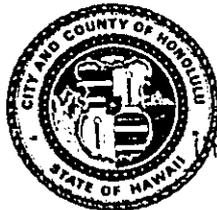


DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET
HONOLULU, HAWAII 96813

RECEIVED

JEREMY HARRIS
MAYOR



'94 SEP 28 A 8:28

KENNETH E. SPRAGUE
DIRECTOR AND CHIEF ENGINEER

IN REPLY REFER TO:

94-11-0196

September 27, 1994

Dr. Bruce S. Anderson, Interim Director
Office of Environmental Quality Control
State of Hawaii
220 South King Street
Honolulu, Hawaii 96813

Dear Dr. Anderson:

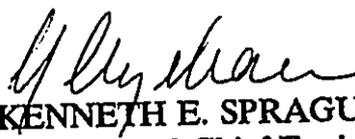
Subject: Environmental Assessment (EA) for Manoa-Palolo Stream Maintenance Ramps, Honolulu, Oahu, Hawaii. Tax Map Key: 2-7-27, 2-8-27

The City and County of Honolulu has not received any additional comments during the 30-day public comment period which began on August 23, 1994. The City and County of Honolulu has determined that this project will not have any significant environmental effects and has issued a negative declaration. Please publish this notice in the October 8, 1994 issue of the OEQC Bulletin.

We have enclosed a completed OEQC Bulletin Publication Form and four copies of the final EA.

Please contact James Tokunaga at 523-4041 if you have any questions.

Very truly yours,

for 
KENNETH E. SPRAGUE
Director and Chief Engineer

Encl.

128

1994-10-08-0A-*FEA*-Manoa-Palolo 001 - 8 1994
Stream Maintenance Ramps

DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF HONOLULU

FINAL
ENVIRONMENTAL ASSESSMENT
FOR THE
MANOA-PALOLO STREAM MAINTENANCE RAMP
AT WAIKA PLACE
HONOLULU, OAHU, HAWAII
TAX MAP KEY: 2-7-27, 2-8-27

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: *Kenneth E. Sprague* *9/27/94*
KENNETH E. SPRAGUE Date
Director and Chief Engineer

PREPARED BY
DIVISION OF ENGINEERING
DEPARTMENT OF PUBLIC WORKS

TABLE OF CONTENTS

	Page
I. Description of Proposed Action and Statement of Objective	1
II. Agencies Consulted in Making this Assessment	1
III. Description of Affected Environment	2
IV. General Description of Project's Technical, Economic, Social and Environmental Characteristics	2
V. Identification of Major Impacts and Proposed Mitigation Measures	4
VI. Alternatives Considered	6
VII. Determination	7
VIII. Reasons for Supporting the Determination	7
Appendix A - Location Map	
Appendix B - Site Map	
Appendix C - Plan	
Appendix D - Comments	

I. Description of Proposed Action and Statement of Objective

The proposed project involves work at two sites: Waiaka Place and Koali Road. The work at Waiaka Place involves the construction of a reinforced concrete maintenance access ramp into the Manoa-Palolo Stream, an approach road beginning at the end of Waiaka Place, and a cutoff wall at the base of the existing rubble slope lining; the work at Koali Road involves repairs to the concrete channel invert, placement of boulder riprap in a section of the invert, and the construction of a reinforced concrete maintenance ramp at the end of the concrete lined section of the invert.

No permanent access to the stream invert from the roadway or from the lined portion of Palolo Stream to the area up or downstream of the Manoa-Palolo juncture is presently available. To date, a temporary access ramp of crushed rock is constructed and removed each time in order to perform maintenance work.

The proposed project will provide permanent concrete access ramps to facilitate stream maintenance operations.

II. Agencies Consulted in Making this Assessment

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

D. Other

1. Diamond Head-Kapahulu-St. Louis Heights Neighborhood Board No. 5
2. Manoa Neighborhood Board No. 7

No comments were received from Neighborhood Board Nos. 5 and 7 and the Department of Land Utilization. Copies of the comments received from the agencies are located in Appendix D of this assessment. These comments have been addressed with appropriate modifications to the assessment.

III. *Description of the Affected Environment*

The proposed project is located in Honolulu, Oahu, Hawaii (TMK: 2-7-27, 2-8-27) at the end of Waiaka Place in the area between King Street and Kapiolani Boulevard and in the vicinity of the Koali Road Bridge. The project areas are approximately four miles from the State Capitol in Honolulu (see Appendix A - Location Map). The Waiaka Place site is zoned for apartment use (A-2); the Koali Road site is zoned residential.

The average annual rainfall in this area is 23 inches per year. The average temperature varies from 72.6 degrees to 81 degrees.

Manoa Stream is a perennial stream with unimproved banks and invert. It provides a water habitat for aquatic species such as small freshwater fish, crayfish, tadpoles, and insect and mosquito larvae. There is no vegetation in the stream near the project site.

Palolo Stream is a perennial stream with a lined rectangular channel. It provides a water habitat for small freshwater fish and insect and mosquito larvae. There is no vegetation in the stream near the project site. There are homes along its banks.

At the Waiaka project site, Manoa-Palolo Stream has CRM channel walls and an unlined invert. This site is located beneath the Kapiolani on ramp to H-1 going east.

At the Koali Road site, Palolo Stream is a lined rectangular channel. Downstream of the Koali Road Bridge, the Manoa-Palolo Stream has CRM channel walls and an unlined invert.

Wildlife in the project area consists of the usual common birds found in built-up areas of Honolulu 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 indicates that the closest historical site is the Church of the Crossroads located approximately 2,500 feet west of the Waiaka project site and 2,700 feet west of the Koali Road site.

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

The construction of the maintenance access ramp will entail the excavation of material from the stream embankment parallel to the stream to provide an 11.5% ramp slope, construction of concrete retaining walls and ramp slab, and construction of an A.C. access road (see Appendix C - Plans). The ramp will be approximately 118 feet in length.

The approach road for the Waiaka Place maintenance ramp will be on grade and approximately 562 feet in length. The work at this site will entail approximately 1,700 cubic yards of excavation and a lesser quantity of backfill. This ramp will be constructed on land owned by the State of Hawaii. Approval was obtained from the State Department of Transportation on May 7, 1993.

The work at the Waiaka Place site also includes the repair of approximately 150 feet of the existing rubble slope lining fronting the Waiaka Place maintenance ramp. A two-foot deep CRM cutoff wall will be constructed along the base of the slope lining to prevent further erosion. Construction of the cutoff wall will require approximately 22 cubic yards of excavation at the edge of the Manoa-Palolo Stream.

The construction of the ramp in the invert near the Koali Road Bridge will entail the excavation of material from the existing cutoff wall to provide a 10% ramp slope, construction of concrete retaining walls, and ramp slab (see Appendix C - Plans). The finished dimensions of this ramp will be 10 feet x 33 feet. The work will require approximately 47 cubic yards of excavation and involves placement of 13 cubic yards of concrete and 13 cubic yards of base course. This ramp will be constructed on land owned by the City and County of Honolulu.

A small quantity (less than 2 cubic yards) of boulder riprap will be placed on the downstream side of the cutoff wall at the Koali Road site to facilitate access to the Palolo Stream channel.

The repairs to the existing concrete invert upstream of the proposed ramp at the Koali Road site are being done to eliminate cracks and holes which may result in undermining of the channel if left in their present state. The existing concrete channel lining will be sawcut along the cracks and around the holes to facilitate placement of concrete patches.

No adverse hydraulic effects are expected to result from the construction of the new maintenance ramps because the net cross-section of the streams will not be reduced.

The project has an estimated construction cost of \$400,000.00. It is anticipated that construction will begin in the summer of 1995 and will take approximately 90 calendar days to complete. Capital Improvement Program funds for FY 94-95 will be utilized for the project.

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

A stream channel alteration permit for the construction of the maintenance ramp will be obtained from the State Department of Land and Natural Resources. Applications will also be filed with the State Department of Health (401 Water Quality Certification), Office of State Planning and the U.S. Army Corps of Engineers.

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 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 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:

WAIAKA PLACE SITE:

	<u>Location</u>	<u>Distance from Project</u>	<u>Sound Level</u>
(1)	Nearest residence	160 feet	81 dB
(2)	Nearest church	2500 feet	57 dB
(3)	Nearest school	400 feet	73 dB
(4)	Nearest medical center	5000+feet	51 dB
(5)	Nearest playground	1000 feet	65 dB
(6)	Nearest library	5000 feet	51 dB

KOALI ROAD SITE:

	<u>Location</u>	<u>Distance from Project</u>	<u>Sound Level</u>
(1)	Nearest residence	50 feet	91 dB
(2)	Nearest church	2700 feet	56 dB
(3)	Nearest school	800 feet	67 dB
(4)	Nearest medical center	5000+feet	51 dB
(5)	Nearest playground	1000 feet	65 dB
(6)	Nearest library	5000 feet	51 dB

- B. *Water Pollution:* Construction will be scheduled during the dry season (summer months) and provisions will be made to divert or transfer water around the work area. This may be accomplished through the use of diversion ditches, pumps, sandbags, etc. This will minimize erosion and sedimentation during construction activities.

The Contractor will be required to properly dispose of wash and dust control water and to take other precautionary actions during the course of construction operations to preclude the discharge of petrochemical products from construction equipment into the stream.

Proper construction methods will be used to minimize disturbance to the stream bed and prevent the entrance of debris and other deleterious materials into the water.

- C. *Archaeological Deposits:* Since the construction involves cutting back the embankment near the Manoa-Palolo Stream, the possibility that archaeological deposits may be impacted has been recognized. The specifications will require the Contractor to contact the Historic Sites Section of the Department of Land and Natural Resources in the event that such deposits are encountered. No archaeological deposits are expected to be encountered in the work at Koali Road since the work will occur within the segment of Palolo Stream that is presently lined with concrete.
- D. *Disturbance to Marine Life.* Since construction will occur in the summer (low flow months) the fish and wildlife usage of the stream will be limited and the impact is not considered to be significantly adverse.

VI. *Alternatives Considered*

The following courses of action were considered: (1) no action, (2) construction of the ramp at another location, and (3) the proposed project.

Alternative 1: If no action is taken, it will be difficult to perform maintenance work in the stream due to the lack of vehicle access. If the repairs to the invert of the concrete channel (Palolo Stream) near Koali Road Bridge are not made, further damage could occur to the channel lining in this area during future storm activity.

Alternative 2: The possibility of locating the maintenance access ramp at another site was considered. Two other sites were considered prior to deciding upon the present one. Location of the ramp at Koali Road was not possible due to the lack of space and construction on the property of Kaimuki High School was denied by the State Department of Education for security and safety reasons.

It is not feasible to change the location of the maintenance ramp at Koali Road because the change in invert elevation from the lined to unlined section of the stream at the Manoa-Palolo junction precludes vehicular access from the Waiaka Road site into the concrete lined section of Palolo Stream. Construction of a ramp at this site is the only way to provide a smooth transition from the unlined to the lined sections of the stream to facilitate stream maintenance activities.

Alternative 3: Completion of the proposed project will enable maintenance personnel to more effectively maintain the channel using vehicles and motorized equipment. As a result, maintenance work may be done at a comparatively lower cost utilizing in-house forces. It will also repair damaged sections of the concrete invert of Palolo Stream near the Koali Road Bridge in an effort to preclude further damages.

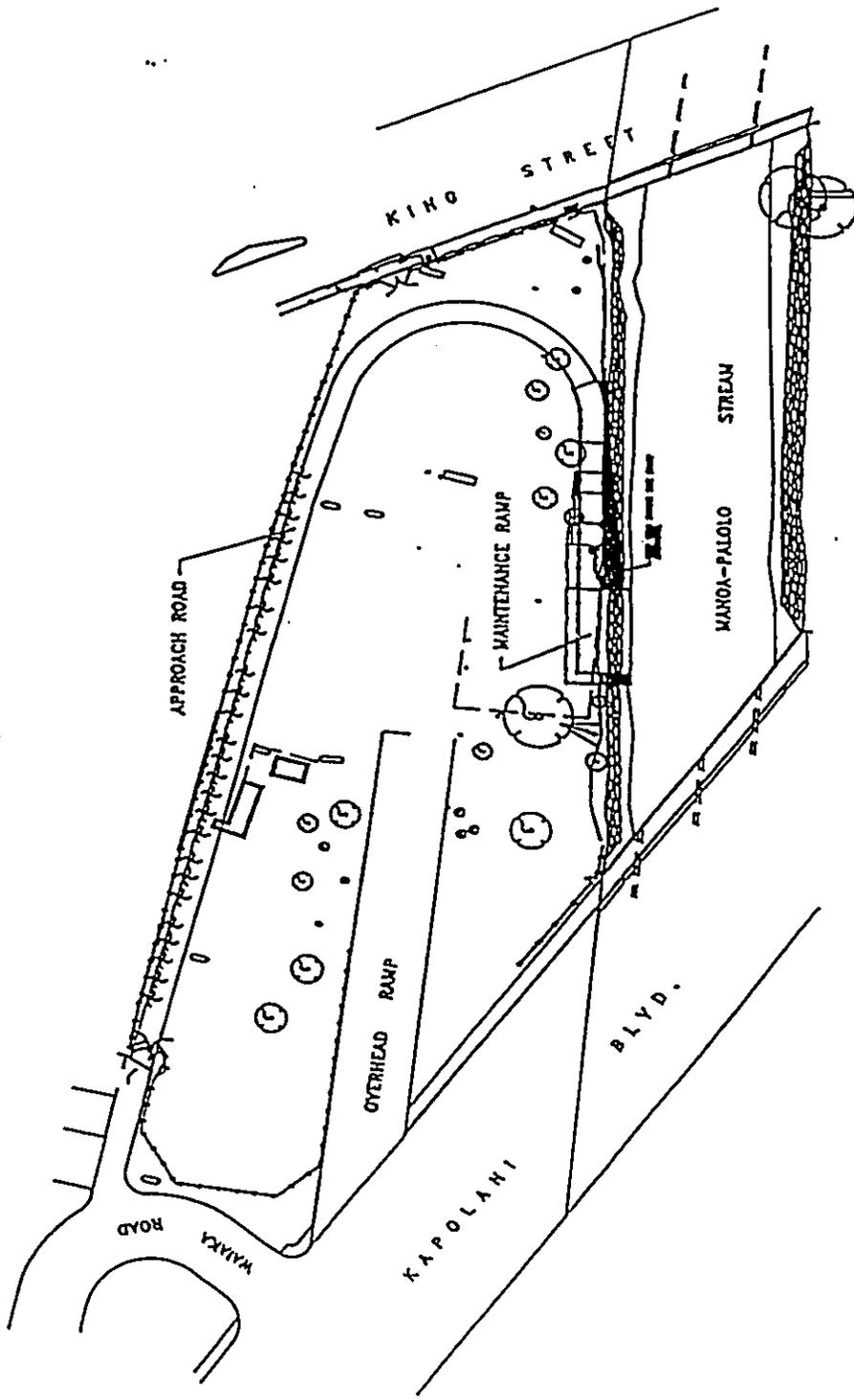
VII. Determination

After preparing the 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.

VIII. Reasons for Supporting the Determination

Based on the criteria, the policies, guidelines, and provisions of Chapter 342, 343 and 344, HRS, the reason supporting the Negative Declaration determination is that the proposed project will not:

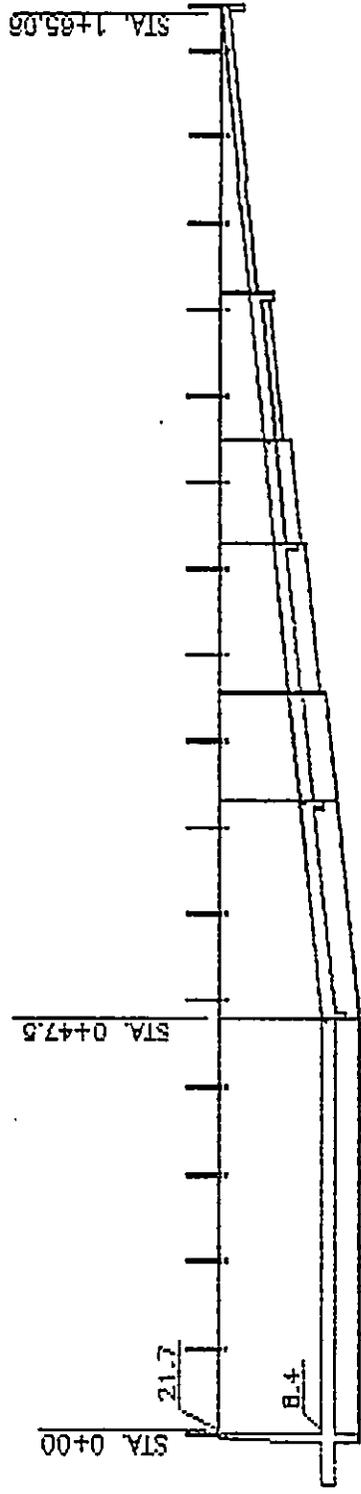
- affect rare or endangered species of flora or fauna.
- affect any natural or cultural resources.
- affect undeveloped lands.
- conflict with existing land use and development plans.
- have significant long term effect on air quality, water quality, or ambient noise levels.
- displace any residences or businesses.
- be located in close proximity to any known natural, historic or archaeological sites.



PLAN OF MAINTENANCE ACCESS RAMP AT WAIKA PLACE

SCALE 1" = 100'

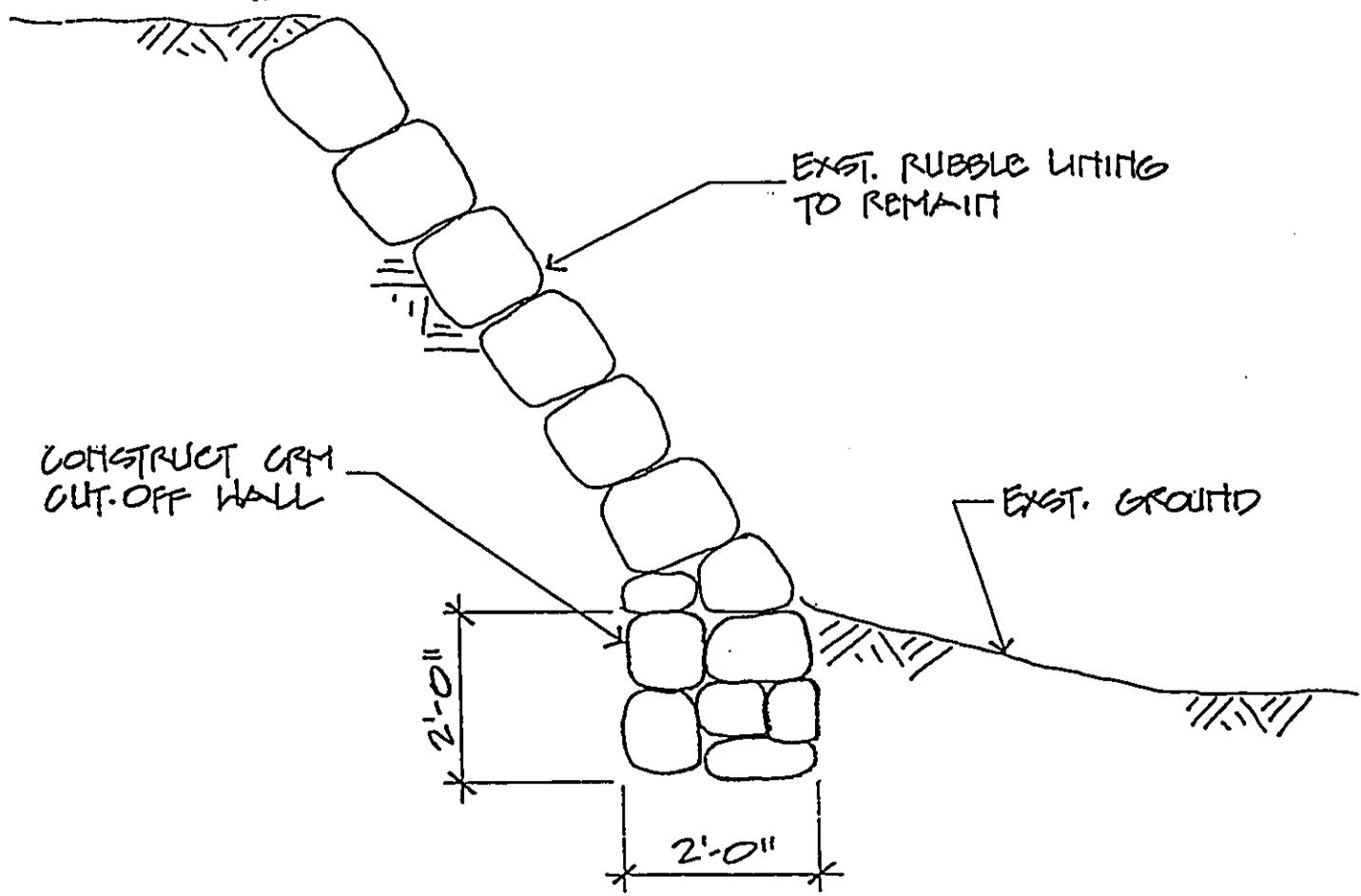
APPENDIX C



PROFILE OF MAINTENANCE ACCESS RAMP @ WAIKA PLACE

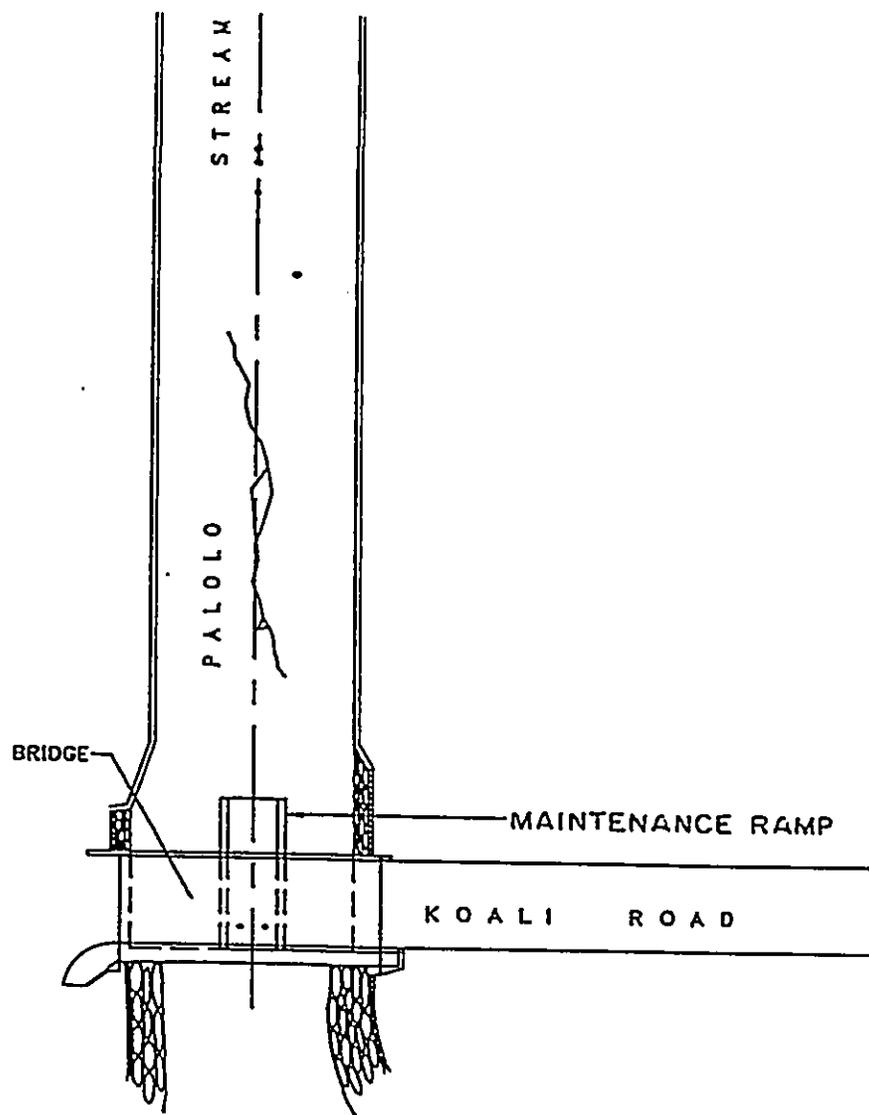
NOT TO SCALE

APPENDIX C



SLOPE REPAIR ALONG MAINTENANCE RAMP AT WAIKAHA PLACE

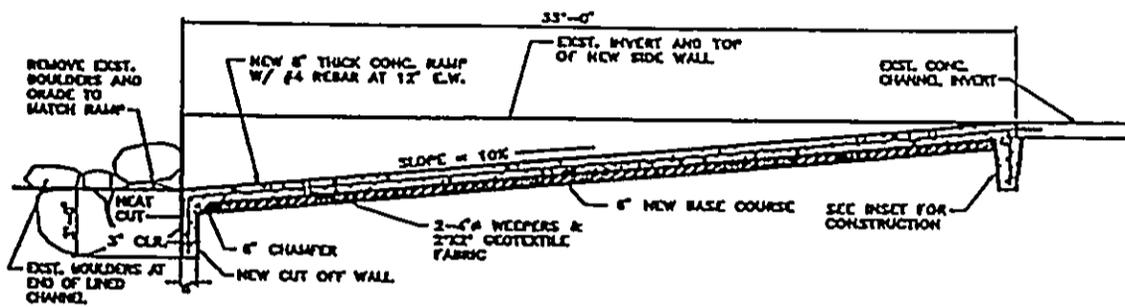
APPENDIX C



PLAN OF MAINTENANCE RAMP AT KOALI ROAD

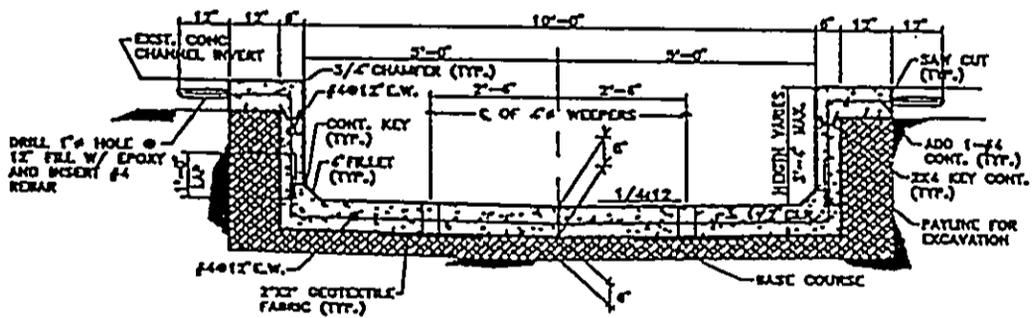
SCALE 1" = 40'-0"

APPENDIX C



RAMP ELEVATION

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



TYPICAL RAMP SECTION

SCALE: 1/2" = 1'-0"

APPENDIX C

APPENDIX D
COMMENTS

JOHN WAIHEE
GOVERNOR OF HAWAII



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

DIR S22
[Signature]

94-2468

PETER A. SYBINSKY, Ph.D.
DIRECTOR OF HEALTH

In reply, please refer to:

August 12, 1994

91-281/epo

Mr. Kenneth E. Sprague
Director and Chief Engineer
Department of Public Works
650 South King Street
Honolulu, Hawaii 96813

Dear Mr. Sprague:

Subject: Environmental Assessment for the Manoa-Palolo
Stream Maintenance Ramps and the Drainage Canal
Lining Repairs
TMK: 2-7-27 and 2-8-27

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

Sincerely,

[Signature]
PETER A. SYBINSKY, Ph.D.
Director of Health

c:

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PLANNING DEPARTMENT
CITY AND COUNTY OF HONOLULU

630 SOUTH KING STREET
HONOLULU, HAWAII 96813

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DIV. OF ENGINEERING

FRANK F. FASI
MAYOR

JUL 19 12 47 PM '94



July 18, 1994

JUL 19 3 21 AM '94

ROBIN FOSTER
CHIEF PLANNING OFFICER

ROLAND D. LIBBY, JR.
DEPUTY CHIEF PLANNING OFFICER
TH 7/94-3904

94-2015
D. W. Ah
Eng

MEMORANDUM

TO: KENNETH E. SPRAGUE, DIRECTOR AND CHIEF ENGINEER
DEPARTMENT OF PUBLIC WORKS

FROM: ROBIN FOSTER, CHIEF PLANNING OFFICER
PLANNING DEPARTMENT

SUBJECT: DRAFT ENVIRONMENTAL ASSESSMENT (EA) FOR MANOA STREAM
AND MANOA-PALOLO DRAINAGE CANAL LINING REPAIRS AND
RECONSTRUCTION

In response to your memorandum of July 5, 1994, we have reviewed the subject EA and offer the following:

1. We have no objections to the proposed project.
2. Repairs and reconstruction to portions of the Manoa Stream and Manoa-Palolo drainage canals are considered minor. Therefore, an amendment to the Primary Urban Center Development Plan Public Facilities Map will not be required.

Should you have any questions, please contact Tim Hata of our staff at 527-6070.


ROBIN FOSTER
Chief Planning Officer

RF:js



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United States Department of the Interior

JUL 27 1 30 PM '94
FISH AND WILDLIFE SERVICE
Pacific Islands Ecoregion
300 Ala Moana Blvd, Room 6307
P.O. Box 50167
Honolulu, Hawaii 96850

94-2120

In Reply Refer To: CAW

JUL 26 1994

Mr. Kenneth E. Sprague
Director and Chief Engineer
Department of Public Works
City and County of Honolulu
650 South King Street
Honolulu, Hawaii 96813

em/ah
ENG

RECEIVED
DIV. OF ENGINEERING
JUL 28 9 52 AM '94

Re: Environmental Assessment for the proposed Manoa-Palolo Stream Maintenance Ramps,
Manoa, Oahu, Hawaii (94-11-0123)

Dear Mr. Sprague:

The U. S. Fish and Wildlife Service (Service) has reviewed the Environmental Assessment (EA) for the Manoa-Palolo Stream Maintenance Ramps, Manoa, Oahu, Hawaii. The project sponsor is the Department of Public Works, City and County of Honolulu. The Service offers the following comments for your consideration.

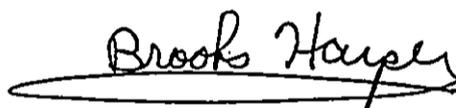
The proposed project would involve two sites: Waiaka Place and Koali Road. The work at Waiaka Place would include the construction of a reinforced concrete maintenance access ramp into Manoa-Palolo Stream and an approach road beginning at the end of Waiaka Place. The work at Koali Road would include repairs to the existing concrete channel invert, placement of boulder rip-rap into a section of the invert, and construction of a reinforced concrete maintenance ramp at the end of the concrete lined section of invert.

The EA inadequately describes the flora, fauna, and habitats that exist at the proposed project site. Nevertheless, based on the Service's knowledge of the site and on discussions with Hawaii Division of Aquatic Resources staff, no significant adverse effects on fish and wildlife resources are expected to result from the proposed work. Therefore, the Service would concur with a Negative Declaration finding and determination that an environmental impact statement is not required for the project.

Environmental Assessment
Manoa-Palolo Stream Maintenance Ramps
Manoa, Oahu, Hawaii (94-11-0123)

The Service appreciates the opportunity to provide comments on the proposed project. If you have questions regarding these comments, please contact Fish and Wildlife Biologist Christine Willis at 808/541-3441.

Sincerely,

A handwritten signature in cursive script that reads "Brooks Harper". The signature is written in dark ink and is underlined with a single horizontal stroke.

Brooks Harper
Field Supervisor
Ecological Services

CC: DAR, Hawaii
CZMP, Hawaii
CWB, Hawaii

DOCUMENT CAPTURED AS RECEIVED

JOHN WAHNE
GOVERNOR OF HAWAII

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JUL 22 1 41 PM '94



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

P. O. BOX 621
HONOLULU, HAWAII 96809

KEITH W. AHUE, CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES

DEPUTIES
JOHN P. KEPPELER, II
DONAL L. HANA'IKE

AQUACULTURE DEVELOPMENT PROGRAM
AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
CONSERVATION AND ENVIRONMENTAL AFFAIRS
CONSERVATION AND RESOURCES ENFORCEMENT
CONVEYANCES
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
LAND MANAGEMENT
STATE PARKS
WATER AND LAND DEVELOPMENT

94-2074
erwah
ms

REF:OCEA:DKP

FILE NO.: 94-726
DOC. ID.: 4680

JUL 21 1994

RECEIVED
DIV. OF ENVIRONMENTAL AFFAIRS
JUL 25 8 28 AM '94

Honorable Kenneth E. Sprague
Director and Chief Engineer
Department of Public Works
City and County of Honolulu
650 South King Street
Honolulu, Hawaii 96813

Dear Mr. Sprague:

Subject: Environmental Assessment (EA): Manoa - Palolo Stream
Maintenance Ramps, Honolulu, Oahu; TMK: 2-7-27, 2-7-28

We have reviewed the application information for the subject project transmitted by your memorandum dated June 8, 1994 and have the following comments:

Division of Aquatic Resources

The Division of Aquatic Resources (DAR) comments that the applicant should be advised that the "Description of the Affected Environment" was of such poor quality that it would normally be unacceptable. DAR is, however, sufficiently familiar with the degraded nature of the area that they are assured the proposed project would not further impair the streams and could actually represent an improvement, because the disruptions associated with periodic installation and removal of the temporary access ramp would be eliminated.

Commission on Water Resource Management

The Commission on Water Resource Management (CWRM) confirms that a Stream Channel Alteration Permit (SCAP) is necessary for this project.

Mr. Sprague

- 2 -

File No.: 94-726

Historic Preservation Division

The Historic Preservation Division (HPD) comments that a review of their records shows that there are no known historic sites at the proposed project locations. The project involves improvements to existing channel inverts and walls, and construction of permanent access ramps to replace temporary access ramps. Since it is unlikely that historic sites remain, HPD believes that the standard construction contract provision in the EA provides an adequate basis for mitigating possible adverse effects, should historic sites be inadvertently discovered. Therefore, HPD believes that this project will have "no effect" on historic sites.

We have no other comments to offer at this time. Thank you for the opportunity to comment on this matter.

Please feel free to call Steve Tagawa at our Office of Conservation and Environmental Affairs, at 587-0377, should you have any questions.

Very truly yours,



Handwritten signature of Keith W. Ahue in cursive script.

KEITH W. AHUE



RECEIVED
 DEPARTMENT OF THE ARMY OF PUBLIC WORKS
 U.S. ARMY ENGINEER DISTRICT, HONOLULU
 FORT SHAFTER, HAWAII 96858-5440



RECEIVED
 DIV. OF ENGINEERING August 31, 1994
 REPLY TO ATTENTION OF SEP 1 4:33 PM '94
 Operations Division

SEP 2 2 01 PM '94

94-2633
219

Mr. Kenneth E. Sprague
 Director and Chief Engineer
 Department of Public Works
 City and County of Honolulu
 650 South King Street
 Honolulu, Hawaii 96813

Dear Mr. Sprague:

This is in response to your request for Department of the Army (DA) authorization to perform modifications and repairs to existing structures at Manoa and Palolo Streams, Moilili, Oahu, Hawaii.

At Waiaka Place all work associated with the Manoa Stream project is above the ordinary highwater mark, and no DA permit is required.

The proposed work at Koali Road Bridge, the Palolo Stream project location, involves repairing cracks to the concrete invert and modifying approximately 330 sq. ft. of concrete invert to function as a ramp. The total fill material placed below the ordinary highwater mark will be less than 25 cubic yards. Based on the information submitted, all regulated work is within the footprint of existing structures; therefore, I have determined that the proposed work at the Koali Road Bridge can be authorized by the Corps Nationwide permit (NWP) authority in accordance with Federal Regulations at 33 CFR 330, Appendix A, paragraphs B. 18. & 33., for minor discharges into all waters of the United States, and temporary structures and discharges necessary for dewatering of construction activities. No further Department of the Army processing is necessary; however, the authorization will not be valid until you have obtained the required Section 401 water quality certification (WQC) or waiver from the State Department of Health, and Coastal Zone Management (CZM) consistency certification from the Office of State Planning.

Until the WQC and CZM certifications or waivers are received, I am issuing provisional nationwide authorization for the proposed work at Koali Road Bridge. If the State issues the certifications or waivers, this authorization will take effect upon issuance of both certifications and will

remain valid for two years, unless the NWP is modified, suspended, or revoked. If, within this two-year period, the NWP authorization is reissued without modification or if the activity complies with any subsequent modification of the NWP authorization, this verification will continue to be valid for the remainder of the two year period.

Excerpts from the regulations which list the conditions and management practices of this authorization are enclosed for your information and compliance. In addition to these conditions and management practices, you are advised that:

- a. Nationwide permits do not obviate the need to obtain other Federal, state or local authorizations required by law.
- b. Nationwide permits do not grant any property rights or exclusive privileges.
- c. Nationwide permits do not authorize any injury to the property or rights of others.
- d. Nationwide permits do not authorize interference with any existing or proposed Federal project.

File number NW 94-061 was assigned to this project. Please refer to this number in any future inquiries or correspondence.

Sincerely,



Michael T. Lee
Chief, Operations Division

Enclosures

Copy Furnished (without enclosures):

Clean Water Branch, State Dept. of Health, 919 Ala Moana
Blvd., Third Floor, Honolulu, HI
Office of State Planning, CZM Program Office, P.O. Box 3540,
Honolulu, Hawaii 96811-3540