

BENJAMIN CAYETANO
GOVERNOR



KAZU HAYASHIDA
DIRECTOR

DEPUTY DIRECTORS
SAM CALLEJO
GLENN M. OKIMOTO

RECEIVED

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
869 PUNCHBOWL STREET
HONOLULU, HAWAII 96813-5097

95 JUN -2 P12:29 IN REPLY REFER TO:
HWY-DD
2.5820
OFFICE OF ENVIRONMENTAL
QUALITY CONTROL

May 18, 1995

MEMORANDUM:

TO: GARY GILL, DIRECTOR
OFFICE OF ENVIRONMENTAL QUALITY CONTROL

FROM: *for* *Stuart H. Monahan*
HUGH V. ONO, ADMINISTRATOR
HIGHWAYS DIVISION

SUBJECT: KAMEHAMEHA HIGHWAY DRAINAGE IMPROVEMENTS
VICINITY OF SUNSET BEACH ELEMENTARY SCHOOL
PROJECT NO. 83B-03-94, KOOLAULOA, OAHU
TMK: 5-9-01, 02, 05, 13, 14, 16
FINAL ENVIRONMENTAL ASSESSMENT

We are notifying you that an Environmental Impact Statement (EIS) is not required for the subject project and are filing a negative declaration for this project. Enclosed are four (4) copies of the negative declaration.

Please contact Ross Hironaka at 587-2250 (fax 587-2343) if you have any questions.

Enc.

61

1995-06-23-0A-*FEA-Kamehameha Hwy Drainage Improvement*
of Sunset Beach Elementary School JUN 23 1995 2-8

FINAL ENVIRONMENTAL ASSESSMENT
NEGATIVE DECLARATION
for
KAMEHAMEHA HIGHWAY DRAINAGE IMPROVEMENTS
VICINITY OF SUNSET BEACH ELEMENTARY SCHOOL
PROJECT NO. 83B-03-94
Koolauloa, Oahu
TMK: 5-9-01, 02, 05, 13, 14, 16

May 18, 1995

Proposing Agency: Department of Transportation, Highways
Division

Agencies consulted:

Federal:

Department of the Army
U.S. Army Engineer District, Honolulu
U.S. Department of Commerce
National Marine Fisheries Service
U.S. Department of the Interior
Fish and Wildlife Services

State:

Department of Business, Economic Development and
Tourism
Land Use Commission
Department of Health
Environmental Management Division
Department of Land and Natural Resources
State Historic Preservation Division
Conservation and Environmental Affairs
Department of Accounting and General Services
Office of State Planning

City & County of Honolulu:

Department of Land Utilization
Department of Parks and Recreation
Department of Public Works
Board of Water Supply
Department of Wastewater Management
Department of Transportation Services

Utilities contacted:

Hawaiian Electric Company, Ltd
GTE Hawaiian Tel
Gasco, Inc
Oceanic Cable

Project Characteristics:

General:

The State of Hawaii, Department of Transportation, Highways Division proposes to improve drainage at Kamehameha Highway in Sunset Beach fronting Sunset Beach Elementary School, Ke Nui Road/Paumalu Bridge and the Hoalua Street areas.

Technical:

Proposed are the following improvements:

(1) approximately 1,750 feet of concrete jacketed 24-inch pipe and 2,000 feet lined gutter with grated drop inlet from Pakulena Gulch to Sunset Beach Elementary School along the south shoulder edge.

(2) on the north shoulder edge, 750 feet of lined gutter with GDI; drainage flow to be directed to outlet at Pakulena Gulch within the existing highway right of way. Fill will not be required in the gulch and the existing wing structure will be restored as necessary after the new pipe outlet is installed.

(3) approximately 150 feet of 24-inch ASRP and 280 feet long lined gutter with GDI along Kamehameha Highway's south shoulder edge near the intersection of Kahauola and Hoalua Street; drainage flow directed to an existing outlet in an existing drainage easement opposite the intersection (on the north side of the highway).

(4) approximately 1500 feet of 24-inch reinforced concrete pipe will be installed along the north right of way boundary of Kamehameha Highway on the Haleiwa side of Paumalu (Bridge) Gulch. Additional fill is not required in Paumalu Gulch and the existing wing structure will be restored as necessary after the new pipe outlet is installed.

Lined gutter and grated drop inlets to be used on the project are designed to accommodate pedestrian and bicyclist traffic.

Improvements will be constructed within the existing roadway right-of-way or existing drainage easement.

Construction of drainage facilities will require relocation of utilities, i.e. U.S. Army Signal Corps cable and water supply facilities.

Economic:

The estimated construction cost to the State of Hawaii for the proposed project will be \$1.3 million.

Socio-economic:

The project sites are located within the State Land Use Urban District or Agricultural District. Drainage facilities are allowed.

Traffic safety and comfort will be enhanced for pedestrians and bicyclists as well as motorists, if ponding is alleviated along the highway edge.

Grated drop inlets designed with pedestrian and bicyclist safety in mind provide for safer travel along the highway shoulder.

Abutting properties will not be subject to significant adverse impact as a result of the project.

Environmental:

Construction of the proposed project will not adversely affect any endemic flora or fauna.

Summary of the Affected Environment

The highway drainage improvements will enhance motorist, pedestrian and bicyclist traffic within the area concerned, while having no long-term adverse impacts.

Endangered flora, fauna, critical habitats, historical/archaeological and cultural sites are not involved since improvements will be made within an existing highway right of way and/or adjacent easement.

The stream beds which may be located on and/or adjacent to the project site are classified as intermittent and may be potential habitat for native fauna during times of flow.

Summary of Major Impacts

Short Term

During construction, the following minor adverse impacts may occur:

Dust
Noise
Traffic slow down
Temporary detour

Long Term

No significant adverse impact is anticipated in the following conditions due to construction of the proposed project:

Air Quality
Noise
Archaeological
Flora
Fauna
Visual

Proposed Mitigation Measures During Construction:

1. Appropriate measures to alleviate dust and noise will be utilized.
2. Appropriate temporary and construction traffic control measures will be utilized.
3. Minimizing erosion and siltation during construction will include:
 - a. scheduling site work during periods of minimum rainfall;
 - b. replanting or covering lands denuded of vegetation as quickly as possible; and
 - c. preventing construction materials, petroleum products and debris from falling, blowing or leaching into the aquatic environment.

Determination

The proposed project will not cause significant adverse environmental impact and a negative declaration is applicable.

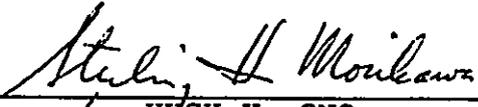
Findings and Reasons Supporting Determination

The proposed project will not:

1. involve an irrevocable commitment to loss or destruction of any natural or cultural resource.
2. curtail the range of beneficial uses of the environment.
3. conflict with the State's long-term environmental policies.
4. detrimentally affect the economic or social welfare of the community or State.
5. detrimentally affect the public health.
6. involve substantial secondary impacts, such as population changes or effects on public facilities.
7. involve a substantial degradation of environmental quality.
8. affect any rare, threatened, or endangered species of flora and fauna or habitat.
9. detrimentally affect environmentally sensitive areas such as flood plain, tsunami zone, erosion-prone flood area, geologically hazardous land, estuary, fresh water or coastal water.
10. detrimentally affect air or water quality or ambient noise levels.

For the reasons above, the proposed project will not have any significant effect in the context of Chapter 343, Hawaii Revised Statutes and Section 11-200-12 of the State Administrative Rules.

RECEIVED AND ACCEPTANCE RECOMMENDED:



for HUGH Y. ONO
Administrator
Highways Division

24 May 95
Date

CONCURRENCE:



KAZU HAYASHIDA
Director of Transportation

26 May 95
Date

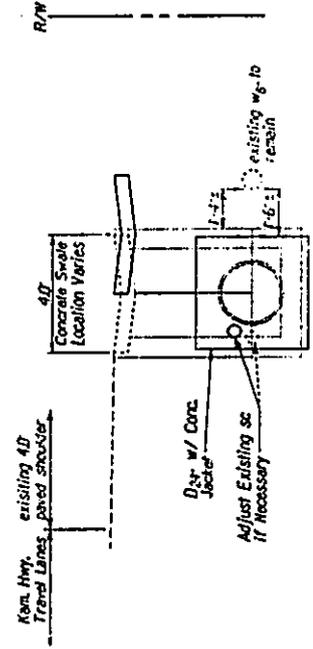
FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
100-0-0	FLA.	63B-03-94	895	0

GENERAL PROJECT NOTES

1. The scope of work for this project consists of constructing drainage pipe culvert, concrete gutter and grated drop inlet.
2. Contractor shall restore areas disturbed by its operations, including replanting or covering lands where vegetation is removed to the satisfaction of the Engineer in the field. Cost for this work will be considered incidental to the various contract items.

LEGEND

- Existing Electrical Line
- Existing Power Pole
- Existing Signal Corps Line
- Existing 12" Water Line
- Existing Water Manhole
- Existing Water Valve Box
- Existing Fire Hydrant
- Existing Sewer Line
- Existing Sewer Manhole
- Existing Monument
- Existing 24" Drain Line
- New 24" RCP Drain Line
- Existing Storm Drain Manhole
- Adjusted Storm Drain MH Frame/Cover
- New Storm Drain Manhole
- Existing Grated Drop Inlet
- New Grated Drop Inlet
- Existing Catch Basin
- New Catch Basin
- Existing Traffic Sign



STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES & LEGEND

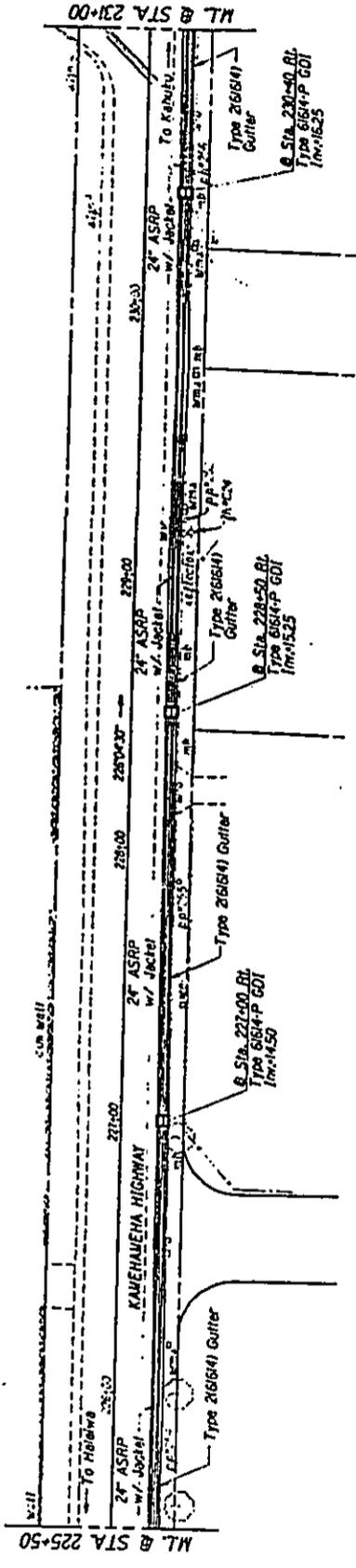
KABEYANEMHA HWY. DRAINAGE IMP.
VIC. OF SUNSET BEACH ELEMENTARY SCHOOL
Project No. 63B-03-94

Date Apr. 1995

DATE	BY	CHKD.	APP'D.

Atch 2

PROJECT NO.	038-03-54
DATE	1995
SHEET NO.	0
TOTAL SHEETS	0



- Sta. 227+00 RL
 Construct Type 6164-P GDI
 Install 24" ASRP, Sh. "1-0.05"
 Estimated Quantities
 Structure Etc. : 108 CF.
 24" Culvert : 146 LF.
 Type 6164-P GDI
 (1,00 ft. to 299 ft.) • 1 Ea.
- Sta. 228+50 RL to Sta. 228+05.5 RL
 Construct Gutter, Type 26184)
 (For Detail of Combination Jacket
 and Gutter see Sh. No. H19)
- Sta. 228+50 RL
 Construct Type 6164-P GDI
 Install 24" ASRP, Sh. "1-0.05"
 Estimated Quantities
 Structure Etc. : 155 CF.
 24" Culvert : 106 LF.
 Type 6164-P GDI
 (1,00 ft. to 399 ft.) • 1 Ea.
- Sta. 228+05.5 RL to Sta. 231+00 RL
 Construct Gutter, Type 26184)
 (For Detail of Case 1 see Sh.
 No. H19)
 Estimated Quantities
 Type 26184) Gutter • 295 LF.
- Sta. 230+40 RL
 Construct Type 6164-P GDI
 Install 24" ASRP, Sh. "1-0.05"
 Estimated Quantities
 Structure Etc. : 144 CF.
 24" Culvert : 141 LF.
 Type 6164-P GDI
 (1,00 ft. to 399 ft.) • 1 Ea.

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
DRAINAGE PLAN
 KAMEHAMEHA HWY. DRAINAGE IMP.
 VIA. OF SENIOL BEARD ELEMENTARY SCHOOL
 PROJECT NO. 038-03-54
 Scale 1"=20' Date Sep. 99
 SHEET No. 02 OF 22 SHEETS

DATE	1995
BY	
CHECKED	
APPROVED	

Atch 4

DATE	1995	SHEET	0	TOTAL	0
PROJECT NO.	015-01-34	DATE	1995	NO.	0

@ Sta. 231+45 L.L.
 Construct: Type 26684-P GDI
 Install: 18" ASRP, Sht. T-0005"
 w/ Jacket
 Estimated Quantities
 Structure Etc. : 23 CY,
 18" Culvert : 30 LF,
 Type 26684-P GDI
 1200 ft. to 259 ft. : 1 Ea.

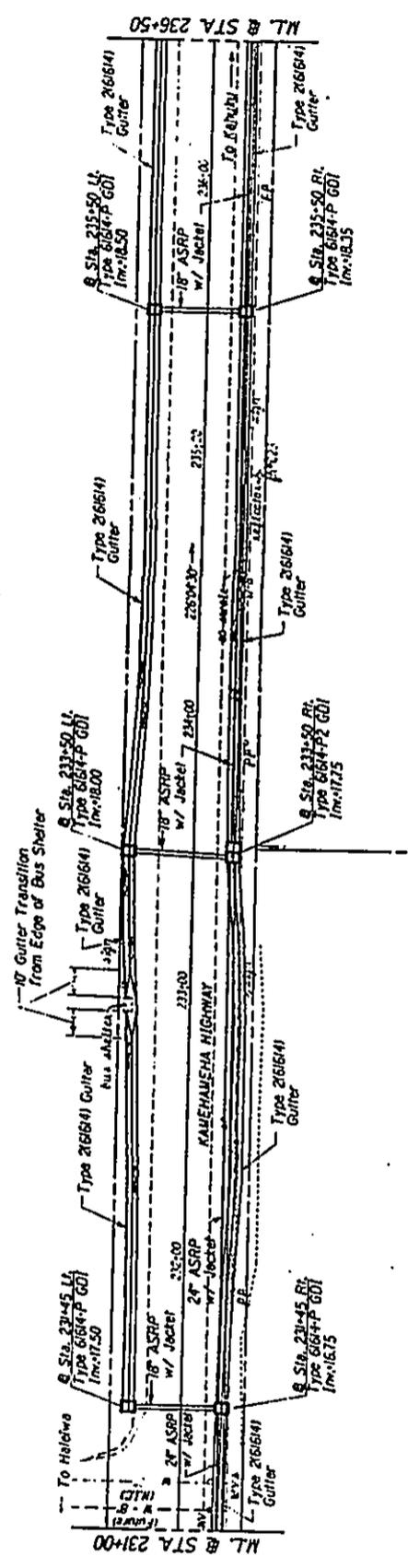
@ Sta. 231+50 L.L.
 Construct: Type 26684-P GDI
 Install: 18" ASRP, Sht. T-0005"
 w/ Jacket
 Estimated Quantities
 Structure Etc. : 29 CY,
 18" Culvert : 35 LF,
 Type 26684-P GDI
 1200 ft. to 259 ft. : 1 Ea.

@ Sta. 231+45 L.L.
 Construct: Type 26684-P GDI
 Install: 18" ASRP, Sht. T-0005"
 w/ Jacket
 Estimated Quantities
 Structure Etc. : 20 CY,
 18" Culvert : 31 LF,
 Type 26684-P GDI
 1300 ft. to 359 ft. : 1 Ea.

@ Sta. 231+45 L.L. to @ Sta. 236+50 L.L.
 Construct: Gutter, Type 26684
 (For Detail of Case 1 see Sht. No. H19)
 Estimated Quantities
 Type 26684 Gutter : 505 LF.

@ Sta. 231+45 L.L.
 Construct: Type 26684-P GDI
 Install: 24" ASRP, Sht. T-0005"
 w/ Jacket
 Estimated Quantities
 Structure Etc. : 205 CY,
 24" Culvert : 20 LF,
 Type 26684-P GDI
 1300 ft. to 359 ft. : 1 Ea.

@ Sta. 231+00 R.L. to @ Sta. 236+50 R.L.
 Construct: Gutter, Type 26684
 (For Detail of Case 1 see Sht. No. H19)
 Estimated Quantities
 Type 26684 Gutter : 550 LF.



@ Sta. 235+50 R.L.
 Construct: Type 26684-P GDI
 Install: 18" ASRP, Sht. T-0005"
 w/ Jacket (Combination
 Jacked-outlet from @ Sta. 231+39+ R.L.
 to @ Sta. 236+00 R.L.
 (For Details see Sht. No. H19)
 Estimated Quantities
 Structure Etc. : 164 CY,
 18" Culvert : 246 LF,
 Type 26684-P GDI
 1200 ft. to 259 ft. : 1 Ea.

@ Sta. 231+50 R.L.
 Construct: Type 26684-P2 GDI
 Install: 18" ASRP, Sht. T-0005"
 w/ Jacket
 Estimated Quantities
 Structure Etc. : 147 CY,
 18" Culvert : 196 LF,
 Type 26684-P2 GDI
 1300 ft. to 359 ft. : 1 Ea.

@ Sta. 231+45 R.L.
 Construct: Type 26684-P GDI
 Install: 24" ASRP, Sht. T-0005"
 w/ Jacket
 Estimated Quantities
 Structure Etc. : 205 CY,
 24" Culvert : 20 LF,
 Type 26684-P GDI
 1300 ft. to 359 ft. : 1 Ea.

DIVISION OF TRANSPORTATION
 DEPARTMENT OF TRANSPORTATION
 HAWAII
DRAINAGE PLAN
 KAHEHAUENA HWT. DRAINAGE IMP.
 Via of BOSTON STREET ELEMENTARY SCHOOL
 Project No. 015-01-34
 Scale: 1"=30' Date: Sept. 1994
 SHEET No. 03 OF 22 SHEETS

Atch 5

PROJECT NO.	DATE	BY	CHECKED	DATE
018-0154	1995			

NO.	DATE	BY	REVISION
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Scale 1"=20'

DATE: 08-07-94

PROJECT NO. 018-0154

DRAINAGE PLAN

KAMEHAMEHA INTL. DRAINAGE IMP.

Via of Sunset Beach Elementary School

Scale 1"=20'

DATE: 08-07-94

PROJECT NO. 018-0154

DRAINAGE PLAN

KAMEHAMEHA INTL. DRAINAGE IMP.

Via of Sunset Beach Elementary School

Scale 1"=20'

DATE: 08-07-94

PROJECT NO. 018-0154

DRAINAGE PLAN

KAMEHAMEHA INTL. DRAINAGE IMP.

Via of Sunset Beach Elementary School

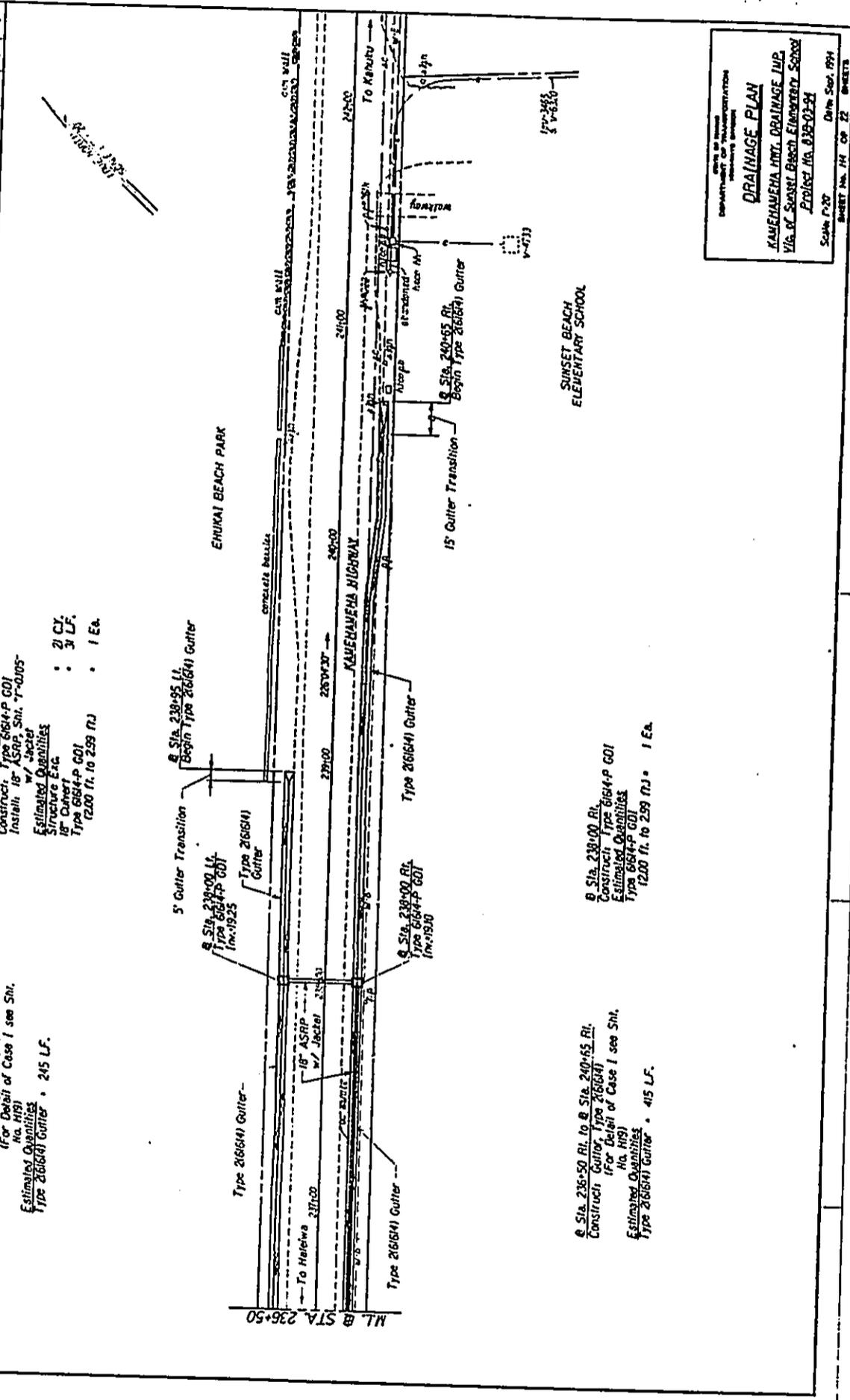
Scale 1"=20'

DATE: 08-07-94

PROJECT NO. 018-0154

DRAINAGE PLAN

KAMEHAMEHA INTL. DRAINAGE IMP.



Sta. 238+00 LL
Construct Type 2161841-P Gutter
Install 18" ASRP Sht. T-4005-
w/ 1/2" depth
Estimated Quantities
18" Curbs Etc. : 21 CF.
Type 2161841-P Gutter : 31 LF.
(200 ft. to 239 RJ) : 1 Ea.

Sta. 236+50 LL to Sta. 238+95 LL
Construct Gutter Type 2161841
For Detail of Case 1 see Sht.
No. H191
Estimated Quantities
Type 2161841 Gutter : 245 LF.

Sta. 238+95 LL
Construct Type 2161841 Gutter
Type 2161841 Gutter
Type 2161841-P Gutter
Type 2161841-P Gutter
(200 ft. to 239 RJ) : 1 Ea.

Sta. 238+00 RL
Construct Type 2161841-P Gutter
Estimated Quantities
Type 2161841-P Gutter : 1 Ea.

Sta. 238+95 RL
Construct Type 2161841-P Gutter
Estimated Quantities
Type 2161841-P Gutter : 415 LF.

Sta. 240+65 RL
Construct Type 2161841 Gutter
Estimated Quantities
Type 2161841 Gutter : 1 Ea.

NO.	DATE	BY	REVISION
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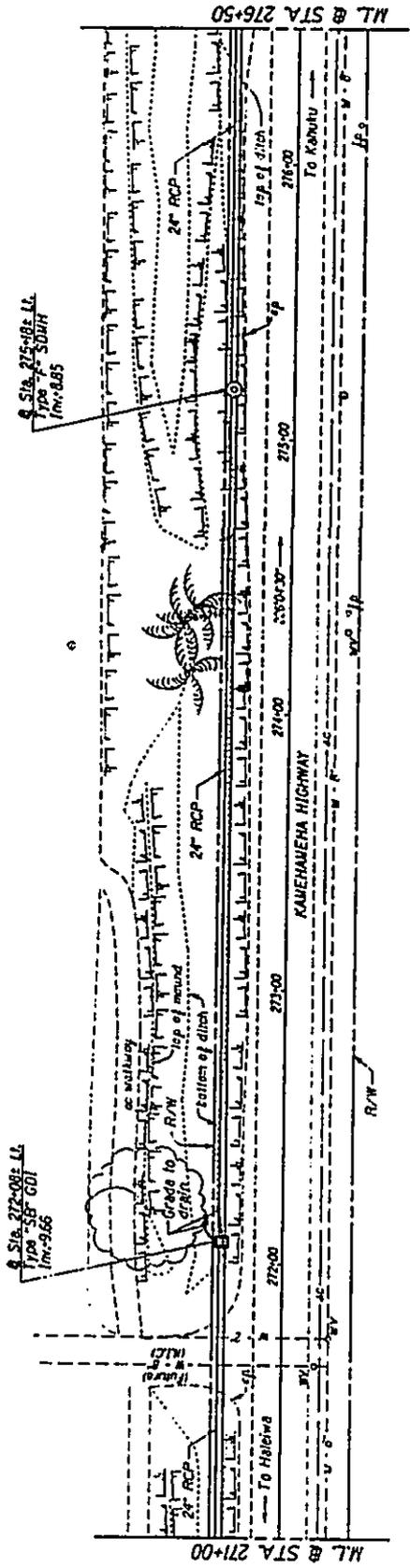
ATCH 6

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NO.	DATE	BY	REVISION
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Sta. 275+82 LL
 Construct Type "F" SDMH
 Install 24" RCP, Cl III
 Estimated Quantities
 Structure Erc. : 1091 CY.
 Bed Course Matl. : 60 CY.
 24" Culvert : 284 LF.
 Type "F" SDMH
 (15.00 ft. to 15.99 ft.) . 1 Ea.

Sta. 272+06 LL
 Construct Type "SB" GDI
 Install 24" RCP, Cl III
 Estimated Quantities
 Structure Erc. : 821 CY.
 Bed Course Matl. : 83 CY.
 24" Culvert : 366 LF.
 Type "SB" GDI
 (6.00 ft. to 6.99 ft.) . 1 Ea.

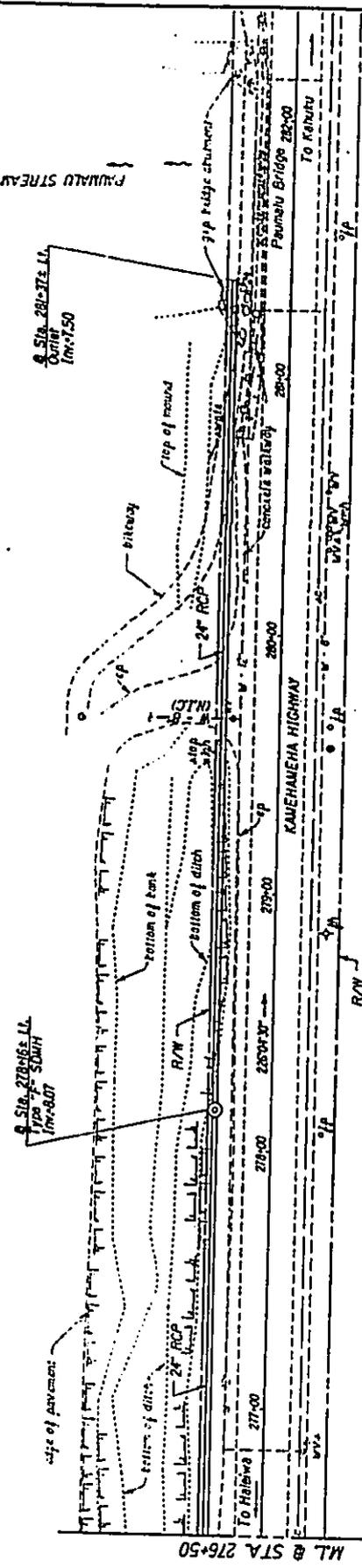


DEPARTMENT OF TRANSPORTATION
 HAWAII
DRAINAGE PLAN
 KAHEHAHEHA HWY. DRAINAGE IMP.
 VIC. OF SUWASEI BOSSO ELEMENTARY SCHOOL
 PROJECT NO. 038-02-24
 SCALE: 1"=20'
 DATE: MAR. 1995
 SHEET NO. 16 OF 22 SHEETS

Atch 8

NO.	DESCRIPTION	AMOUNT	DATE	BY	TOTAL
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Sta. 278+65. LL. to Sta. 281+37.5 LL.
 Construct: Type "F" SDUH
 Reconstruct: Outlet GRP Abutment
 Concrete Walkway
 Install: 24" RCP, Cl. III
 (Cut pipe flush with GRP Abutment)
 Estimated Quantities:
 Structure Exc. : 972 CY
 Bed Course Marl. : 64 CY
 24" Culvert : 34 LF.
 Type "F" SDUH
 (1400 ft. to 1499 ft.) : 1 Ea.

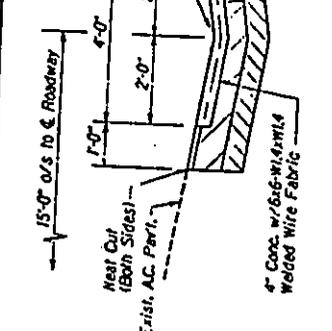


CITY OF HONOLULU
 DEPARTMENT OF TRANSPORTATION
 ENGINEERING DIVISION
DRAINAGE PLAN
 KAUIHANEHĀ HWY. DRAINAGE JUMP
 VEG. OF SUNSET BEACH ELEMENTARY SCHOOL
 Project No. 618-03-94
 Scale: 1"=20'
 Date: 11/19/94
 SHEET NO. 17 OF 22 SHEETS

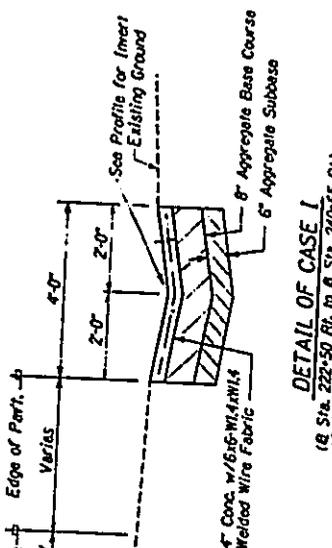
NO.	DESCRIPTION	AMOUNT	DATE	BY	TOTAL
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Attach 9

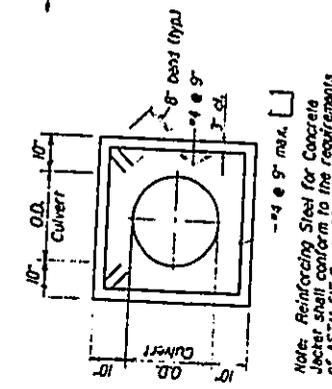
PROJ. NO.	STATE	FED. AID DIST. NO.	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
818-03-94	HI			225	0



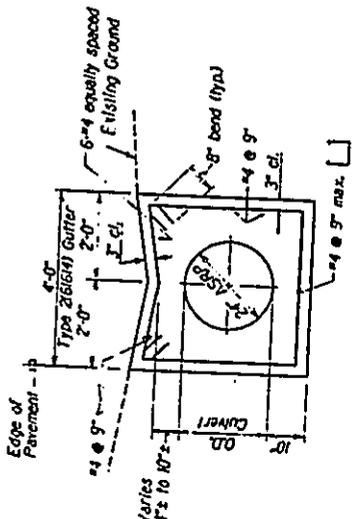
DETAIL OF CASE II
(@ Sta. 305+00 RT. to @ Sta. 307+55 RT.)
Scale: 3/4"=1'-0"



DETAIL OF CASE I
(@ Sta. 224+50 RT. to @ Sta. 240+65 RT.)
(@ Sta. 231+45 LT. to @ Sta. 238+95 LT.)
Scale: 3/4"=1'-0"

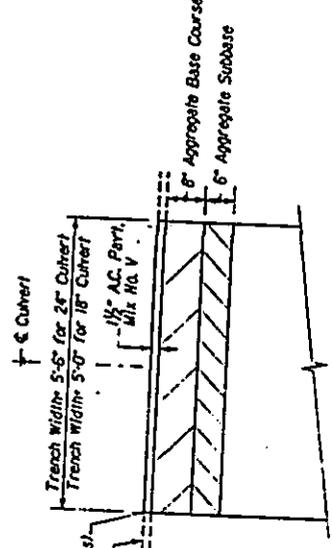


TYPICAL DETAIL OF REINFORCED CONCRETE JACKET
Scale: 3/4"=1'-0"



DETAIL OF COMBINATION REINFORCED CONCRETE JACKET AND GUTTER
Scale: 3/4"=1'-0"

AT @ STA. 224+07± RT. TO @ STA. 228+05± RT.
AND @ STA. 237+39± RT. TO @ STA. 238+00 RT.



RESTORATION OF PAVEMENT ON KAMEHAMEHA HIGHWAY
Scale: 1"=1'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
ROADWAY DIVISION

DRAINAGE DETAILS

KAMEHAMEHA HWY. DRAINAGE IMP.
Via of Sunset Beach Elementary School
Project No. 818-03-94

Scale: As Shown Date: Oct. 1994
SHEET No. 225 OF 22 SHEETS

ATC/N

HWY-DD
2.5401

April 25, 1995

Mr. Patrick T. Onishi, Director
Department of Land Utilization
City and County of Honolulu
650 South King Street
Honolulu, Hawaii 96813

Attention: Environmental Review Branch

Dear Mr. Onishi:

Subject: Letter 94-08206(DT) on Kamehameha Highway Drainage
Improvements, Vicinity of Sunset Beach Elementary
School, Project No. 83B-03-94, Koolauloa, Oahu

Thank you for your determination that the project is exempt
from Special Management Area permit requirement.

Very truly yours,



HUGH Y. ONO
Administrator
Highways Division

Atch 12

DEPARTMENT OF LAND UTILIZATION
CITY AND COUNTY OF HONOLULU450 SOUTH KING STREET
HONOLULU, HAWAII 96813 • (808) 523-4432JEREMY HARRIS
MAYORDONALD A. CLEGG
DIRECTORLORETTA K.C. CHEE
DEPUTY DIRECTOR

94-08206(DT)

November 22, 1994

The Honorable Rex D. Johnson, Director
Department of Transportation
State of Hawaii
Aliiaimoku Hale
869 Punchbowl Street
Honolulu, Hawaii 96813

Dear Mr. Johnson:

Special Management Area Review

Location : Along Kamehameha Highway, from Pakulena Gulch to Sunset Beach Elementary School and near the intersection of Kahauola and Hoalua Streets

Type of Project : Install lined gutter slopes and grated drop inlets within the existing Kamehameha Highway right-of-way or existing drainage easement

The above proposed project has been reviewed. We find that it:

- Is not within the Special Management Area.
- Is within the Special Management Area, but is not defined as "development" and is therefore, exempt (Section 25-1.3 (2)(M), Chapter 25, Revised Ordinances of Honolulu).

Should you have any questions, please contact the Environmental Review Branch at 523-4077.

Very truly yours,

A handwritten signature in cursive script, appearing to read "Loretta Chee".

DONALD A. CLEGG
Director of Land Utilization

DAC:am
0:04-08206.djt

Atch 13

HWY 7857
HWY-DD
2.5400

April 27, 1995

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

Attention: Mr. Alex Ho

Dear Mr. Sprague:

Subject: Kamehameha Highway Drainage Improvements,
Vicinity of Sunset Beach Elementary School,
Project No. 83B-03-94, Koolauloa, Oahu
Reference Letter Env 94-283 Dated December 2, 1994

Thank you for your review. The proposed drainage improvement
will enhance disposal of highway runoff.

Very truly yours,



HUGH Y. ONO
Administrator
Highways Division

AK/14

Hwy 7857

DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET
HONOLULU, HAWAII 96813

RECEIVED

DEC 5 12 57 PM '94



DEPT. OF TRANSPORTATION
HIGHWAYS DIVISION

KENNETH E. SPRAGUE
Acting DIRECTOR AND CHIEF ENGINEER
DARWIN J. HAMAMOTO
DEPUTY DIRECTOR
ENV 94-283

JEREMY HARRIS
MAYOR

December 2, 1994

RECEIVED
DEC 5 4 21 PM '94
DESIGN BRANCH
HIGHWAYS DIVISION
DEPT. OF TRANSPORTATION

Mr. T. Harano, Chief
Highway Division
Department of Transportation
State of Hawaii
869 Punchbowl Street
Honolulu, Hawaii 96813

Dear Mr. Harano:

Subject: Draft Environmental Assessment (DEA)
Kamehameha Highway Drainage Improvements,
Vicinity of Sunset Beach Elementary School
Tax Map Key: 5-9-05, 16 & 01

We have reviewed the subject DEA and wish to inform you that the existing drainage system is inadequate to handle the runoff.

Should you have any questions, please contact Mr. Alex Ho, Environmental Engineer, at 523-4150.

Very truly yours,

Kenneth E. Sprague
KENNETH E. SPRAGUE
Director and Chief Engineer

Afch15

HWY-DD
2.5396

April 27 1995

MEMORANDUM:

TO: ESTHER UEDA, EXECUTIVE OFFICER
LAND USE COMMISSION
DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT & TOURISM

FROM: HUGH Y. ONO, ADMINISTRATOR *Hugh Y. Ono*
HIGHWAYS DIVISION

SUBJECT: KAMEHAMEHA HIGHWAY DRAINAGE IMPROVEMENTS,
VICINITY OF SUNSET BEACH ELEMENTARY SCHOOL,
PROJECT NO. 83B-03-94, KOOLAULOA, OAHU
REFERENCE LETTER NO. 94-339-B

Thank you for your review and determination that Kamehameha Highway is within the State Land Use Urban and Agricultural Districts. We believe no further action is necessary.

Atch 16

HWY 7850
HWY-DD
2.5399

April 25, 1995

MEMORANDUM:

TO: THOMAS E. ARIZUMI, CHIEF
ENVIRONMENTAL MANAGEMENT DIVISION
DEPARTMENT OF HEALTH

FROM: HUGH Y. ONO, ADMINISTRATOR 
HIGHWAYS DIVISION

SUBJECT: DOH LETTER 94-259/EPO DATED NOVEMBER 23, 1994
FOR KAMEHAMEHA HIGHWAY DRAINAGE IMPROVEMENTS,
VICINITY OF SUNSET BEACH ELEMENTARY SCHOOL,
PROJECT NO. 83B-03-94, KOOLAULOA, OAHU

Thank you for your review and NPDES permit criteria. Based on the criteria provided, NPDES permit is not required and no further action is necessary.

Atch 17

JOHN WAIHEE
GOVERNOR OF HAWAII



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

July 7850

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

RECEIVED

DEC 2 3 23 PM '94

DESIGN BRANCH
HIGHWAYS DIVISION
DEPT. OF TRANSPORTATION
In reply, please refer to:

November 23, 1994

94-259/epo

Mr. T. Harano
Chief, Highways Division
Department of Transportation
869 Punchbowl Street
Honolulu, Hawaii

Dear Mr. Harano:

Subject: Draft Environmental Assessment

Kamehameha Highway Drainage Improvements,
Vicinity of Sunset Beach Elementary School,
Project No. 83B-03-94,
Island of Oahu,
TMK: 5-9-05: 16 & 01

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DEC 1 4 33 PM '94
DEPT. OF TRANSPORTATION
HIGHWAYS DIVISION

Thank you for allowing us to review and comment on the subject project. We have the following comments to offer:

Water Pollution

A National Pollutant Discharge Elimination System (NPDES) permit is required for any discharge to waters of the State including the following:

1. Storm water discharges relating to construction activities for projects equal to or greater than five acres;
2. Storm water discharges from industrial activities;
3. Construction dewatering activities;
4. Cooling water remediation activities;
5. Ground water remediation activities; and
6. Hydrotesting water.

Any person wishing to be covered by the NPDES general permit for any of the above activities should file a Notice of Intent with

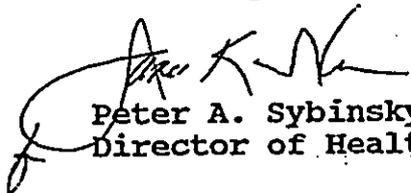
Atch 18

Mr. T. Harano
November 23, 1994
Page 2

the Department's Clean Water Branch at least 90 days prior to commencement of any discharge to waters of the State.

Any questions regarding this matter should be directed to Mr. Denis Lau of the Clean Water Branch at 586-4309.

Sincerely,


Peter A. Sybinsky, Ph.D.
Director of Health

c: CWB

Atch 19



DEPARTMENT OF BUSINESS,
ECONOMIC DEVELOPMENT & TOURISM

Central Pacific Plaza, 220 South King Street, 11th Floor, Honolulu, Hawaii
Mailing Address: P.O. Box 2359, Honolulu, Hawaii 96804 Telephone: (808) 586-2406 Fax: (808) 586-2377

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NOV 29 11 06 AM '94
DEPT. OF TRANSPORTATION
HIGHWAYS DIVISION

JOHN WARREN
Governor
JEANNE K. SCHULTZ
Director
RICK EGGER
Deputy Director
TAKESHI YOSHIMURA
Deputy Director

November 22, 1994

RECEIVED
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DESIGN: JIJIHO
HIGHWAYS DIVISION
DEPT. OF TRANSPORTATION

Mr. T. Harano
Chief, Highways Divisions
Department of Transportation
869 Punchbowl Street
Honolulu, Hawaii 96813-5097

Dear Mr. Harano:

The Department of Business, Economic Development & Tourism is pleased to submit the enclosed comments on the Draft Environmental Assessment for the Kamehameha Highway Drainage Improvements Vicinity of Sunset Beach Elementary School, Project No. 83B-03-94.

The comments were provided by the Land Use Commission. Questions regarding these comments may be directed to Esther Ueda, LUC Executive Officer at 587-3826.

Thank you for the opportunity to comment.

Sincerely,

Jeanne K. Schultz

Enclosure

Atch 20

HALE WAHIEE
GOVERNOR



ESTHER UEDA
EXECUTIVE OFFICER

STATE OF HAWAII
DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT & TOURISM
LAND USE COMMISSION
Room 104, Old Federal Building
335 Merchant Street
Honolulu, Hawaii 96813
Telephone: 587-3822

November 21, 1994

Subject: Director's Referral No. 94-339-B
Kamehameha Highway Drainage Improvements
Vicinity of Sunset Beach Elementary School,
Project No. 83B-03-94, District of Koolaupoko,
Island of Oahu, TMK: 5-9-05; 5-9-16; and 5-9-01
Draft Environmental Assessment

We have reviewed the draft environmental assessment and set of preliminary plans for the subject project and have the following comments to offer:

- 1) Based on the preliminary plans that depict the project locations on Kamehameha Highway, we confirm that portions of Kamehameha Highway are within the State Land Use Urban District and portions of the highway are within the State Land Use Agricultural District.

Specifically, for the project in the vicinity of Sunset Beach Elementary School, Kamehameha Highway is within the State Land Use Agricultural District and becomes within the State Land Use Urban District as it approaches Sunset Beach Elementary School. Upon passing the elementary school, the highway is again within the State Land Use Agricultural District.

In regards to the project in the vicinity of Hoalua Street, this section of Kamehameha Highway is within the State Land Use Agricultural District.

We have enclosed a portion of the Land Use District Boundary Map - O-3 (Waimea) with the approximate project locations highlighted in yellow for your information.

- 2) The project area in the vicinity of the elementary school is adjacent to a number of reclassifications made by the Commission. They are as follows:

Atch 21

Director's Referral No. 94-339-B
November 21, 1994
Page 2

- a) A72-324/Department of Accounting and General Services - reclassification from Agricultural to Urban of approximately 6.123 acres for establishment and operation of the Sunset Beach Elementary School.
- b) A84-579/PECA-IBEW Training Fund - reclassification of approximately 6.089 acres from Agricultural to Urban for a training facility.
- c) A93-700/Obayashi Hawaii Corporation - reclassification of approximately 57.3 acres from Agricultural to Urban for residential elderly housing, water reclamation facility and community facility.

The locations of the above reclassifications are also shown on the map provided.

We have no further comments to offer at this time.

EU:LRA:th

Atch 22

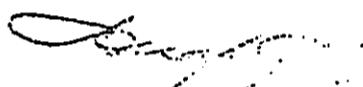
HWY 7920
HWY-DD
2.5398

April 27, 1995

MEMORANDUM:

TO: MICHAEL D. WILSON, CHAIRPERSON
DEPARTMENT OF LAND AND NATURAL RESOURCES

ATTN: ROGER C. EVANS, ADMINISTRATOR
OFFICE OF CONSERVATION & ENVIRONMENTAL AFFAIRS

FROM: HUGH Y. ONO, ADMINISTRATOR 
HIGHWAYS DIVISION

SUBJECT: KAMEHAMEHA HIGHWAY DRAINAGE IMPROVEMENTS,
VICINITY OF SUNSET BEACH ELEMENTARY SCHOOL,
PROJECT NO. 83B-03-94, KOOLAULOA, OAHU
REFERENCE LETTER OCEA:DKP

Thank you for your review. Additional erosion and siltation
measures recommended will be included in the project document.

Atoh 24

BENJAMIN J. CAYETANO
GOVERNOR OF HAWAII



Hwy 1920
KEITH W. AHUE, CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
DEPUTIES
JOHN P. KEFFELER, II

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DEC 30 10 37 AM '94
STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DESIGN BRANCH
HIGHWAYS DIVISION
DEPT. OF TRANSPORTATION
P. O. BOX 621
HONOLULU, HAWAII 96809

AGRICULTURE 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

REF:OCEA:DKP

DEC 23 1994

FILE NO.: 95-239
DOC. NO.: 5212

MEMORANDUM

TO: Director
Department of Transportation (DOT)

ATTN: T. Harano, Chief
Highways Division, DOT

FROM: Keith W. Ahue, Chairperson *KA*
Board of Land and Natural Resources

SUBJECT: Kamehameha Highway Drainage Improvements in the Vicinity of
Sunset Beach Elementary School, Sunset Beach, Koolauloa, Oahu,
TMKs: 5-9-01; 05; 16

RECEIVED
DEC 28 4 04 PM '94
DEPT. OF TRANSPORTATION
HIGHWAYS DIVISION

We have the Draft Environmental Assessment (DEA) for the subject project transmitted by your letter dated November 1, 1994, and have the following comments:

Division of Aquatic Resources

The Division of Aquatic Resources (DAR) comments that since the drainage improvements will be constructed within the existing roadway right-of-way or existing drainage easements, ~~this project is not expected to have significant adverse impact on aquatic resource values in this area.~~

However, in regard to the several stream beds located on and/or adjacent to the project site, these stream beds are classified as intermittent and therefore have the potential to provide habitat for native freshwater fauna that recruit from the ocean during times of flow. This is a good probability since adjacent Waimea River is known to harbor native freshwater species. Although, intermittent streams do not have a consistent flow of water to the ocean all year round, the upper reaches may contain areas that do flow or have pockets of water that provide habitat for native freshwater fauna to flourish.

DOT should therefore employ measures that would guard against the release of sediment, pollutants, and debris from construction activities which could enter the ocean or streams.

Arch 25

In this regard, the following additional measures to minimize erosion and siltation during construction should be included:

- 1) Site work should be scheduled for periods of minimal rainfall;
- 2) Lands denuded of vegetation should be replanted or covered as quickly as possible to control erosion; and
- 3) Construction materials, petroleum products, and debris should be prevented from falling, blowing, or leaching into the aquatic environment.

We will forward any Commission on Water Resource Management and Historic Preservation Division comments as they become available.

We have no other comments to offer at this time. Thank you for your cooperation on this matter.

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

Atch 26

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DESIGN BRANCH
HIGHWAYS DIVISION
DEPT. OF TRANSPORTATION

HWY 2224
HWY-DD
2.5397

May 2, 1995

MEMORANDUM:

TO: DON HIBBARD, ADMINISTRATOR
STATE HISTORIC PRESERVATION DIVISION
DEPARTMENT OF LAND AND NATURAL RESOURCES

FROM: HUGH Y. ONO, ADMINISTRATOR
HIGHWAYS DIVISION

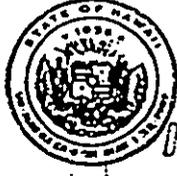
SUBJECT: KAMEHAMEHA HIGHWAY DRAINAGE IMPROVEMENTS,
VICINITY OF SUNSET BEACH ELEMENTARY SCHOOL,
PROJECT NO. 83B-03-94, KOOLAULOA, OAHU
REFERENCE LOG NO.: 13206, DOC NO.: 9412EJ04,
DATED DECEMBER 8, 1994

Thank you for your review and "no-effect" determination. Procedures for unanticipated archaeological findings during construction, including work stoppage and DLNR Archaeologist notification, are included in the applicable State Department of Transportation Standard Specifications.

Atch 27

BENJAMIN J. CAYETANO
GOVERNOR OF HAWAII

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HIGHWAYS DIVISION
DEPT. OF TRANSPORTATION



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DEPT. OF TRANSPORTATION
HIGHWAYS DIVISION

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

December 8, 1994

STATE HISTORIC PRESERVATION DIVISION
33 SOUTH KING STREET, 6TH FLOOR
HONOLULU, HAWAII 96813

HW/D2224
KEITH AIRIKI, CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCE
DEPUTIES
JOHN P. KEPPELER II

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

T. Harano, Chief
Highways Division
State of Hawaii
Department of Transportation
869 Punchbowl Street
Honolulu, Hawaii 96813-5097

LOG NO: 13206
DOC NO: 9412EJ04

Dear Mr. Harano:

SUBJECT Kamehameha Highway Drainage Improvements: Vicinity of Sunset Beach Elementary School. Project No. 83B-03-94
Pupukea-Paumalu, Ko'olauloa, O'ahu
TMK: 5-9-05, 16, 01

Thank you for the opportunity to review this project which proposes drainage improvements along Kamehameha Highway in the vicinity of Sunset Beach Elementary School and the Hoalua Street area. A review of our records shows that there are no known historic sites along the project corridors. Since improvements will be made to existing roadways and drainage easements, where it is unlikely that historic sites will be found, we believe that this project will have "no effect" on historic sites.

It is possible that historic sites, including human burials, will be uncovered during routine construction activities. Should this be the case all work in the vicinity must stop and the Historic Preservation Division must be contacted at 587-0047.

Sincerely,

Don Hibbard, Administrator
Historic Preservation Division

EJ:jk

Atch 28

HWY #7849
HWY-DD
2.5616

May 4, 1995

Department of the Army
U.S. Army Engineer District, Honolulu
Fort Shafter, Hawaii 96858-5440

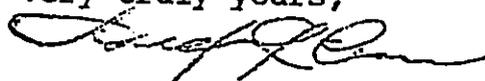
Attention: Planning Division

Gentlemen:

Subject: Kamehameha Highway Drainage Improvements, Vicinity of
Sunset Beach Elementary School, Project No. 83B-03-94,
Koolauloa, Oahu
Response to your comment on Draft Environmental
Assessment

Thank you for your review and flood zone information. No fill
will be placed in gulches and no DA permit is necessary.

Very truly yours,



HUGH Y. ONO
Administrator
Highways Division

Atch 29



REPLY TO
ATTENTION OF

Regulatory Branch

DEPARTMENT OF THE ARMY
U. S. ARMY ENGINEER DISTRICT, HONOLULU
FT. SHAFTER, HAWAII 96858-5440

RECEIVED
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HIGHWAYS DIVISION
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MAY 6 2 53 PM '95
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HIGHWAYS DIVISION
DEPT. OF TRANSPORTATION

Mr. T. Harano
Chief, Highways Division
Department of Transportation
869 Punchbowl Street
Honolulu, Hawaii 96813

Dear Mr. Harano:

This is in response to your fax dated April 13, 1995 requesting information for a Department of the Army (DA) permit for work at TMK: 5-9-01, 02, 05, 13, 14, and 16, Project 83B-03-94, Sunset Beach, Koolauloa, Oahu, Hawaii.

Based on a site visit and the information provided, a permit is not required as no construction activity is being planned in the stream.

Should there be a change in the proposed project that would include any work in the stream, a DA permit may be necessary, and you should contact this office.

File number NP95-065 is assigned to this project. Please refer to this number in any correspondence with us. If you have any questions or need further information, please call Ms. Lolly Silva at 438-9258, extension 17.

Sincerely,


James L. Bersson, P.E.
Chief, Operations Division

Copy Furnished:

State Dept. of Health, Clean Water Branch, Hon., HI

Atch 30



DEPARTMENT OF THE ARMY
U. S. ARMY ENGINEER DISTRICT, HONOLULU
FT. SHAFTER, HAWAII 96858-5440

REPLY TO
ATTENTION OF

November 30, 1994

RECEIVED
DEC 1 2 26 PM '94
DEPT. OF TRANSPORTATION
HIGHWAYS DIVISION

Planning Division

Mr. T. Harano, Chief
State of Hawaii
Department of Transportation
869 Punchbowl Street
Honolulu, Hawaii 96813-5097

RECEIVED
DEC 1 4 34 PM '94
DEPT. OF TRANSPORTATION
HIGHWAYS DIVISION

Dear Mr. Harano:

Thank you for the opportunity to review and comment on the Draft Environmental Assessment for the Kamehameha Highway Drainage Improvements Project, Sunset Beach, Oahu (TMK 595, 01, 16). The following comments are provided pursuant to 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.

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DEPT. OF TRANSPORTATION
HIGHWAYS DIVISION

a. A DA permit may be required if the project includes placement of fill in Pakulena Gulch. Please contact our Regulatory Branch for further information at 438-9258.

b. According to the enclosed Federal Emergency Management Agency's Flood Insurance Rate Map, panel number 150001 0009B dated September 4, 19987, the project sites are located in Zone X (unshaded; areas determined to be outside of the 500-year floodplain); Zone AE (areas inundated by the 100-year flood with a base flood elevation of 14 to 17 feet above mean sea level); and, Zone VE (areas inundated by the 100-year coastal flood with velocity hazards and a base flood elevation of 18 feet above mean sea level). Further information may be obtained from Ms. Jessie Dobinchick of my planning staff at 438-2883.

Sincerely,

Ray H. Jyo, P.E.
Director of Engineering

Enclosure

Atch 31

LEGEND

- SPECIAL FLOOD HAZARD AREAS INUNDATEU 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 (usually areas of ponding); base flood elevations determined.
 - ZONE AD** Flood depths of 1 to 3 feet (usually sheet flow on sloping ground); average depths determined. If areas of channel flow flooding, velocities also determined.
 - ZONE AVB** 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 500-year 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.
- Boundary**
- Flood Boundary
 - Floodway Boundary
 - Zone D Boundary
- Boundary Dividing Special Flood Hazard Zones, and Boundary Dividing Areas of Different Coastal Base Flood Elevations Within Special Flood Hazard Zones.**
- 573** Base Flood Elevation Line: Elevation in Feet*
- (EL 987)** Cross Section Line
- RM7_x** Base Flood Elevation in Feet Where Uniform Within Zone**
Elevation Reference Mark.
- *referenced to the National Geodetic Vertical Datum of 1929

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

CITY AND COUNTY OF HONOLULU, HAWAII

PANEL 9 OF 135
(SEE MAP INDEX FOR PANELS NOT PRINTED)

PANEL LOCATION

COMMUNITY-PANEL NUMBER
150001 0009 B

MAP REVISED:
SEPTEMBER 4, 1987

Federal Emergency Management Agency

CUSTOMER COPY
Arch 32

RECEIVED

MAY 5 10 58 AM '95

205-4-1000
HIGHWAYS DIVISION
DEPT. OF TRANSPORTATION HWY-DD
2.5402

May 2, 1995

United States Department of the Interior
Fish and Wildlife Service
Pacific Island Ecoregion
300 Ala Moana Boulevard, Room 6307
P.O. Box 50167
Honolulu, Hawaii 96850

Attention: Brooks Harper

Gentlemen:

Subject: Kamehameha Highway Drainage Improvements,
Vicinity of Sunset Beach Elementary School,
Project No. 83B-03-94, Koolauloa, Oahu
Reference Memo Dated January 23, 1995

Thank you for your review of the proposed project. Draft EA filed with State of Hawaii Office of Environmental Quality in February, 1995 included statement that stream beds which may be located on and/or adjacent to the project site are classified as intermittent and may be potential habitat for native fauna during times of flow. This information was provided to the Highways Division by the State of Hawaii Department of Land and Natural Resources by memorandum dated December 23, 1994.

The following proposed mitigation measures will be included in the EA process:

1. Scheduling site work during periods of minimum rainfall;
2. Replanting or covering lands denuded of vegetation as quickly as possible; and

Atch 35

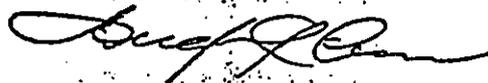
United States Department of the Interior
Page 2
May 2, 1995

HWY-DD
2.5402

3. Preventing construction materials, petroleum products and debris from falling, blowing or leaching into the aquatic environment.

We believe no additional action is necessary.

Very truly yours,



HUGH Y. ONO
Administrator
Highways Division

Atch 36



United States Department of the Interior

JAN 27 4 47 PM '95
DEPT. OF TRANSPORTATION
HIGHWAYS DIVISION

FISH AND WILDLIFE SERVICE

Pacific Islands Ecoregion
300 Ala Moana Blvd, Room 6307
P.O. Box 50167
Honolulu, Hawaii 96850

RECEIVED
JAN 31 1 39 PM '95
DISTRICT BRANCH
HIGHWAYS DIVISION
DEPT. OF TRANSPORTATION

In Reply Refer To: MEM

JAN 23 1995

Mr. T. Harano
Chief, Highways Division
Hawaii Department of Transportation
869 Punchbowl Street
Honolulu, HI 96813-5097

Re: Kamehameha Highway Drainage Improvements in the Vicinity of Sunset Beach Elementary School, Sunset Beach, Oahu, Hawaii (Project No. 83B-03-94, District of Koolaupoko, Oahu, TMK: 5-9-05, 16 & 01)

Dear Mr. Harano:

The U.S. Fish and Wildlife Service (Service) has reviewed the draft Environmental Assessment (EA) and preliminary set of plans for the drainage improvements proposed for Kamehameha Highway in the vicinity of Sunset Beach Elementary School, Sunset Beach, Oahu, Hawaii. The project sponsor is Hawaii State Department of Transportation, Division of Highways. The Service offers the following comments for your consideration.

The proposed project would result in the installation of approximately 579 meters (m) [1,900 feet (ft)] of concrete-jacketed drain pipe that is 0.6 m (2 ft) in diameter and 610 m (3,030 ft) of lined gutter with grated inlets. The improvements would be constructed within portions of existing roadway right-of-way and existing drainage easement. Highway stormwater runoff will be collected by the drainage system and discharged into an existing grassed, drainage swale near Hoalua Street and into an existing outlet at the seaward end of Pakulena Gulch. According to the draft EA, proposed mitigation includes the utilization of appropriate sediment control measures to avoid causing turbidity in the ocean.

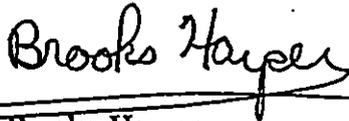
The Service is concerned about adverse impacts to fish and wildlife resources, including migratory shorebirds and marine species. Based on the draft EA and preliminary plans, no significant project-related adverse impacts to these resources are expected to result if the proposed work is conducted during the dry season between May and September. Since proposed mitigation includes sediment control measures, we recommend that additional information on the potential for the project to cause turbidity in the ocean be included in the final EA. Should a Department of the Army permit be required, the Service will review the permit application and provide formal comments to the U.S. Army Corps of Engineers.

Atch 37

Kamehameha Highway Drainage Improvements
Sunset Beach, Oahu, Hawaii
(Project No. 83B-03-94, TMK: 5-9-05, 16 & 01)

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

Sincerely,



Brooks Harper
Field Supervisor
Ecological Services

cc: DAR, Hawaii
CZMP, Hawaii
CWB, Hawaii