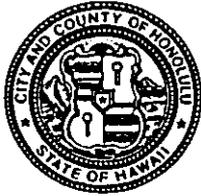


*Kahaluu Stream Slope
Repair at Hakuhale St.*

DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET
HONOLULU, HAWAII 96813

JEREMY HARRIS
MAYOR



Jonathan K. Shimada, PhD
DIRECTOR AND CHIEF ENGINEER

IN REPLY REFER TO:

97-11-0225

June 25, 1997

UFG OF ENVIRONMENTAL
QUALITY CONTROL

97 JUN 25 P 3:07

RECEIVED

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

Dear Mr. Gill:

Subject: Kahaluu Stream Slope Repair at Hakuhale Street

Having reviewed the draft environmental assessment for the Kahaluu Stream Slope Repair at Hakuhale Street located at 47-571 Hakuhale Street, Kaneohe, Oahu, TMK: 4-7-68: 010, and all responses received, the City and County of Honolulu's Department of Public Works is declaring a finding of no significant impact and requests that you publish a notice of availability of this project in the July 8, 1997, issue of the Environmental Notice.

Enclosed is a completed bulletin publication form, four copies of the draft environmental assessment, and a 3.5" diskette with the project description. Please call James Wang at 523-4041 if there are any questions.

Very truly yours,


Jonathan K. Shimada, PhD
Director and Chief Engineer

Encl.

72

1997-07-08-0A-~~FEA~~-Kahaluu Stream ^{JUL} 8 1997
Slope Repair at Hakuhale Street

DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF HONOLULU

FINAL ENVIRONMENTAL ASSESSMENT

FOR THE

KAHALUU STREAM SLOPE REPAIRS

AT HAKUHALE STREET

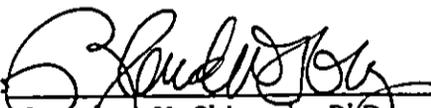
KANEOHE, OAHU, HAWAII

TAX MAP KEY: 4-7-68: 010

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:


for Jonathan K. Shimada, PhD
Director and Chief Engineer

6-18-97
Date

PREPARED BY
DIVISION OF ENGINEERING
DEPARTMENT OF PUBLIC WORKS

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

The section of Kahaluu Stream in the vicinity of the project site has had bank stability problems caused by constant lateral migration of the stream. The existing stream embankment has been undermined and is affecting both the residence of the abutting property owner and the City's drainage outlet structure.

This project will attempt to stabilize the existing stream embankment by constructing a CRM cutoff wall along the base of the existing embankment, placing grout between boulders of the existing embankment riprap, extending the embankment riprap further up the slope for 17 feet, placing a new section of grouted rubble paving along 15 linear feet of eroded natural slope, and regrading a 15-foot length of embankment to transition to the stable region of the existing natural embankment.

II. ***Description of the Affected Environment***

The proposed project is located in Kahaluu, Oahu, Hawaii, along Kahaluu Stream at lots 47-574 and 47-567 Hakuale Street and 47-531 Waipaipai Street (TMK: 4-7-68: 009, 010, 012). The project is approximately 14 miles from the State Capitol in Honolulu (See Appendix A - Location Map). The project area is zoned residential.

The average annual rainfall in this area is 40 inches per year. The average temperature varies from 72.9 to 79.1 degrees.

Historically, the Kahalu'u Watershed area has been in agricultural use producing leaf taro, papaya, bananas, various vegetables, poultry, flowers, and livestock.

Kahaluu Stream is a perennial stream. It is unimproved in the project area and very difficult to access (requires use of a knotted rope) and has no apparent recreational uses. There was a CRM lined section at the drainage outlet which has since been washed out. There is existing boulder riprap along most of the slope within the project area. Natural embankments in the area of the proposed project are vegetated (weeds).

The types of aquatic stream life at the site may include: tilapia, oopu nakea, oopu naniha, frogs, crayfish, swordtail guppies, opaekala'ole, opae'oeha'a, crabs, mullet, and discarded aquarium fish. There are no known endangered species present at the site.

The terrestrial fauna are birds, weeds, and mammals typically found in developed areas.

According to the Federal Emergency Management Agency's Flood Insurance Rate Map, panel number 150001 0055B, the project site is located outside of the 500-year floodplain.

There are no known archaeological or historical sites in the immediate project area. A search of the Hawaii Register of Historic Places indicates that the closest historical site is the Kahalu'u Taro Lo'i approximately 2600+ feet southeast of the project site.

III. *Agencies to be Consulted in Making this Assessment*

Copies of this environmental assessment were sent to the following agencies for review:

- A. City and County of Honolulu
 - 1. Planning Department
 - 2. Department of Land Utilization
- B. State of Hawaii
 - 1. Department of Land and Natural Resources
 - 2. Department of Health
 - 3. Office of State Planning
- C. U.S. Government
 - 1. Department of Interior Fish and Wildlife Service
 - 2. Department of the Army Corps of Engineers
- D. Other
 - 1. Kahaluu Neighborhood Board No. 29
 - 2. Mr. Garret Takata
 - 3. Councilmember Steve Holmes

Comments and responses (as appropriate) are included in Appendix E of this assessment.

No comments were received from the Department of Interior Fish and Wildlife Service, Kahaluu Neighborhood Board No. 29, and Mr. Garret Takata.

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

Technical Characteristics

The objective of the project is to repair a 78-foot long section of the existing stream embankment which has been damaged due to the constant lateral movement of Kahaluu Stream. The project will attempt to restore the embankment in the 35-linear foot section where loss of embankment material is currently endangering the City's drainage outlet and the closest residence, to fill voids caused by undermining over a 20-linear foot length, to enhance the ability of the embankment to resist further damages, and to provide a smooth transition to the section of embankment which has not been affected by lateral migration of the stream.

Restoration of the embankment in the 18-linear foot section where the bulk of section loss has occurred will be achieved by placing approximately 4.0 cubic yards of soil on the embankment and constructing a 1-foot thick grouted rubble paving at the embankment face.

To repair the loss of section over 17 linear feet of embankment in the vicinity of the drainage outlet, the boulder riprap will be extended further up the embankment to restore the embankment to its original configuration.

The voids caused by undermining near the toe of the embankment will be filled with boulders.

To enhance the ability of the embankment to resist further damages, the strength and stability of the embankment will be improved in two ways. First, a 4-foot deep cutoff wall will be provided along the existing stream edge (approximately 95 linear feet) to improve stability of the toe. This will require approximately 35 cubic yards of excavation and placement of 35 cubic yards of boulders and grout for construction of the cutoff wall. Second, grout will be placed in the existing boulder riprap (approximately 35 linear feet) to make the embankment less erodible.

The transition to the existing undisturbed embankment will occur over a 15-linear foot section and will be accomplished by regrading.

No adverse hydraulic effects are expected to result from the work because: (1) the new cutoff wall will be placed at the bottom of the existing embankment, (2) the grouted rubble paving will be installed to restore the condition of the bank prior to erosion, and (3) a smooth transition to a stable section of natural embankment will be provided.

The construction site is within a privately owned section of Kahaluu Stream. The City will obtain a drainage easement covering the project area.

Construction is scheduled to begin in October 1997. Anticipated length of construction is 120 calendar days.

Economic Characteristics

The project has an estimated construction cost of \$155,000. City CIP funds for the Fiscal Years 1997 and 1998 will be used for the project.

Social Characteristics

The project will not require the displacement or relocation of any people.

Environmental Characteristics

No adverse long-term environmental effects are anticipated as a result of the work.

It is anticipated that the following permits will be required:

1. Stream Channel Alteration Permit (Department of Land and Natural Resources)
2. U.S. Army Corps of Engineers Permit
3. Coastal Zone Management Certification (Office of State Planning)
4. 401 Water Quality Certification (Department of Health)

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

The environmental impact of the proposed project will be limited to the construction phase 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. Dust will be reduced and controlled through application of water and/or appropriate methods. The specifications will contain provisions that will require the Contractor to prevent dust nuisance at all times and have sufficient equipment and manpower at the job site to accomplish this.

Noise will be generated by construction equipment such as backhoes and trucks. The increase in noise level by construction equipment cannot be avoided, but will be controlled and limited to normal daylight working hours. The Contractor will be required to obtain a Community Noise Permit pursuant to Chapter 43 of the State Public Health Regulations and shall comply with the provisions of Chapter 42, Vehicular Noise Control for Oahu. Individuals that may be adversely affected by the construction noises will be residents of the surrounding community. The sound level from equipment noise has been estimated for locations at various distances from the work area. The results may be summarized as follows:

Location	Distance from Project	Sound Level
(1) Nearest residence	40 feet	93 dB
(2) Nearest church	2400 feet	57 dB
(3) Nearest school	3000+ feet	55 dB
(4) Nearest medical center	5280+ feet	51 dB
(5) Nearest playground	3000+ feet	55 dB
(6) Nearest library	5280+ feet	51 dB

The highest level of noise will be experienced by the private property owner abutting the project site. This property owner also has an interest in completion of the project since it will attempt to mitigate erosion of the embankment.

- B. *Water Pollution:* There are several potential causes of water pollution: (1) increase in turbidity of stream water due to excavation or placement of the boulders for the CRM cutoff wall, (2) release of petrochemicals into the water from construction equipment, (3) increase in turbidity when boulders and rocks are placed to fill the holes created by stream flow beneath the existing embankment, and (4) placement of grout in the cutoff wall and on the slope.
- C. *Archaeological Deposits:* Since the work includes the excavation to a depth of 4 feet over a 95-foot length along the existing edge of stream, it is conceivable that archaeological deposits may be encountered during construction.
- D. *Disturbance to Marine Life:* Actions will be taken to minimize any increase in turbidity during construction which may adversely affect marine life and to provide for movement of marine life through the project area.

Long-term disturbance to the marine life (particularly the oopu) should be minimal since the stream invert is being left in its natural state and the work does not infringe on the existing contour and width of the stream.

VI. ***Proposed Mitigation Measures - Best Management Practices***

Construction Timing and Length of Contract

Although it is anticipated that construction will commence in October of this year, the City will try to establish a date for the Notice to Proceed which falls within drier months with the agreement of the Contractor.

The length of time allowed for construction in calendar days specified (120) allows approximately 20 days for bad weather to enable the Contractor to make judgements regarding the halt of construction for weather without concern for completing the contract within the contract time.

Archaeological Deposits

The specifications will require the Contractor to stop work and contact the Historic Sites Section of the Department of Land and Natural Resources in the event that archaeological deposits are encountered.

Disposal of Excavated Material

The Contractor will be required to remove all excavated material from the project site and to provide the location at which the material will be disposed of.

Materials

The project involves placement of approximately 63 cubic yards of boulders. The project specifications will require that these materials be free of any deleterious or organic matter to prevent the entrance of such matter into the stream during placement.

The Contractor will not be allowed to stockpile construction materials in the stream or on its embankments.

Turbidity

Normal depth of flow within this segment of Kahaluu Stream is about 1 foot. During construction, sandbags or silt curtains (as appropriate for ambient conditions) will be employed to mitigate turbidity in the surrounding water. The silt curtains/sandbags will remain in place for one day after construction has been completed. This is intended to provide protection during the 8-hour initial set time for the grout in the cutoff wall and slope.

To mitigate the introduction of turbidity during placement of grout or concrete, work will be postponed if a storm is impending. Otherwise, normal prudent actions will be taken to protect the placed materials from rain or other sources of water exposure including the use of antiwashout additives in the grout.

Turbidity will be monitored by the Contractor through the use of two sampling stations. One sampling station shall be located one meter from the mitigation measure in order to ascertain its effectiveness. The other station shall be located to determine the ambient water conditions. Each day, samples shall be taken at the two stations near the middle of the work day. Each sample shall be tested (or sent for testing) as soon as possible for total suspended solids, turbidity, and pH by the Contractor or a certified lab. Once the Contractor is in possession of the day's test results, he must transmit them to the Clean Water Branch of the Department of Health for review. The Clean Water Branch will notify the Contractor if he is required to take additional precautions during the course of his work.

Construction Methods

Dust created during placement of embankment materials will be reduced and controlled through 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 to have sufficient equipment and manpower at the job site to accomplish this.

Kahaluu Stream varies in width through the project site. At its narrowest point, the invert is slightly less than 4 feet in width. During construction, the Contractor will be required to leave a 2-foot width of stream flow around the work area clear for migration of aquatic life.

Since it is anticipated that work will begin in October, the work shall be done in phases to minimize the amount of embankment and condition of work exposed to the elements. The length of excavation for the cutoff wall shall be limited to the length of cutoff wall which can be placed before the end of the work day. Likewise, placement of fill on the embankment in the eroded section will be limited to areas which can be covered with grouted rubble paving before the end of the work day.

VII. Alternatives Considered

The following courses of action were considered: (1) no action or (2) completion of the proposed project.

Alternative 1: If no action is taken, erosion of the embankment in the project area would continue and result in damage to both the structures within the City's drainage easement and the private property through which the stream runs.

Alternative 2: Completion of the proposed project would stabilize the slopes and protect them with a CRM lining, precluding further erosion and property damage.

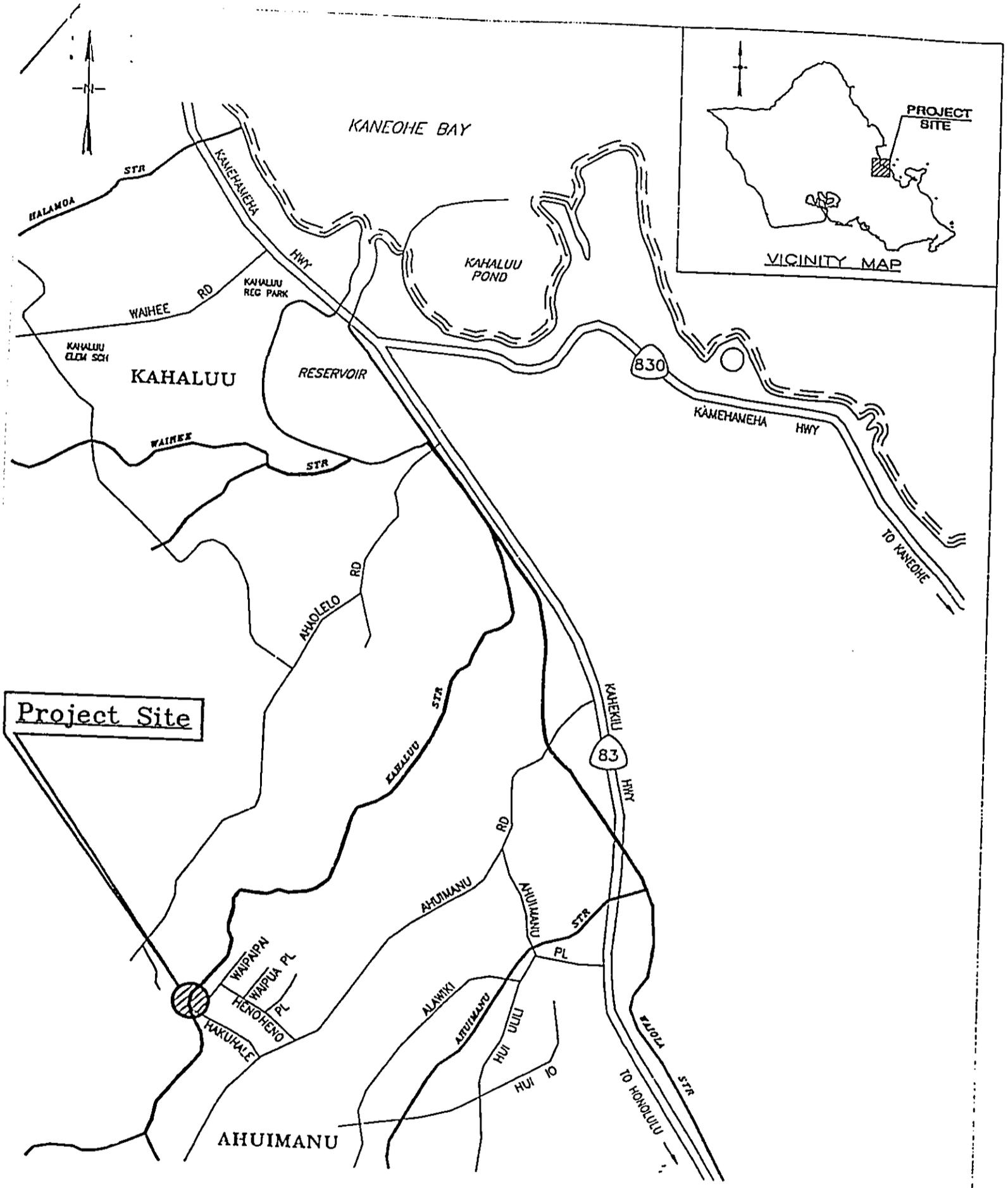
VIII. *Determination*

After preparing an environmental assessment, we have determined that the proposed project will not have a significant impact on the environment, and an environmental impact statement will not be prepared.

IX. *Reasons Supporting the Determination*

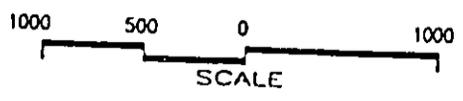
Based on an analysis of the significance criteria in Section 11-200-12 of the 1996 Hawaii Environmental Impact Statement Rules, the reasons supporting the Negative Declaration determination are that the proposed project will not:

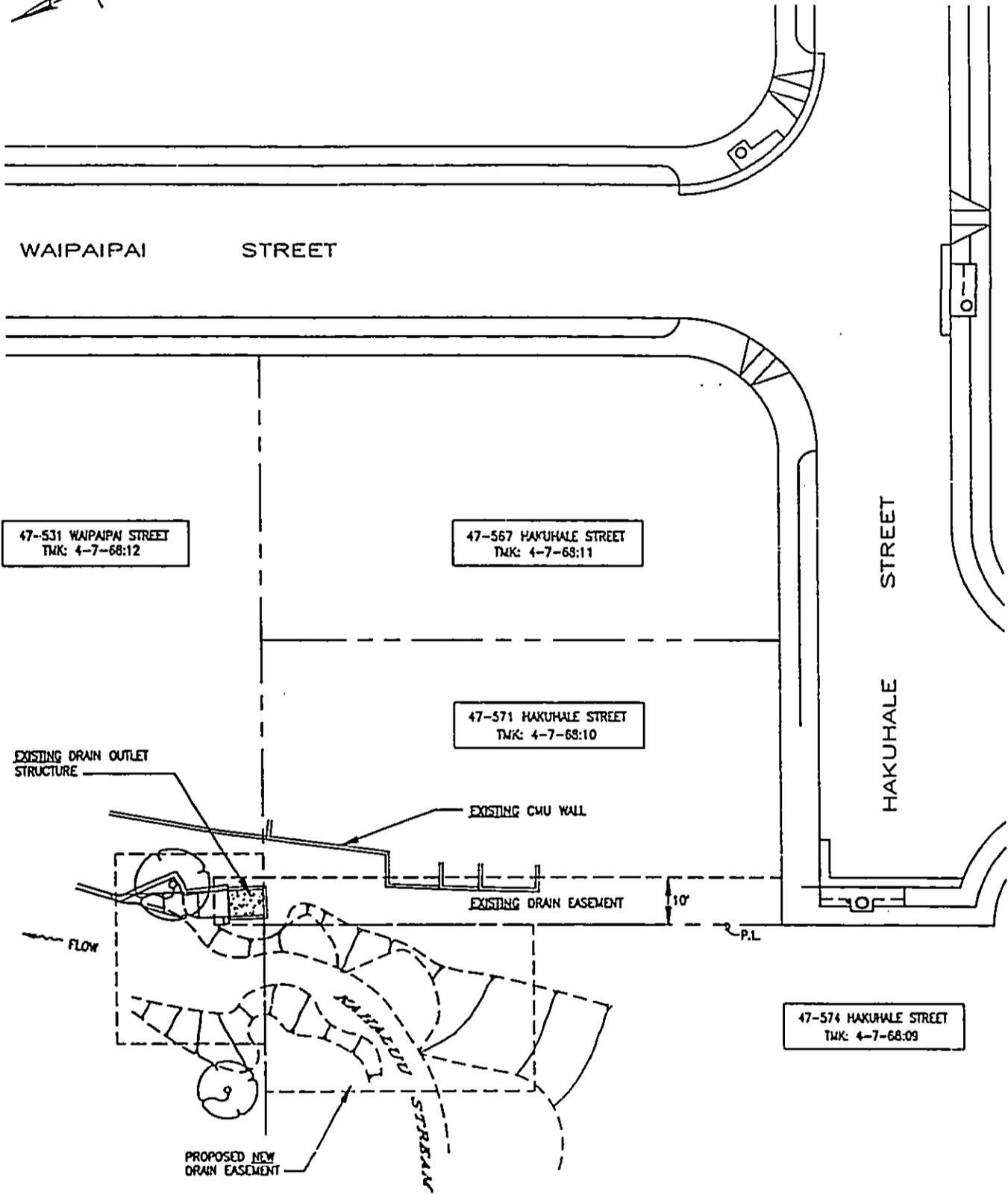
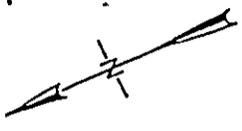
- result in the loss or destruction of any natural or cultural resource;
- curtail the range of beneficial uses of the environment;
- conflict with the State's long-term environmental policies or goals and guidelines as expressed in Chapter 344, Hawaii Revised Statutes;
- affect public health;
- displace any residences or businesses;
- have significant long-term effects on air quality, water quality, or ambient noise levels;
- adversely affect rare or endangered species of flora or fauna;
- be in close proximity to any known natural, historic, or archaeological sites;
and
- affect the economic or social welfare of the community.



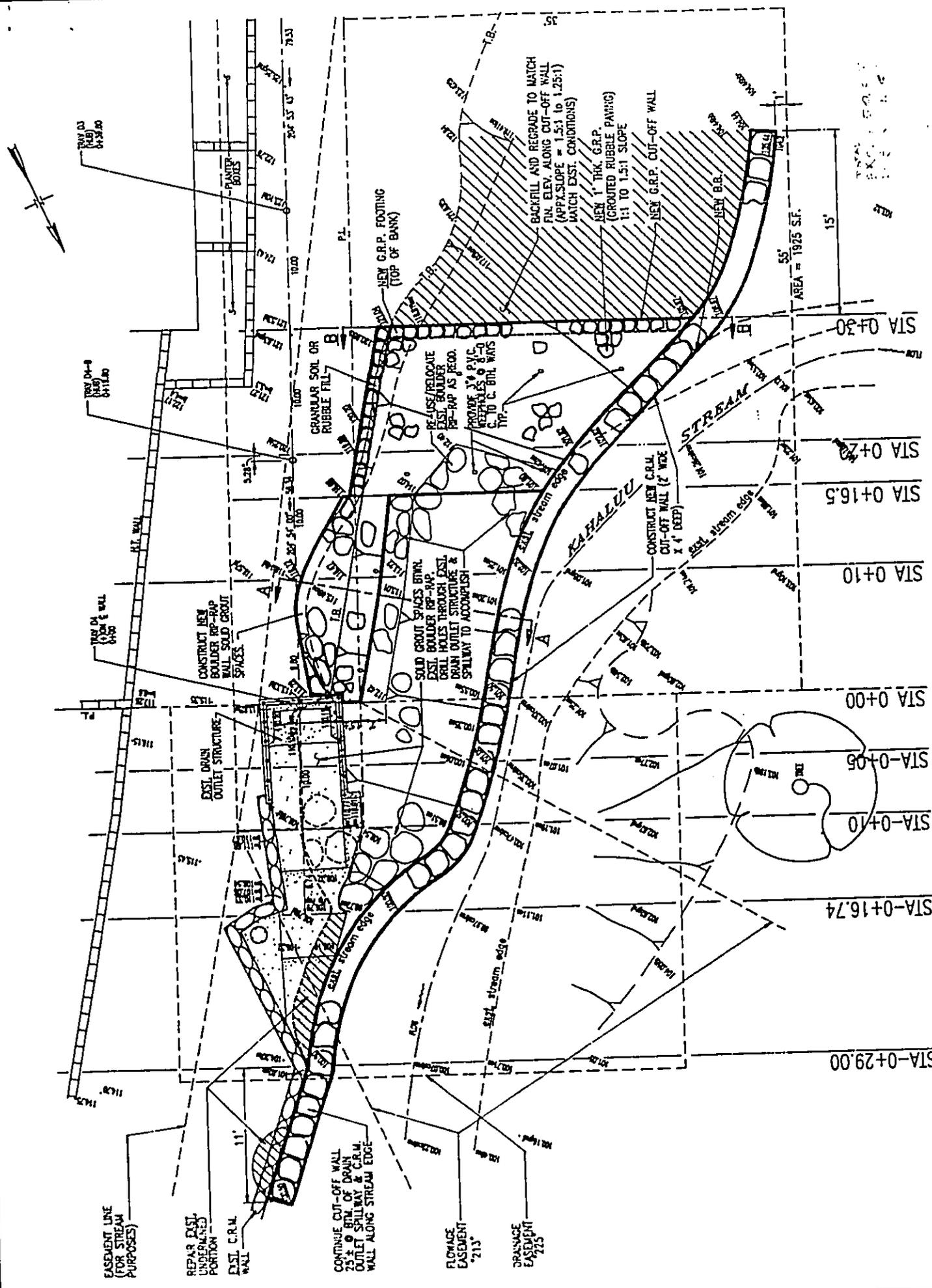
Project Site

LOCATION MAP
 APPENDIX-A
 T.M.K. 4-7-68:9,10,12





SITE PLAN
APPENDIX-B
SCALE: 1"=30'



APPENDIX - C

SITE PLAN

SCALE: 1"=5'

STA-0+29.00

STA-0+16.74

STA-0+10

STA-0+05

STA 0+00

STA 0+10

STA 0+16.5

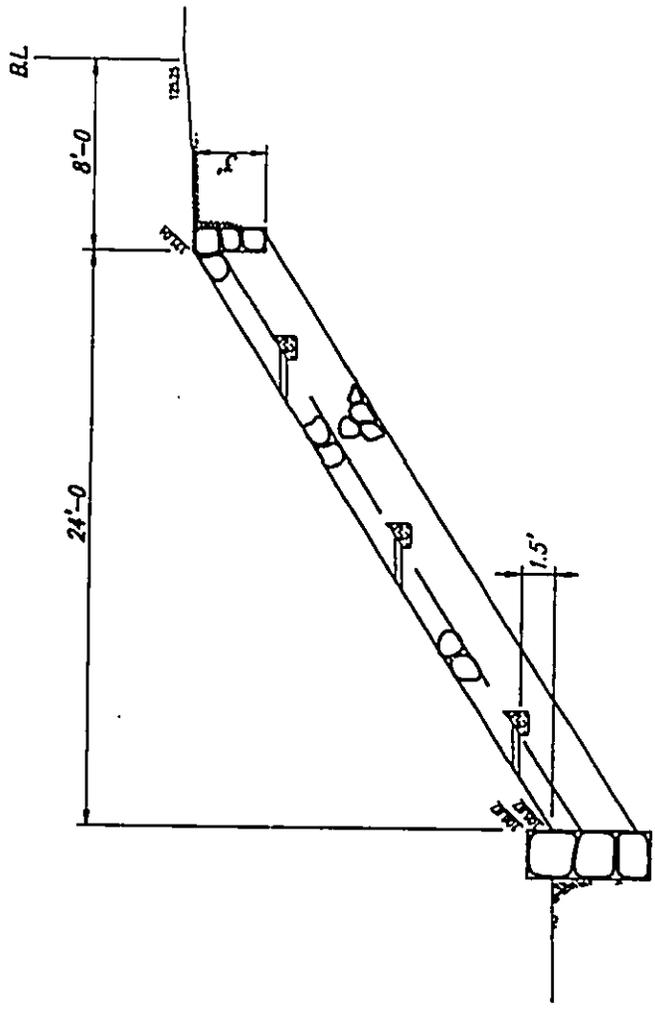
STA 0+20

STA 0+30

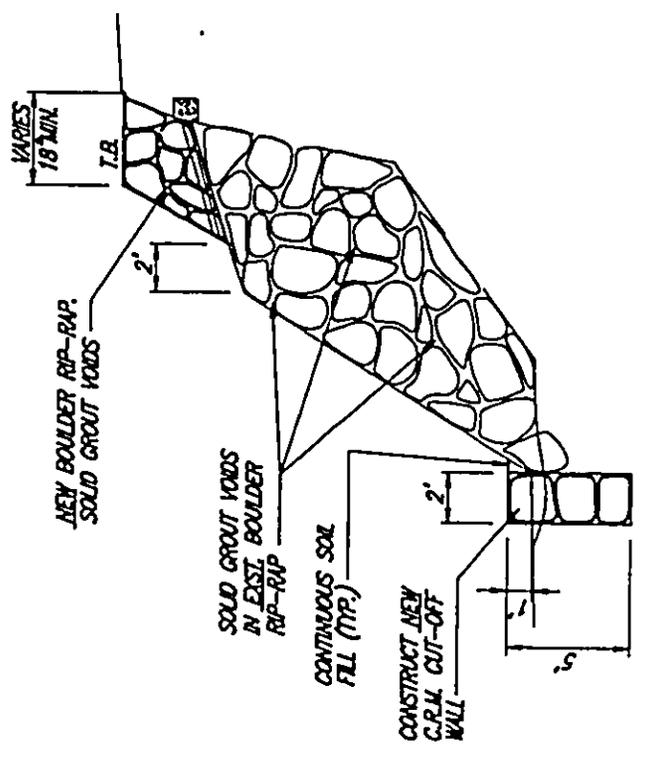
AREA = 1925 SF.

15'

TOTAL EXPOSED
LENGTH = 100'



SECTION B-B @ CUT-OFF WALL
 SCALE: 1/8"=1'-0"



SECTION A-A
 SCALE: 1/8"=1'-0"

APPENDIX-D

APPENDIX E
COMMENTS

DEPARTMENT OF PLANNING
CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET, 8TH FLOOR • HONOLULU, HAWAII 96813-3017
PHONE: (808) 523-4711 • FAX: (808) 523-4950

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JEREMY HARRIS
MAYOR



April 3, 1997

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APR 7 8 46 AM '97

PATRICK T. ONISHI
CHIEF PLANNING OFFICER

DONA L. HANAIKE
DEPUTY CHIEF PLANNING OFFICER
MH 3/97-0644

ENG

MEMORANDUM

TO: DR. JONATHAN K. SHIMADA, DIRECTOR AND CHIEF ENGINEER
DEPARTMENT OF PUBLIC WORKS

FROM: PATRICK T. ONISHI, CHIEF PLANNING OFFICER
PLANNING DEPARTMENT

SUBJECT: ENVIRONMENTAL ASSESSMENT FOR KAHALUU STREAM SLOPE
REPAIR AT HAKUHALE STREET, TAX MAP KEY: 4-7-68: 12

In response to your department's request of March 7, 1997, we have reviewed the subject Environmental Assessment and have the following comments to offer:

1. The proposed subject site is designated for Residential use on the Koolaupoko Development Plan Land Use Map.
2. The Koolaupoko Development Plan Public Facilities Map shows a symbol for a publicly funded sewer improvement district (Kahaluu Sewers, Section 4, Improvement District) slightly north of the proposed subject site.
3. We recommend that the proposed construction of a CRM retaining wall and slope lining in a segment of Kahaluu Stream near the City's drain outlet structure at Hakuhale Street be implemented during the drier summer months to lessen the risk of erosion and any further slope damage.

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


PATRICK T. ONISHI
Chief Planning Officer

PTO:js

97-11-0141

April 30, 1997

MEMORANDUM

TO: MR. PATRICK T. ONISHI, CHIEF PLANNING OFFICER
PLANNING DEPARTMENT

FROM: DR. JONATHAN K. SHIMADA, DIRECTOR AND CHIEF ENGINEER
DEPARTMENT OF PUBLIC WORKS 

SUBJECT: IN RESPONSE TO YOUR COMMENTS OF APRIL 3, 1997, ON THE ENVIRONMENTAL ASSESSMENT FOR KAHALUU STREAM SLOPE REPAIR AT HAKUHALE STREET, TAX MAP KEY: 4-7-68: 012

Your timely comments are greatly appreciated. Our responses are as follows:

1. ***The proposed subject site is designated for residential use on the Koolaupoko Development Plan Land Use Map.***

This information will be included in the final environmental assessment.

2. ***The Koolaupoko Development Plan Public Facilities Map shows a symbol for a publicly funded sewer improvement district (Kahaluu Sewers, Section 4, Improvement District) slightly north of the proposed subject site.***

The sewer project is near the proposed project but we do not foresee any conflict. According to the Department of Wastewater Management, completion of their project is anticipated by the end of October.

3. ***We recommend that the proposed construction of a CRM retaining wall and slope lining in a segment of Kahaluu Stream near the City's drain outlet structure at Hakuhale Street be implemented during the drier summer months to lessen the risk of erosion and any further slope damage.***

Mr. Patrick T. Onishi
Page 2
April 30, 1997

We are also interested in avoiding the rainy season but will not be able to begin construction this summer because all of the necessary permits cannot be obtained by that time. We have considered delaying the start of construction to the early part of 1998 but decided against it because of the potential for the damage to increase during the rains of November and December. At this time, we are still projecting commencement of construction in October.

Please contact James Wang at extension 4041 with any questions you may have regarding our responses.

JW:JY:RN:tt

bcc: Construction Branch

DEPARTMENT OF LAND UTILIZATION
CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET, 7TH FLOOR • HONOLULU, HAWAII 96813
PHONE: (808) 523-4414 • FAX: (808) 527-6743

JEREMY HARRIS
MAYOR



JAN NAOE SULLIVAN
DIRECTOR

LORETTA K.C. CHCE
DEPUTY DIRECTOR

97-01678 (AC/SHC)
'97 EA Comments Zone 4

April 18, 1997

MEMORANDUM

TO: JONATHAN K. SHIMADA, PhD, DIRECTOR AND CHIEF ENGINEER
DEPARTMENT OF PUBLIC WORKS

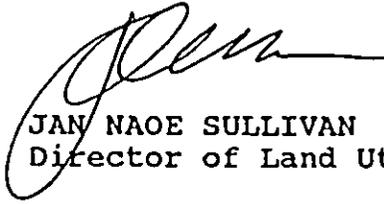
FROM: JAN NAOE SULLIVAN, DIRECTOR
DEPARTMENT OF LAND UTILIZATION

SUBJECT: ENVIRONMENTAL ASSESSMENT (EA) FOR
KAHALUU STREAM SLOPE REPAIR AT HAKUHALE STREET
TAX MAP KEY: 4-7-68: 12

We have reviewed the above-referenced EA transmitted via your memorandum dated March 7, 1997, and offer the following comments:

1. The proposed project is not within the Special Management Area (SMA), and therefore not subject to the provisions of Chapter 25, Revised Ordinances of Honolulu.
2. Some site specific examples of the Best Management Practices (BMP) Plan should be cited in the final EA to demonstrate that there will be no adverse environmental effects.
3. Since the nearest residence is merely forty feet away from the project site, the dimensions of the new CRM retaining wall should be specified (i.e., maximum/minimum height and width) in the final EA to address the aesthetic concerns of the neighboring public.

Thank you for the opportunity to comment. Should you have any questions, please contact Art Challacombe of our staff at 523-4107.

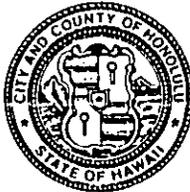

JAN NAOE SULLIVAN
Director of Land Utilization

JNS:am

g:97-01678.shc

DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET
HONOLULU, HAWAII 96813



JEREMY HARRIS
MAYOR

Jonathan K. Shimada, PhD
DIRECTOR AND CHIEF ENGINEER

IN REPLY REFER TO:

97-11-0226

June 25, 1997

MEMORANDUM

TO: MS. JAN NAOE SULLIVAN, DIRECTOR
DEPARTMENT OF LAND UTILIZATION

FROM: 
DR. JONATHAN K. SHIMADA, DIRECTOR AND CHIEF ENGINEER
DEPARTMENT OF PUBLIC WORKS

SUBJECT: YOUR RESPONSE OF APRIL 18, 1997, REGARDING THE
ENVIRONMENTAL ASSESSMENT (EA) FOR KAHALUU STREAM
SLOPE REPAIR AT HAKUHALE STREET, TAX MAP KEY: 4-7-68: 012

Your timely response and thoughtful comments were greatly appreciated. The response to your comments are as follows:

1. ***The proposed project is not within the Special Management Area (SMA) and, therefore, not subject to the provisions of Chapter 25, Revised Ordinances of Honolulu.***

Thank you for this information. It is helpful to us in determining which permits are necessary for construction of this project.

2. ***Some site specific examples of the Best Management Practices Plan (BMPs) should be cited in the final EA to demonstrate that there will be no adverse environmental effects.***

We agree with your suggestion and Section VI of the final EA now presents the site specific BMPs.

Ms. Jan Naoe Sullivan
Page 2
June 25, 1997

3. ***Since the nearest residence is merely 40 feet away from the project site, the dimensions of the new CRM retaining wall should be specified (i.e., maximum/minimum height and width) in the final EA to address the aesthetic concerns of the neighboring public.***

The project will involve the construction of a CRM cutoff wall along the base of the existing rubble slope lining to preclude further erosion. The nearest resident has requested the project since his residence may be endangered if the erosion continues. Copies of the EA were sent to the Kahaluu Neighborhood Board No. 29 and Councilmember Steve Holmes for comments so that the neighboring public would have the opportunity to comment. No negative comments were received.

Please contact James Wang at extension 4041 with any questions you may have regarding our response.

JAMIN J. CAYETANO
GOVERNOR OF HAWAII



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APR 8 3 21 PM '97

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
P. O. BOX 621
HONOLULU, HAWAII 96809

MICHAEL D. WILSON
CHAIRPERSON
ROBERT G. GIRALD
DAVID A. RODRIGA
LAWRENCE H. MIKE
RICHARD H. COX
HERBERT M. RICHARDS, J
RAE M. LOUI, P.E.
DEPUTY

APR - 7 1997

ENG
97-1113

Mr. Jonathan K. Shimada, Ph.D
Acting Director and Chief Engineer
City and County of Honolulu
Department of Public Works
650 South King Street
Honolulu, Hawaii 96813

Dear Mr. Shimada:

This is in regards to the Environmental Assessment for the proposed Kahaluu Stream Slope Repair at Hakuale Street, Kaneohe, Oahu (TMK: 4-7-68:12).

The project consists of construction of a new cement rubble masonry retaining wall and drainage easement in Kahaluu Stream channel.

It appears that a stream channel alteration permit pursuant to Hawaii Administrative Rules §13-169-50 must be obtained prior to construction work.

Should you have any questions regarding this letter, please call David Higa at 587-0249.

Sincerely,

A handwritten signature in cursive script, appearing to read "Rae M. Loui".

RAE M. LOUI
Deputy Director

DH:fc

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APR 10 1 59 PM '97

DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET
HONOLULU, HAWAII 96813

JEREMY HARRIS
MAYOR



Jonathan K. Shimada, PhD
~~XXXXXXXXXXXXXXXXXXXX~~
DIRECTOR AND CHIEF ENGINEER

IN REPLY REFER TO:

97-11-0227

June 25, 1997

Ms. Rae M. Loui, Deputy Director
Commission on Water Resource Management
Department of Land and Natural Resources
State of Hawaii
P. O. Box 621
Honolulu, Hawaii 96809

Dear Ms. Loui:

Subject: Your Comments of April 7, 1997, Regarding the Environmental Assessment (EA) for Kahaluu Stream Slope Repair at Hakuale Street, Kaneohe, Oahu, Tax Map Key: 4-7-68: 012

Thank you for your timely review of the EA. We will file for a stream alteration permit for the work prior to construction.

If there are any questions, please call James Wang of the Division of Engineering at 523-4041.

Very truly yours,


Jonathan K. Shimada, PhD
Director and Chief Engineer

JAMIN J. CAYETANO
GOVERNOR OF HAWAII



97-1137
Eng

LAWRENCE MIKE
DIRECTOR OF HEALTH

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

In reply, please refer to:

April 4, 1997

97-062/epo

Dr. Jonathan K. Shimada, PhD
Acting Director and Chief Engineer
Department of Public Works
City & County of Honolulu
650 South King Street
Honolulu, Hawaii 96813

RECEIVED
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APR 10 9 47 AM '97

Dear Dr. Shimada:

Subject: ENVIRONMENTAL ASSESSMENT (97-11-0084)
Project: Kahaluu Stream Slope Repair at Hakuale
Street
Location: Kaneohe, Oahu, Hawaii
TMK: 4-7-68: 12

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

Sincerely,

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

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APR 11 2 38 PM '97



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

OFFICE OF PLANNING

235 South Beretania Street, 6th Flr., Honolulu, Hawaii 96813
Mailing Address: P.O. Box 2359, Honolulu, Hawaii 96804

BENJAMIN J. CAYETANO
GOVERNOR
SEIJI F. NAYA
DIRECTOR
BRADLEY J. MOSSMAN
DEPUTY DIRECTOR
RICK EGGED
DIRECTOR, OFFICE OF PLANNING

Tel.: (808) 587-2846
Fax: (808) 587-2824

Ref. No. P-6581

March 27, 1997

97-1016
[Handwritten signature]

Jonathan K. Shimada, Ph.D.
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 Dr. Shimada:

SUBJECT: Environmental Assessment for the Kahaluu Stream Slope Repairs at
Hakuhale Street, Kaneohe, Oahu, Hawaii, Tax Map Key: 4-7-68:012

We have reviewed the environmental assessment and have the following comments.

The proposed project involves the construction of a concrete rubble masonry retaining wall and slope lining in Kahaluu Stream near the City's drain outlet structure that has been undermined by erosion. The environmental impact statement should include an assessment of the project's conformance with the Coastal Zone Management (CZM) objectives and policies, Chapter 205A, HRS, since the CZM area encompasses the entire State.

Based on the information provided, there are questions about the project's potential effects relative to the CZM coastal ecosystems and coastal hazards objectives and policies because stream flow may be altered. In this respect, the environmental impact statement should thoroughly describe and explain the type and size of the wall, its exact proposed location along the stream, stream flow changes, and their effects.

If there are any questions, please contact Christina Meller of our CZM Program at 587-2845.

Sincerely

[Handwritten signature]

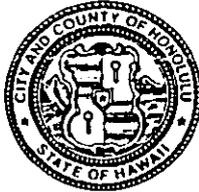
Rick Egged
Director
Office of Planning

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APR 3 9 59 AM '97

DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET
HONOLULU, HAWAII 96813

JEREMY HARRIS
MAYOR



Jonathan K. Shimada, PhD
DIRECTOR AND CHIEF ENGINEER

IN REPLY REFER TO:

97-11-0228

June 25, 1997

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

Dear Mr. Egged:

Subject: Your Response of March 27, 1997, Regarding the Environmental Assessment for
Kahaluu Stream Slope Repairs at Hakuale Street, Kaneohe, Oahu, Hawaii,
Tax Map Key: 4-7-68: 012, REF No. P-6581

The project will attempt to stabilize the existing stream embankment by constructing a CRM cutoff wall along the base of the existing embankment, placing grout between the boulders of the existing embankment riprap, extending the embankment riprap further up the slope, placing a new section of grouted rubble paving along 15 linear feet of eroded natural slope, and regrading a 15-foot length of embankment to transition to the stable region of the existing natural embankment.

No adverse hydraulic effects are expected to result from the work because: (1) the new cutoff wall will be placed at the bottom of the existing embankment, (2) the grouted rubble paving will be installed to restore the condition of the bank prior to erosion, and (3) a smooth transition to a stable section of the natural embankment will be provided.

No long term adverse effects are anticipated on the coastal ecosystems since water quality monitoring will be done in conjunction with the construction work.

We will be filing for a Coastal Zone Management Certification prior to construction.

Please contact James Wang at 523-4041 with any questions you may have regarding our response.

Very truly yours,


Jonathan K. Shimada, PhD
Director and Chief Engineer



REPLY TO
ATTENTION OF

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

March 28, 1997

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Planning and Operations Division

Dr. Jonathan K. Shimada
Acting Director and Chief Engineer
Department of Public Works
City and County of Honolulu
650 South King Street
Honolulu, Hawaii 96813

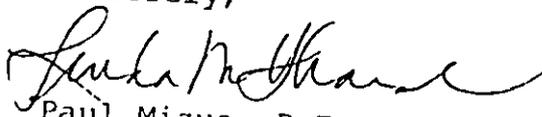
Dear Dr. Shimada:

Thank you for the opportunity to review and comment on the Environmental Assessment for the Kahaluu Stream Slope Repair Project at Hakuhale Street, Oahu (TMK 4-7-68: 12). The following comments are provided pursuant to U.S. Army Corps of Engineers authorities to disseminate flood hazard information under the Flood Control Act of 1960 and to issue Department of the Army (DA) permits under the Clean Water Act; the Rivers and Harbors Act of 1899; and the Marine Protection, Research and Sanctuaries Act.

a. Any activity that results in a discharge of dredged or fill material below the ordinary high water mark in Kahaluu Stream will require a DA permit. Please contact Mr. Alan Everson of our Regulatory Section at 438-9258 for further permit information and refer to file number P0970000149.

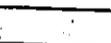
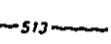
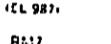
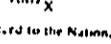
b. According to the enclosed Federal Emergency Management Agency's Flood Insurance Rate Map, panel number 150001 0055B (dated September 4, 1987), the project site is located in Zone X (unshaded; areas determined to be outside of the 500-year floodplain). For further information regarding the flood zone designations, please contact Ms. Jessie Dobinchick of our Technical Analysis Section at 438-7006.

Sincerely,


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

Enclosure

LEGEND

-  SPECIAL FLOOD HAZARD AREAS INITIATED BY 100-YEAR FLOOD
 - ZONE A** No base flood elevations determined
 - ZONE AE** Base flood elevations determined
 - ZONE AH** Flood depths of 1 to 3 feet (small areas of ponding) base flood elevations determined
 - ZONE AD** Flood depths of 1 to 3 feet (smallly sheet flow on sloping areas) average depths determined. For areas of sheet flow flood mg. velocities are determined
 - ZONE AP** To be protected from 100-year flood by Federal flood protection system under construction no base elevations determined
 - ZONE V** Coastal flood with velocity hazard (wave action) no base flood elevations determined
 - ZONE VE** Coastal flood with velocity hazard (wave action) base flood elevations determined
 -  FLOODWAY AREAS IN ZONE AE
 -  OTHER FLOOD AREAS
 - ZONE X** Areas of special flood areas of 100-year flood with average depths of less than 1 foot or with drainage areas less than 1 square mile, and areas protected by levees from 100-year flood
 -  OTHER AREAS
 - ZONE X** Areas determined to be outside 500-year flood plain
 - ZONE D** Areas in which flood hazards are undetermined
-
-  Flood Boundary
 -  Floodway Boundary
 -  Zone II Boundary
 -  Boundary Dividing Special Flood Hazard Zones, and Boundary Dividing Areas of Different Coastal Base Flood Elevations Within Special Flood Hazard Zones
 -  Base Flood Elevation Line; Elevation in Feet
 -  Cross Section Line
 -  Base Flood Elevation in Feet Where Uniform Within Zone
 -  Elevation Reference Mark

Refer to the National Geodetic Vertical Datum of 1929

NOTES

NATIONAL FLOOD INSURANCE PROGRAM

**FIRM
FLOOD INSURANCE RATE MAP**

**CITY AND COUNTY OF
HONOLULU,
HAWAII**

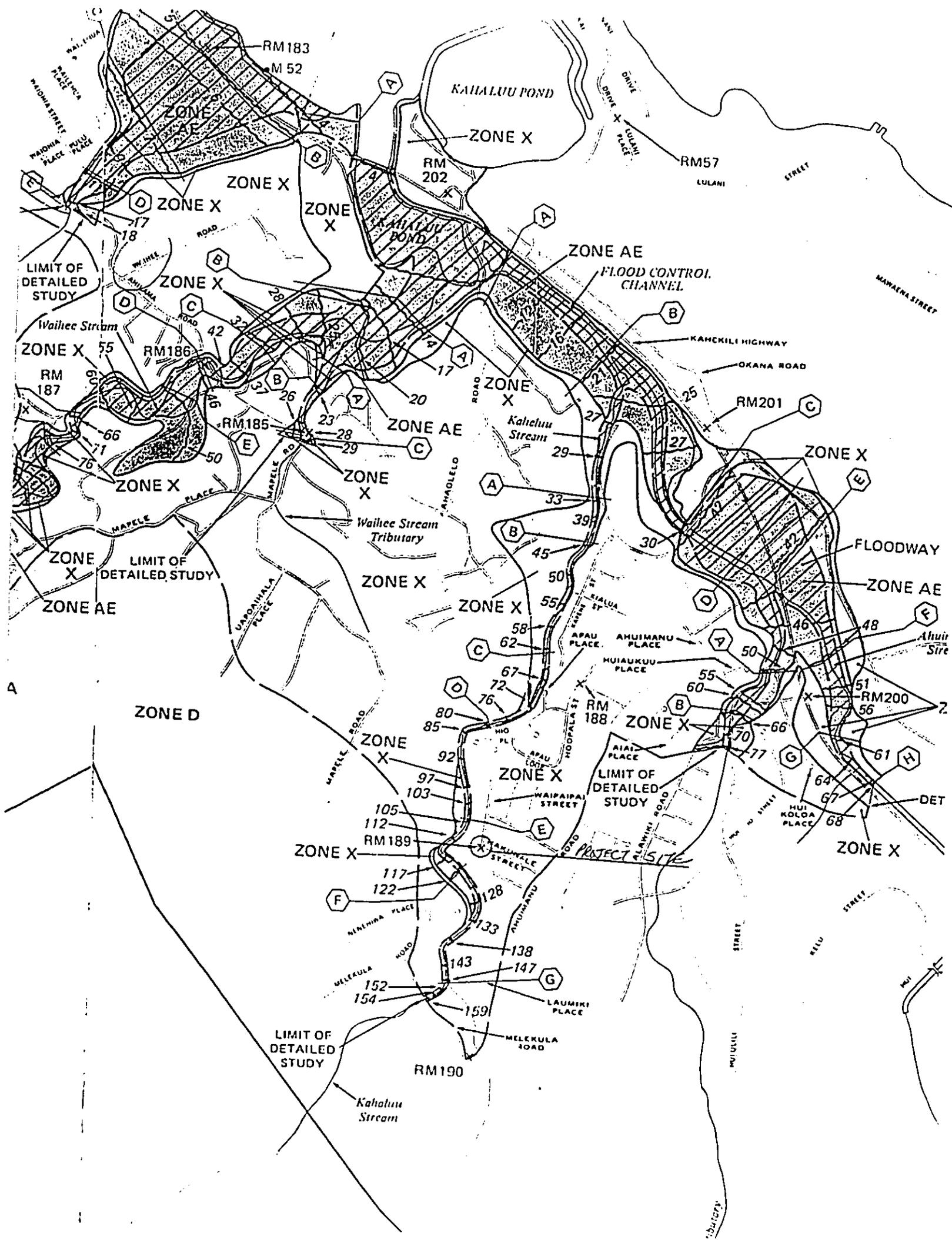
PANEL 55 OF 135
(SEE MAP INDEX FOR PANELS NOT PRINTED)

**COMMUNITY-PANEL NUMBER
150001 0055 B**

**MAP REVISED:
SEPTEMBER 4, 1987**

Federal Emergency Management Agency

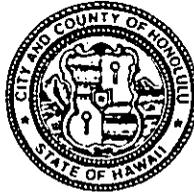
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DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET
HONOLULU, HAWAII 96813

JEREMY HARRIS
MAYOR



Jonathan K. Shimada, PhD
DIRECTOR AND CHIEF ENGINEER

IN REPLY REFER TO

97-11-0229

June 25, 1997

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

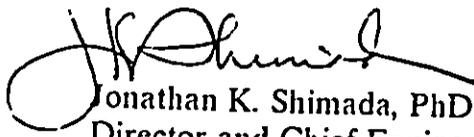
Dear Mr. Mizue:

Subject: Your Response of March 28, 1997, Regarding the Environmental
Assessment for Kahaluu Stream Slope Repair at Haku Hale Street, Oahu,
Tax Map Key: 4-7-68: 012

Your thoughtful and timely response was greatly appreciated. We will be filing an application for a Department of the Army permit prior to construction. The information provided regarding the designation of the project area on the FEMA Flood Insurance Rate Map has been included in the final EA.

Please contact James Wang at 523-4041 with any questions you may have regarding our response.

Very truly yours,


Jonathan K. Shimada, PhD
Director and Chief Engineer

To: WAA0030 @ CCHNL
From: Holmes, Steve
Subject: Hakuhale EA
Date: 3/18/97 Time: 8:50a

Dear Dr. Shimada: JS

Thank you for the opportunity to respond to the environmental assessment for the Kahaluu Stream Slope Repair at Hakuhale Street. I don't feel that a full blown EIS should be require for this minor repair work. I have been on the site on two occasions with DPW staff and am familiar with the physical environment of the area. As long as best management practices are used, the project should have no impact on the site.

This project is needed to protect the City's drainage structure and failure to act would have harmful impacts on the stability of the slope.

Thank you again for this opportunity to respond.

Steve Holmes
Councilmember

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BENJAMIN J. CAYETANO
GOVERNOR



STATE OF HAWAII
OFFICE OF ENVIRONMENTAL QUALITY CONTROL

236 SOUTH BERETANIA STREET
SUITE 702
HONOLULU, HAWAII 96813
TELEPHONE (808) 586-4186
FACSIMILE (808) 586-4186

March 19, 1997

Jonathan Shimada
Department of Public Works
650 South King Street
Honolulu, HI 96813

Attn: James Wang

Dear Dr. Shimada:

Subject: Draft Environmental Assessment (EA) for Kahaluu Stream Slope Repair at
Hakuhale Street; TMK 4-7-62: 12

We have the following comments to offer:

1. Consult with the neighbors nearest to the project location and document your contacts in the final EA.
2. Include a full description of the aquatic, cultural and recreational characteristics of the stream and the impact of the project on these characteristics.
3. The EIS law requires disclosure of the use of state or county funds for projects. Please include this in the final EA.
4. Is this project in the Conservation District? If so please contact the Department of Land and Natural Resources Land Division regarding the need for a conservation district use permit and note your contact or permit filing status in the final EA.
5. Discuss the findings and reasons, according to the significance criteria listed in HAR Title 11-200-12, that support the anticipated Finding of No Significant Impact (FONSI) determination. You may use the enclosed sample as a guideline.

If you have any questions, please call Nancy Heinrich at 586-4185.

Sincerely,

GARY GILL
Director

GARY GILL
DIRECTOR
Eng
97-0886

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MAR 24 11 29 AM '97

97-11-0196

June 10, 1997

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

Dear Mr. Gill:

Subject: Response to Your Comments on the Draft Environmental Assessment (EA) for
Kahaluu Stream Slope Repair at Hakuhaile Street, TMK: 4-7-62: 012

Your timely response is greatly appreciated. The response to your comments follows:

1. ***Consult with the neighbors nearest the project location and document your contacts in the final EA.***

Copies of the environmental assessment were sent for comments to the nearest property owner and to the Kahaluu Neighborhood Board.

2. ***Include a full description of the aquatic, cultural and recreational characteristics of the stream and the impact of the project on these characteristics.***

Historically, the Kahalu'u Watershed area has been in agricultural use producing leaf taro, papaya, bananas, various vegetables, poultry, flowers and livestock.

Kahaluu Stream, in the vicinity of the project, is very difficult to access (requires use of a knotted rope) and has no apparent recreational characteristics.

The types of aquatic stream life at the site may include: tilapia, oopu nakea, oopu naniha, frogs, crayfish, swordtail guppies, opaekala'ole, opae'oeha'a, crabs, mullet and discarded aquarium fish. There are no known endangered species present at the site.

Mr. Gary Gill
Page 2
June 10, 1997

The terrestrial fauna are birds and mammals typically found in developed areas.

As mentioned in the draft EA, the nearest known archaeological or historic site is approximately half a mile away.

The impact of the project on the marine life in the stream will be mitigated by adhering to the Best Management Practices plan developed for the project site.

3. ***The Environmental Impact Statement law requires disclosure of the use of State or County funds for projects. Please include this in the final EA.***

Page 2 of the draft EA indicates the use of CIP funds for FY 1997-98.

4. ***Is This project in the Conservation District? If so, please contact the Department of Land and Natural Resources' Land Division regarding the need for a conservation district use permit and note your contact or permit filing status in the final EA.***

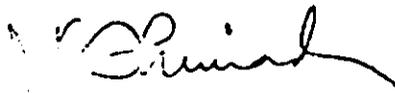
The site of the proposed project is zoned for residential use. It does not fall within a Conservation District.

5. ***Discuss the findings and reasons, according to the significance criteria listed in HAR Title 11-200-12, that support the anticipated Finding of No Significant Impact (FONSI) determination. You may use the enclosed sample as a guideline.***

The guideline provided will be used in the preparation of the final EA.

Please contact James Wang at 523-4041 with any questions or concerns you may have regarding our response.

Very truly yours,



Jonathan K. Shimada, PhD
Director and Chief Engineer

mf
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