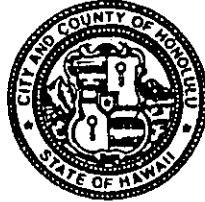


DEPARTMENT OF DESIGN AND CONSTRUCTION  
CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET, 11TH FLOOR  
HONOLULU, HAWAII 96813  
Phone: (808) 523-4564 Fax: (808) 523-4567  
Website: www.co.honolulu.hi.us

JEREMY HARRIS  
MAYOR



RAE M. LOUI, P.E.  
ACTING DIRECTOR

GEORGE T. TAMASHIRO, P.E.  
DEPUTY DIRECTOR

'01 FEB -2 P2:45

OFFICE OF ENVIRONMENTAL QUALITY CONTROL  
WWDE.CS 01-011

January 26, 2001

Ms. Genevieve Salmonson, Director  
State of Hawaii  
Office of Environmental Quality Control  
235 South Beretania Street, Room 702  
Honolulu, Hawaii 96813

Dear Ms. Salmonson:

**Subject: Determination of Non-Significant Project Revision  
Final EA/FONSI  
Kainehe Street, Hamakua Drive and Keolu Drive Reconstructed Sewer**

In October 2000, a revised project description for the Hamakua Drive portion was distributed in letters to affected agencies to solicit input and comments. In response to that letter, we have received a number of comments from agencies regarding the project revision. This letter provides the revised project description, consultation with affected agencies, and consideration given to agency comments.

**Background.** In March 1999, a Final EA was filed for this project, which evaluated three areas of sewer reconstruction in the Kailua wastewater collection system. The subject project has been modified since the completion of the Final EA, at the portion of the collection system alignment where it crosses Kawainui Stream at Hamakua Drive Bridge. The sewer reconstruction alignment is being relocated and the construction technique is being modified from the originally proposed design.

On May 30, 2000, a meeting was held with Mr. Jeyan Thirugnanam of your office to provide a briefing on these project changes and determine the most appropriate action to take with regard to environmental documentation and compliance with applicable laws and procedures. Mr. Thirugnanam recommended that our department prepare a statement of non-significant project revision, consult with affected agencies, and file documentation of this process with the OEQC.

Ms. Genevieve Salmonson  
Page 2  
January 26, 2001

**Project Description:** The subject portion of the project involves approximately 450 feet of 30-inch diameter reinforced concrete pipe in the Kailua wastewater collection system at Hamakua Drive (Figure 1). The original plan for reconstruction involved open trenching on the eastern side of the bridge, parallel to the existing alignment (Figure 2). The new alignment is positioned along the opposite side (western side) of the bridge adjacent to the Hamakua Wetlands (Figure 3). A small portion of the sewer line will encroach on the fringe of the designated wetlands management area.

The revised project is anticipated to create less potential environmental impacts than the previous proposal. The method of installation has been changed from open trench construction to microtunneling and jet grouting under the stream and uplands. Instead of open cut trenching, a trenchless pipe installation method known as microtunneling will be used to install the majority of the 30 in. sewer pipe, including a 250 linear foot section beneath the subsurface of Kawainui Stream at Hamakua Drive Bridge (refer to Figure 4). Microtunneling uses hydraulic jacks to advance pipe sections behind a remotely operated tunnel-boring machine (TBM) or cutting disk head between spaced jacking and receiving pits. Impacts to Kawainui Stream will be minimized since no excavation will occur within Kawainui Stream banks. Excavation for jacking and receiving pits will be located on opposite sides of the stream. Dewatering from these pits will be covered under a General Permit for Construction Dewatering.

To stabilize the soil for adequate pipe support, a technique known as jet grouting will be used to inject cement fill into the existing subsurface along the pipe alignment at three-foot intervals. Jet grouting uses a drill bit fitted with high-pressure water jets to cut into existing soil. As the drill bit is withdrawn, cement is mixed with existing soil using the high-pressure water jets. The spoils from jet grouting operations will be contained on the surface as slurry and disposed off-site. Silt curtains will be used to contain spoils from the jet grouting operations that may enter Kawainui Stream. No dredging of the stream will be required and no fill will be placed in the stream.

Jet grouting will require the installation of a temporary bridge structure over Kawainui Stream to support the jet grout drill rig. The temporary bridge would most likely consist of temporary steel pipe piles supporting a steel or wood bridge deck approximately 20 feet wide. The steel casings, bridge structure, and all jet grouting containment devices will be removed after jet grouting operations are completed. Jet grouting operations in Kawainui Stream, including fabrication and removal of the temporary bridge structure, should take approximately two months.

The project was submitted for a Department of Army Permit, and it was determined not to be required. The project will not adversely affect the Hamakua Wetland Protection and Enhancement Project (Final EA, 1993).

**Agencies Consulted.** The following agencies and organizations were contacted to review the revised project description and, if desired, provide comments regarding the changes to the alignment and the new construction method.

Ms. Genevieve Salmonson  
Page 3  
January 26, 2001

1. State of Hawaii, Dept. of Land and Natural Resources, Historic Preservation Div.
2. Oahu Burial Council
3. DLNR, Division of Forestry and Wildlife
4. DLNR, Land Division
5. Ducks Unlimited
6. State of Hawaii, Office of Planning/CZM Review
7. State of Hawaii, Department of Health, Clean Water Branch
8. U.S. Fish and Wildlife Service
9. Army Corps of Engineers, Honolulu District
10. City and County of Honolulu, Dept. of Planning & Permitting
11. Kailua Neighborhood Board

Of the 11 agencies consulted, five provided written comments or called to provide their comments, and these are summarized below. Copies of these letters are attached.

- State of Hawaii, Department of Health, Clean Water Branch (Shane Sumida) – Questions about dewatering from jacking pits and the classification of waters in Kailua. *Response: Dewatering of the jacking pits will be done in accordance with the NPDES permit.*
- State of Hawaii, Department of Land and Natural Resources (Dean Uchida) – The Commission on Water Resource Management will require a Stream Channel Alteration Permit. *Response: The City will obtain a Stream Channel Alteration Permit.*
- U.S. Fish and Wildlife Service (Mike Molina) – The project appears to be an improvement, with less impact to wetlands than the previous method. They agree with the planned measures for dewatering, silt curtains and no dredging or fill. *No response.*
- State of Hawaii, Department of Land and Natural Resources, Historic Preservation Division (Don Hibbard) – One concern is the possibility of human remains in the sand deposits below the existing roadways. It is recommended that an acceptable archaeological monitoring plan be prepared and approved prior to construction. *Response: Monitoring plan being prepared.*
- City and County of Honolulu, Department of Planning and Permitting (DPP)(Steve Tagawa) - Questions about the easement limits for the sewer line, if the new work is outside of the easement, and the possibility of an SMA requirement. *Response: The City will be obtaining a 30-ft. wide construction easement and a 15-ft. wide permanent sewer easement for the new 30-inch pipeline crossing Kawainui Stream. The DPP has declared the project exempt from SMA approvals.*

Ms. Genevieve Salmonson  
Page 4  
January 26, 2001

**Conclusions.** The proposed revision to the sewer reconstruction project at Hamakua Drive is expected to have less environmental impact than the previous plan. By this letter, we are providing you with our determination that altering the reconstruction project constitutes a non-significant revision of the original project. The Final EA/FONSI for the Kainehe Street, Hamakua Drive and Keolu Drive Reconstructed Sewer will not need to be revised or supplemented. We respectfully request that you publish this determination in the next edition of the Environmental Notice.

If you have any further comments regarding the project revision documentation, please contact our planning consultant, Mr. Jeff Overton at Group 70 International, Inc. (tel. 441-2104). You also may call our project engineer Mr. Glenn Okita at 527-5829 with any questions or requests for additional information on this project.

Very truly yours,



RAE M. LOUI, P.E.  
Acting Director

Attachments

Agency Distribution List:

State of Hawaii, Dept. of Land & Natural Resources  
555 Kakuhihewa Building  
601 Kamokila Boulevard  
Kapolei, HI 96707  
Attn: Sara Collins, Ph.D., Oahu Preservation Officer

Oahu Burial Council  
C/o State Historic Preservation Division  
555 Kakuhihewa Building  
601 Kamokila Boulevard  
Kapolei, HI 96707  
Attn: Mr. Duncan Seto, Chair

State of Hawaii, Dept. of Land & Natural Resources  
P.O. Box 621  
Honolulu, HI 96809  
Attn: Mr. Dean Uchida, Administrator, Land Division

State of Hawaii  
Dept. of Land & Natural Resources  
P.O. Box 621  
Honolulu, HI 96809  
Attn: Mr. Michael Buck, Division of Forestry and Wildlife

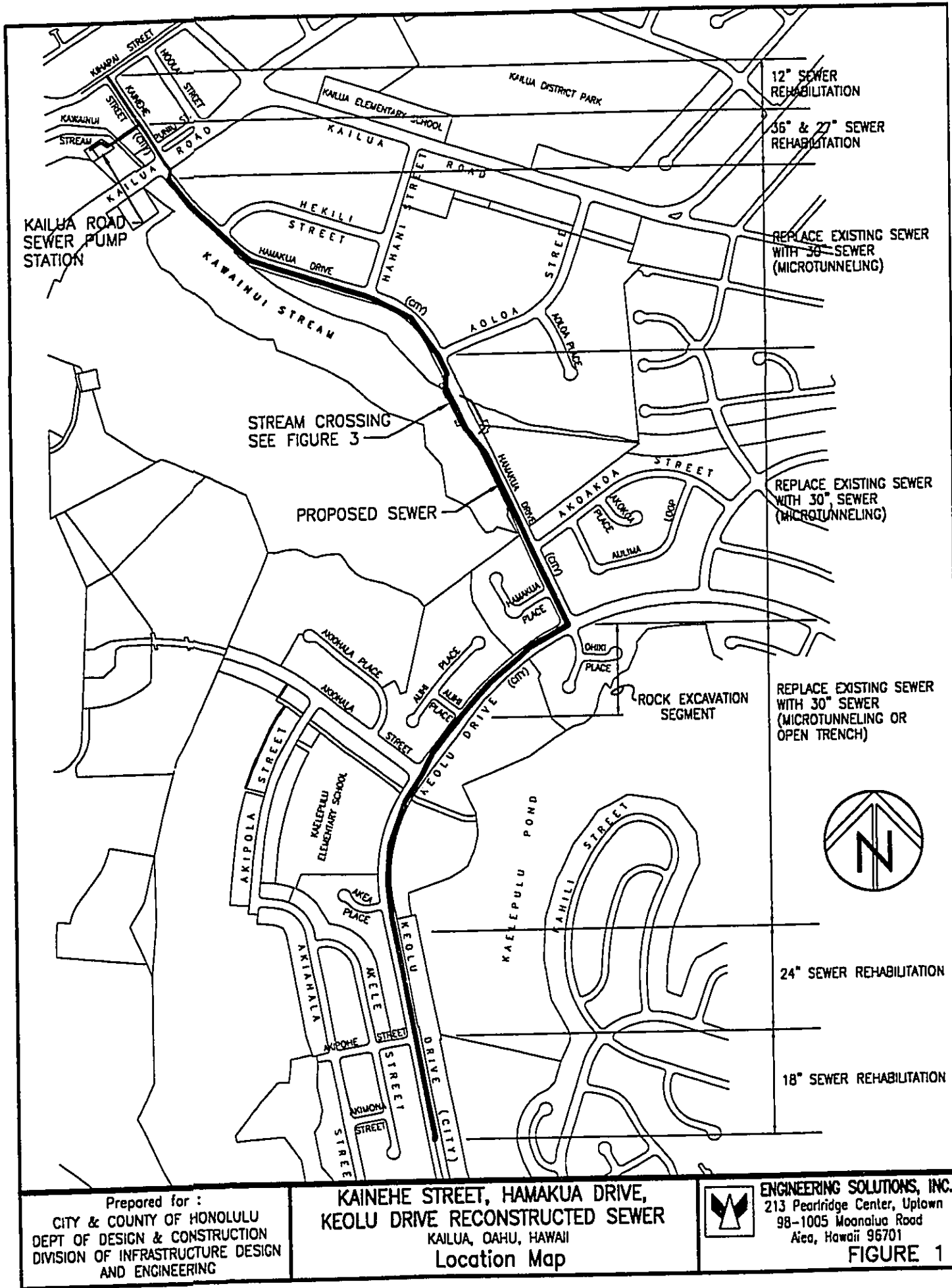
Pacific Islands Administrator  
Dept. of the Interior  
Fish & Wildlife Services  
300 Ala Moana Blvd., Rm. 3108  
Honolulu, HI 96813

State of Hawaii  
Office of Planning  
235 South Beretania Street, 6th Floor  
Honolulu, HI 96813  
Attn: Mr. David Blane, Director

State of Hawaii  
Department of Health, Clean Water Branch  
P.O. Box 3378  
Honolulu, HI 96801-3378

Commander & Division Engineer  
U.S. Army Corps of Engineers, Pacific Ocean Division  
Building 230  
Fort Shafter, HI 96858-5440

City and County of Honolulu  
Dept. of Planning & Permitting, Land Use Permit Division  
650 South King Street  
Honolulu, HI 96813



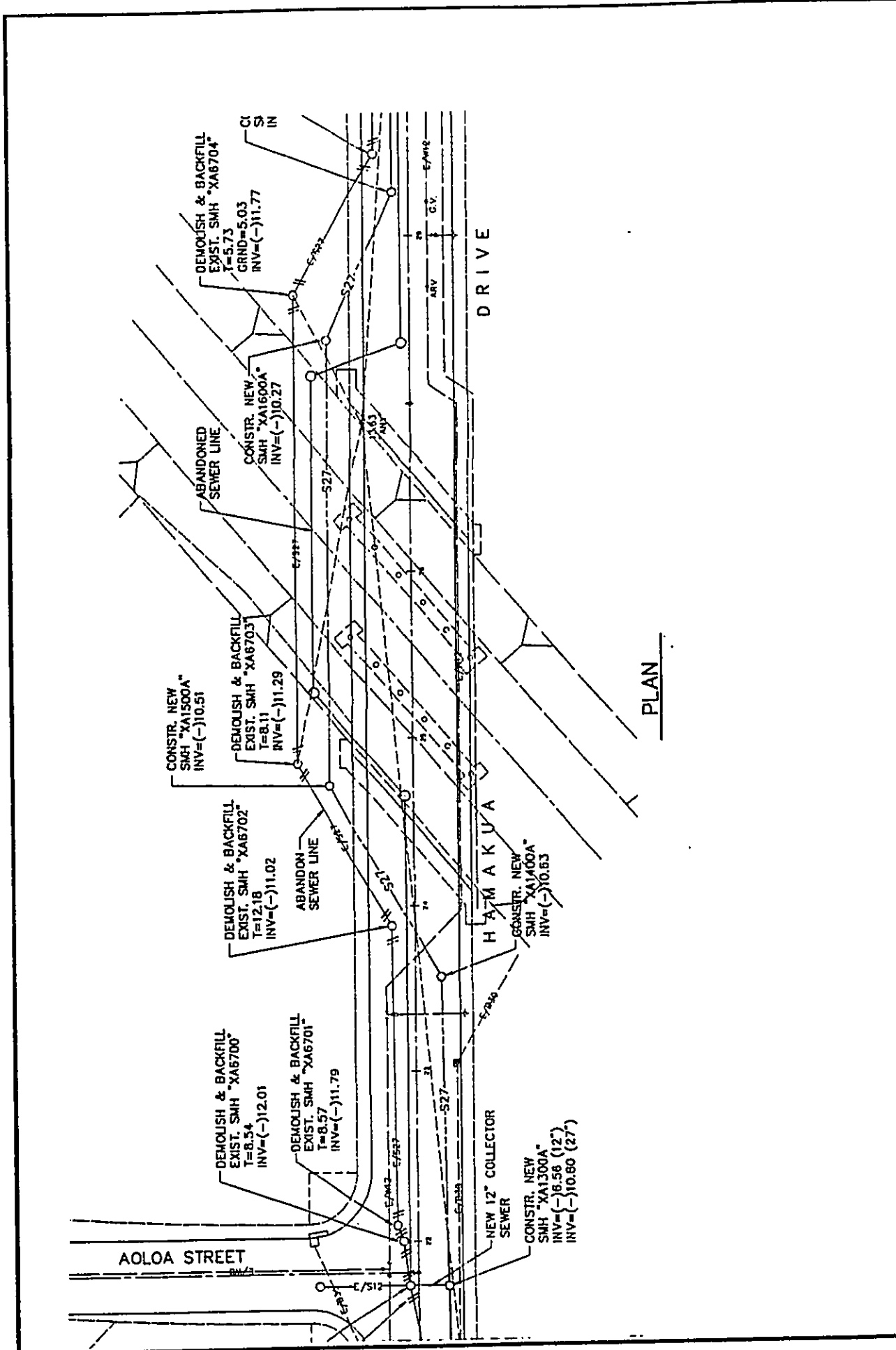
Prepared for :  
 CITY & COUNTY OF HONOLULU  
 DEPT OF DESIGN & CONSTRUCTION  
 DIVISION OF INFRASTRUCTURE DESIGN  
 AND ENGINEERING

**KAI NEHE STREET, HAMAKUA DRIVE,  
 KEOLU DRIVE RECONSTRUCTED SEWER**  
 KAILUA, OAHU, HAWAII  
 Location Map



**ENGINEERING SOLUTIONS, INC.**  
 213 Pearridge Center, Uplown  
 98-1005 Moanalua Road  
 Aiea, Hawaii 96701

**FIGURE 1**

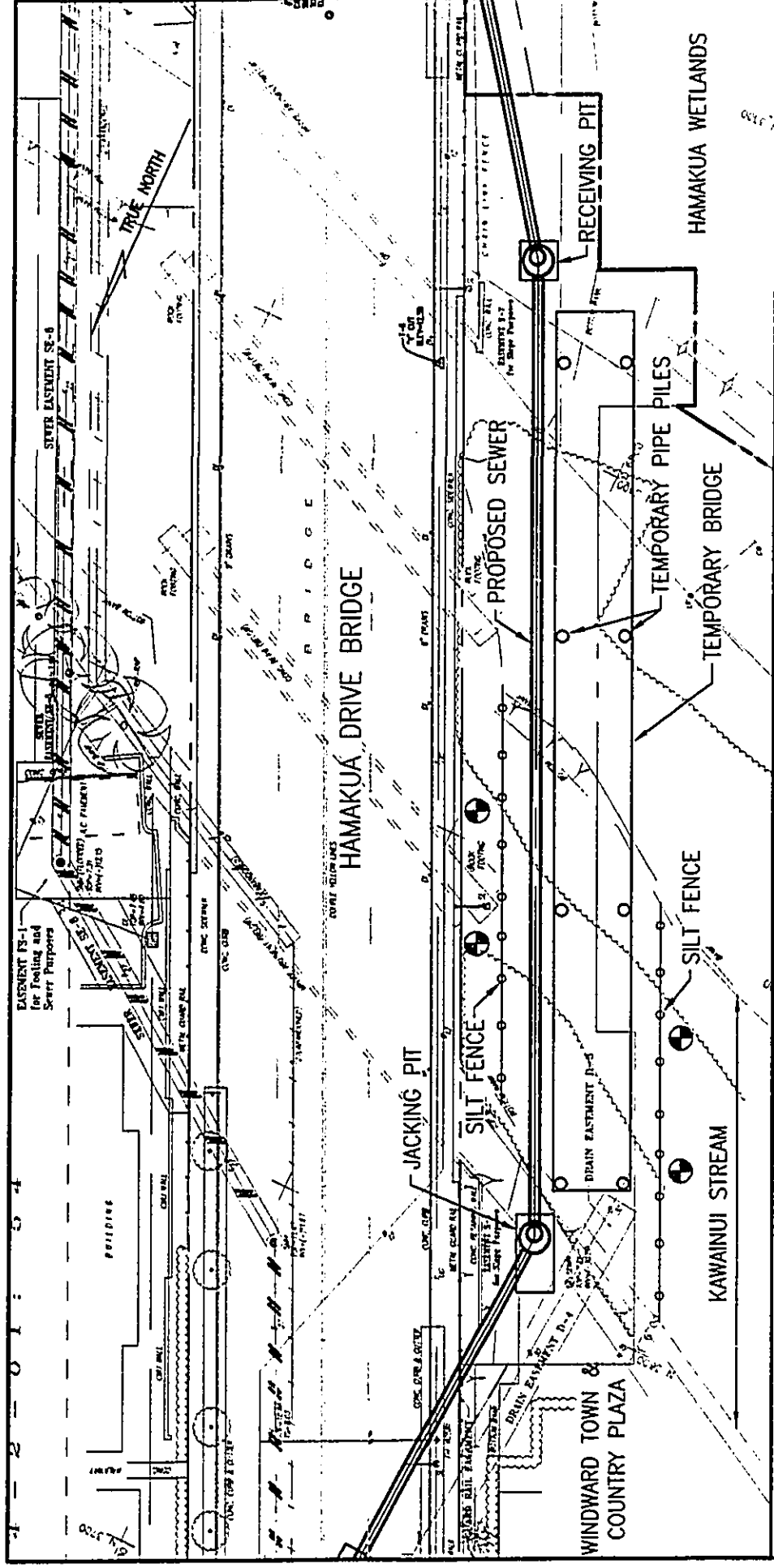


ENGINEERING SOLUTIONS, INC.  
 213 Peardridge Center, Uplown  
 98-1005 Moanalua Road  
 Aiea, Hawaii 96701

**KAINEHE STREET, HAMAKUA DRIVE,  
 KEOLU DRIVE RECONSTRUCTED SEWER  
 1998 PLAN FOR SEWER REPLACEMENT**

Prepared for :  
 CITY & COUNTY OF HONOLULU  
 DEPARTMENT OF DESIGN & CONSTRUCTION  
 DIVISION OF INFRASTRUCTURE DESIGN AND ENGINEERING

**FIGURE 2**



LEGEND

- SILT FENCE
- SAMPLING LOCATIONS

Prepared for :  
 CITY & COUNTY OF HONOLULU  
 DEPARTMENT OF DESIGN & CONSTRUCTION  
 DIVISION OF INFRASTRUCTURE DESIGN AND ENGINEERING

KAINEHU STREET, HAMA KUA DRIVE,  
 KEOLU DRIVE RECONSTRUCTED SEWER  
 PLAN MINIMUM SPOIL CONTROL & CONTAINMENT  
 FOR JET GROUTING AT KAWAINUI STREAM

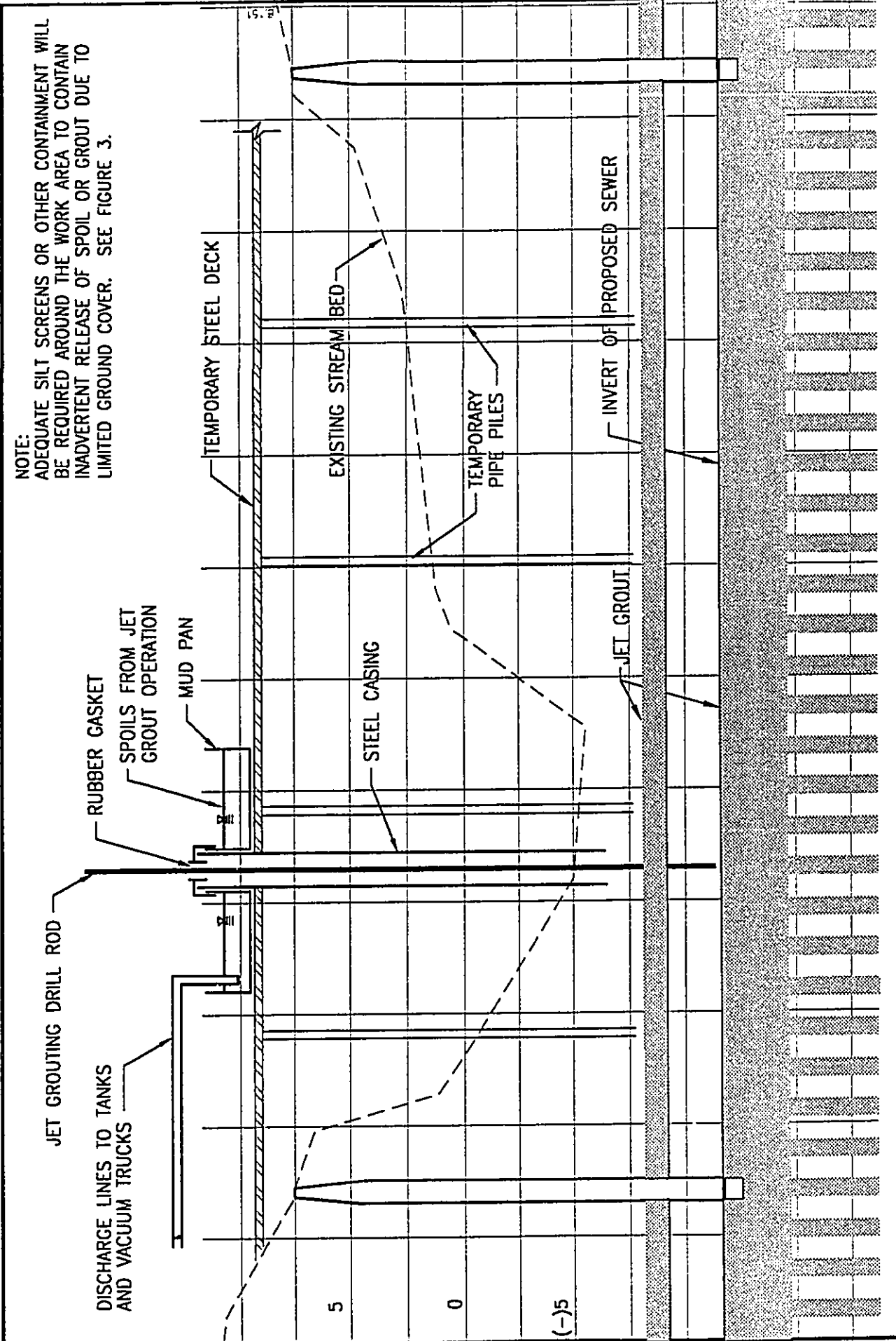


ENGINEERING SOLUTIONS, INC.  
 213 Pearlridge Center, Uplown  
 98-1005 Moanalua Road  
 Aiea, Hawaii 96701

FIGURE 3



NOTE:  
 ADEQUATE SILT SCREENS OR OTHER CONTAINMENT WILL  
 BE REQUIRED AROUND THE WORK AREA TO CONTAIN  
 INADVERTENT RELEASE OF SPOIL OR GROUT DUE TO  
 LIMITED GROUND COVER. SEE FIGURE 3.



Prepared for :  
 CITY & COUNTY OF HONOLULU  
 DEPARTMENT OF DESIGN & CONSTRUCTION  
 DIVISION OF INFRASTRUCTURE DESIGN AND ENGINEERING

KAINEHU STREET, HAMAKUA DRIVE,  
 KEOLU DRIVE RECONSTRUCTED SEWER  
 PROFILE MINIMUM SPOIL CONTROL CONCEPT  
 FOR JET GROUTING AT KAWAINUI STREAM



ENGINEERING SOLUTIONS, INC.  
 213 Peairidge Center, Uplown  
 98-1005 Moanalua Road  
 Aiea, Hawaii 96701

FIGURE 4

BENJAMIN J. CAYETANO  
GOVERNOR OF HAWAII



TIMOTHY E. JOHNS, CHAIRPERSON  
BOARD OF LAND AND NATURAL RESOURCES  
COMMISSION ON WATER RESOURCE MANAGEMENT

DEPUTIES  
JANET E. KAWELO  
LINNELL NISHIOKA

STATE OF HAWAII

DEPARTMENT OF LAND AND NATURAL RESOURCES

HISTORIC PRESERVATION DIVISION  
Kakuhikawa Building, Room 555  
601 Kamokila Boulevard  
Kapolei, Hawaii 96707

AQUATIC RESOURCES  
BOATING AND OCEAN RECREATION  
CONSERVATION AND RESOURCES  
ENFORCEMENT  
CONVEYANCES  
FORESTRY AND WILDLIFE  
HISTORIC PRESERVATION  
LAND  
STATE PARKS  
WATER RESOURCE MANAGEMENT

November 17, 2000

Jeffrey H. Overton, AICP  
Chief Environmental Planner  
Group 70 International, Inc.  
925 Bethel Street, Fifth Floor  
Honolulu, Hawaii 96813

RECEIVED  
DEC 04 2000

GROUP 70

LOG NO: 26505  
DOC NO: 0011EJ09

Dear Mr. Overton:

**SUBJECT:** Chapter 6E-8 Historic Preservation Review -Non- Significant Revision to Final Environmental Assessment/FONSI Kainehe Street, Hamakua Drive & Keolu Drive Reconstructed Sewer Kailua, Ko`olaupoko, O`ahu  
TMK: 4-2 various

Thank you for the opportunity to comment on the "Non-Significant Revision to Final Environmental Assessment/FONSI" for the Kainehe Street, Hamakua Drive & Keolu Drive Reconstructed Sewer project. Our review is based on historic reports, maps, and aerial photographs maintained at the State Historic Preservation Division; no field inspection was made of the project areas.

We commented during the "Pre-Assessment Consultation Phase" for this project that historic sites including human burials have been found in Jaucus sand deposits in the vicinity of the project area and that we would like to review the detailed project plans in order to provide comment as to the effect the project would have on significant historic sites (SHPD Log 22173; September 3, 1998). We checked our records and we did not review either the project plans for the Draft EA or Final EA.

In preparing comment for the "Non-Significant Revision to Final Environmental Assessment/FONSI", we requested and received the 80% completion construction plans and 80% complete specifications from the C & C of Honolulu for review. The revisions to the FEA involve a change from open trench construction to microtunneling to install the majority of the 30-inch sewer pipe. However open-trench excavation will be still utilized in certain areas indicated on the plans, such as at Sewer Line "B" near Kailua Road, at the intersection of Hamakua Drive and Keolu Drive and presumably for the Sewer Line "A" 12-inch rehabilitation at Kainehe Street. Although construction will take place within existing road ways that have been previously disturbed, recent construction activities such as the Waikiki water main improvements, indicate that numerous human remains as well as cultural deposits may still be in Jaucas sand deposits found below the existing roadways.

Jeffrey H. Overton, AICP  
Page Two

Jaucas sands deposits are known to exist along Kainehe Street across Kailua Road and along portions of Hamakua Drive. Therefore, we recommend that prior to beginning any ground disturbance in Jaucas Sands deposits during open-trench excavations and for the jacking and receiving pits associated with the microtunneling process, we recommend that an acceptable archaeological monitoring plan be prepared for review and approval by our office.


An acceptable monitoring plan will have the following components:

1. The kinds of resources that are anticipated and where in the construction area the resources are likely to be found;
2. How the resources and deposits will be documented;
3. How the expected types of resources will be treated;
4. The archeologists conducting the monitoring has the authority to halt construction in the immediate area of a find in order to carry out the plan;
5. A coordination meeting between the archaeologist and construction crew is scheduled, so that the construction team is aware of the plan;
6. What laboratory work will be done on remains that are collected;
7. A schedule for report preparation; and
8. Details concerning the archiving of any collections that are made.

If a qualified archaeologist conducts on-site monitoring in accordance with an approved monitoring plan, we believe that the proposed undertaking will have "no adverse effect" on significant historic sites.

Should you have any questions, please feel free to call Sara Collins at 692-8026 or Elaine Jourdane at 692-8027.

Aloha,



Don Hibbard, Administrator  
State Historic Preservation Division

EJ:jk

c: Glen Okita, City & County of Honolulu, Department of Design and Construction  
Mr. Kala`au Wahilani, Burial Program  
Chair, O`ahu Island Burial Council



STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
LAND DIVISION  
P.O. BOX 621  
HONOLULU, HAWAII 96809

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

November 1, 2000

LD-NAV  
REF.: KAWAINUISTM.RMT

Mr. Jeffrey H. Overton, AICP  
Chief Environmental Planner  
Group 70 International, Inc.  
925 Bethel Street, 5<sup>th</sup> floor  
Honolulu, Hawaii 96813-4307

Dear Mr. Overton:

SUBJECT: City and County of Honolulu Department of Design and Construction, Revision to Final Environmental Assessment, for Kainehe Street, Hamakua Drive & Keolu Drive Sewer Reconstruction, Kailua, Oahu

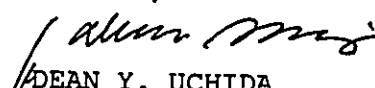
Thank you for the opportunity to review and comment on the subject matter.

The Department of Land and Natural Resources' Land Division submitted a copy of the informational material to our Division of Aquatic Resources, Oahu District Land Office and Commission on Water Resource Management (CWRM) for their review and comment on the proposed project.

Our Commission on Water Resource Management informed us that due to the nature of the work affecting the bed and banks of the stream channel a Stream Channel Alteration Permit is required, pursuant to Hawaii Revised Statutes Chapter 171C-71. Please inform your client of the permit requirement. The contact person for CWRM is David Higa at 808-587-0249.

Should you have any questions, please contact Nicholas A. Vaccaro of the Land Division Support Services Branch at 808-587-0438.

Very truly yours,

  
DEAN Y. UCHIDA  
Administrator

C: C&CoH Department of Design and Construction  
Oahu District Land Office  
Commission on Water Resource Management



**GROUP 70**  
INTERNATIONAL

Francis S. Oda, AIA, AICP  
Norman G. Y. Hong, AIA  
Sheryl B. Seaman, AIA, ASID  
Hitoshi Hida, AIA  
Roy H. Nihei, AIA, CSI  
James I. Nishimoto, AIA  
Ralph E. Portmore, AICP  
Stephen H. Yuen, AIA  
Linda C. Miki, AIA

# RECORD OF CONVERSATION

Group 70 International, Inc. • Architecture • Planning • Interior Design • Environmental Services  
925 Bethel Street, Fifth Floor • Honolulu, Hawaii 96813-4307 • PH: (808) 523-5866 • FAX: (808) 523-5874

PROJECT		PROJECT NO.
Hamakua Drive Sewer Reconstruction Final EA		20038-11
SUBJECT		
Non-Significant Revision to Project Description – Request for Comments		
DATE		TIME
9 November 2000		1:15 pm
PERSON CALLING	AGENCY	PHONE NO.
Mike Molina	USFWS	541-3441
PERSON CALLED	AGENCY	PHONE NO.
Jeff Overton	Group 70	441-2104

## SUMMARY:

FWS has no problem with proposed modification at Hamakua Drive sewer reconstruction.

Looks like an improvement, less of an impact to wetlands than previously planned method for reconstruction..

Agree with planned measures for dewatering, use of silt curtains, and no dredging or excavate within the stream banks, plus no fill to be placed between stream banks.

No letter coming from FWS.

UNLESS WRITTEN OBJECTION IS RECEIVED WITHIN SEVEN DAYS, WE ASSUME STATEMENTS CONTAINED WITHIN ARE ACCEPTED.



**GROUP 70**  
INTERNATIONAL

Francis S. Oda, AIA, AICP  
Norman G. Y. Hong, AIA  
Sheryl B. Seaman, AIA, ASID  
Hitoshi Hida, AIA  
Roy H. Nihei, AIA, CSI  
James I. Nishimoto, AIA  
Ralph E. Portmore, AICP  
Stephen H. Yuen, AIA  
Linda C. Miki, AIA

# RECORD OF CONVERSATION

Group 70 International, Inc. • Architecture • Planning • Interior Design • Environmental Services  
925 Bethel Street, Fifth Floor • Honolulu, Hawaii 96813-4307 • PH: (808) 523-5866 • FAX: (808) 523-5874

PROJECT	PROJECT NO.	
Hamakua Drive Sewer Reconstruction Final EA	20038-11	
SUBJECT		
Non-Significant Revision to Project Description – Request for Comments		
DATE	TIME	
October 26, 2000		
PERSON CALLING	AGENCY	PHONE NO.
Shane Sumida	Dept. of Health – Clean Water Br.	
PERSON CALLED	AGENCY	PHONE NO.
Jeff Overton	Group 70	441-2104

## SUMMARY:

Shane called to express some possible issues:

1. Measures to deal with dewatering from jacking pits?
2. Classification of waters in Kailua in area of project?

Other than these questions, they have no further concerns with the proposed project revision. I referred them to Engineering Solutions for questions regarding the NPDES issues.



**GROUP 70**  
INTERNATIONAL

Francis S. Oda, AIA, AICP  
Norman G. Y. Hong, AIA  
Sheryl B. Seaman, AIA, ASID  
Hitoshi Hida, AIA  
Roy H. Nihei, AIA, CSI  
James I. Nishimoto, AIA  
Ralph E. Portmore, AICP  
Stephen H. Yuen, AIA  
Linda C. Miki, AIA

# RECORD OF CONVERSATION

Group 70 International, Inc. • Architecture • Planning • Interior Design • Environmental Services  
925 Bethel Street, Fifth Floor • Honolulu, Hawaii 96813-4307 • PH: (808) 523-5866 • FAX: (808) 523-5874

PROJECT	PROJECT NO.	
Hamakua Drive Sewer Reconstruction Final EA	20038-11	
SUBJECT		
Non-Significant Revision to Project Description – Request for Comments		
DATE	TIME	
October 26, 2000		
PERSON CALLING	AGENCY	PHONE NO.
Steve Tagawa	Dept. of Planning & Permitting	
PERSON CALLED	AGENCY	PHONE NO.
Jeff Overton	Group 70	441-2104

## SUMMARY:

Steve called to express some possible issues:

1. Easement limits for sewer along Hamakua Drive?
2. Will project work outside of the easement?
3. If so, SMA may be required.

Other than these questions, they have no further concerns with the proposed project revision.

It was determined that the revised project requires work outside of the easement, and new easements will be designated. However, DPP will exempt the project from SMA requirements.