



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

STAFF SUBMITTAL

for the meeting of the
COMMISSION ON WATER RESOURCE MANAGEMENT

August 15, 2007
Honolulu, Hawaii

Application for a Stream Channel Alteration Permit (SCAP.1705.3)
H-3 Halawa Viaduct Pier 26 Riprap Revetment Project
North Halawa Stream, Halawa, Oahu
TMK: (1) 9-9-010:010 and (1) 9-9-073:023

APPLICANT:

Brennon T. Morioka, Deputy Director
State Department of Transportation, Highways Division
869 Punchbowl Street
Honolulu, HI 96813

LANDOWNER:

Same as applicant

SUMMARY OF REQUEST:

Application for a Stream Channel Alteration Permit (SCAP) to place riprap on the banks of North Halawa Stream to protect the existing H-3 Freeway Pier 26 from stream bank erosion, North Halawa Stream, Halawa, Oahu.

LOCATION: Exhibit 1.

BACKGROUND:

The purpose of the project is to protect the existing H-3 Freeway Pier 26 from scouring by Halawa Stream which flows along Pier 26 and under the H-3 freeway viaduct.

DESCRIPTION:

Backhoes will access Halawa Stream from both sides of the stream to remove existing material from the stream bank and excavate the cutoff wall as shown on the plans. Approximately 1,300 cubic yards of material will be excavated and disposed at an approved upland disposal site. The excavated material will not be reused in the project. A permeable geotextile liner will be laid on the cut stream bank to stabilize the soil and prevent or reduce the discharge of sediment. Approximately 1,400 cubic yards of ungrouted riprap will be placed on both sides of the stream bank to protect Pier 26 from scouring.

Silt fences will be installed above the Ordinary High Water Mark (OHWM) of Halawa Stream to protect water quality and will be removed after the project has been completed and the vegetation has re-established itself. Construction within the stream channel is expected to last approximately six months.

ANALYSIS:

In December 2006, Oceanit Laboratories, Inc. prepared a "Wetland Determination for a Portion of Lower Halawa Stream, Oahu, Hawaii" for Parsons Brinckerhoff. The stream and wetland survey of North Halawa Stream was conducted in support of Parsons Brinckerhoff's efforts to design flood water protection structures for the base of the concrete support columns for the H-3 freeway. The Oceanit report concluded that:

- There was an absence of wetlands at the project site.
- Stream flora and fauna at the site were limited because the stream was dry approximately 11 per cent of the time. Consequently, survivor fauna was restricted to isolated pools.
- Although the site did not support stable populations of native species, it did act as the single transit route of native species between the lower and upper watershed. The natural character of the stream bed should be protected to the greatest extent possible.
- Large sections of the upper riparian bank appeared to have been altered by infill from the adjacent properties.

The U.S. Army Corps of Engineers (COE) determined that the proposed project would not discharge dredged or fill material into waters of the U.S. including adjacent wetlands and that a Department of the Army (DA) permit would not be required. However, COE recommended that the proposed best management practices (BMPs) specified in the project plans be implemented to avoid or minimize potential effects of the activity on downstream waters.

The Department of Health (DOH), Clean Water Branch (CWB) recommended the following measures which were forwarded to the applicant for their information and coordination with DOH, CWB:

- Site specific construction BMPs designed, implemented, operated, and maintained by the applicant and its contractor to properly isolate and confine construction activities and to contain and prevent any potential pollutant(s) discharges from adversely impacting the State Waters.
- A properly designed and implemented receiving water quality monitoring and assessment plan to ensure that construction-related activities do not violate applicable water quality standards.
- A National Pollutant Discharge Elimination System (NPDES) permit for discharges of wastewater, including stormwater runoff, into State surface waters is required if the total work area is greater than one acre. A NPDES permit is required before the start of construction activities.
- All discharges related to the project construction and operation activities must comply with the State Water Quality Standards.

The City and County of Honolulu Department of Planning and Permitting commented that:

- The project was not within the Special Management Area (SMA).
- It appeared that the proposed riprap revetment will encroach within the 100-year floodway of Halawa Stream and that the applicant shall delineate the floodway boundaries on their plans based on the data from the FEMA Flood Insurance Rate Maps.

- The applicant shall provide certification by a licensed engineer that the proposed improvements will not cause any increase in the base flood elevation (FEMA "Certification of No-Rise Determination").

The State Parks Division commented that the project is not subject to its regulatory authority or permit. Forestry and Wildlife and Land Divisions had no objections to the project.

Aquatic Resources, Engineering, and Historic Preservation Divisions, as well as the Department of Hawaiian Home Lands, Office of Hawaiian Affairs, U.S. Fish and Wildlife Service, and the University of Hawaii, Environment Center did not submit comments as of the date of the preparation of this submittal.

RECOMMENDATION:

That the Commission approve a Stream Channel Alteration Permit to place riprap on the banks of North Halawa Stream to protect the existing H-3 Freeway Pier 26 from stream bank erosion, North Halawa Stream, Halawa, Oahu. The permit shall have a term of two (2) years subject to the Commission's standard permit conditions in Exhibit 5.

Respectfully submitted,



KEN C. KAWAHARA, P.E.
Deputy Director

- Exhibits:
1. Location Map
 2. Pier 26 Riprap Revetment Plan
 3. Riprap Revetment Details and Cross Sections
 4. Photo of Halawa Stream (upstream view)
 5. Photo of Halawa Stream (downstream view)
 6. Photo of Pier 26
 7. Standard Stream Channel Alteration Permit Conditions

APPROVED FOR SUBMITTAL:



for LAURA H. THIELEN
Interim Chairperson