96813

Dear Mr. Thiede:

Thank you for the opportunity to review the Environmental Assessment for the Construction of Maintenance Ramps in the Moanalua Stream Channel, Moanalua, Oahu, Hawaii. The following comments are offered.

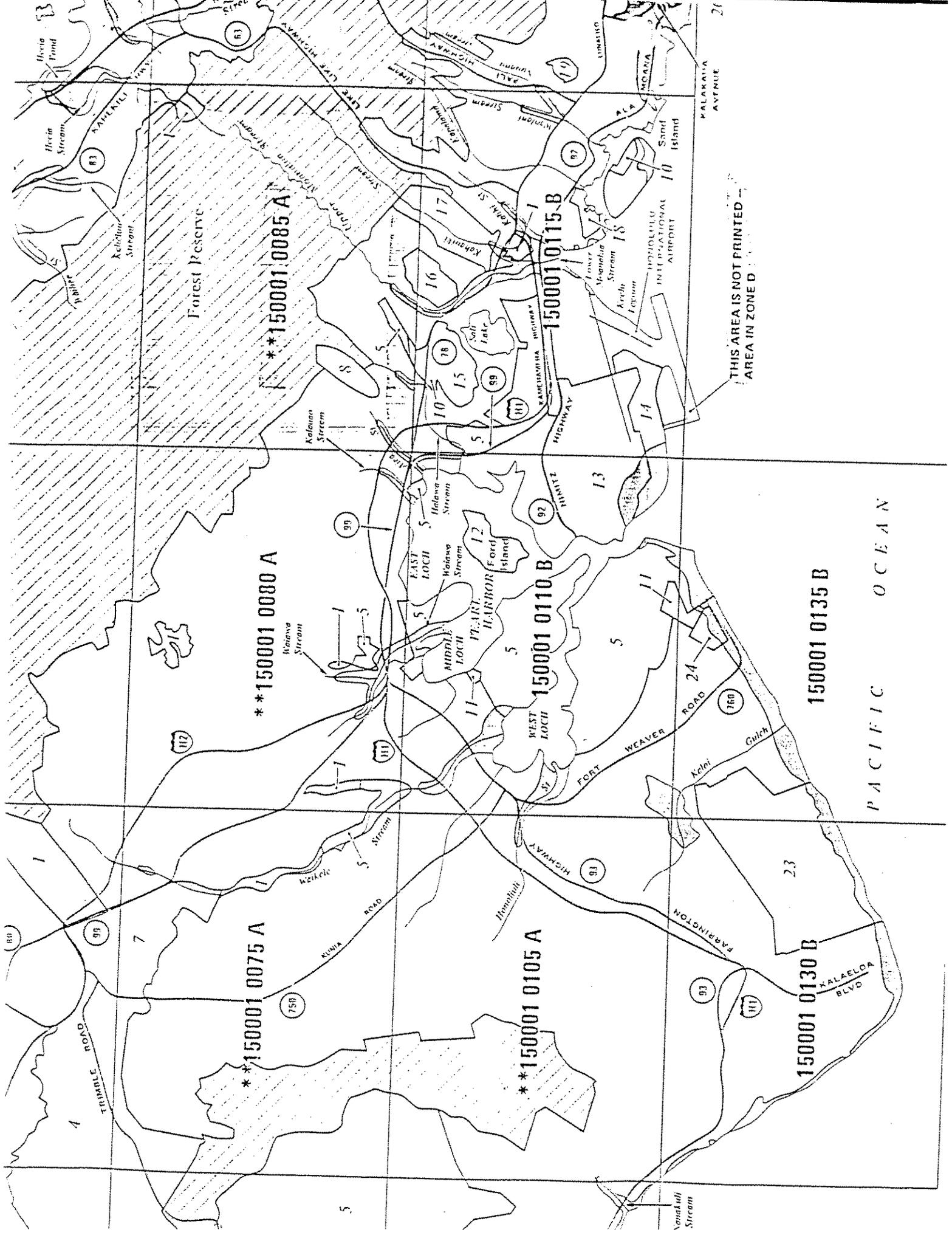
a. As you are already aware, the proposed project requires a Department of the Army permit. Please continue to consult with Operations Branch regarding the permit application.

b. According to the enclosed Flood Insurance Rate Map Index for the City and County of Honolulu, the project site is located in Zone D, an area of undetermined but possible flood hazards.

Sincerely,

  
 Kisuk Cheung  
 Chief, Engineering Division

Enclosure



Forest Reserve

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\*\*150001 0080 A

\*\*150001 0075 A

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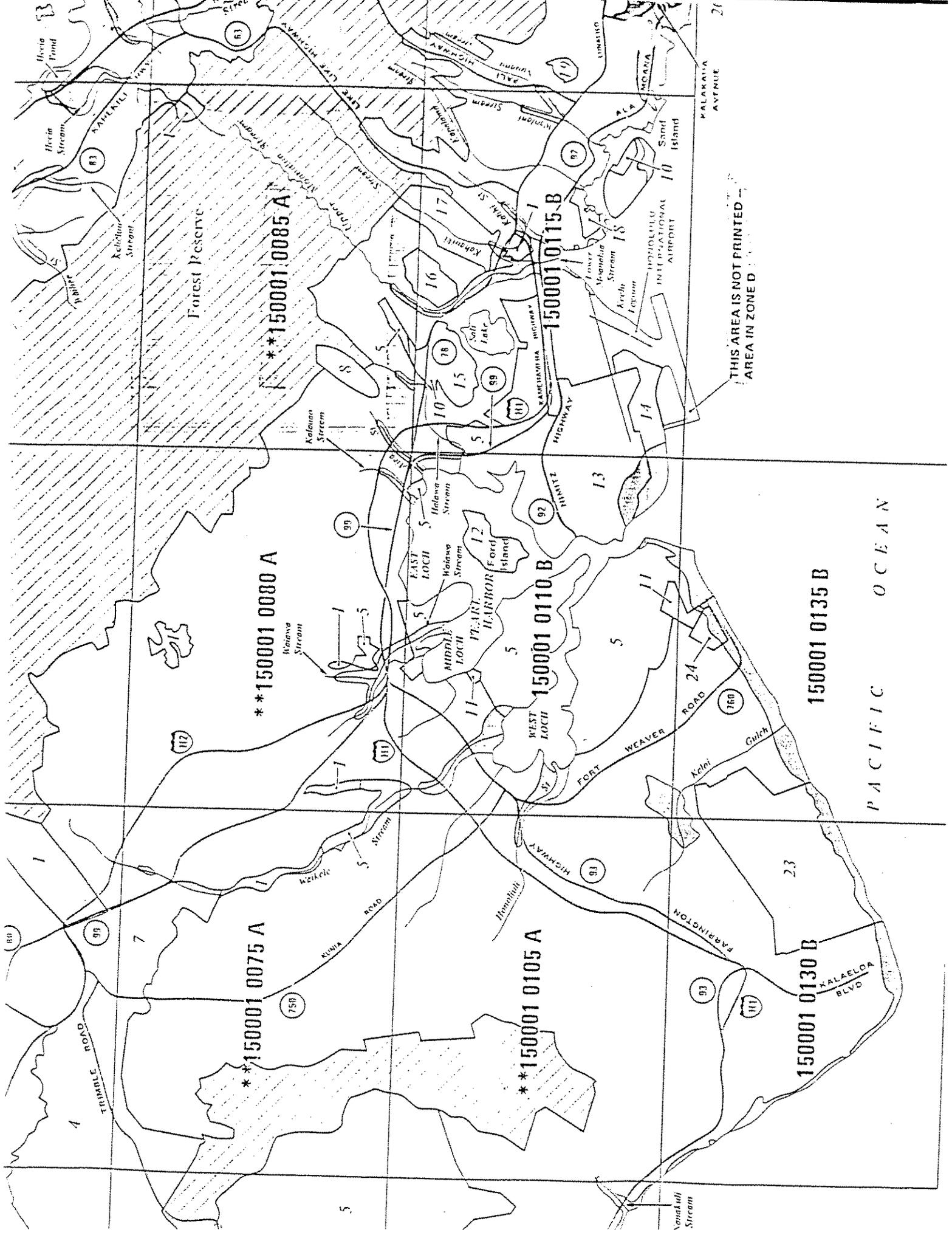
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150001 0135 B

THIS AREA IS NOT PRINTED  
AREA IN ZONE D

PACIFIC OCEAN





DEPARTMENT OF BUSINESS AND ECONOMIC DEVELOPMENT

KAMAMALU BUILDING, 250 SOUTH KING ST., HONOLULU, HAWAII

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JOHN WAIHEE GOVERNOR  
ROGER A. ULVELING DIRECTOR  
MURRAY E. TOWILL DEPUTY DIRECTOR  
BARBARA KIM STANTON DEPUTY DIRECTOR

878006

Ref. No. P-7651

November 18, 1987

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The Honorable Alfred J. Thiede  
Director and Chief Engineer  
Department of Public Works  
City and County of Honolulu  
650 South King Street  
Honolulu, Hawaii 96813

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Dear Mr. Thiede:

Subject: Environmental Assessment for the Construction of  
Maintenance Ramps in the Moanalua Stream Channel

The environmental assessment (EA) indicates that the project will require a U.S. Department of the Army permit. Therefore, Hawaii Coastal Zone Management (CZM) Federal Consistency determination will also be required. We will review the proposed project for CZM consistency certification at that time.

Thank you for the opportunity to review this EA. If there are any questions regarding this matter, please feel free to call our CZM office at 548-8467.

Sincerely,

*Roger A. Ulveling*  
Roger A. Ulveling