LINDA CROCKETT LINGLE Mayor

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EASSIE MILLER, P.E. Wastewater Reclamation Division

> LLOYD P.C.W. LEE, P.E. Engineering Division

**COUNTY OF MAUI DEPARTMENT OF PUBLIC WORKS** 

RECEIVED Solid Waste Division

AND WASTE MANAGEMENT 97 FEB 26 All Abnways Division

200 SOUTH HIGH STILL.
WAILUKU, MAUI, HAWAII 96793
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Mr. Gary Gill, Director State of Hawaii Department of Health OFFICE OF ENVIRONMENTAL QUALITY CONTROL 235 S. Beretania Street, #702 Honolulu, Hawaii 96813

SUBJECT:

FINAL ENVIRONMENTAL ASSESSMENT

MILL STREET RETAINING WALL

JOB NO. 94-11

Dear Mr. Gill:

The County of Maui, Department of Public Works and Waste Management has reviewed the comments received during the 30-day public comment period which began on December 8, 1996. The agency has determined that this project will not have a significant environmental effect and has issued a negative declaration. Please publish this notice in the next available publication of the OEQC Bulletin Publication.

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

If you have any questions, please contact Joe Krueger of our Engineering Division at (808) 243-7745.

CHARLES JENCKS

Director of Public Works and Waste Management

CY/JK:c(ED97-234)

1997-03-08-MA-FEA-Mill Street FILE COPY
Retaining Wall

# Final Environmental Assessment

### Mill Street Retaining Wall

Prepared for

Department of Public Works and Waste Management

February 1997



# Final Environmental Assessment

Mill Street Retaining Wall

Prepared for

Department of Public Works and Waste Management

February 1997



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#### <u>Preface</u>

The County of Maui, Department of Public Works and Waste Management (DPWWM), proposes to replace an existing retaining wall in Wailuku, Maui, Hawaii. Pursuant to Chapter 343, Hawaii Revised Statutes, and Chapter 200 of Title 11, Administrative Rules, Environmental Impact Statement Rules, this Environmental Assessment (EA) documents the project's technical characteristics and environmental impacts, and advances findings and conclusions relative to the significance of the project.

## Chapter 1

Project Overview

#### I. PROJECT OVERVIEW

#### A. PROPERTY LOCATION, EXISTING USE, AND LAND OWNERSHIP

The Applicant for the project is the County of Maui, Department of Public Works and Waste Management (DPWWM). The proposed project involves the replacement of a retaining wall along a portion of Mill Street in Wailuku, Maui, Hawaii. See Figure 1.

A retaining wall of cut stone and mortar extends along the Wailuku Town side (eastern) frontage of Mill Street, between Central Avenue and Market Street. Portions of the wall near the intersections are in relatively sound condition. However, segments of the wall near the central portion of the block are in unsatisfactory condition with most portions already missing. The exposed face of the soil cliff is readily visible where portions of the wall are missing.

The project site is entirely within Mill Street which is a County-owned readway. The Mill Street right-of-way is 46 feet in width. Existing pavement width is approximately 30 feet. The existing wall abuts the concrete sidewalk and is approximately 6 feet from residential parcels which also front Olu Drive. County funds will be utilized for the construction of the project.

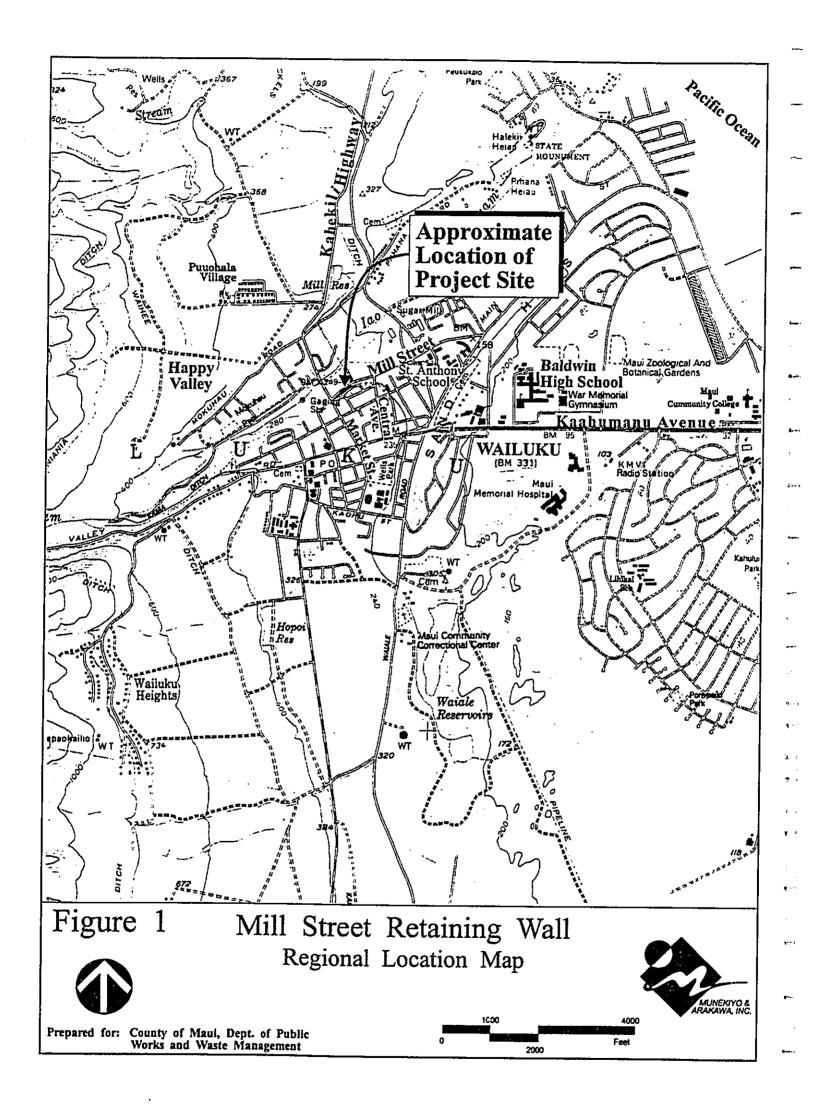
For further information on the project, contact Charles Jencks, Director, Department of Public Works and Waste Management, 200 South High Street, Wailuku, Hawaii 96793, or at telephone (808) 243-7845.

#### B. PROPOSED ACTION

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The proposed project involves construction of a new retaining wall along approximately 360 lineal feet of the Mill Street frontage. See Figure 2.



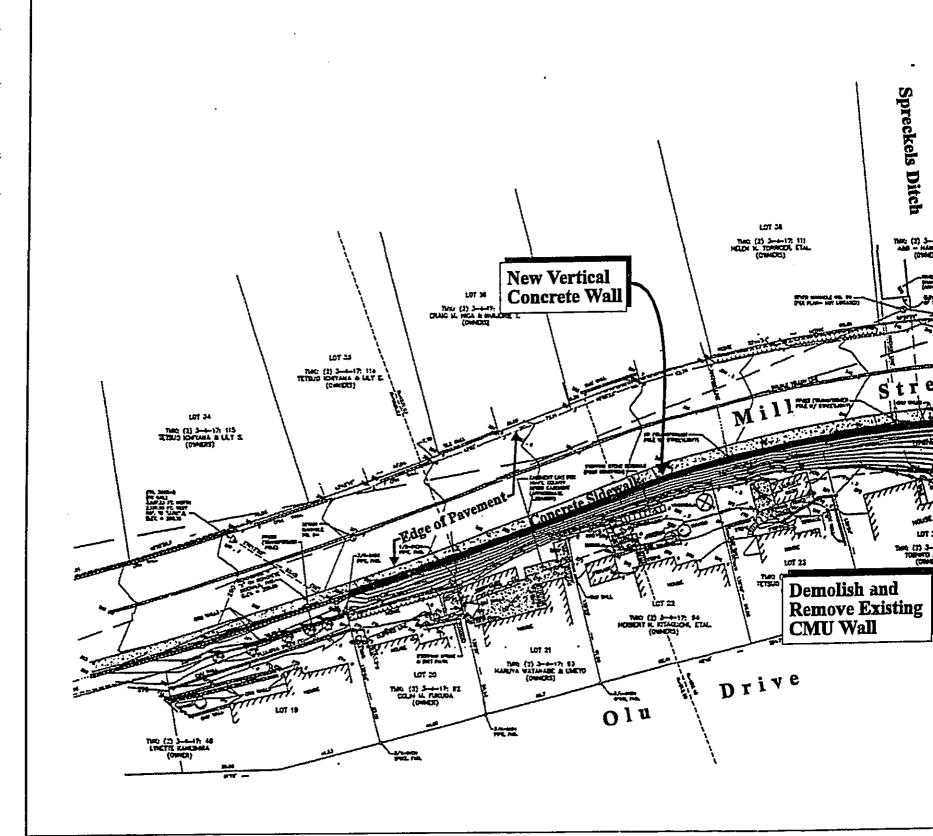


Figure 2

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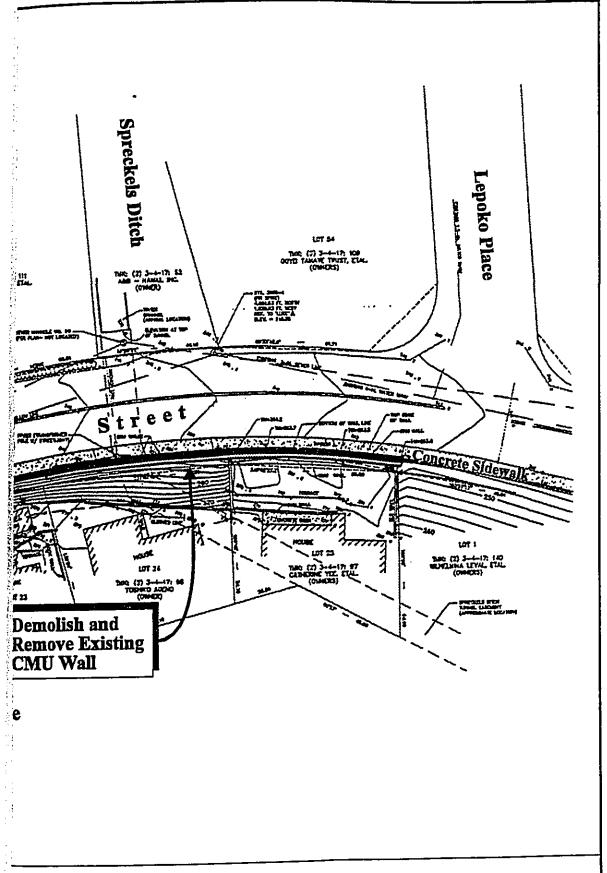
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Mill Street Retaining Wall
Site Location Map

Prepared for: County of Maui, Department of Public Works and Waste Management



Wall



NOT TO SCALE

The wall is proposed to be constructed within the County right-of-way in approximately the same location where it currently exists. The retaining wall would vary from approximately 14 to 22 feet above the Mill Street roadway surface. The concrete footing is located next to the property line and extends horizontally from 13 feet to 14 feet 4 inches. However, the 2 foot thick vertical concrete wall is located 6 feet from the property line. A stone veneer is proposed on the face of the retaining wall. A 5 foot fence will be erected on top of the retaining wall for safety purposes. See Figure 3.

In order to minimize surcharge loads, no structures would be allowed within 15 feet of the vertical wall. However, landscaping and sidewalks would be permitted. An existing concrete masonry unit retaining wall constructed along TMK 3-4-17:96 and 97 encroaches into the County right-of-way and is proposed to be demolished in order to construct the new wall.

Construction is anticipated to take two (2) months. The estimated construction cost is approximately \$650,000.

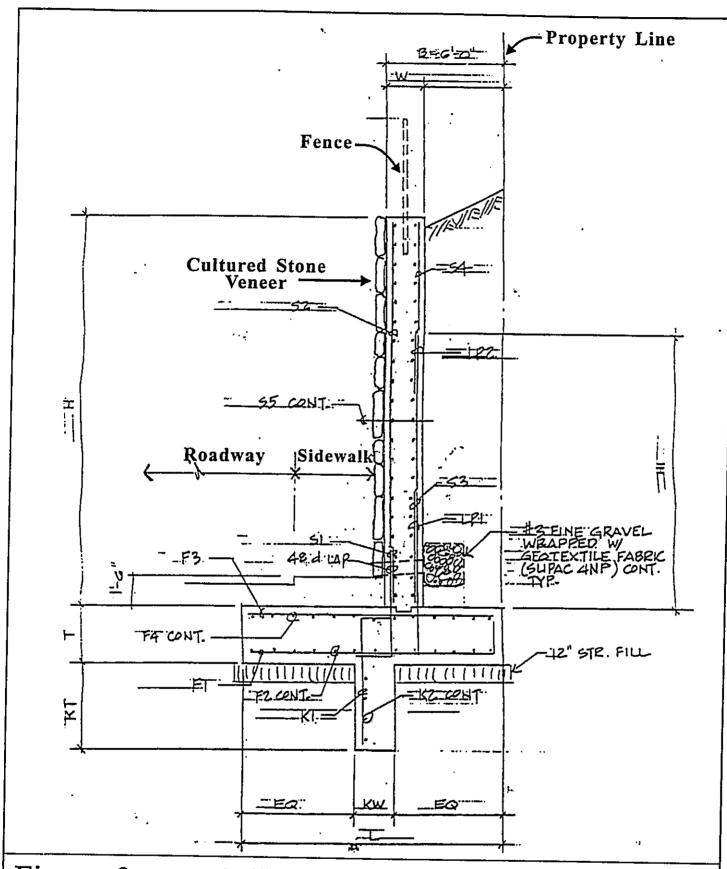


Figure 3 Mill Street Retaining Wall
Section of Vertical Concrete Wall
Next to Property Line



Prepared for: County of Maui, Department of Public Works and Waste Management

NOT TO SCALE

## Chapter 11

Description of the Existing Environment

#### II. DESCRIPTION OF THE EXISTING ENVIRONMENT

#### A. PHYSICAL ENVIRONMENT

#### 1. Surrounding Land Use

The project site is located in Wailuku Town which is the governmental and business center for Maui. Wailuku is located on the foothills of the West Maui Mountains containing a diverse range of commercial, light industrial, and public uses, as well as established older residential areas in the midst of town.

To the north of the project site is the Lepoko Place residential area. Further north is the Millyard industrial area. To the west are residential uses which slope down to the Happy Valley area. Commercial uses are clustered around Market Street. To the east and south are residential uses which abut Olu Drive. From the project site, land slopes up to the established residential area along Olu Drive.

The Spreckels Ditch passes under the Mill Street roadway surface and under the project site approximately 120 feet to the west of Lepoko Place.

#### 2. <u>Climate</u>

Like most areas of Hawaii, Maui's climate is relatively uniform year-round. Characteristic of Hawaii's climate, the project site experiences mild and uniform temperatures year-round, moderate humidity and a relatively consistent northeasterly tradewind. Variation in climate on the island is largely left to local terrain.

Average temperatures at the project site (based on temperatures recorded at Kahului Airport) range from lows in the 60's to highs in

the 80's. August is historically the warmest month, while January and February are the coolest. Rainfall at the project site averages approximately 20 to 30 inches per year. Winds in the region are predominantly out of the north-northeast and northeast.

#### 3. Topography and Soil Characteristics

The project site is located at approximately the 240 foot elevation. The project site slopes almost vertically approximately 14 to 22 feet from the existing Mill Street roadway to the existing homes with Olu Street frontage.

Underlying the proposed site are soils of the Pulehu-Ewa-Jaucas association. This soil association is characteristically deep and well-drained and located on alluvial fans and basins.

The soil type underlying the project site is Wailuku silty clay, 3 to 7 percent slopes (WvB). The permeability of Wailuku silty clay is moderate. Runoff is slow to medium, and the erosion hazard is slight to moderate.

#### 4. Flood and Tsunami\_Hazard

The project site is located within Zone "C" as determined by the Flood Insurance Rate Map for the region. Zone "C" is an area of minimal flooding. The property is located well beyond tsunami inundation areas.

#### 5. Flora and Fauna

The project site is located in the midst of the urbanized district of Wailuku. Vegetation on the project site includes exotic vegetation such as haole koa, weeds and grasses. There are no known rare,

endangered or threatened species of plants within or surrounding the project site.

Fauna and avifauna found at the site are also characteristic of the surrounding urbanized region. Fauna typically found in the vicinity of the site include mongoose, rats, dogs, and cats. Avifauna typically include mynas, doves, cardinals, and house sparrows. There are no known rare, endangered or threatened species of fauna or avifauna found within the vicinity of the project site.

#### 6. Air Quality

Air quality in the Wailuku-Kahului region is considered good as point sources (e.g., Maui Electric Power Plant, HC&S Mill) and non-point sources (e.g., automobile emissions) of emission are not significant to generate high concentrations of pollutants. The relatively high quality of air can also be attributed to the region's constant exposure to winds which quickly disperse concentrations of emissions.

#### 7. Noise Characteristics

Traffic noise and activities of the surrounding urban area are the primary sources of background noise in the vicinity of the project site.

#### 8. Visual Resources

The property is within the Mill Street right-of-way, adjacent to lands which slope upwards to the Olu Drive residential area. The project site is not part of any scenic corridor.

#### 9. Archaeological/Historical Resources

The project site steeply slopes from the Mill Street sidewalk to the abutting residences. Over time, portions of the wall have crumbled leaving portions of the slope exposed. There are no surface archaeological features found on the site.

#### B. <u>SOCIO-ECONOMIC ENVIRONMENT</u>

#### 1. Population

The population of the County of Maui has exhibited relatively strong growth over the past decade with the 1990 population estimated to be 100,374, a 41.7 percent increase over the 1980 population of 70,847 (State of Hawaii Data Book, 1992). Growth in the County is expected to continue, with resident population projections to the years 2000 and 2010, estimated to be 112,349 and 133,459, respectively (Community Resources, Inc., January 1994).

The Wailuku-Kahului Community Plan region follows the Countywide pattern of population growth, with the region's 1990 population of 32,816 projected to rise to 40,452 by the year 2000 and to 48,132 by the year 2010 (Community Resources, Inc., January 1994).

#### 2. Economy

As noted previously, the Wailuku region is the Island's center of governmental activities, as well as a focal point for professional and business services. Combined with neighboring Kahului, the region's economic character encompasses a broad range of commercial, service, and governmental activities. In addition, the region is surrounded by significant agricultural acreages which include sugar cane fields, pineapple fields, and macadamia nut

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orchards. The vast expanse of agricultural land, managed by Hawaiian Commercial & Sugar (HC&S) and Wailuku Agribusiness, is considered a key component of the local economy.

#### C. PUBLIC SERVICES

#### 1. Police and Fire Protection

Police protection for the Wailuku-Kahului region is provided by the County Police Department headquartered at the Wailuku Station, approximately 1.5 miles from the project site. The region is served by the Department's Central Maui patrol.

Fire prevention, suppression, and protection services for the Wailuku-Kahului region is provided by the County Department of Fire Control's Wailuku Station, located in Wailuku Town, approximately 0.5 mile from the project site.

#### 2. Health Care

Maui Memorial Hospital, the only major medical facility on the Island, services the Wailuku-Kahului region. Acute, general and emergency care services are provided by the 185-bed facility. In addition, numerous privately operated medical/dental clinics and offices are located in the area to serve the region's residents.

#### 3. Solid Waste

Single-family residential solid waste collection service is provided by the County of Maui on a once-a-week basis. Residential solid waste collected by County crews are disposed at the County's 55acre Central Maui Landfill, located four (4) miles southeast of the Kahului Airport. In addition to County-collected refuse, the Central Maui Landfill accepts commercial waste from private collection companies.

#### 4. Recreation Resources

The Wailuku-Kahului region encompasses a full range of recreational opportunities, including shoreline and boating activities at the Kahului Harbor and adjoining beach parks, and individual and organized athletic activities offered at numerous County parks. The project site is in close proximity to lao Valley State Park, the Wailuku Community Center, Wells Park, and Papohaku Park.

#### 5. Schools

The Wailuku-Kahului region is served by the State Department of Education's public school system as well as several privately operated schools accommodating elementary, intermediate and high school students. Department of Education facilities in the Wailuku-Kahului area include Lihikai and Kahului Schools (Grades K to 5), Maui Waena Intermediate School (Grades 6 to 8), and Maui High School (Grades 9 to 12). Schools in the Wailuku area include Wailuku Elementary School (Grades K to 5), lao Intermediate School (Grades 6 to 8), and Baldwin High School (Grades 9 to 12). The Maui Community College, a branch of the University of Hawaii, serves as the Island's only Community College.

#### D. INFRASTRUCTURE

#### 1. Roadways

From a regional perspective, the Wailuku-Kahului region is the roadway "hub" of the island. Traffic between Makawao-Pukalani-

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Kula, Kihei-Makena, and West Maui must pass through Wailuku-Kahului.

The Wailuku region is served by a roadway network which includes arterial, collector, and local roads. Major roadways serving Wailuku Town include Honoapiilani Highway, Kaahumanu Avenue, Main Street, and Lower Main Street.

Access between Wailuku and Kahului is limited to Kaahumanu Avenue and Kahului Beach Road. Kaahumanu Avenue is a four (4) to six (6) lane divided roadway in Kahului which becomes Main Street in Wailuku. Kahului Beach Road is a two (2) lane roadway, which connects to Lower Main Street, leading to Wailuku, and Waiehu Beach Road, continuing along the coastline. Through Wailuku Town, Lower Main Street becomes Waiale Road.

Mill Street provides a linkage between Lower Main Street with Central Avenue and Market Street, major collector roadways within Wailuku Town.

#### 2. Wastewater

Domestic wastewater generated in the Wailuku-Kahului region is conveyed to the County's Wailuku-Kahului Wastewater Reclamation Facility located 0.5 mile south of Kahului Harbor. The design capacity of the facility is 7.9 million gallons per day. Average daily flow currently processed through the plant is approximately 6.45 mgd (telephone conversation with Dave Taylor, Wastewater Reclamation Division, July 1996).

An existing four (4) inch sewer line connects TMK 3-4-17:96 to an existing eight (8) inch sewer line within Mill Street.

#### 3. Water

The Wailuku-Kahului region is served by the Board of Water Supply's (BWS) domestic water system. Water drawn from the lao Aquifer System is conveyed to this region for distribution and consumption.

There is an existing four (4) inch waterline within the Mill Street right-of-way.

#### 4. <u>Drainage</u>

Runoff from the residences adjacent to the project site sheet flows partially toward Olu Drive as well as toward Mill Street. There are no existing catch basins or drain inlets along Olu Drive and Mill Street.

#### 5. Electrical and Telephone Service

Electrical and telephone service is currently provided to the adjacent properties via overhead power lines which are located along Mill and Lower Main Streets.

## Chapter III

Potential Impacts and Mitigation Measures

#### III. POTENTIAL IMPACTS AND MITIGATION MEASURES

#### A. PHYSICAL ENVIRONMENT

#### 1. Surrounding Land Uses

The project site is located within the urbanized district of Wailuku. As previously noted, the Wailuku region is the governmental and business center of Maui containing a diverse range of commercial, light industrial, and public uses, as well as an older established residential area in the midst of the town. Land uses in the immediate vicinity of the project site are established residential neighborhoods.

The proposed project will enhance the surrounding residential land uses by providing substantial safety benefits for adjacent properties. For pedestrians utilizing the sidewalk and vehicular traffic utilizing this segment of Mill Street, the project also provides an additional element of safety.

Spreckels Ditch is approximately 12 feet wide where it passes beneath the street and the proposed retaining wall. Although the actual composition and condition of the tunnel is not known, the entry to the tunnel is lined with an arched concrete masonry unit headwall where the ditch enters the tunnel. The top of the headwall is at 236 feet above sea level. The ground surface of the street along the new wall alignment over the tunnel varies from 246 to 248 feet above sea level. Footing for the proposed wall would be placed a maximum of 7 feet 10 inches below grade. Thus, the proposed project should not affect the existing ditch. Should the tunnel be damaged as a result of construction-related activities, discussions will be undertaken with the owner regarding possible remedies.

#### 2. Flora and Fauna

There are no known significant habitats or rare, endangered or threatened species of flora and fauna at the subject property. The removal of existing flora and the displacement of fauna are not considered a negative impact upon these environmental features.

#### 3. Air Quality and Noise

Air quality impacts attributed to the project will include dust generated by short-term construction-related activities. Dust control measures, such as regular watering and sprinkling, will be implemented, as necessary, to minimize wind-blown emissions.

Ambient noise conditions will also be temporarily impacted by construction activities. Construction equipment would be the dominant source of noise during the construction period. All construction activities will be limited to normal daylight working hours.

Once the project is completed, the project is not expected to impact air quality or noise parameters in the general vicinity.

#### 4. Archaeological Resources

No surface cultural materials were found within the project site.

In a letter dated February 22, 1995, the State Historic Preservation Division (SHPD) noted that it appears unlikely that cultural deposits are present in the existing portions of the cliff face. See Chapter VI. However, if the wall is over 50 years old, then a photographic record would be needed. Also, SHPD noted that the stone face of the wall contributes to the character of the neighborhood.

Oral interviews indicated that the existing wall is over 50 years old and thus considered historic. A documentary history and photographic record was compiled by the applicant and submitted to SHPD. By letter dated May 31, 1996, the SHPD found that the proposed demolition should have "no effect" on any historically significant site. However, SHPD urged the applicant to consider reuse of cut stone in the face of the new retaining wall. See Appendix A.

Regarding the reuse of cut stone, it is noted that there is an insufficient amount of cut stone resulting from the demolition to utilize for the wall facia. However, a cultured stone veneer will be placed over the concrete wall facia in order to complement the existing stone wall segments near Central Avenue and Market Street.

In case human remains or cultural materials are found during subsurface excavation, applicable procedures to ensure compliance with Chapter 6E, HRS, will be followed.

#### 5. Visual Resources

The project will provide a much-needed retaining wall in the area. The concrete wall with cultured stone veneer is not anticipated to adversely affect scenic resources in the area.

#### B. <u>IMPACTS TO SOCIO-ECONOMIC ENVIRONMENT</u>

#### 1. Local Economy and Population

On a short-term basis, the project will support construction and construction-related employment. Accordingly, the project will have

a beneficial impact on the local economy during the period of construction.

In the long term, the proposed project is not anticipated to have an adverse impact upon the local economy or population.

#### 2. Police, Fire and Medical Services

Police, fire, and medical services are not expected to be adversely impacted by the proposed project. The project will not extend existing service area limits for emergency services.

#### 3. Solid Waste

A solid waste management plan will be developed in coordination with the Solid Waste Division of the County DPWWM for the disposal of clearing and grubbing material from the site during construction.

#### C. INFRASTRUCTURE

#### 1. Roadways

During construction of the wall, at least one lane of traffic will be open at all times.

It is noted that the retaining wall is proposed in the same location as the previous wall. After completion of construction, the width of the pavement and sidewalk will be the same as the existing condition. Mill Street will continue to be a two-lane, two-way roadway.

#### 2. Water and Wastewater

As a result of the project, there will be no net increase in water usage to the County water system serving the area. There will also be no net increase in the average daily flow of wastewater to the Kahului Wastewater Treatment Facility as a result of the proposed project. As such, the project is not anticipated to have an adverse impact upon the region's water and wastewater systems.

The existing four (4) inch waterline within Mill Street will not be impacted by the project. However, coordination with the Department of Public Works and Waste Management will be undertaken to ensure that sewer service to TMK 3-4-17:96 is not impacted by the construction of the retaining wall footing.

#### 3. <u>Drainage and Erosion Control</u>

The project does not alter existing drainage patterns. The proposed improvements are not anticipated to have an adverse drainage impact upon existing drainage systems. No significant adverse drainage impacts to adjacent and downstream properties should result from the proposed project.

Appropriate erosion control measures will be incorporated during the construction phase to minimize soil loss associated with construction activities.

#### 4. Electrical and Telephone Service

Relocation of power poles required by the project will be coordinated with Maui Electric Company and GTE Hawaiian Telephone.

## Chapter IV

Relationship to Government Plans, Policies, and Controls

### IV. RELATIONSHIP TO GOVERNMENT PLANS, POLICIES, AND CONTROLS

#### A. STATE LAND USE DISTRICTS

Chapter 205, Hawaii Revised Statutes, relating to the Land Use Commission, establishes the four (4) major land use districts in which all lands in the State are placed. These districts are designated "Urban", "Rural", "Agricultural", and "Conservation". The subject parcel is within the "Urban" district. The proposed action involves the construction of a retaining wall which is compatible with the "Urban" designation.

#### B. MAUI COUNTY GENERAL PLAN

The Maui County General Plan (1990 Update) sets forth broad objectives and policies to help guide the long-range development of the County. As stated in the Maui County Charter, "The purpose of the General Plan is to recognize and state the major problems and opportunities concerning the needs and the development of the County and the social, economic and environmental effects of such development and set forth the desired sequence, patterns and characteristics of future development".

The proposed action is in keeping with the following General Plan objective and policy:

**Objective:** To develop a program for anticipating and enlarging the local street and highways systems in a timely response to planned growth.

**Policy:** Streamline maintenance methods for public highways to encourage a prompt response to road repair needs.

#### C. WAILUKU-KAHULUI COMMUNITY PLAN

The project site is located in the Wailuku-Kahului Community Plan region which is one (1) of nine (9) Community Plan regions established in the

County of Maui. Planning for each region is guided by the respective Community Plans, which are designed to implement the Maui County General Plan. Each Community Plan contains recommendations and standards which guide the sequencing, patterns and characteristics of future development in the region.

The project site is adjacent to properties designated as Service Business/Residential (SB/R). The proposed project is not inconsistent with the Community Plan.

## Chapter V

Findings and Conclusions

### V. FINDINGS AND CONCLUSIONS

The proposed project involves the construction of approximately 360 lineal feet of retaining wall along Mill Street in Wailuku, Maui. Since County lands and funds are proposed to be utilized for the project, an Environmental Assessment has been prepared pursuant to Chapter 343, Hawaii Revised Statutes, and Chapter 200 of Title 11, Administrative Rules of the State Department of Health.

Every phase of the proposed action, expected consequences, both primary and secondary, and the cumulative as well as the short-term and long-term effects of the action have been evaluated in accordance with the <u>Significance Criteria</u> of Section 11-200-12 of the Administrative Rules. Based on the analysis, the proposed project will not result in any significant impacts. Discussion of project conformance to the criteria is noted as follows:

### 1. No Irrevocable Commitment to Loss of Destruction of any Natural or Cultural Resource Would Occur as a Result of the Proposed Project

There are no known significant habitats or rare, endangered or threatened species of flora and fauna at the project site. No surface cultural materials were found at the project site. Should cultural materials be found during subsurface excavation, applicable procedures to ensure compliance with Chapter 6E, HRS, will be followed. The project is not anticipated to adversely affect scenic resources.

### 2. <u>The Proposed Action Would Not Curtail the Range of Beneficial Uses</u> of the <u>Environment</u>

The site is located in the midst of an already existing urban area and would involve the construction of a retaining wall which formerly existed at this location. The project would not have a significant effect on the beneficial uses of the environment.

## 3. The Proposed Action Does Not Conflict With the State's Long-Term Environmental Policies or Goals or Guidelines as Expressed in Chapter 344, Hawaii Revised Statutes

The State Environmental Policy and Guidelines are set forth in Chapter 344, Hawaii Revised Statutes. The proposed action is in consonance with the following policies and guidelines:

#### **Environmental Policy:**

Enhance the quality of life by:

(C) Establishing communities which provide a sense of identity, wise use of land, efficient transportation, and aesthetic and social satisfaction in harmony with the natural environment which is uniquely Hawaiian.

#### **Guidelines:**

\* \* \*

\* \* \*

- (8) Community life and housing
  - (A) Foster lifestyles compatible with the environment; preserve the variety of lifestyles traditional to Hawaii through the design and maintenance of neighborhoods which reflect the culture and mores of the community.
- 4. The Economic or Social Welfare of the Community or State Would
  Not Be Substantially Affected

The project would directly benefit the local economy primarily during the construction phase. In the long term, however, the project should have a negligible effect upon the local economy.

#### 5. The Proposed Action Does Not Affect Public Health

The project is essentially a safety improvement in the Mill Street area and is a benefit to public health, safety and welfare.

### 6. <u>No Substantial Secondary Impacts, Such as Population Changes or Effects on Public Facilities, are Anticipated</u>

No population changes are anticipated as a result of the proposed project. After construction is completed, the Mill Street roadway and sidewalk width should be the same as it currently exists. The project should not have any effect upon regional water or wastewater facilities. Any effects upon water and sewer lines within the project site will be mitigated so that service can be maintained. Drainage patterns are not affected by the proposed project. The project is not expected to significantly impact public services such as police, fire and medical services. Impacts upon educational and long term solid waste parameters are also negligible.

#### 7. No Substantial Degradation of Environmental Quality is Anticipated

The proposed project involves the construction of a retaining wall which was formerly in that location. The wall retains earth which provides foundation for existing residences along Olu Street. No substantial degradation of environmental quality is anticipated as a result of the project.

## 8. <u>The Proposed Action Does Not Involve a Commitment to Larger Actions, Nor Would Cumulative Impacts Result in Considerable Impacts to the Environment</u>

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The proposed project would be built in one phase and would not involve a commitment to future expansion or larger actions.

### 9. No Rare, Threatened or Endangered Species or Their Habitats Would Be Adversely Affected By the Proposed Action

There are no rare, threatened or endangered species of flora, fauna or avifauna or their habitats on the subject property.

### 10. <u>Air Quality, Water Quality or Ambient Noise Levels Would Not Be</u> <u>Detrimentally Affected By the Proposed Project</u>

Construction of the proposed project will involve short-term environmental impacts associated with construction activities. These include air quality and noise impacts. Dust control measures such as watering and sprinkling will be implemented as needed to minimize wind blown emissions. Construction activities are also anticipated to be limited to daylight hours only. Traffic monitoring and coordination is anticipated to minimize inconveniences normally associated with construction. At least one (1) lane of traffic is expected to remain open at all times during construction. Impacts generated from construction activities are not considered adverse. In the long term, the project is not anticipated to have a significant impact on air quality, water quality, or ambient noise levels.

## 11. The Proposed Project Would Not Affect Environmentally Sensitive Areas, Such as Flood Plains, Tsunami Zones, Erosion-Prone Areas, Geologically Hazardous Lands, Estuaries, Fresh Waters or Coastal Waters

The project site is located within Zone C, an area of minimal flooding. The site is well away from tsunami inundation zones. Soils of the project site are not erosion-prone. There are no geologically hazardous lands or estuaries within or adjacent to the project site. The Spreckels Ditch extends under the Mill Street roadway surface and the subject site. Proposed footings for the retaining wall appear to be above the upper

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limits of the tunnel walls and should not cause any damage to the tunnel. However, should the wall be damaged, possible remedies will be discussed with the owner.

### 12. The Proposed Project Does Not Substantially Affect Scenic Vistas and Viewplanes Identified in County or State Plans or Studies

The project will not adversely affect scenic vistas and viewplanes. The proposed wall is located in the middle of an already existing urban area and will have a cultured stone veneer to complement existing abutting sections of the wall along Mill Street.

### 13. <u>The Proposed Project Does Not Require Substantial Energy</u> <u>Consumption</u>

The proposed project does not require or involve substantial energy consumption activities.

Based on the foregoing findings, it is concluded that the proposed action will not result in any significant impacts.

## Chapter VI

Agencies Contacted in the Preparation of the Environmental Assessment and Responses Received

### VI. AGENCIES CONTACTED IN THE PREPARATION OF THE ENVIRONMENTAL ASSESSMENT AND RESPONSES RECEIVED

The following agencies were contacted during the preparation of the Environmental Assessment.

- Brian Miskae, Director
   Planning Department
   250 South High Street
   Wailuku, Hawaii 96793
- Theresa Donham
   State Historic Preservation Division
   Department of Land and Natural Resources
   1325 Lower Main Street, Room 108
   Wailuku, Hawaii 96793
- Jocelyn Perreira
   Wailuku Main Street Association
   2062 Main Street
   Wailuku, Hawaii 96793



BRIAN W. MISKAE\_\_\_\_

GWEN Y. OHASHI Deputy Director

### COUNTY OF MAUI PLANNING DEPARTMENT

250 S. HIGH STREET WAILUKU. MAUI, HAWAII 96793

February 14, 1995

Mr. Milton Arakawa Munekiyo & Arakawa, Inc. 1823 Wells Street, Suite 3 Wailuku, Hawaii 96793

Dear Mr. Arakawa:

Re: Mill Street Retaining Wall; TMK: 3-4-17: por. of 91, 92, 93, 94, 95, 96, & 97

Thank you for allowing us to comment on the above-referenced project.

Enclosed is a map of the Wailuku Redevelopment Area (WRA). It appears that a small portion of the project, approximately 12', is located within the WRA. Although the majority of the project is located outside of the WRA, the impact of the above referenced project on the WRA should be taken into consideration. The proposed project description does not indicate the type of material to be used in the construction of the wall. The Planning Department would recommend the use of stone as the primary material in the construction of the wall. This material would complement the existing stone wall adjacent to the project area and would be consistent with the Draft Design Guidelines for the Wailuku Redevelopment Area.

Should you require further clarification, please contact Mr. Joseph Alueta of this office.

Yours truly,

BRIAN MISKAE

Planning Director

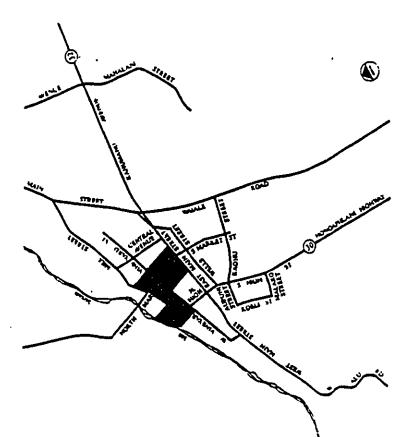
e:MilWaller BWM:JA:SC

Enclosure xc: Colleen Suyama

. Ann T. Cua

Joseph Alueta

Maui Redevelopment Agency



THE THE STATE OF

TAD STREAM

FIGURE 2 PROJECT AREA



**©** 

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Centrally located in town, the Wailuku Redevelopment Area (Figure 2) covers approximately 27 acres, and includes the business slocks surrounding the Vineyard/Market Street intersection, and he housing areas west of Church Street to High Street, and north of Vineyard Street to the I'ao Stream.

The study area is composed of two basic land use types—commercial and residential. Densities are low and even though most lots have been developed, structures occupy a relatively small proportion of the total land area. Building heights rarely exceed two stories.



#### STATE OF HAWAII

#### DEPARTMENT OF LAND AND NATURAL RESOURCES

STATE HISTORIC PRESERVATION DIVISION 33 SOUTH KING STREET, 6TH FLOOR HONOLULU, HAWAII 96813 MICHAEL D. WILSON, CHARPERSON BOARD OF LAND AND NATURAL RESOURCE

> DEPUTY GLEEKT COLOMA-AGARAN

AQUACILTURE DEVELOPMENT
PROGRAM

AQUATIC RESOURCES

CONSERVATION AND FINISHMENTAL AFFAIR

CONSERVATION AND
RESOURCES ENFORCEMENT

CONVEYANCES
FORESTRY AND WILDLIFE

HISTORIC PRESERVATION
DIVISION
LAND MANAGEMENT

STATE PARKS WATER AND LAND DEVELOPME

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February 22, 1995

LOG NO.: 13956 DOC NO.: 9502KD24

Milton Arakawa Munekiyo & Arakawa, Inc. 1823 Wells St., Suite 3 Wailuku, HI 96793

Dear Mr. Arakawa:

SUBJECT:

Historic Preservation Review of a Retaining Wall Replacement Project

Mill Street, Wailuku, Wailuku District, Maui

TMK: 3-4-17

Thank you for the opportunity to comment on the proposed retaining wall replacement project which is located along the south side of Mill street, between Central Avenue and Market Street. The project involves removal of a badly eroded, broken retaining wall and construction of a new wall. The age of the existing wall is unknown.

The partially existing retaining wall is constructed of cut stone and mortar. Along sections, an upper level wall of mortared water worn boulders and cobbles is present. The former wall is no longer present along the major portion of the project area.

The wall replacement area was examined by Historic Preservation staff on February 16, 1995. The exposed face of the soil cliff was readily visible along most of the length of the improvement project. Natural stratigraphy was observed in the upper portions of the soil face. This stratigraphy reflects an alluvial substrate with embedded basalt boulders that are in advanced stages of decomposition. The lower portion of the slope consists of rock and soil fill, much of which probably fell from above. No topsoil layers are present and no cultural deposits were observed. Based on the natural layers that are present, it appears unlikely that cultural deposits are present in the existing portions of the cliff face.

All portable remains observed along the wall area are of late twentieth century manufacture and are in secondary contexts.

It is very likely that the broken stone wall is over 50 years in age. If possible, a construction date should be provided in the Environmental Assessment (EA) for the project. If the wall is over 50 years in age, we recommend that a photographic record of the existing wall sections be completed prior to their removal. Please submit photographs and clear identification information to the Historic Preservation Division for our files.

Due to the poor condition of the existing wall, it is not considered to be significant as an example of stone work. The stone face of this and other walls along Mill Street do, however, contribute to the historic character of this neighborhood.

The information we received for this project does not provide a description of the proposed new wall, which is to be from 12 to 20 feet in height. If material other than stone or cut stone is to be used, the potential visual impacts and aesthetic impacts to the neighborhood should be discussed in the EA.

We request an opportunity to review the EA when it is completed.

If you have any questions, please contact Ms. Theresa K. Donham at 243-5169

Sincerely,

DON HIBBARD, Administrator Historic Preservation Division

KD:ab



### Wailuku Main Street Association, Inc. Tri-Isle Main Street Resource Center

A Non-Profit Organization 2062 Main St., Wailuku, Maui, HI 96793 • Tel (808) 244-3888 • Fax (808) 242-2710

To: Munekiyo & Arakawa

1823 Wells Street, Suite 3 Wailuku, Hawaii 96793

From: Wailuku Main Street Association, Inc.

Date: March 14, 1995

RE: Mill Street Retaining Wall

Attn: Milton Arakawa

The Wailuku Main Street Association's Structure & Design Committee reviewed the above project submittal and offers the following recommendation:

In order to maintain Wailuku's historic character, it is important that the retaining wall along a portion of Mill Street in Wailuku be a rock or rock faced wall that esthetically complements or duplicates the existing wall. We hope not to see a concrete block, concrete or plastered wall.

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Thank you for the opportunity to review and provide comments.

WAILUKU MAIN STREET ASSOCIATION, INC. - Tri-Isle Main Street Resource Center-

Jocelyn A. Perreira
Executive Director

Tom Cannon

Chairman, Design Review Committee

# Chapter VII

Comments Received During Public Comment Period and Applicable Responses

GARY GILL-DIRECTOR

BENJAMIN J. CAYETANO
GOVERNOR



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STATE OF HAWAII

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OFFICE OF ENVIRONMENTAL QUALITY CONTROL

COUN. PUR 236 SOUTH BERETANIA STREET
SUITE 702
HONOLULU, HAWAII 95813
TELEPHONE (808) 588-4185
FACSIMILE (808) 586-4186

December 23, 1996

Mr. Charles Jencks, Director Department of Public Works and Waste Management 200 South High Street Wailuku, Hawaii 96793

Dear Mr. Jencks:

Subject: Draft Environmental Assessment for the Mill Street Retaining Wall, Wailuku, Maui

Thank you for the opportunity to review the subject document. We have the following comments.

- 1. The Draft EA should provide more details and diagrams to evaluate present and future earth movement in the area. Please provide a preliminary plan and profile sketches showing: a) present earth movement and surface and sub-surface drainage patterns; b) proposed retaining wall and fill; and c) future drainage patterns after the improvements. The drawings must show the location of the wall in relation to existing features.
- Please provide a photograph of the stone veneer that will be placed on the face of the retaining wall.

Should you have any questions, please call Jeyan Thirugnanam at 586-4185. Mahalo.

Sincerely,

Gary\_Gill Director

Director

c: Munekiyo and Arakawa

LINDA CROCKETT LINGLE Mayor

> CHARLES JENCKS Director

DAVID C. GOODE Deputy Director

AARON SHINMOTO, P.E. Chief Staff Engineer



## COUNTY OF MAU! DEPARTMENT OF PUBLIC WORKS AND WASTE MANAGEMENT

200 SOUTH HIGH STREET WAILUKU, MAUI, HAWAII 96793

February 12, 1997

RALPH NAGAMINE, L.S., P.E. Land Use and Codes Administration

EASSIE MILLER, P.E. Wastewater Reclamation Division

LLOYD P.C.W. LEE, P.E. Engineering Division

Solid Waste Division

BRIAN HASHIRO, P.E. Highways Division

Mr. Gary Gill Director OFFICE OF ENVIRONMENTAL QUALITY CONTROL 236 South Beretania Street, Suite 702 Honolulu, Hawaii 96813

SUBJECT:

DRAFT ENVIRONMENTAL ASSESSMENT FOR MILL STREET

RETAINING WALL

WAILUKU, MAUI, HAWAII

Dear Mr. Gill:

We would like to take this opportunity to respond to your letter of December 23, 1996 pertaining to the subject draft environmental assessment.

- 1. Pursuant to your comments, we will provide the enclosed plan and profile sheets as part of the final environmental assessment. We would like to note that the original retaining wall lasted approximately 40 years before portions of it fell in 1978. The new wall is proposed to be built in approximately the same location as the former wall and will not alter existing drainage patterns. The attached sheets also show the location of the wall in relation to existing features.
- 2. Attached is a color reproduction of the stone veneer intended to be utilized on the face of the wall. This would be a natural stone replica which should look and feel very similar to the original cut stone wall.

RECEIVED

FEB 19 1997

SATO & ASSOC., INC. MAUI OFFICE Mr. Gary Gill

SUBJECT:

DRAFT ENVIRONMENTAL ASSESSMENT FOR MILL STREET

**RETAINING WALL** 

WAILUKU, MAUI HAWAII

February 12, 1997

Page 2

If you have any questions, please feel free to call Joe Krueger of our Engineering Division at (808) 243-7745.

CHARLES JENCKS
Director of Public Works
and Waste Management

LL/JK:c(ED97-124)

**Attachments** 

xc: Sato & Associates



### Split Quarried

The ideal texture for

any application that calls for

low relief and medium-scale

to large-scale stones.

Split Quarried's inspirations

were originally fashioned

by masons looking for a way

to create a more even surface

over a broad area with as few

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Stone, a large stone doesn't mean
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Shown: Flintstone (CSV-2034)

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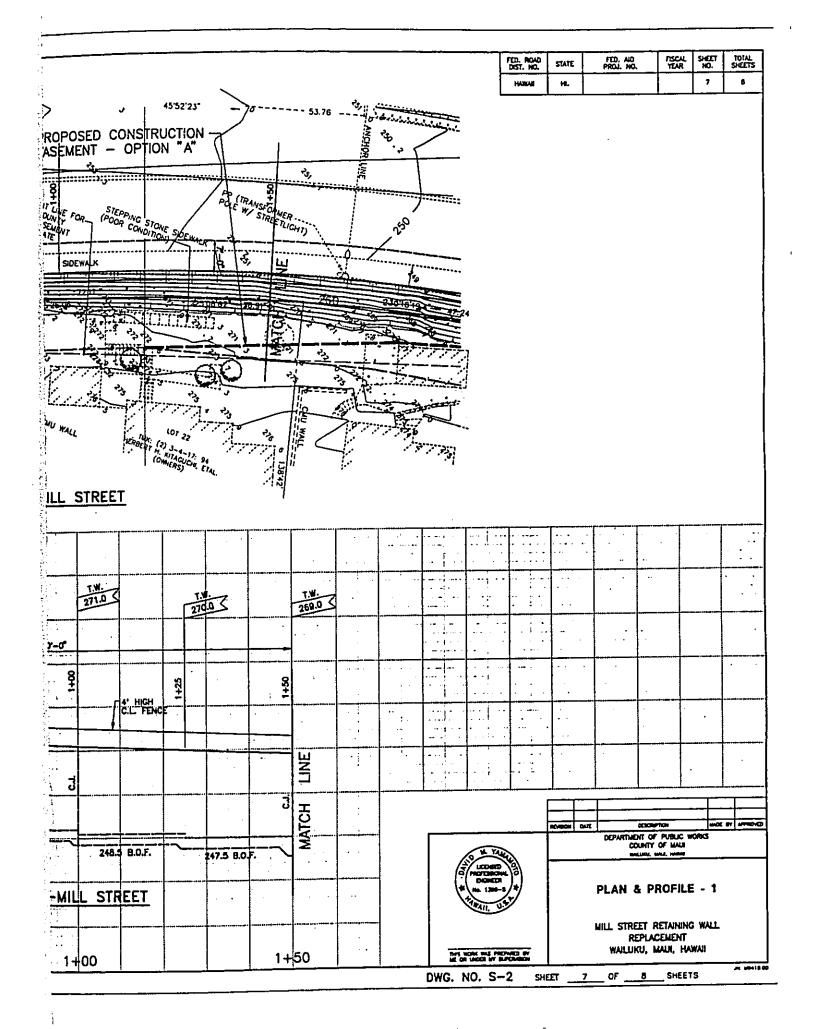
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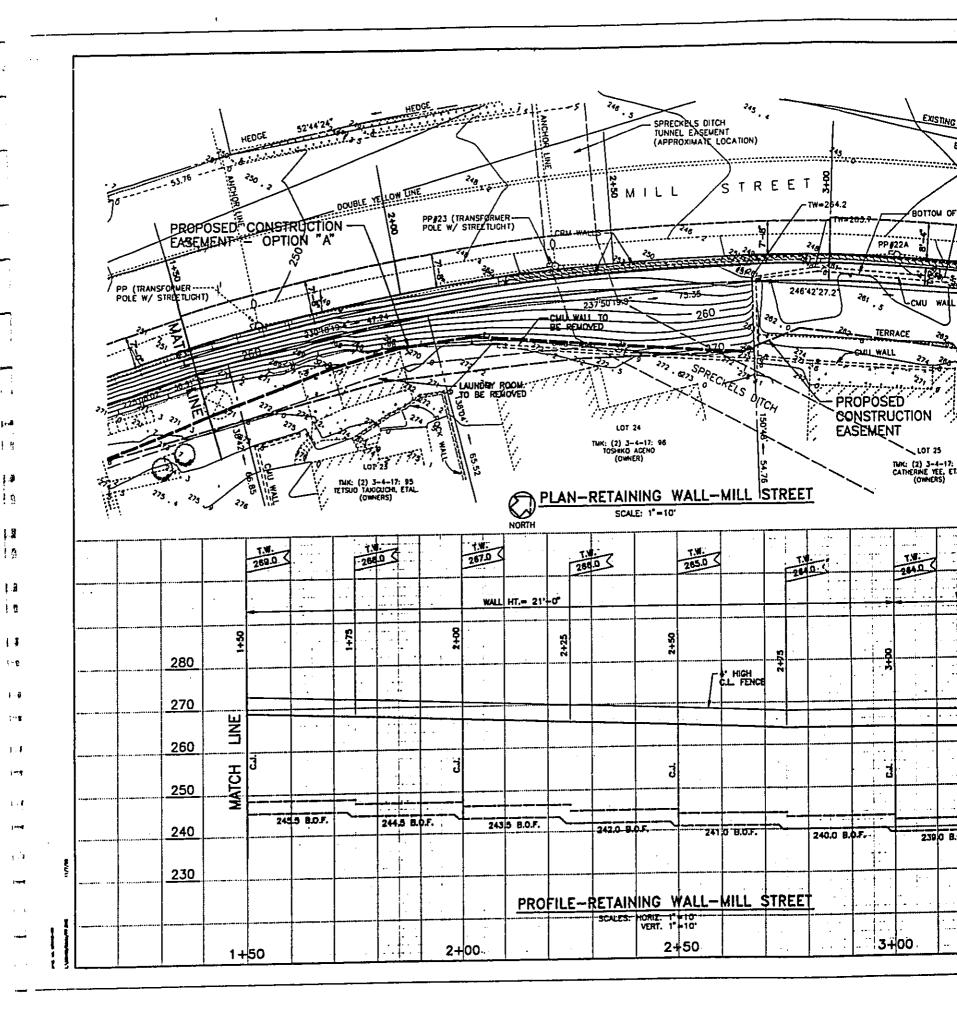
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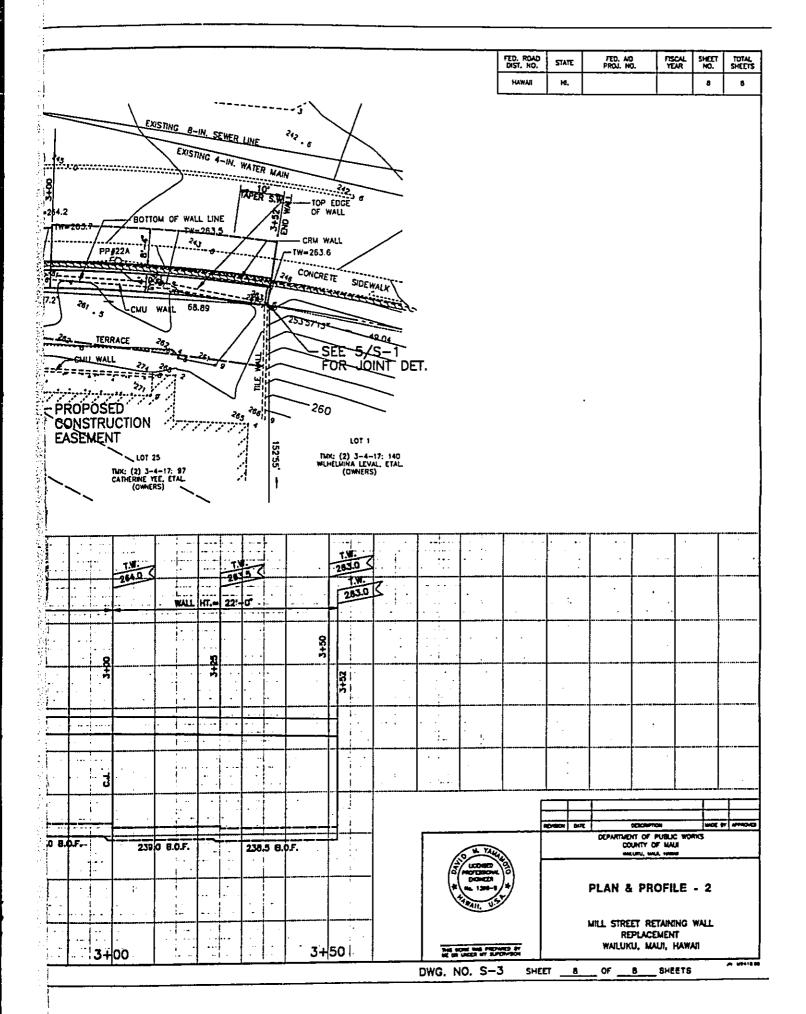
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B 1997 NAL DAVID W. BLANE Director

GWEN OHASHI HIRAGA Deputy Director

#### COUNTY OF MAUI PLANNING DEPARTMENT 250 S. HIGH STREET WAILUKU, MAUI, HAWAII 96793

January 6, 1997

Mr. Milton Arakawa Munekiyo and Arakawa, Inc. 305 High Street, Suite 104 Wailuku, Hawaii 96793

Dear Mr. Arakawa:

Draft Environmental Assessment for the Mill Street Retaining Wall Re:

The Maui Planning Department has reviewed the Draft Environmental Assessment for the above-referenced project, and has the following comments:

- Since our original comments of February 14, 1995, we note that the project is 1. limited to only that portion of the retaining wall located outside of the Maui Redevelopment Area, and therefore, will not be subject to review by the Maui Redevelopment Agency.
- Since the retaining wall is proposed to be connected to the existing rock wall, it is 2. recommended that the stone veneer selected for the new retaining wall reflect the same character of the older rock wall.
- We find that the reconstructed wall is "located generally on the same site, and will 3. have substantially the same purpose, capacity, density, height, and dimensions as the structure replaced." It would appear that this class of action would qualify as an "exemption" pursuant to §11-200-8 of the Department of Health Rules on Environmental Impact Statements.

Thank you for the opportunity to comment. If additional clarification is required, please contact Ms. Colleen Suyama, Staff Planner, of this office.

Very truly yours,

Heven Ohasli Hiraga DAVID W. BLANE Planning Director

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Gwen Ohashi Hiraga, Deputy Planning Director Clayton Yoshida, AICP, Planning Program Manager Colleen Suyama, Staff Planner Ann Cua, Staff Planner Project File General File (G:\Planning\All\CMS\MillSt)



#### STATE OF HAWAII

### DEPARTMENT OF LAND AND NATURAL RESOURCES

STATE HISTORIC PRESERVATION DIVISION 33 SOUTH KING STREET, 6TH FLOOR HONOLULU, HAWAII 96813 MICHAEL D. WILSON, CHAIRPERSON BOARD OF LAND AND NATURAL RESOURCES

DEPUTIES

GILBERT COLOMA-AGARAN

AQUACULTURE DEVELOPMENT PROGRAM

AQUATIC RESOURCES

RESOURCES ENFORCEMENT CONVEYANCES FORESTRY AND WILDLIFE

HISTORIC PRESERVATION
DIVISION
LAND DIVISION
STATE PARKS
WATER AND LAND DEVELOPMENT

January 7, 1996

Mr. Milton Arakawa, Project Manager Munekiyo and Arakawa, Inc. 305 High Street, Suite 104 Wailuku, Hawaii 96793 LOG NO: 18707 DOC NO: 9701SC03

Dear Mr. Arakawa:

SUBJECT:

Chapter 6E-42 Historic Preservation Review of a Draft Environmental Assessment for the Replacement of the Mill Street Retaining Wall,

Wailuku, Wailuku District, Maui

TMK: 3-4-17: Por. of 91, 92, 93, 94, 95, 96, & 97

Thank you for the opportunity to comment on the draft Environmental Assessment prepared for the proposed replacement of the Mill Street retaining wall. Our review is based on historic reports, maps, and aerial photographs maintained at the State Historic Preservation Division. In addition, Ms. Theresa Donham of our Maui office conducted a brief field inspection of the existing retaining wall in February 1995.

As previously stated, no archaeological sites are known to be present in the project area nor did the field inspection locate any cultural deposits in the soil cliff against which the retaining wall is to be built. We have also previously approved of the documentation of the existing wall. Therefore, we believe that the proposed undertaking will have "no effect" on significant historic sites.

Should you have any questions, please feel free to call Sara Collins at 587-0013.

DON HIBBARD, Administrator

State Historic Preservation Division

SC:jen

cc:

Ms. Elizabeth Anderson, Cultural Resources Commission, Maui-Planning Department, 250 S. High Street, Wailuku, HI 96793



### Wailuku Main Street Association, Inc. Tri-Isle Main Street Resource Center

A Non-Profit Organization 2062 Main St., Wailuku, Maui, HI 96793 • Tel (808) 244-3888 • Fax (808) 242-2710

January 22, 1997

Mr. Milton Arakawa Munekiyo & Arakawa Inc. 305 High Street, Suite104 Wailuku, Hawaii 96793

RE: Mill Street Retaining Wall

Dear Mr. Arakawa:

The Wailuku Main Street Association Structure and Design Committee has reviewed the above project and offer the following recommendations.......

Please refer to page 4, figure 3.

If this wall is 14-22 feet in height, it needs to have asthetically a 1:12 batter and at least a provision for planting from below or above to reduce the scale of the wall. We suggest plant material to cascade from above or to grow up from below i.e., fig ivy.

Additionally, the committee recommends that the rock veneer match the existing rock appearance. We further recommend as a safety precaution, that drainage be diverted into a planter rather than crossing the sidewalk. For example, roadway, sidewalk, planter then wall.

Please submit for our further review the elevation of the design of the fence. We discourage chain link as it is not in keeping with the traditional character of the town.

Finally, there should be planting and irrigation supplied. This is perhaps another opportunity for a good community beautification project that could be done in partnership with the Maui Community Corrections Center who may be able to help with the maintenance. Thank you for this opportunity to provide input on this project.

Sincerely,

WAILUKU MAIN STREET ASSOCIATION, INC.
-Tri-Isle Main Street Resource Center-

Anthony Riecke-Gonzales

WMSA Structure/Design Chair

Jocelyn A. Perreira
Executive Director

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LINDA CROCKETT LINGLE Mayor

> CHARLES JENCKS Director

DAVID C. GOODE
Deputy Director

AARON SHINMOTO, P.E. Chief Staff Engineer



### COUNTY OF MAUI DEPARTMENT OF PUBLIC WORKS AND WASTE MANAGEMENT

200 SOUTH HIGH STREET WAILUKU, MAUI, HAWAII 96793

February 18, 1997

RALPH NAGAMINE, L.S., P.E. Land Use and Codes Administration

EASSIE MILLER, P.E. - Wastewater Reclamation Division

LLOYD P.C.W. LEE, P.E. Engineering Division

Solid Waste Division

BRIAN HASHIRO, P.E. Highways Division

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Ms. Jocelyn A. Perreira
Executive Director
WAILUKU MAIN STREET ASSOCIATION, INC.
TRI-ISLE MAIN STREET RESOURCE CENTER
2062 Main Street
Wailuku, Hawaii 96793

SUBJECT: MILL STREET RETAINING WALL

Dear Ms. Perreira:

We have reviewed your letter dated January 22, 1997 relating to the subject project. Your response and interest in the project are appreciated. We would like to provide the following discussion to the points raised in the letter.

With regard to the suggestion that the wall be constructed with a l:12 batter, we would like to note that this would require larger footings to support this type of wall. In addition to higher construction costs, the larger footings would entail additional construction disruption to the existing Mill Street sidewalk and roadway. Moreover, there would be additional disruption borne by the adjacent homeowners since the wall would slope closer to their homes. Since the homes are located on relatively small lots ranging in size from 2,475 square feet to 4,174 square feet, we feel that construction impacts upon the homeowners should be minimized.

We appreciate your concern on landscaping around the project area. However, should the wall be constructed closer to the existing homes to create a landscape strip adjacent to the sidewalk, we have the same construction and cost concerns as the creation of a batter wall. Also, we are planning to match the existing low stone wall on Mill Street near the Market Street and Central Avenue intersections. The existing wall segments abut the sidewalk. Thus, the implementation of a landscape strip would not be continuous for this segment of Mill Street. We would also like to note that existing drainage patterns are not being altered by the project.

The possibility of landscaping from above to reduce the scale of the wall also poses a concern to us. Maintenance of the landscaping would be problematic since access is limited. The only access to a landscape strip would have to be through private property.

Ms. Jocelyn A. Perreira SUBJECT: MILL STREET RETAINING WALL February 18, 1997 Page 2

We are planning to place a rock veneer on the face of the wall to match, as closely as possible, the existing wall sections. It is anticipated that the rock veneer would maintain the look and feel of the original material.

With regard to the fencing at the top of the wall, we feel that chain link is the most appropriate alternative since it provides a margin of safety, is cost effective and durable. Other alternatives such as a concrete extension would increase the mass of the wall. A wooden fence would not be as cost effective and long lasting.

We hope that we have addressed your concerns. Thank you for your interest and concern for the project. If you have any questions, please call Joe Krueger of the Engineering Division at 243-7745.

Kery truly yours,

CHARLES JENCKS Director of Public Works and Waste Management

LL/JK;c(ED97-218)

xc: Dean Doi, Sato & Associates, Inc. (Honolulu) Milton Arakawa, Munekiyo & Arakawa, Inc.

## References

### **References**

Community Resources, Inc., <u>Maui County Community Plan Update Program Socio-Economic Forecast Report</u>, January 1994.

Department of Business, Economic Development and Tourism, <u>The State of Hawaii</u>, <u>Data Book 1992</u>.

Department of Geography, University of Hawaii, <u>Atlas of Hawaii</u>, Second Edition, University of Hawaii Press, 1983.

Telephone conversation with Dave Taylor, Wastewater Reclamation Division, July 1996.

University of Hawaii, Land Study Bureau, <u>Detailed Land Classification - Island of Maui,</u> L.S.B. Bulletin No. 7, May 1967.

U.S. Department of Agriculture, Soil Conservation Service, Soil Survey of Islands of Kauai, Oahu, Maui, Molokai, and Lanai, State of Hawaii, 1972.

# Appendix A

Letter from State Historic Preservation Division Dated May 31, 1996



### STATE OF HAWAII

### DEPARTMENT OF LAND AND NATURAL RESOURCES

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

May 31, 1996

MICHAEL D. WILSON, CHAMPERSON SOARD OF LAND AND NATURAL RESOURCES

DEPUTY GILBERT COLOMA-AGARAN

AQUACULTURE DEVELOPMENT PROGRAM

AQUATIC RESOURCES

**OKA HOITAVEZZHOO** DIVIRONMENTAL AFFAIRS

CONSERVATION AND RESOURCES ENFORCEMENT

CONVEYANCES

FORESTRY AND WILDLIFE

HISTORIC PRESERVATION DIVISION LAND MANAGEMENT STATE PARKS

WATER AND LAND DEVELOPMENT

Mr. Milton Arakawa Munekiyo & Arakawa, Inc. 1823 Wells Street, Suite 3 Wailuku, Maui, Hawaii 96793

Dear Mr. Arakawa:

LOG NO: 17550 DOC NO: 9605co19

Architecture

SUBJECT:

Mill Street Retaining Wall

Wailuku, Maui

Thank you for letter and documentation dated May 7, 1996, regarding proposed demolition of the Mill Street Retaining Wall. We believe that the replacement of the wall should have 'no effect on any historically significant site. Because historically stone has been used for wall construction along Mill Street, this material is a character defining element of the street. We urge the County to consider reuse of the cut stone in the face of the new retaining wall.

Thank you for the opportunity to comment. If you have any questions, please have your staff contact Carol Ogata at 587-0004.

Sincerely,

DON HIBBARD, Deputy

State Historic Preservation Officer

CO:jk