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STATE OF HAWAI'I
DEPARTMENT OF EDUCATION

P.O. BOX 2360
HONOLULU, HAWAI'I 96804

OFFICE OF SCHOOL FACILITIES AND SUPPORT SERVICES

March 28, 2013

TO: Mr. Gary Gill, Acting Director
Office of Environmental Quality Control
Department of Health

FROM: Duane Y. Kashiwai, Public Works Administrator
Facilities Development Branch
Department of Education

SUBJECT: **Draft Environmental Assessment and Anticipated Finding of No Significant Impact (DEA-AFONSI) for Maui Waena Intermediate School, Eight-Classroom Building at Wailuku, Maui, Hawai'i, Tax Map Key (2) 3-8-007:002 (portion)**

The State of Hawai'i, Department of Education, hereby transmits the Draft Environmental Assessment and Anticipated Finding of No Significant Impact (DEA-AFONSI) for the Maui Waena Intermediate School Eight-Classroom Building situated at TMK (2) 3-8-007:002 (portion), in the Wailuku District on the island of Maui for publication in the next available edition of *The Environmental Notice*.

Enclosed is a completed OEQC Publication Form, two copies of the DEA-AFONSI, an Adobe Acrobat PDF file of the same, and an electronic copy of the publication form in MS Word. Simultaneous with this letter, we have submitted the summary of the action in a text file by electronic mail to your office.

If there are any questions, please contact Ryan Yamamoto, Project Coordinator, at 586-0966.

DYK:bl

Enclosure

c. Ryan Yamamoto, Project Management Section
Vincent Shigekuni, PBR Hawaii

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OFFICE OF ENVIRONMENTAL
QUALITY CONTROL

DK

AGENCY ACTIONS
SECTION 343-5(B), HRS
PUBLICATION FORM (FEBRUARY 2013 REVISION)

Project Name: Maui Waena Intermediate School Eight-Classroom Building

Island: Maui

District: Wailuku

TMK: (2) 3-8-007: 002 (portion)

Permits: Compliance with Chapter 343, HRS, Project District Development Phase III, Height Variance, National Pollutant Discharge Elimination System Permit, and Grading/Building Permits

Proposing/Determination Agency:

Mr. Duane Kashiwai, Public Works Administrator

State of Hawai'i

Department of Education, Facilities Development Branch

P.O. Box 2360, Honolulu, Hawai'i 96804

Phone: (808) 586-0966. Contact: Mr. Ryan Yamamoto

Consultant:

Mr. Vincent Shigekuni

PBR HAWAII

1001 Bishop Street, Suite 650, Honolulu, Hawai'i 96813

Phone: (808) 521-5631

Status (check one only):

DEA-AFNSI

Submit the proposing agency notice of determination/transmittal on agency letterhead, a hard copy of DEA, a completed OEQC publication form, along with an electronic word processing summary and a PDF copy (you may send both summary and PDF to oeqchawaii@doh.hawaii.gov); a 30-day comment period ensues upon publication in the periodic bulletin.

FEA-FONSI

Submit the proposing agency notice of determination/transmittal on agency letterhead, a hard copy of the FEA, an OEQC publication form, along with an electronic word processing summary and a PDF copy (send both summary and PDF to oeqchawaii@doh.hawaii.gov); no comment period ensues upon publication in the periodic bulletin.

FEA-EISPN

Submit the proposing agency notice of determination/transmittal on agency letterhead, a hard copy of the FEA, an OEQC publication form, along with an electronic word processing summary and PDF copy (you may send both summary and PDF to oeqchawaii@doh.hawaii.gov); a 30-day consultation period ensues upon publication in the periodic bulletin.

Act 172-12 EISPN

Submit the proposing agency notice of determination on agency letterhead, an OEQC publication form, and an electronic word processing summary (you may send the summary to oeqchawaii@doh.hawaii.gov). NO environmental assessment is required and a 30-day consultation period upon publication in the periodic bulletin.

DEIS

The proposing agency simultaneously transmits to both the OEQC and the accepting authority, a hard copy of the DEIS, a completed OEQC publication form, a distribution list, along with an electronic word processing summary and PDF copy of the DEIS (you may send both the summary and PDF to oeqchawaii@doh.hawaii.gov); a 45-day comment period ensues upon publication in the periodic bulletin.

FEIS

The proposing agency simultaneously transmits to both the OEQC and the accepting authority, a hard copy of the FEIS, a completed OEQC publication form, a distribution list, along with an electronic word processing summary and PDF copy of the FEIS (you may send both the summary and PDF to oeqchawaii@doh.hawaii.gov); no comment period ensues upon publication in the periodic bulletin.

Section 11-200-23
Determination

The accepting authority simultaneously transmits its determination of acceptance or nonacceptance (pursuant to Section 11-200-23, HAR) of the FEIS to both OEQC and the proposing agency. No comment period ensues upon publication in the periodic bulletin.

Section 11-200-27

Determination

The accepting authority simultaneously transmits its notice to both the proposing agency and the OEQC that it has reviewed (pursuant to Section 11-200-27, HAR) the previously accepted FEIS and determines that a supplemental EIS is not required. No EA is required and no comment period ensues upon publication in the periodic bulletin.

__Withdrawal (explain)

Summary:

Maui Waena Intermediate School is the largest middle school on the island of Maui and has serviced students predominantly from Kahului as part of the Kekaulike Complex since 1989. Existing facilities are inadequate to meet the State Department of Education's (DOE) design enrollment for the school, and the shortage of classroom space results in overcrowded classrooms and limited class offerings.

The DOE proposes to build a new two-story, eight-classroom building at Maui Waena Intermediate School (TMK: 3-8-007: 002 [portion]). The two-story, 34-foot tall, building will have approximately 20,080 square feet of total floor area. The new building will include three science classrooms, three general education classrooms, one choral room, and one computer resource center. The building will require infrastructure improvements and connection to existing utilities.

The classroom building will displace existing play courts that will be relocated to an open lawn adjacent to an existing school building. A small parking lot will also be provided adjacent to the relocated play courts.

State of Hawai'i
Department of Education

**MAUI WAENA
INTERMEDIATE SCHOOL**

EIGHT-CLASSROOM BUILDING

*Draft Environmental Assessment/
Anticipated Finding of No Significant Impact*

Prepared For:
Kober Hanssen Mitchell Architects

Prepared By:



April 2013

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LIST OF APPENDICES

Appendix A: Pre-Consultation Letters and Responses

LIST OF ACRONYMS AND ABBREVIATIONS

ALISH	Agricultural Lands of Importance to the State of Hawai'i
ASL	Above mean sea level
BMP	Best Management Practices
CWRM	State of Hawai'i Commission on Water Resource Management
CZM	Coastal Zone Management
DBEDT	State of Hawai'i Department of Business, Economic Development, and Tourism
DLNR	State of Hawai'i Department of Land and Natural Resources
DOE	State of Hawai'i Department of Education
DOH	State of Hawai'i Department of Health
DOT	County of Maui Department of Transportation
DWS	County of Maui Department of Water Supply
EA	Environmental Assessment
EIS	Environmental Impact Statement
EISPN	Environmental Impact Statement Preparation Notice
EPA	United States Environmental Protection Agency
FEMA	United States Federal Emergency Management Agency
FIRM	FEMA Flood Insurance Rate Map
GPD	Gallons per day
HAR	Hawai'i Administrative Rules
HRS	Hawai'i Revised Statutes
LSB	State of Hawai'i Land Study Bureau
LUC	State of Hawai'i Land Use Commission
MECO	Maui Electric Company
MGD	Million gallons per day
NOAA	United States National Oceanic and Atmospheric Administration
NPDES	National Pollutant Discharge Elimination Systems
NRCS	United States Natural Resources Conservation Service
OEQC	State of Hawai'i Office of Environmental Quality Control
ROW	Right-of-way
SCS	United States Soil Conservation Service (now NRCS)
SHPD	State of Hawai'i Historic Preservation Division
SMA	Special Management Area
TMK	Tax map key
UBC	Uniform Building Code
USDA	United States Department of Agriculture
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
WWTP	Wastewater treatment plant

SECTION I

Introduction and Summary

1 INTRODUCTION AND SUMMARY

This Environmental Assessment (EA) is prepared in accordance with the requirements of Chapter 343, Hawai'i Revised Statutes (HRS), and Maui County Code Chapter 19.78 Project District Processing Regulations. The proposed action involves the use of State funds toward the construction of the a new classroom building on State lands (at Maui Waena Intermediate School) in Maui Lani, Wailuku, Island of Maui, State of Hawai'i (Figure 1 – Regional Location Map).

1.1 PROJECT SUMMARY

Project Name: Maui Waena Intermediate School Eight-Classroom Building

Location: Wailuku, Maui, Hawai'i

Judicial District: Wailuku

Tax Map Key (TMK): (2) 3-8-007:002 (por.)

Applicant/Landowner: State of Hawai'i, Department of Education (DOE)

Land Area: Approximately 0.06 acre for construction staging area
Approximately 0.23 acre for classroom building
Approximately 0.17 acre for play court relocation
Approximately 0.08 acre for play court parking
Approximately 0.54 acre TOTAL LAND AREA

Existing Use: Public Intermediate School, Play Courts

Proposed Use: Public Intermediate School, Eight-Classroom Building

Current

Land Use Designations: State Land Use: Urban
Community Plan: Wailuku-Kahului Project District 1
County Zoning: Project District 1
Public/Quasi-Public
Special Management Area (SMA): Not in SMA

Major Approvals/Permits

Required: Compliance with Chapter 343, HRS
Project District Development Phase III
Height Variance
National Pollutant Discharge Elimination System Permit
Grading/Building Permits

Approving Agency: DOE

1.2 APPLICANT

The applicant is the State Department of Education.

Contact: Ryan Yamamoto
State of Hawai'i
Department of Education, Office of Business Services
Facilities Development Branch
P.O. Box 2360
Honolulu, Hawai'i 96804
Phone: (808) 586-0966
Fax: (808) 586-0532

1.3 ENVIRONMENTAL CONSULTANT

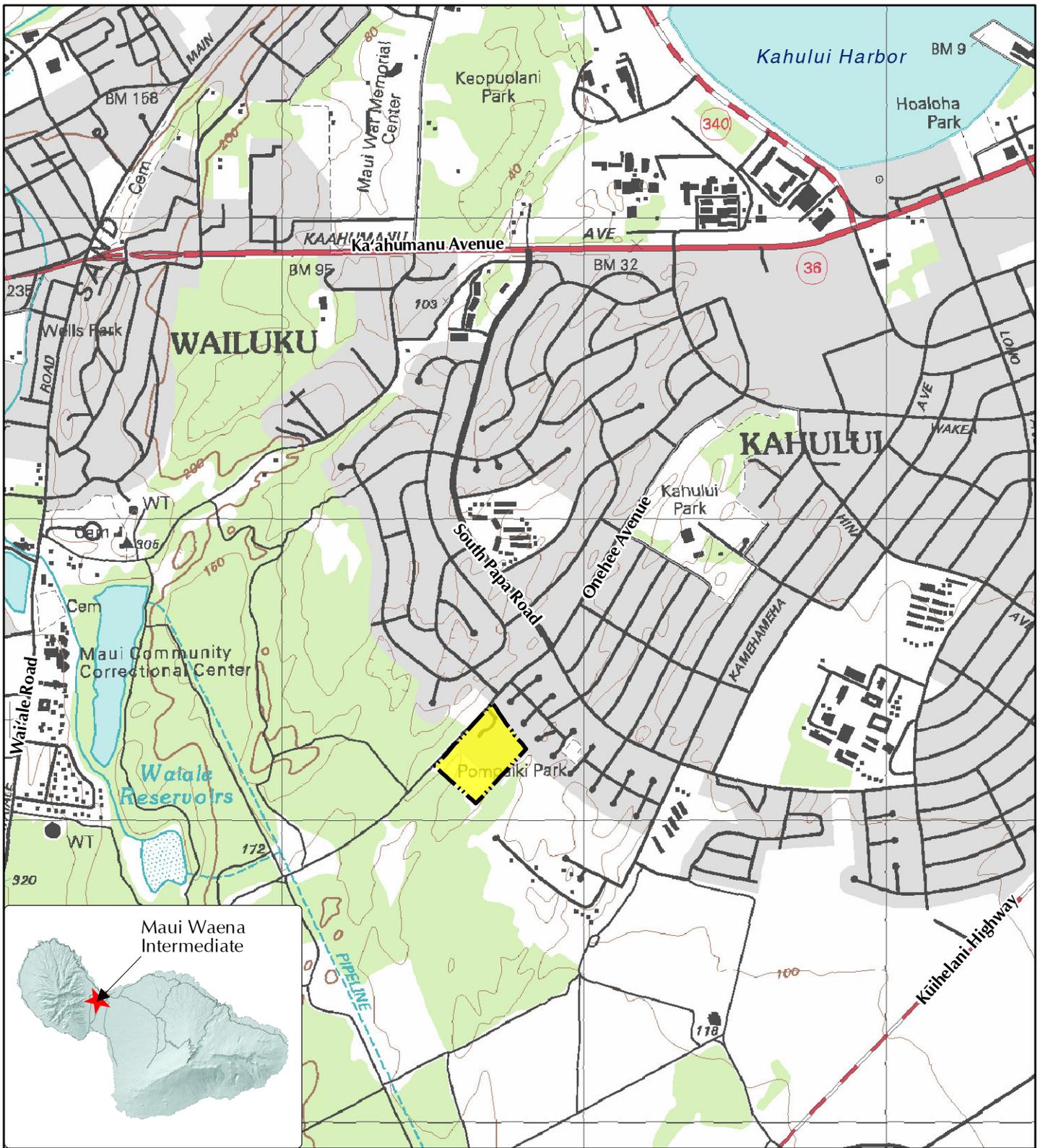
The environmental planning consultant is PBR HAWAII.

Contact: Vincent Shigekuni
PBR HAWAII
1001 Bishop Street
ASB Tower, Suite 650
Honolulu, Hawai'i 96813
Telephone: (808) 521-5631
Fax: (808) 523-1402

1.4 APPROVING AGENCY

The approving agency is the State Department of Education.

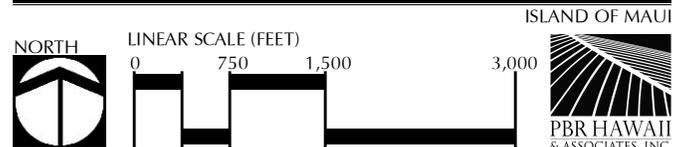
Contact: Duane Kashiwai, Public Works Administrator
P.O.C. Ryan Yamamoto
State of Hawai'i
Department of Education
Facilities Development Branch
P.O. Box 2360
Honolulu, Hawai'i 96804
Telephone: (808) 586-0966
Fax: (808) 586-8223



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 Maui Waena Intermediate School

Figure 1
Regional Location
**Maui Waena
Intermediate School**



Source: U.S.G.S. Hawaii Data Clearinghouse
Disclaimer: This graphic has been prepared for general planning purposes only.

1.5 COMPLIANCE WITH STATE OF HAWAII AND COUNTY OF MAUI ENVIRONMENTAL LAWS

Preparation of this document is in accordance with the provisions of HRS Chapter 343 and Title 11, Chapter 200, Hawai'i Administrative Rules (HAR) pertaining to Environmental Impact Statements. Section 343-5, HRS established nine "triggers" that require either an EA or an Environmental Impact Statement (EIS). The use of State or County lands or funds is one of these "triggers." Because the State of Hawai'i Department of Education will use State funds to build the new classroom on State lands (at Maui Waena Intermediate School), the preparation of an Environmental Assessment is required.

1.6 STUDIES CONTRIBUTING TO THIS EA

The information contained in this report has been developed from site visits, generally available information regarding the characteristics of the site and surrounding areas, and technical studies from previously approved EAs and EISs prepared for projects in the area.

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SECTION 2

Project Description

2 PROJECT DESCRIPTION

2.1 BACKGROUND INFORMATION

2.1.1 Location and Property Description

Maui Waena Intermediate School (“Maui Waena”) is located in Maui Lani, a master-planned community between Wailuku and Kahului (Figure 1). The school is identified as TMK (2) 3-8-007:002 (Figure 2) and consists of approximately 12 acres of land in the district of Wailuku.

Maui Waena is bordered by Onehe’e Avenue to the northwest and single-family residential homes. A church and community center are located directly across from the campus on Onehe’e Avenue.

The DOE is proposing to develop a new eight-classroom building at Maui Waena. The building will be located in the area of the existing play courts adjacent to the primary access driveway off of Onehe’e Avenue. The existing play courts will be relocated. The driveway leads to a 114-stall parking lot and provides a student drop-off/loading area. Figure 3 contains site photographs.

Current land use designations for Maui Waena are:

- State Land Use: Urban (Figure 4)
- Community Plan: Wailuku-Kahului Project District 1 (Figure 5)
Public/Quasi-Public PD-WK/1
- County Zoning: Project District 1
- Special Management Area (SMA): Not in SMA

Maui Waena is located within the Wailuku-Kahului Project District 1 and is subject to requirements under Chapter 19.78, Maui County Code (MCC). A Project District Phase II approval (which would require approval by the Maui Planning Commission) is not required; however, a Project District Phase III approval will be required. The Project District Phase III process involves the submittal of a final site plan for the building to the Planning Director.

Maui Waena is also within the Public/Quasi-Public district. The maximum height within this district is two stories, not to exceed 30 feet. The proposed classroom building will be 34 feet and 3 inches in height; therefore, a height variance is being sought.

2.1.2 Surrounding Land Uses

Maui Waena is surrounded by single-family home neighborhoods including Maui Lani's The Greens, The Grand Fairways, and the Dunes at Maui Lani Golf Course subdivisions.

The Kingdom Hall of Jehovah's Witnesses is located across from Maui Waena play courts (the site of the proposed eight-classroom building) on Onehe'e Avenue.

The Binhi At Ani Filipino Community Center, also located across from Maui Waena on Onehe'e Avenue, is open to the public and is used seven days a week to host a wide range of events including weddings, hula classes, and senior programs.

2.1.3 Regional Land Use History

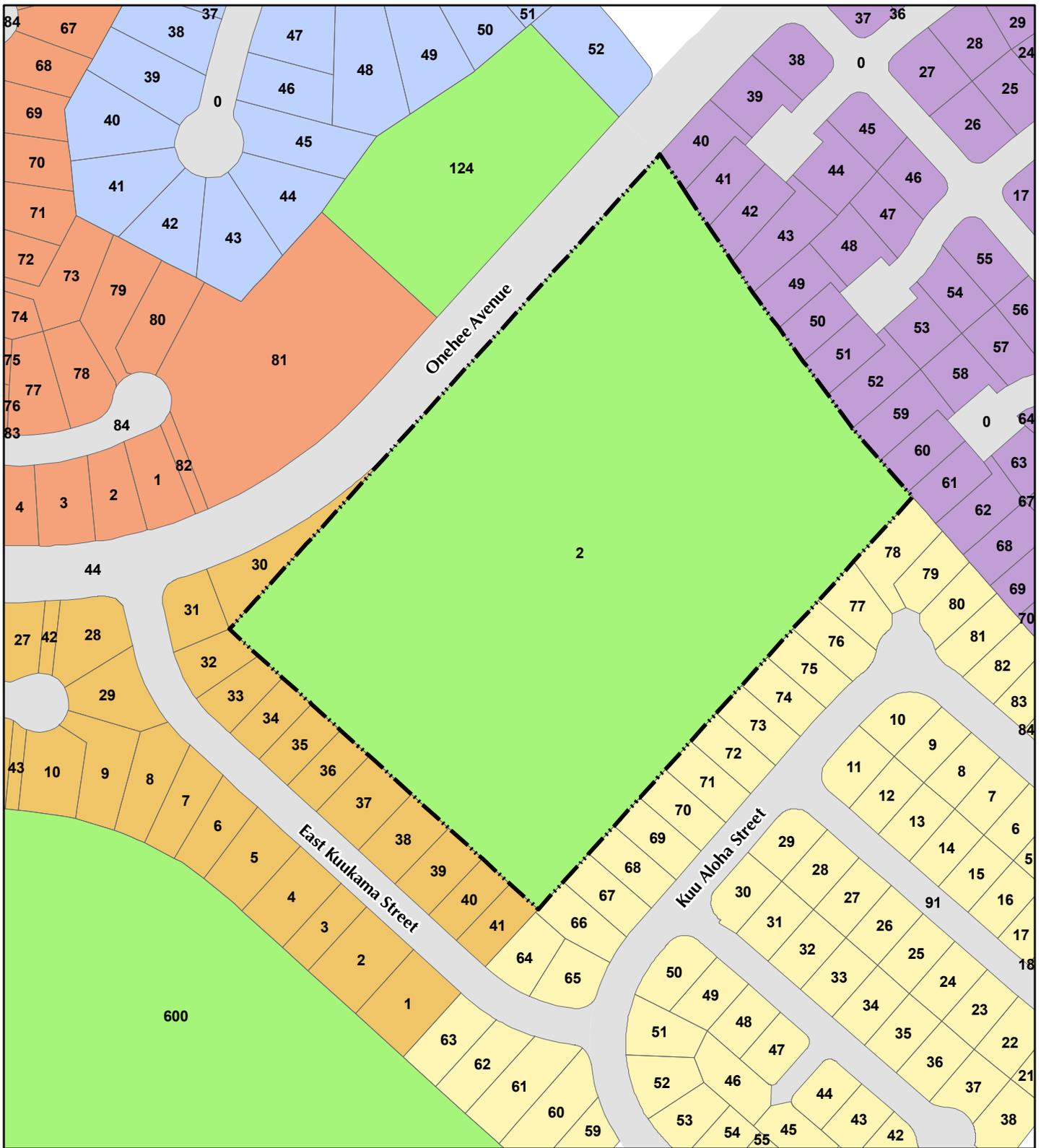
The Maui Lani Project District lands incorporate the southwestern portions of the Wailuku-Kahului urban area. Kahului is considered Central Maui's commercial retailing center with the Ka'ahumanu Center, Maui Mall, Maui Marketplace and Kahului Shopping Center located within the region. Wailuku serves as the seat of County and State governments, with several agencies headquartered in the civic center area between Ka'ohu Street and Main Street. Wailuku also serves as a center for professional services including medical, dental, legal, and design professions.

2.2 SITE SELECTION PROCESS

Kober/Hanssen/Mitchell Architects conducted a site selection study to determine the most suitable site for the new eight-classroom building at Maui Waena. To facilitate identification of potential classroom sites, discussions were held with the DOE, the State Department of Accounting and General Services, and Maui Waena faculty. Three potential classroom sites were identified for evaluation against minimum site criteria, as set forth by the DOE. The three potential sites include locating the new classroom building: 1) in the area of the existing play courts; 2) at the school's eastern boundary in the area of existing portable classrooms; and 3) in the open area adjacent to Building G.

A meeting was held on September 12, 2006 at Maui Waena to discuss the three possible site options. The three sites were evaluated based on the following criteria: 1) location; 2) impacts to existing structures; 3) access; 4) disruptions to campus during construction; and 5) visual impact to adjacent landowners. A summary description of each site is presented below.

Site 1 locates the classroom building in the area of the existing play courts. This requires the demolition and reconstruction of the existing play courts in the field area and the relocation of one of the existing portable buildings. The site's location near Onehe'e Street allows for minimal disruption to the campus during construction. However, there would be limited room for additional parking. The building can utilize existing topography as



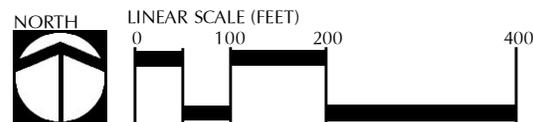
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Maui Waena Intermediate School

Tax Map Key Plat

- | | |
|---------|----------------|
| ROW | 3-8-082 |
| 3-8-007 | 3-8-083 |
| 3-8-044 | 3-8-085 |
| 3-8-069 | Other TMK Plat |

Figure 2
Tax Map Key
Maui Waena Intermediate School



Source: County Planning Dept (2010)
Disclaimer: This graphic has been prepared for general planning purposes only.



1. VIEW OF PROPOSED CLASSROOM BUILDING SITE



2. VIEW OF PROPOSED PLAY COURT RELOCATION SITE

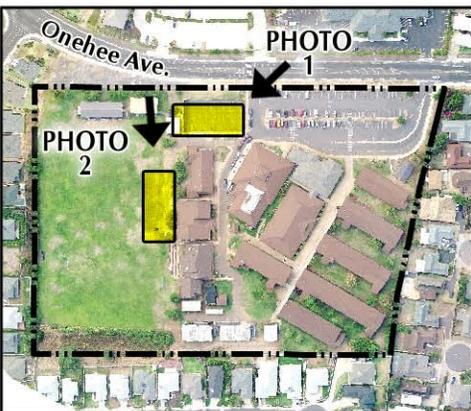
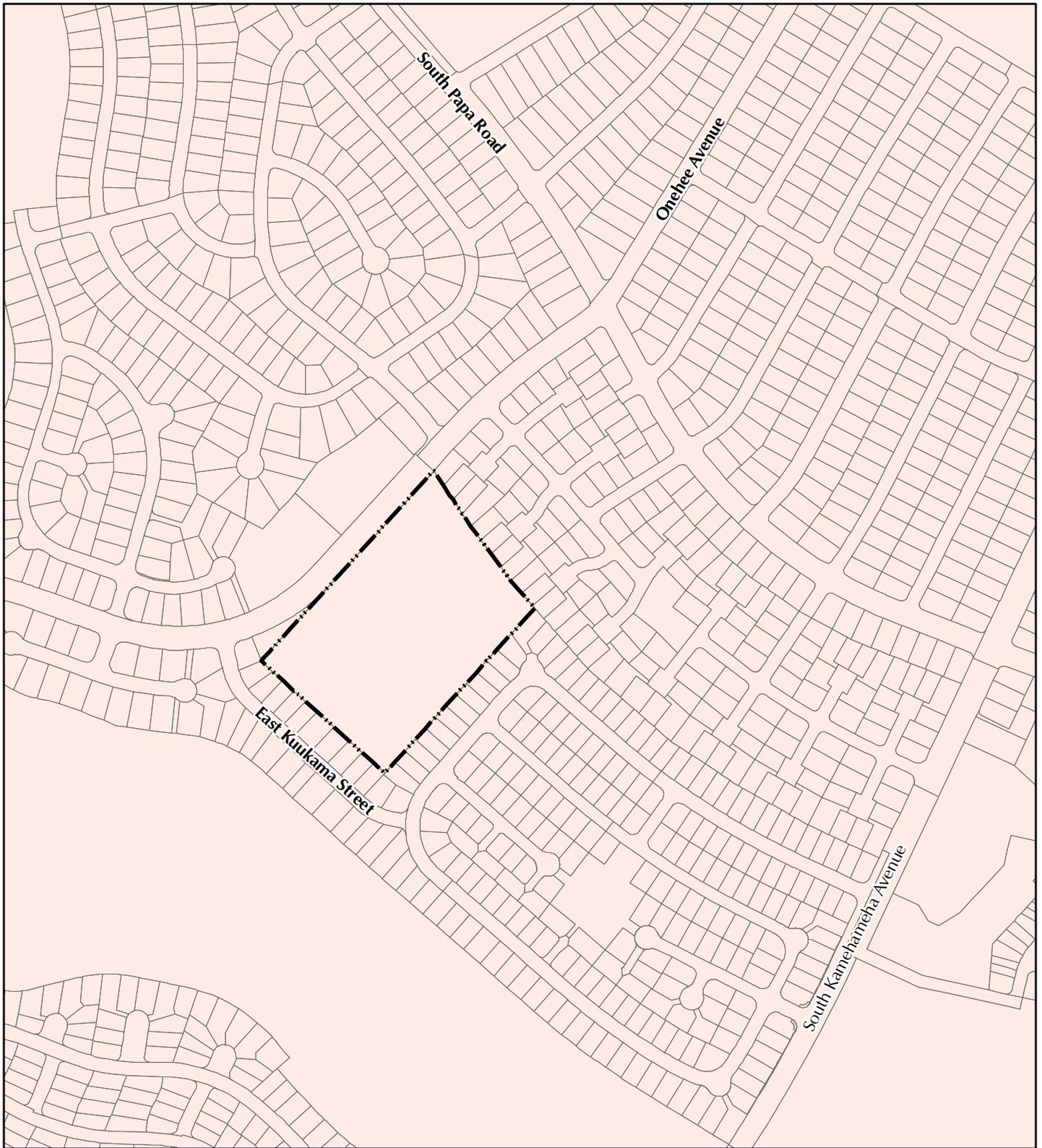


Figure 3
Site Photographs
Maui Waena
Intermediate School

ISLAND OF MAUI

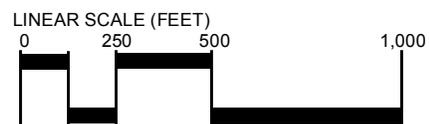




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-  Maui Waena Intermediate School
- District**
-  Urban

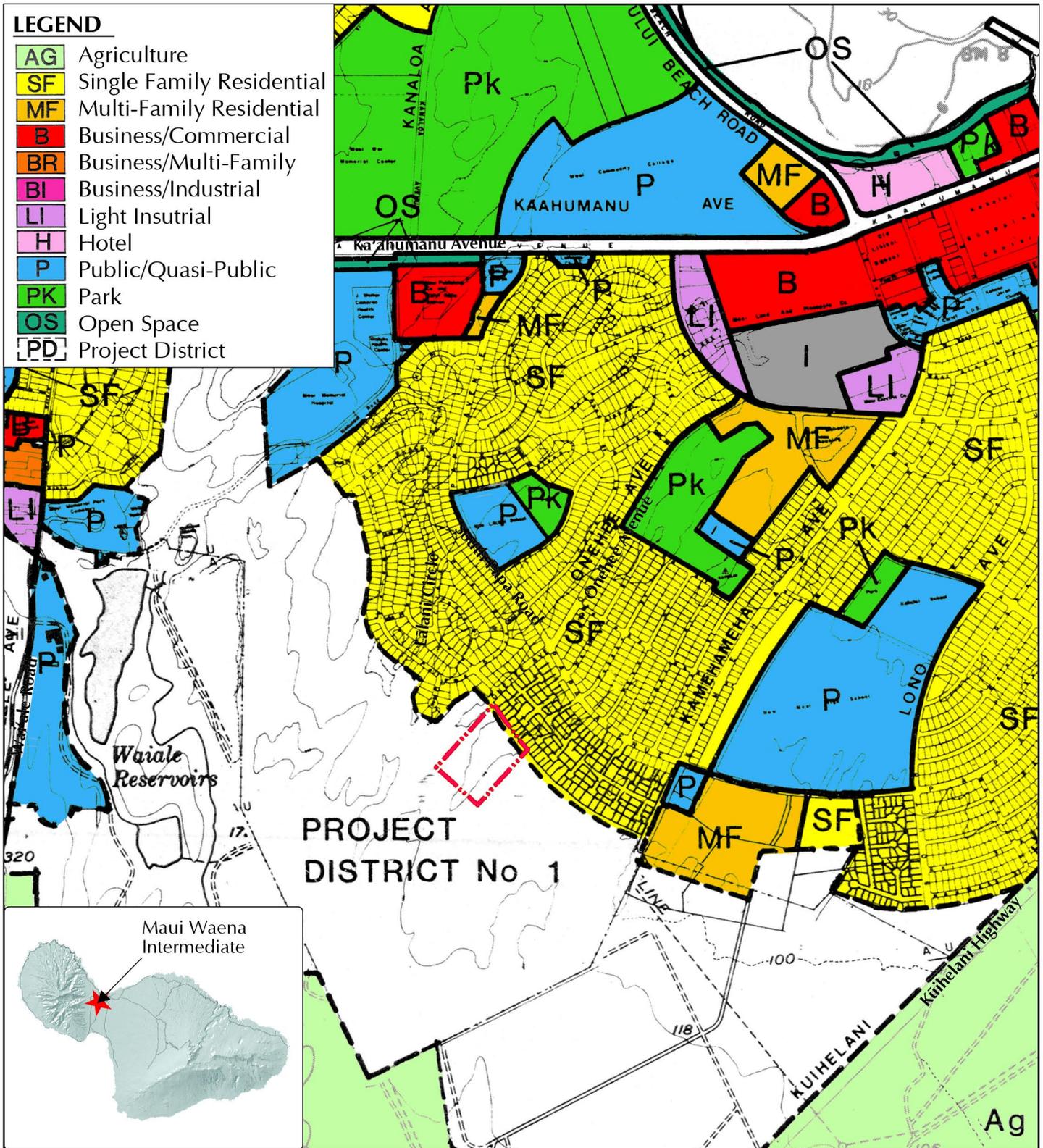
Figure 4
 State Land Use District
Maui Waena Intermediate School



Source: State Land Use Commission (2011)
 Disclaimer: This graphic has been prepared for general planning purposes only.

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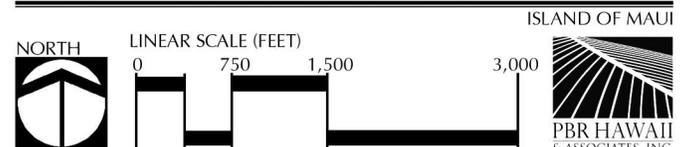
- AG Agriculture
- SF Single Family Residential
- MF Multi-Family Residential
- B Business/Commercial
- BR Business/Multi-Family
- BI Business/Industrial
- LI Light Industrial
- H Hotel
- P Public/Quasi-Public
- PK Park
- OS Open Space
- PD Project District



LEGEND

- Maui Waena Intermediate School

Figure 5
 Wailuku Kahului Community Plan
 Maui Waena
 Intermediate School



Maui Waena Intermediate School Eight-Classroom Building
Draft Environmental Assessment/Anticipated Finding of No Significant Impact

part of the change in the building elevations. Additional parking can be considered by incorporating a parking area onto part of the playfield.

Site 2 locates a portion of the classroom building at the southeastern boundary of the campus taking advantage of the existing topography and allows for the use of the existing play courts area for additional parking, however there would be loss of open area adjacent to Building G. Additional investigation may be necessary for the fire lane alignment to the new classroom building. Construction staging area would encroach into the play field area and have an impact on the use of the play field.

Site 3 locates the new classroom building in the open area adjacent to Building G. This location allows for the use of the existing play courts area for additional parking. Realignment of the fire lane would be necessary to accommodate the new building footprint. Site 3 would require relocation of existing portables and agricultural accessory buildings. The construction staging area would encroach into the play field area and have an impact on the use of the play field. Based on DCAB review on prior DOE projects, the building will require its own elevator.

Based on the meeting discussions held at Maui Waena, Site 1, the area subject to this environmental assessment, was chosen as the preferred option for the new eight-classroom building. Reasons why this site was preferred include:

- The sites' location near Onehe'e Street allows for minimal disruption to the campus during construction.
- Minimal impact to existing structures.
- Adjacent to existing parking area for access to special education services.
- Minimal impact on natural ventilation of adjacent buildings. Retains existing open gathering area adjacent to Building G.

2.3 PURPOSE AND NEED

Maui Waena is the largest middle school on the island of Maui and has serviced students predominantly from Kahului as part of the Kekaulike Complex since 1989. Students from three feeder elementary schools (Kahului, Lihikai, and Pōmaika'i) transition through Maui Waena and then to Maui High School.

The Maui Waena's 2011-2012 enrollment of 1,084 students is anticipated to increase significantly due to ongoing construction of subdivisions in the surrounding Maui Lani development area. Existing facilities are inadequate to meet the DOE's design enrollment for the school (1,008 students). The shortage of classroom space results in overcrowded classrooms and limited class offerings.

Maui Waena Intermediate School Eight-Classroom Building
Draft Environmental Assessment/Anticipated Finding of No Significant Impact

The proposed eight-classroom building addresses the existing shortage of classroom space and helps to address the projected enrollment growth, ensuring that students have a quality environment in which to learn.

2.4 DESCRIPTION OF THE PROPOSED PROJECT

The DOE proposes to build a new two-story, eight-classroom building at Maui Waena. The two-story, 34-foot tall, building will have approximately 20,080 square feet of total floor area. The new building will include three science classrooms, three general education classrooms, one choral room, and one computer resource center. The building will require infrastructure improvements and connection to existing utilities. Figures 6 and 7 illustrate a site plan and building elevations.

The classroom building will displace the existing play courts. The play courts will be relocated to open lawn adjacent to Building M (Music). A small parking lot will also be provided adjacent to the relocated play courts.

The DOE has directed consultants to design the new eight-classroom building with the goal of meeting an equivalent of Leadership in Energy & Environmental Design (LEED) Silver Certification administered by the United States Green Building Council (USGBC). Section 2.6 provides additional information about sustainable planning and design measures that may be incorporated into the building's design.

In addition, all facilities, site, and utility improvements will be designed to comply with DOE's Guide Specifications, "Educational Specifications and Standards for Facilities," the Americans with Disabilities Act (ADA) accessibility guidelines, as adopted by Chapter 103-50, HRS, the State Department of Health (DOH) and State Department of Labor and Industrial Relations, the National Electric Code, the current versions of the Uniform Building Code, as amended and adopted by the County of Maui, and other codes, regulations, ordinances and requirements as adopted by the County and/or State.

2.5 PROJECT COST AND SCHEDULE

Construction of the new classroom building is expected to commence immediately following approval of necessary land use permits and available funding. The construction of the proposed eight-classroom building will take approximately 18 months to complete. Work is scheduled to commence by the end of 2013 with expected substantial completion by fall of 2015. The total estimated construction cost is \$4,098,955.

All project costs will be funded by DOE's approved Capital Improvement Project budget.

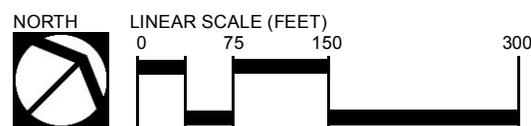


LEGEND

 Maui Waena Intermediate School

Figure 6
Site Plan

**Maui Waena
Intermediate School**



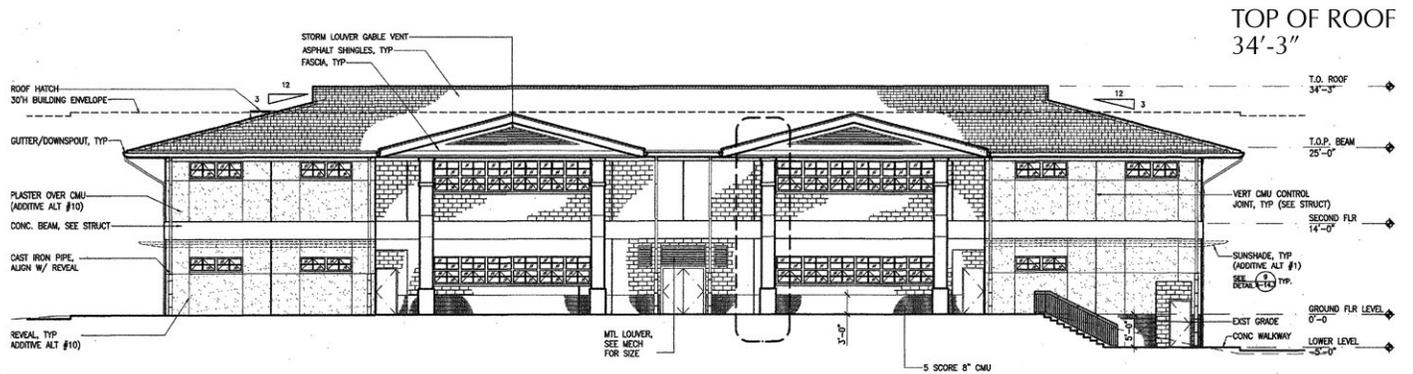
ISLAND OF MAUI



TOP OF ROOF
34'-3"



B EAST ELEVATION
A-5.1



A NORTH ELEVATION
A-5.1

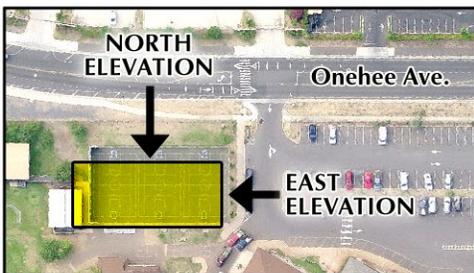


Figure 7
Building Elevations
**Maui Waena
Intermediate School**

ISLAND OF MAUI



2.6 SUSTAINABLE PLANNING AND DESIGN

In the design and construction of the Maui Waena eight-classroom building, the DOE will implement feasible measures to promote energy conservation and environmental stewardship, such as standards and guidelines promulgated by the USGBC, the United States Environmental Protection Agency (EPA) ENERGY STAR Program, or other similar programs.

During the Draft EA pre-consultation process, the County of Maui (County) Department of Water Supply provided the following water conservation measures that should be considered in the design process:

1. Use Non-Potable Water: Use brackish or reclaimed water for irrigation and dust control during construction where available.
2. Use Climate-Adapted Plants: The project is located in the Maui County Planting Plan – Plant Zone 3. Native plants adapted to the area conserve water and protect the watershed from degradation due to invasive alien species. Use native plants for all landscaping purposes.
3. Prevent Over-Watering By Automated Systems: Provide rain-sensors on all automated irrigation controllers. Check and reset controllers at least once a month to reflect the monthly changes in evapotranspiration rates at the site. As an alternative, provide the more automated, soil-moisture sensors on controllers.
4. Eliminate Single-Pass Cooling: Single-pass, water cooled systems should be eliminated per Chapter 14.21.20, MCC. Although prohibited by code, single-pass water cooling is still manufactured into some models of air conditioners, freezers, and commercial refrigerators.
5. Utilize Low-Flow Fixtures and Devices: Chapter 16.20A.680, MCC requires the use of low-flow water fixtures and devices in faucets, showerheads, urinals, water closets, and hose bibs. Water conserving washing machines, ice-makers and other units are also available.
6. Maintain Fixtures or Prevent Leaks: A simple, regular program of repair and maintenance can prevent the loss of hundreds or even thousands of gallons a day.

Leadership in Energy and Environmental Design

The DOE strives to meet the equivalent LEED Silver Certification for this classroom building. The LEED Green Building Rating System is a nationally accepted benchmark for the design, construction, and operation of sustainable buildings. The LEED Green Building Rating System encourages and accelerates global adoption of sustainable green building and development practices through the creation and implementation of universally understood and accepted tools and performance criteria. LEED promotes a whole-building approach to sustainability by recognizing performance in five key areas of human and

Maui Waena Intermediate School Eight-Classroom Building

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environmental health: sustainable site development, water savings, energy efficiency, materials selection, and indoor environmental quality.

LEED for Schools addresses design and construction activities for both new school buildings and major renovations of existing school buildings. The current version of this program is LEED 2009 for Schools. The intent is to have the project tabulated for LEED Silver points but not apply for certification.

SECTION 3

Description of the Natural Environment,
Potential Impacts, and Mitigation Measures

3 DESCRIPTION OF THE NATURAL ENVIRONMENT, POTENTIAL IMPACTS, AND MITIGATION MEASURES

This section describes existing conditions of the physical or natural environment, potential impacts related to the creation of the Maui Waena eight-classroom building on the environment, and mitigation measures to minimize impacts.

3.1 CLIMATE

Maui's climate varies by terrain but relatively uniform year-round with mild temperatures, moderate humidity, and relatively consistent northeasterly trade winds. Both Wailuku and Kahului are located on the Central Maui isthmus where the weather is typically sunny and dry. Trade winds are typical of the Hawaiian Islands, blowing predominantly from a northeast direction, and averaging approximately seven miles per hour. The West Maui Mountains and Haleakalā, further influence the wind pattern of the Central Maui region.

Average temperatures recorded at the Kahului Airport range from a low of 63 degrees Fahrenheit to a high of 87 degrees Fahrenheit. August is historically the warmest month, and February is the coolest month. Average annual rainfall in the project area is approximately 20 to 30 inches, with the most rainfall occurring in January. Surface winds are usually from the northeast, with wind speeds averaging 16 to 18 miles per hour.

POTENTIAL IMPACTS AND MITIGATION MEASURES

The new classroom building and relocated play courts are not expected to have an impact on the region's climate, therefore no mitigation measures are warranted. Modification of the school's specific microclimate may occur from the planting of shade trees and other landscape elements on what is now a play court. The construction of the two-story building will channel air flows in the vicinity.

3.2 GEOLOGY AND TOPOGRAPHY

The island of Maui consists of two major volcanoes, West Maui and Haleakalā (East Maui). West Maui is older than East Maui. The broad gently-sloping plain connecting the two volcanoes, the Maui Isthmus, was formed when lavas of Haleakalā banked against the existing West Maui volcano. The West Maui volcano has passed through the principal stages of Hawaiian volcanism, and has produced four small post-erosional eruptions. The Haleakalā volcano erupted less than two centuries ago and is regarded as dormant (MacDonald, Abbott, & Peterson 1983).

Maui Waena is located in the central basin of Maui, where West Maui and East Maui meet. The property is generally flat with elevations ranging from 110 feet to 110 feet above mean sea level.

POTENTIAL IMPACTS AND MITIGATION MEASURES

The proposed eight-classroom building and relocated play courts will not adversely impact the topographic nature of the site relative to the surrounding lands. Due to the minimal slope of the site, relatively minimal grading will be required.

3.3 SOILS

There are three soil suitability studies prepared for lands in Hawai'i whose principal focus has been to describe the physical attributes of land and the relative productivity of different land types for agricultural production; these are: 1) the U.S. Department of Agriculture Natural Resource Conservation Service Soil Survey; 2) the University of Hawai'i Land Study Bureau Detailed Land Classification; and 3) the State Department of Agriculture's Agricultural Lands of Importance to the State of Hawai'i system.

3.3.1 Natural Resource Conservation Service Soil Survey

The Natural Resource Conservation Service (NRCS), *Soil Survey of the Islands of Kauai, Oahu, Maui, Molokai, and Lanai, State of Hawaii* (1972) classifies the soil of the Maui Waena eight-classroom building (and relocated play courts) site as Pu'uone sand (PZUE) (Figure 8).

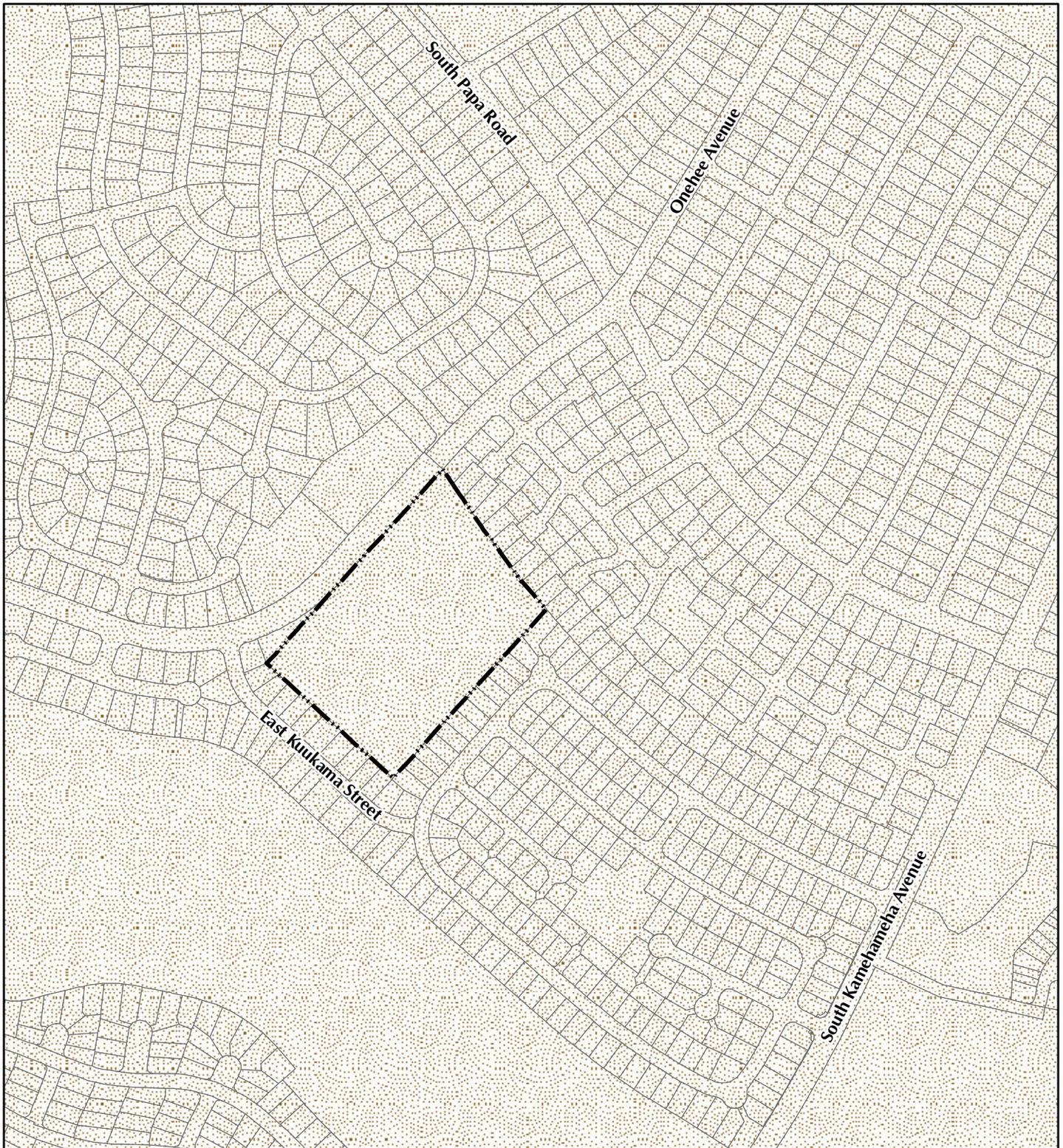
Pu'uone sand, 7 to 30 percent slopes (PZUE), occur on sand hills and consist of somewhat excessively drained soils that formed in material derived from coral seashells. Permeability is rapid and runoff is slow. These soils are used for pasture and urban development. The natural vegetation is Bermuda grass, kiawe, koa-haole, and lantana.

3.3.2 Land Study Bureau Detailed Land Classification

The site is not classified under the University of Hawai'i Land Study Bureau (LSB) Detailed Land Classification system (Figure 9). This means that soils at the site are not considered to be suitable land for agriculture and it is within the State Land Use Urban District.

3.3.3 Agricultural Lands of Importance to the State of Hawai'i

The Agricultural Lands of Importance to the State of Hawai'i (ALISH) classification system is based primarily, but not exclusively, on the soil characteristics, the establishment of criteria for classification of lands, and the inventory of prime farm lands that meet the criteria or similar criteria for the respective classes in the national Natural Resources Conservation Service classification system. The ALISH system identifies and maps three broad classes of agricultural land – Prime, Unique, and Other Important Agricultural Land, as well as Unclassified Land.



LEGEND

 Maui Waena Intermediate School

Type

 PZUE: Pu'uone sand, 7 - 30% slopes

Figure 8
Natural Resources Conservation Service
Soil Classification

**Maui Waena
Intermediate School**



LINEAR SCALE (FEET)



ISLAND OF MAUI



Source: Natural Resources Conservation Service (GIS, 2007)
Disclaimer: This graphic has been prepared for general planning purposes only.



LEGEND

-  Maui Waena Intermediate School
- Type
-  N: Unclassified

Figure 9
 Land Study Bureau Detailed Land Classification
Maui Waena Intermediate School

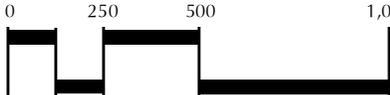
Source: Land Study Bureau (1967)
 Disclaimer: This graphic has been prepared for general planning purposes only.

ISLAND OF MAUI

NORTH



LINEAR SCALE (FEET)





PBR HAWAII & ASSOCIATES, INC.

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Under the ALISH land system classification, the Maui Waena lands are designated as Other Important Agricultural Land and Unclassified Land (Figure 10). Other Agricultural Land is land other than Prime or Unique Agricultural Land that is of statewide or local importance for the production of food, feed, fiber, and forage crops. The lands in this classification are important to agriculture in Hawai'i, yet they exhibit properties such as seasonal wetness, erosion, limited rooting zone, slope, flooding, or drought, which exclude them from the Prime or Unique Agricultural Land classifications. These lands can be farmed satisfactorily (i.e. by applying greater inputs of fertilizer and other soil amendments, constructing drainage improvements, and implementing erosion control practices and flood protection measures), and can produce fair to good crop yields when managed properly.

POTENTIAL IMPACTS AND MITIGATION MEASURES

Construction of the Maui Waena eight-classroom building and relocated play courts will not have a deleterious effect on the soils of the site and will not take any active agricultural land out of production.

Impacts to the soils include the potential for soil erosion and the generation of dust during grading and construction. Clearing and grubbing activities will temporarily disturb the soil retention values of the existing vegetation and expose soils to erosional forces. Some wind erosion of soils could occur without a proper watering and re-grassing program. Heavy rainfall could also cause erosion of soils within disturbed areas of land. Best Management Practices (BMPs) to minimize impacts may include the following:

- Minimizing the time of construction;
- Retaining existing ground cover as long as possible;
- Constructing drainage control features early;
- Using temporary area sprinklers in non-active construction areas when ground cover is removed;
- Providing a water truck on-site during the construction period to provide for immediate sprinkling, as needed;
- Using temporary berms and cut-off ditches, where needed, for control of erosion;
- Watering graded areas when construction activity for each day has ceased;
- Grassing or planting all cut and fill slopes immediately after grading work has been completed; and
- Installing silt fences, sediment traps, and diversion swales, where appropriate.

After construction, the new classroom building, relocated play courts and associated landscaping will provide long-term erosion control.

Construction activities will comply with all applicable Federal, State, and County regulations and rules for erosion control. A grading permit will be procured from the

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County and a National Pollutant Discharge Elimination System (NPDES) permit for construction stormwater discharges will be procured from the State Department of Health.

3.4 NATURAL HAZARDS

Hawai'i is susceptible to potential natural hazards, such as flooding, hurricanes, volcanic hazards, earthquakes, and wildfires. This section provides an analysis of site vulnerability to such hazards.

3.4.1 Flood

According to the Flood Insurance Rate Map (FIRM) prepared by the Federal Emergency Management Agency (FEMA), National Flood Insurance Program, the entire school is located in flood hazard Zone X, areas above the 500-year floodplain.

3.4.2 Hurricane

Since 1980, two hurricanes have had a devastating effect on Hawai'i. They were Hurricane 'Iwa in 1982 and Hurricane 'Iniki in 1992. Recently in 2007, Hurricane Flossie threatened to reach Hawai'i, putting Hawai'i on a hurricane watch. The hurricane, however, was downgraded from a hurricane to a tropical storm after passing Hawai'i Island, 95 miles south of South Point (AP 2007).

3.4.3 Earthquake

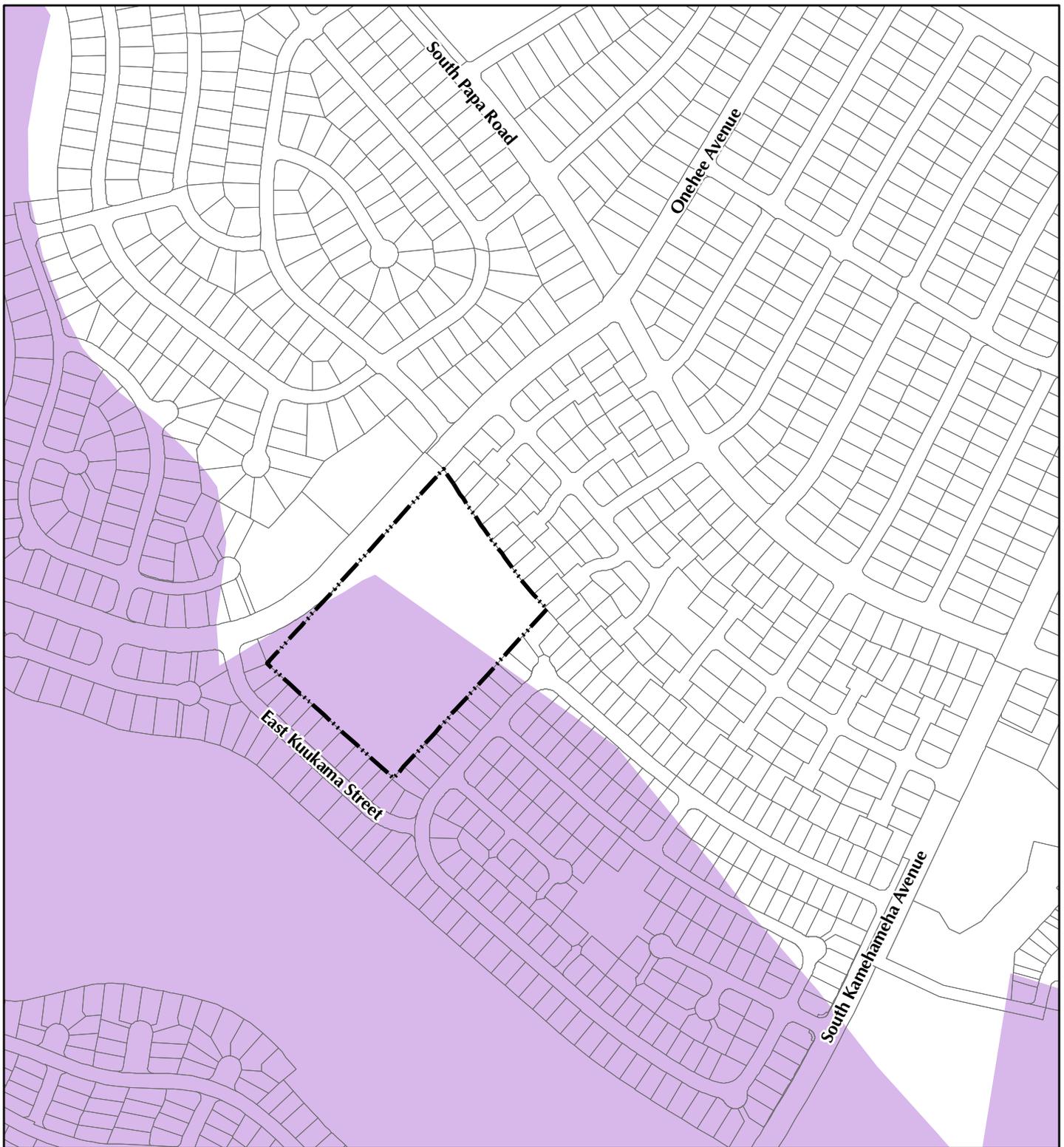
In Hawai'i, most earthquakes are linked to volcanic activity, unlike other areas where a shift in tectonic plates is the cause of an earthquake. Each year, thousands of earthquakes occur in Hawai'i, the vast majority of which are so small they are detectable only with highly sensitive instruments. However, moderate and disastrous earthquakes have occurred in the islands.

POTENTIAL IMPACTS AND MITIGATION MEASURES

The occurrence of a natural disaster cannot be predicted, and should one occur, it could pose a risk of life and property for Maui Waena. The proposed eight-classroom building and relocated play courts, however, will not exacerbate any natural hazard conditions.

To protect against natural hazards, the proposed eight-classroom building will be constructed in compliance with requirements of the Uniform Building Code and other County, State, and Federal standards.

Impacts from natural hazards can be further mitigated by adherence to appropriate civil defense measures as determined by the State and County civil defense agencies.



LEGEND

 Maui Waena Intermediate School

Definition

 Other ALISH

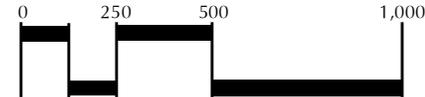
 Unclassified

Figure 10
Agricultural Lands of Importance
to the State of Hawai'i

**Maui Waena
Intermediate School**



LINEAR SCALE (FEET)



ISLAND OF MAUI



Source: State Department of Agriculture (1977)
Disclaimer: This graphic has been prepared for general planning purposes only.

3.5 FLORA

The site for the Maui Waena eight-classroom building is a paved play court, and the site for the proposed relocated play courts is a maintained lawn. There are no known rare or endangered species of flora within the proposed site or on the school campus.

POTENTIAL IMPACTS AND MITIGATION MEASURES

Construction of the proposed Maui Waena eight-classroom building and relocated play courts will not impact any endangered plant species as none are known to be present at the campus.

The building landscape will attempt to utilize the maximum amount of native species feasible. The use of native dry land plant species will help propagate native species and will likely result in lower maintenance and irrigation costs.

3.6 FAUNA

The proposed site is within the Wailuku and Kahului urban centers. Fauna within these urban centers is generally limited to dogs, cats, rats, mice, and mongooses. Birds found in the vicinity include the cardinal, barred dove, mockingbird, myna, golden plover, pueo, ricebird, house sparrow, white eye, and spotted dove.

There are no known rare or endangered species of fauna within the proposed site or on the school campus. It is possible that small numbers of birds found at the Kanaha Pond Wildlife Sanctuary may over-fly portions of the site on a seasonal basis.

The Kanaha Pond Wildlife Sanctuary, located on the northeastern edge of Kahului, is one of Hawai'i's most important waterfowl refuges. Kanaha Pond is an ancient Hawaiian fishpond that was declared a Registered National Natural Historic Landmark in 1971. Endangered water birds supported by Kanaha Pond are the Hawaiian Stilt, Hawaiian Coot, and Black-crowned Night Herons. The area is also frequented by migratory waterfowl and shorebirds.

POTENTIAL IMPACTS AND MITIGATION MEASURES

Construction of the proposed Maui Waena eight-classroom building and relocated play courts will not result in deleterious impacts to native fauna species as none are identified on the property. In addition, creation of the eight-classroom building and relocation of the play courts are not expected to impact the habitat of any fauna species due to the existing uses on site.

To minimize the threat of disorientation or downing of seabirds which may over-fly portions of the building site, all exterior lighting will be shielded in compliance with Chapter 20.35 (Outdoor Lighting), MCC.

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SECTION 4

Description of the Human Environment,
Potential Impacts, and Mitigation Measures

4 DESCRIPTION OF THE HUMAN ENVIRONMENT, POTENTIAL IMPACTS, AND MITIGATION MEASURES

This section describes the existing conditions of the human environment, preliminary potential impacts of the proposed Maui Waena eight-classroom building (and relocated play courts), and preliminary mitigation measures to minimize any impacts.

4.1 ARCHAEOLOGICAL, HISTORIC AND CULTURAL RESOURCES

Maui Waena was constructed in 1989, and the surrounding Maui Lani community was developed for commercial and residential uses thereafter. In the Final Environmental Assessment (Negative Declaration) for the Maui Waena Six-Classroom Building (1995), it was stated that: “No historical, archaeological or cultural sites are known to exist at the site.” Previous construction projects at the school have not involved discovery or disturbance of any known archaeological sites.

The site of the proposed eight-classroom building is located on an existing play court, and the site for the relocated play courts is a lawn. Because of prior land altering activities associated with construction of the campus, it is unlikely that any historic or cultural artifacts would exist on the property. In addition, historic sites or buildings listed on the National or State Register of Historic Places are not present on the school campus or in the immediate vicinity.

A cultural resources impact assessment was included in the Final Environmental Assessment/Finding of No Significant Impact for the Maui Lani Land Use Plan Update and Related Project District Amendments (March 2005).

“The Maui Lani Project District is located in the Wailuku ahupua’a, a traditional land division extending from the mountain to the sea...In order to obtain a range of cultural resource perspectives in the project district, additional informant data was provided by Leslie Kuloloio and Christopher Pa’aluhi Hasegawa Chang.

Mr. Kuloloio described the project area as low lying lands and sand dunes. Based on his understanding of Native Hawaiian history and culture, Mr. Kuloloio believes the sand dunes and area around the present project site were uninhabited. The sand dunes were too hot and lacked water and therefore, not suitable for settlement...

Mr. Chang was not aware of any cultural practices in the project site area. There are no special features of land in and around the project area that Native Hawaiians would have considered important, such as a prominent lookout, natural resources or food sources. Mr. Chang was also not aware of any folklore or songs which identified areas of features in or around the project site. Based on the

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paucity of cultural references, Mr. Chang believed the project area was not settled nor provided any significant cultural or historical references...

Neither the proposed Maui Waena eight-classroom building and relocated play courts are associated with any ongoing traditional cultural practices, such as trail access, hunting or gathering.

POTENTIAL IMPACTS AND MITIGATION MEASURES

No adverse impacts to archaeological, historical, or cultural resources are anticipated as no resources are likely to be present. The sites for the new classroom building and relocated play courts were both previously graded during development of the school. An archaeological monitoring plan will be prepared and submitted to the State Historic Preservation Division for review and approval prior to commencing construction. The proposed eight-classroom building and relocated play courts will not have any effect on traditional cultural practices as none are known to be associated with the school site.

4.2 ACCESS, ROADWAYS, AND TRAFFIC

The entrance to Maui Waena is from Onehe'e Avenue which serves as the only vehicle access to the school. The following are descriptions of major regional roadways and other local roads in the vicinity of the school.

Kuihelani Highway is a four-lane arterial highway connecting central Maui to Ma'alaea and West Maui. It provides high-speed north-south access to Pu'unene Avenue.

Ka'ahumanu Avenue is a four-lane arterial highway between Wailuku and Kahului and provides east-west mobility. Near Maui Mall, it curves to the south and becomes Hana Highway, continuing as a major arterial to provide regional access to Dairy Road, Haleakalā Highway, Pā'ia, and East Maui.

Maui Lani Parkway is a four-lane, divided roadway completed between Ka'ahumanu Avenue and Wai'inu Road. This roadway provides access to the Islands and Bluffs subdivisions within the project district. In the future, the existing segment will extend to Kuihelani Highway providing an alternative route to Ka'ahumanu Avenue.

Onehe'e Avenue currently provides north-south circulation for Maui Lani and the residential areas north of it. It currently extends from Wakea Avenue south to the access to the Island and Bluffs subdivisions of Maui Lani. Between Maui Waena and its current southern terminus within Maui Lani, Onehe'e Avenue is a four-lane collector roadway. North of Maui Waena, it is a two-lane collector roadway. The north end of Onehe'e Avenue terminates opposite a driveway for the Queen Ka'ahumanu Shopping Center.

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Papa Avenue provides east-west circulation through the existing residential subdivision area located north of Maui Lani. The roadway runs from Ka'ahumanu Avenue to Pu'unene Avenue.

Kamehameha Avenue is generally a two-lane collector roadway that is oriented in a generally north-south direction perpendicular to Papa Avenue. At its northern terminus, Kamehameha Avenue intersects Hana Highway at a signalized intersection.

POTENTIAL IMPACTS AND MITIGATION MEASURES

Construction of the proposed eight-classroom building and relocated play courts will have short-term impacts on local school traffic. During the initial excavation and structural work, there will be intermittent interruptions in traffic flow throughout campus on a typical workday for the delivery and removal of materials and heavy equipment. Interruptions to traffic flow will be minimized as much as possible by requiring that the contractor strictly adhere to a schedule so as not to coincide with peak traffic hours. Known school day peak hours are 7:15 to 8:15 am and 1:45 to 2:45 pm, generally 30 minutes before and after the school day.

There will be no impact to traffic on Onehe'e Avenue. Construction of the proposed eight-classroom building and relocated play courts will not generate an increase in the number of staff or students and therefore should not impact traffic flow or parking in the surrounding neighborhood. Rather, the proposed facility is intended to relieve overcrowding of existing spaces which offer a less than ideal educational environment.

Existing parking facilities provide parking in excess of that required by the County and DOE standards. An additional parking lot will be constructed next to Building L as part of the proposed site plan. The parking improvements will not increase traffic or vehicles at the school, and are intended to support existing car and bus traffic. The County Department of Transportation was consulted in the preparation of this EA, and they wrote that they "...have no comments to make at this time."

4.3 NOISE

Existing noise levels in the vicinity of Maui Waena are relatively low, consistent with the character of the school and surrounding residential uses. The primary source of noise at the school is associated with school activities, use of the existing play courts and playing fields, maintenance equipment, and vehicular traffic within the campus and along Onehe'e Avenue.

POTENTIAL IMPACTS AND MITIGATION MEASURES

Construction activities will generate temporary noise that may have an impact on school activities. The existing portable classroom buildings (P-7, 8, 9, 10 & 11) adjacent to the proposed eight-classroom building will experience some noise disturbances. Buildings L

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and M will be affected by the construction of the proposed parking lot and play courts. These noise impacts are unavoidable, but will be temporary. To the extent possible, noisy construction should be scheduled during the summer months to minimize impact on students.

The existing properties across Onehe'e Avenue west of the proposed building site are predicted to experience higher noise levels during construction activities due to their closer proximity to the construction site. If necessary, contractors will employ mitigation measures to minimize those temporary noise impacts including the use of mufflers and implementing construction curfew periods. Pursuant to Chapter 11-46, HAR, all construction activities must comply with all community noise controls. In cases where construction noise exceeds, or is expected to exceed the DOH's "maximum permissible" noise levels at the school property line, the contractor will obtain a permit from the DOH to operate vehicles, construction equipment, and power tools that emit noise levels in excess of "maximum permissible" levels. Construction will occur during the daytime hours.

4.4 AIR QUALITY

The air quality around the site is generally excellent year-round. The prevailing northeasterly trade winds flow tends to push any human-made or natural pollutants out to sea. However, the amount of particulates and other air pollutants can significantly increase during periods when the winds shift from a southeasterly direction. Air flow from this direction carrying volcanic smog (more commonly referred to as vog) over and around the mountain barrier, can lead to an increase in pollution and a decrease in visibility.

POTENTIAL IMPACTS AND MITIGATION MEASURES

No State or Federal air quality standards will be violated during or after the construction of the new classroom building and relocated play courts.

Short-term impacts from emission of fugitive dust will likely occur during site preparation and construction. An effective dust control plan will be implemented as necessary. All construction activities will comply with the provisions of Section 11-60.1-33, HAR related to Fugitive Dust. Measures to control dust during various phases of construction may include:

- Providing an adequate water source at the site prior to start-up construction activities;
- Irrigating the construction site during periods of drought or high winds;
- Landscaping and rapid covering of bare areas, including slopes, starting from the initial grading phase;
- Disturbing only the areas of construction that are in the immediate zone of construction to limit the amount of time that the areas will be subject to erosion;

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- Providing adequate dust control measures during weekends, after hours, and before daily start-up of construction activities; and
- Installing dust screening in the areas of disturbance.

Overall, air quality impacts will be temporary and limited to the duration of construction. Long-term impacts are not expected.

4.5 VISUAL RESOURCES

Scenic and visual resources to the west include views of 'Īao Valley and the West Maui Mountains and views to the east include Haleakalā.

POTENTIAL IMPACTS AND MITIGATION MEASURES

The proposed eight-classroom building will be noticeable from Onehe'e Avenue and will change the visual character of the site from a play court to a two-story building. However, the structure will be visually compatible with the adjacent school buildings, and will not obstruct any view planes. The relocated play courts will be visible from residences the border portions of the western and southern edges of the campus.

The Maui Waena campus is located within the public/quasi-public PD-WK/1 district. Maximum building height within this district is two stories, not to exceed thirty feet. The proposed two-story classroom building will be 34 feet and three inches in height. A height variance is being sought to allow the building to exceed the maximum height requirement of thirty feet. Approval is anticipated as other existing adjacent buildings (i.e. Cafeteria at 33 feet, six inches, Agricultural Building at 22 feet and Gym at 18 feet) are similar in height.

The building scale and design will be consistent with the surrounding structures. Landscaping, such as palms, will be used to improve the visual character and soften the impact of the building's height and mass.

Lighting requirements in force at the time of building permit application will be applied.

4.6 INFRASTRUCTURE AND UTILITIES

4.6.1 Water System

The County Department of Water Supply (DWS) Central Maui System provides water service to the Maui Waena and the surrounding area. According to Draft EA pre-consultation comments received from the DWS, the property is served by two 2-inch meters and a 1-inch irrigation meter. Consumption average is 43,500 gallons per day (GPD). There is currently no additional source available to accommodate additional demand according to system standards on the Central Maui System. The entire school site is within the 10 year time of travel wellhead protection area (WHPA) of DWS sources

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overlying the Kahului aquifer. The west portion of the school is also located within the 2 year time of travel WHPA of a DWS well.

An 18-inch waterline and four fire hydrants are located along Onehe'e Avenue. The school campus is served by a private fire protection system.

POTENTIAL IMPACTS AND MITIGATION MEASURES

Since the proposed classroom building is being constructed to alleviate existing overcrowding conditions, it is not anticipated to have a significant adverse effect on water sources and storage facilities, as well as water transmission and distribution systems. Fire flow requirements will be determined in the building permit process. During the Draft EA pre-consultation process, the DWS provided the water conservation measures that should be considered in the design process. These are listed in Section 2.6 of this EA.

Since the west portion of the school is located within the 2 year time of travel WHPA of a DWS well, DWS recommends that the following Best Management Practices (BMPs) design to minimize infiltration and runoff be implemented during construction:

1. There shall be a designated person on site during operation hours who is responsible for supervising the use, storage, and handling of hazardous material and who shall take appropriate mitigating actions necessary in the event of a fire or spill.
2. Hazardous materials left on site when the site is unsupervised must be inaccessible to the public. Locked storage sheds, locked fencing, locked fuel tanks on construction vehicles, or other techniques may be used if they will preclude access.
3. Construction vehicles and stationary equipment that are found to be leaking fuel, hydraulic fluid, and/or other hazardous materials shall be removed from the site and from WHPA. The vehicle or equipment may be repaired in place, provided the leakage is completely contained.
4. Storage and dispensing of flammable and combustible liquids from tanks, containers, and tank vehicles into the fuel and fluid reservoirs of construction vehicles or stationary equipment on the construction site shall be in accordance with these standards and County Fire Code Chapter 16.04A.
5. Hazardous materials and other deleterious substances shall not be allowed to enter storm water systems.

Potable water and fire flow requirements, as well as connection to the Central Maui System will be coordinated with DWS. DWS has indicated that there is currently no additional source available to accommodate additional demand according to system standards on the Central Maui System. The school's meter adequacy will be determined as part of the Building Permit application process. DWS may delay issuance of additional or larger meter until new sources are on line. DWS will also not issue temporary construction meters for Central Maui projects. Any storage, transmission and source development

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obligations will be fulfilled as part of, and in conjunction with, payment of the comprehensive meter fee.

All water system improvements will be constructed in accordance with applicable regulatory design standards.

4.6.2 Wastewater System

Maui Waena is serviced by the County's Central Maui Wastewater Reclamation Facility (WWRF). The Central Maui WWRF has a design capacity of 7.9 MGD and currently treats an average of approximately 5.5 MGD. The facility is located on Amala Place in Kahului. According to the County Wastewater Reclamation Division, the facility's total allocation (including projects already permitted) is 6.9 MGD.

Within Maui Lani, an existing 12-inch sewer line is situated within Kamehameha Avenue.

POTENTIAL IMPACTS AND MITIGATION MEASURES

The projected wastewater generation from the proposed classroom building is anticipated to be 5,922 GPD. The proposed classroom building is not anticipated to have a significant adverse impact upon the region's wastewater capacities and facilities. An allocation of capacity, as well as any necessary wastewater contribution calculations, will be coordinated with the County Department of Environmental Management (DEM), Wastewater Reclamation Division as part of the building permit application process.

Applicable wastewater assessment fees for the Central Maui WWRF will be paid prior to approval of the building permit as specific in Chapter 14.34, MCC. Per comments received from the DEM Wastewater Reclamation Division, during the EA pre-consultation process, DOE will be "...required to fund any necessary off-site improvements to collection system and wastewater pump stations...Plans shall show the existing property sewer service manhole near the property line. If a property sewer service manhole does not exist, one shall be installed."

Per further comments received from the DEM Wastewater Reclamation Division (during the EA pre-consultation process), any science labs within the proposed eight-classroom building must comply with pre-treatment requirements, such as grease interceptors, sample boxes, and screens, any non-contact cooling water and condensate should not drain into the wastewater system.

All wastewater system improvements will be constructed in accordance with applicable regulatory design standards.

4.6.3 Drainage System

A portion of the existing Maui Waena playfield serves as a retention basin. Currently, surface runoff from the school sheet flows toward the playfield.

According to the Maui Lani Project District Master Drainage Plan (Section IV.B.) prepared in 1995 by Sato & Associates, Inc. the increase in runoff resulting from development within the project district is directed toward the Dunes at Maui Lani Golf Course, which is the designated retention basin.

POTENTIAL IMPACTS AND MITIGATION MEASURES

No major improvements to the existing drainage system will be needed for the proposed classroom building and relocated play courts. Existing drainage patterns will be maintained. Runoff will continue to sheet flow across the property to existing swales and drainage basins.

4.6.4 Solid Waste

Solid waste generated by the Maui Waena campus is disposed of at the Central Maui Landfill, located to the southeast of Kahului airport. The DEM Solid Waste Division operates the Central Maui Landfill. In addition to County-collected refuse, the Central Maui Landfill also accepts commercial solid waste from private collection companies. According to the Integrated Solid Waste Management Plan (County of Maui 2008), there is adequate capacity at the Central Maui Landfill with planned improvements to 2026. A County green waste recycling facility is also located at the landfill.

Privately owned facilities, such as the Maui Demolition and Construction Landfill and Pohakulepo Concrete Recycling Facility, accept solid waste and concrete from demolition and construction activities. These facilities are located in Ma'alaea.

POTENTIAL IMPACTS AND MITIGATION MEASURES

Waste generated by site preparation will primarily consist of green waste from grading, materials from the existing play court, and solid waste during construction. A solid waste management plan will be coordinated with the DEM Solid Waste Division for the disposal of construction-related waste material.

The DOE has also indicated interest in striving to achieve LEED Silver certification for the proposed eight-classroom building. As such, construction of the classroom building will include waste management measures in accordance with the USGBC's LEED for Schools certification requirements. Per comments received by the DEM Solid Waste Division during the EA pre-consultation process, the following strategies for the management of construction waste will be considered:

- Recycle and/or salvage at least 50% of construction and demolition debris;
- Develop and implement a construction waste management plan;
- Use materials that are re-used, rapidly renewable, of recycled content, and of certified manufactures; and
- Use local products and materials.

4.6.5 Electrical and Communications System

The school obtains electrical service from Maui Electric Company.

POTENTIAL IMPACTS AND MITIGATION MEASURES

The existing power will be extended to support the proposed classroom building. The building's electrical and telecommunications systems will be connected to the school campus main distribution frame. The building fire alarm system will be connected to the main campus fire alarm control panel.

During the EA pre-consultation process, the Maui Electric Company wrote that it "...may be requiring access and electrical easements for our facilities to serve the subject project site. We highly encourage the customer's electrical consultant to submit electrical drawings and a project time schedule as soon as practical so that service can be provided on a timely basis."

This building will likely include green/climate appropriate architecture incorporating energy efficient technology and design, and appropriate vegetation and landscaping to moderate climatic effects.

4.7 SOCIO-ECONOMIC CHARACTERISTICS

4.7.1 Population

According to the 2010 U.S. Census, the population of Maui island increased from 117,644 persons in 2000 to 145,157 persons in 2010. The population of the *Wailuku-Kahului Community Plan* area was 41,503 persons in 2000 and was projected to be 48,397 persons in 2010 and 55,424 persons in 2020.

4.7.2 Economy

Wailuku is the civic-financial-cultural center of Maui, and Kahului is the business and industrial center of Maui. Maui Waena is located between Wailuku and Kahului.

Tourism is the primary economic engine of Maui, with many residents working in the service industry. The State Department of Business, Economic Development and Tourism

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(DBEDT) reported that in 2010 the number of visitors to Maui had increased 10.4 percent compared to 2009, resulting in 2,089,661 visitors.

According to the U.S. Census Bureau, the median household income was \$63,659 (in 2009) and per capita income was \$29,121 (in 2009) in Maui County.

POTENTIAL IMPACTS AND MITIGATION MEASURES

The new classroom building will not affect area population. The construction of the new eight-classroom building will improve the school's facilities, reduce overcrowding, provide needed classrooms, and meet the future growth demands of incurring enrollment.

The construction will also provide positive economic benefits in terms of construction jobs, construction spending, and multiplier effects on the local economy. During the EA pre-consultation period, the State Department of Labor and Industrial Relations wrote that it "...has no comments to offer and we foresee no impact on our existing or proposed projects and programs." In the long-term, the new classroom building will have a positive economic effect on the school.

4.8 PUBLIC SERVICES AND FACILITIES

4.8.1 Schools

Maui Waena is the largest middle school on the island of Maui and has serviced students predominantly from Kahului as part of the Maui High Complex since 1989. Students from three feeder elementary schools (Kahului, Lihikai, and Pōmaika'i) transition through Maui Waena, and then to Maui High School.

The Wailuku-Kahului region is served by: 1) four elementary schools: Waihe'e Elementary, Wailuku Elementary, Lihikai Elementary, and Kahului Elementary; 2) two intermediate schools: Maui Waena and 'Iao Intermediate; and 3) two high schools: Baldwin High and Maui High. Table 1 provides the enrollment data.

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Table 1. Capacity and Enrollment for Public Schools serving Wailuku-Kahului

School	Capacity	Enrollment in 2011-2012 School Year
Waihe'e Elementary	751	769
Wailuku Elementary	1,132	920
Lihikai Elementary	1,074	971
Kahului Elementary	936	986
Maui Waena Intermediate	1,008	1,084
ʻĪao Intermediate	945	876
Baldwin High	1,542	1,612
Maui High	1,513	1,826

Source: State of Hawai'i Department of Education, 2012
(<http://doe.k12.hi.us/reports/enrollment.htm>).

The Wailuku-Kahului region has seven private schools which account for approximately 10% of total school enrollment in Wailuku-Kahului. These schools include Christ the King, Emmanuel Lutheran, Ka'ahumanu Hou Christian, Maui Adventist, and St. Anthony (Hawai'i Association of Independent Schools, 2011).

POTENTIAL IMPACTS AND MITIGATION MEASURES

The Maui Waena's 2011-2012 enrollment of 1,084 students is anticipated to increase significantly due to ongoing construction of subdivisions in the surrounding Maui Lani development area. Existing facilities are inadequate to meet the Department of Education's design enrollment for the school (1,008 students). The shortage of classroom space results in overcrowded classrooms and limited class offerings.

The construction of the new classroom building will help meet the future growth demands of incurring enrollment growth, while ensuring students have a quality environment in which to learn. During the pre-consultation process, the Office of Hawaiian Affairs (OHA) wrote: "OHA applauds the efforts of the Department of Education to improve the learning environment at Maui Waena Intermediate School."

The Central Maui area's population forecast show the highest growth in school aged children when compared to other community plan districts on the island. In the long-term, the DOE has discussed the possibility of a new elementary or intermediate school in the Waiehu area to address projected enrollment increases. It appears that a new intermediate school will be necessary given the existing capacity of Maui Waena and ʻĪao Intermediate School and the anticipated growth potential for the area after 2012.

During the Draft EA pre-consultation period, the State Department of Human Services, Benefit, Employment & Support Services Division wrote that "...we do not have any

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comments or concerns. We, also at this time, do not foresee any impact on any child care services in the community.”

4.8.2 Police

The County Police Department is headquartered at the Wailuku Police Station at the intersection of Ka’ahumanu Avenue and Mahalani Street. The Wailuku region is serviced by the Central Maui patrol unit. There are approximately 115 uniformed patrol officers and other personnel that serve this division.

4.8.3 Fire

Fire prevention, suppression, and protection services for the Wailuku region is provided by the County Department of Fire and Public Safety (DFPS). Maui Waena is located approximately 2.5 miles from the Wailuku Fire Station to the northwest and the Kahului Fire Station to the east. In 2009, there were approximately 48 fire fighters and other personnel in the Kahului District.

4.8.4 Medical

Maui Memorial Medical Center, the only major medical facility on the island, services the Wailuku-Kahului region. Acute, general and emergency care services are provided by the approximately 201-bed facility. The Kaiser Permanente Medical Care facility, Liberty Dialysis Center, located within the Maui Lani Project District to the east of Maui Waena, provides additional private health care services in the Central Maui area. In addition, numerous privately operated medical/dental clinics and offices are located in the area to serve the local population.

POTENTIAL IMPACTS AND MITIGATION MEASURES

The new classroom building is not expected to create an increased demand on existing public services. During the EA pre-consultation process, the DFPS wrote that “At this time, the Fire Prevention Bureau has no specific comments. Our office reserves the right to comment during the building permit application process when detailed plans are required to be submitted for review.”

4.8.5 Recreational Facilities

Diverse recreational opportunities are available in the Wailuku-Kahului region. The Wailuku-Kahului Community Plan area contains more parks per capita than any other community plan area on the island. Since many of the community’s parks provide region-wide facilities, they are used by residents of other communities. This region has approximately 186 acres of sub-regional park land and 334 acres of regional parks. Numerous recreational parks and facilities are located in close proximity to Maui Waena. These include:

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- Honoli'i Park;
- Kahului Community Center & Pool;
- Lihikai Park;
- Mokuhau Park;
- Pōmaika'i Park;
- Wai'ale Neighborhood Park;
- War Memorial Complex & Keopuolani Regional Park; and
- Wells Community Complex.

The Maui Waena campus contains outdoor playfields and a play court. As a school, Maui Waena is a "recreation and community facility."

POTENTIAL IMPACTS AND MITIGATION MEASURES

The proposed classroom building will displace the existing play courts. The play courts will be relocated to open lawn adjacent to Building M (Music). During the EA pre-consultation period, the County Department of Parks & Recreation wrote: "Our concern is that the relocated courts will have a negative impact on the use of the fields by our youth leagues. The County has a shortfall on playfields and relies on joint use of fields with the schools." A review of the site indicates that there is adequate area to accommodate the relocated play courts, a soccer field and Little League baseball field.

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SECTION 5

Land Use Conformance

5 LAND USE CONFORMANCE

The State and County land use plans, policies, and ordinances relevant to Maui Waena are described below.

5.1 STATE OF HAWAI'I

5.1.1 State Land Use Law, Chapter 205, Hawai'i Revised Statutes

The State Land Use Law (Chapter 205, HRS), establishes the State Land Use Commission (LUC) and authorizes this body to designate all lands in the State into one of four Districts: Urban, Rural, Agricultural, or Conservation.

The entire Maui Waena campus is located within the State Urban District (Figure 4). The Urban classification generally includes land characterized by a city-like concentration of people, structures and services, including vacant areas for future development. The counties primarily have jurisdiction over urban lands through their land use ordinances and regulations. A school is a permitted use in the State Land Use Urban District and is therefore consistent with the existing State Land Use classification.

5.1.2 Hawaii State Plan, Chapter 226, Hawaii Revised Statutes

The *Hawaii State Plan* (Chapter 226, HRS), establishes a set of goals, objectives, and policies that serve as long-range guidelines for the growth and development of the State. The *Hawai'i State Plan* also improves the coordination of Federal, State, and County plans, policies, programs, projects, and regulatory activities, and establishes a system for the planning, coordination, and integration of major state and county activities. Part I of the Plan lists the State's long-range goals, objectives, policies and priorities. Part II establishes a statewide planning system to coordinate and implement the plan. Part III establishes priority guidelines to address areas of statewide concern. The relevant State Plan goals, objectives, policies and priority guidelines, along with a discussion of how the project conforms, are discussed below.

HRS §226-21 Objective and policies for socio-cultural advancement--education.

Objective: *Planning for the State's socio-cultural advancement with regard to education shall be directed towards achievement of the objective of the provision of a variety of educational opportunities to enable individuals to fulfill their needs, responsibilities, and aspirations.*

To achieve the educational objective, it shall be the policy of the State to:

Policies:

- (2) Ensure the provision of adequate and accessible educational services and facilities that are designed to meet individual and community needs.*
- (3) Provide appropriate educational opportunities for groups with special needs.*

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- (7) *Promote programs and activities that facilitate the acquisition of basic skills, such as reading, writing, computing, listening, speaking, and reasoning.*
- (8) *Emphasize quality educational programs in Hawaii's institutions to promote academic excellence.*

Discussion: The development of the proposed eight-classroom building will expand the educational facilities of the Maui Waena campus, addressing the shortage of classroom space and ensuring students have a quality environment in which to learn. The eight-classroom building will include classrooms for the Comprehensive School Adjustment Program (CSAP). The CSAP is a secondary school early intervention and prevention program that addresses the needs of students who are at risk of school failure and dropping out of school. It provides supports to students to enable them to meet the Hawaii Curriculum Standards and the high school graduation requirements.

HRS §226-107 Quality education.

Priority guidelines:

- (1) *Pursue effective programs which reflect the varied district, school, and student needs to strengthen basic skills achievement;*
- (2) *Continue emphasis on general education "core" requirements to provide common background to students and essential support to other university programs;*
- (3) *Initiate efforts to improve the quality of education by improving the capabilities of the education work force;*
- (5) *Increase and improve the use of information technology in education by the availability of telecommunications equipment for:*
 - (A) *The electronic exchange of information;*
 - (B) *Statewide electronic mail; and*
 - (C) *Access to the Internet.**Encourage programs that increase the public's awareness and understanding of the impact of information technologies on our lives;*
- (7) *Develop resources and programs for early childhood education;*
- (9) *Strengthen and expand educational programs and services for students with special needs.*

Discussion: The proposed eight-classroom building will include classrooms for science, choral music, a computer lab, the Comprehensive School Adjustment Program (CSAP), and related facilities. The CSAP is a secondary school early intervention and prevention program that addresses the needs of students who are at risk of school failure and dropping out of school. It provides supports to students to enable them to meet the Hawaii Curriculum Standards and the high school graduation requirements.

5.1.3 Coastal Zone Management Act, Chapter 205A, Hawaii Revised Statutes

The Coastal Zone Management (CZM) Program (Chapter 205A, HRS) was established to provide public recreational opportunities, protect coastal resources and ecosystems, reduce hazards, and manage development. Maui Waena is not located near the shoreline or within the Special Management Area (SMA). Therefore, the proposed classroom building is not subject to Chapter 205A, HRS.

5.2 COUNTY OF MAUI

County land use plans and ordinances that pertain to Maui Waena include the *Countywide Policy Plan*, *Draft Maui Island Plan*, the *Wailuku-Kahului Community Plan*, and Chapter 19.78, MCC.

5.2.1 Countywide Policy Plan

The *Countywide Policy Plan* was adopted in March 2010 and is a comprehensive policy document for the County of Maui to the year 2030. The plan replaces the *General Plan of the County of Maui 1990 Update* and provides the policy framework for the development of the forthcoming Maui Island Plan as well as for updating the nine detailed Community Plans.

The *Countywide Policy Plan* provides broad goals, objectives, policies and implementing actions that portray the desired direction of the County's future. Goals are intended to describe a desirable condition of the County by the year 2030 and are intentionally general. Objectives tend to be more specific and may be regarded as milestones to achieve the larger goals. Policies are not intended as regulations, but instead provide a general guideline for County decision makers, departments, and collaborating organizations toward the attainment of goals and objectives. Implementing actions are specific tasks, procedures, programs, or techniques that carry out policy.

The relevant goals, objectives, policies and implementing actions, along with a discussion of how the project conforms, are discussed below.

IMPROVE EDUCATION

Goal: *Residents will have access to lifelong formal and informal educational options enabling them to realize their ambitions.*

Objective:

(2) *Provide nurturing learning environments that build skills for the 21st century.*

Policies:

- (b) *Plan for demographic, social, and technological changes in a timely manner.*
- (c) *Encourage collaborative partnerships to improve conditions of learning environments.*
- (d) *Promote development of neighborhood schools and educational centers.*
- (e) *Integrate schools, community parks, and playgrounds, and expand each community's use of these facilities.*
- (f) *Support coordination between land use and school-facility planning agencies.*
- (g) *Encourage the upgrade and ongoing maintenance of public-school facilities.*
- (h) *Encourage the State Department of Education to seek reliable, innovative, and alternative methods to support a level of per-pupil funding that places Hawai'i among the top tier of states nationally for its financial support of public schools.*
- (i) *Encourage the State to promote healthier, more productive learning environments, including by providing healthy meals, more physical activity, natural lighting, and passive cooling.*

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- (j) *Encourage the State to support the development of benchmarks to measure the success of Hawai'i's public-education system and clarify lines of accountability.*
- (k) *Design school and park facilities in proximity to residential areas.*
- (l) *Support technology- and natural-environment-based learning.*
- (m) *Encourage the State to support lower student-teacher ratios in public schools.*

Discussion: The development of the proposed eight-classroom building will expand the educational facilities of the Maui Waena campus, addressing the shortage of classroom space and ensuring students have a quality environment in which to learn. The eight-classroom building will include classrooms for the Comprehensive School Adjustment Program (CSAP). The CSAP is a secondary school early intervention and prevention program that addresses the needs of students who are at risk of school failure and dropping out of school. It provides supports to students to enable them to meet the Hawaii Curriculum Standards and the high school graduation requirements.

5.2.2 Wailuku-Kahului Community Plan

The *Wailuku-Kahului Community Plan* is one of nine community plans developed to address both the general policies of the *General Plan* and the unique aspects of each region. According to the *Wailuku-Kahului Community Plan Land Use Map*, the Maui Waena campus is designated Project District 1, referred to as Maui Lani (Figure 5). The community plan objectives and policies relevant to the proposed eight-classroom building at Maui Waena are discussed below.

EDUCATION

Objectives and Policies:

- (1) *Allocate sufficient land areas as part of residential project district specifications to meet future school site needs.*
- (3) *Coordinate the development of school facilities with the State Department of Education in conjunction with planned residential projects.*
- (7) *Support the improvement and maintenance of existing school facilities.*

Discussion: The development of the proposed eight-classroom building will expand the educational facilities of the Maui Waena campus, addressing the shortage of classroom space and ensuring students have a quality environment in which to learn. The eight-classroom building will include classrooms for science, choral music, a computer lab, the Comprehensive School Adjustment Program (CSAP), and related facilities. The CSAP is a secondary school early intervention and prevention program that addresses the needs of students who are at risk of school failure and dropping out of school. It provides supports to students to enable them to meet the Hawaii Curriculum Standards and the high school graduation requirements.

5.2.3 County Zoning

Maui Waena is located within the Wailuku-Kahului Project District 1 and is subject to requirements under Chapter 19.78, MCC. Maui Waena is also within the Public/Quasi-Public district. The maximum height within this district is two stories, not to exceed 30 feet. The proposed classroom building will be 34 feet and 3 inches in height; therefore, a height variance will be sought.

Development within a project district is also subject to a phased approval process. A Project District Phase II approval (which would require approval by the Maui Planning Commission) is not required; however, a Project District Phase III approval will be required. The Project District Phase III process involves the submittal of a final site plan for the building to the Planning Director.

The proposed project is located within the existing Maui Waena site as shown on the Maui Lani Project District Phase II map, which was approved by the County Planning Department in a letter dated September 20, 1990.

5.2.4 Special Management Area

The building site is not within the Special Management Area (SMA) defined by the County of Maui.

5.2.5 Chapter 2.96 Maui County Code

The purpose of Chapter 2.96 of the Maui County Code is to enhance the public welfare by ensuring that the housing needs of the County are addressed. It is the stated intent of Chapter 2.96 to encourage the provision and maintenance of residential workforce housing units, for both purchase and rental, to meet the needs of income-qualified households for the workforce, students, and special housing target groups. During the EA pre-consultation process, the County Department of Housing and Human Concerns wrote “Based on our review, we have determined that the subject project is not subject to Chapter 2.96 of the Maui County Code. At the present time, the Department has no additional comments to offer.”

5.3 APPROVALS AND PERMITS

A listing of anticipated permits and approvals required for the proposed eight-classroom building and relocated play courts at Maui Waena is presented below:

Table 2. Anticipated Approvals and Permits

PERMIT/APPROVAL	RESPONSIBLE AGENCY
Chapter 343, HRS compliance	State Department of Education
Height Variance	County Planning Department
Project District Phases III Approval	County Planning Department
Chapter 6E, HRS Compliance	State Historic Preservation Division
National Pollutant Discharge Elimination System (NPDES) Permit	State Department of Health
Grading/Building/Infrastructure/Site Development Permits	County Department of Public Works and Waste Management

SECTION 6

Alternatives

6 ALTERNATIVES

Under HAR Title 11, Department of Health, Chapter 200, Environmental Impact Statement Rules, Section 11-200-17(F), an EA must discuss alternatives to the proposed action. As discussed in Section 2.2, a site selection process was initiated by the State to evaluate potential locations for the proposed eight-classroom building.

6.1 NO ACTION ALTERNATIVE

Under the No Action alternative, the new classroom building would not be constructed and the site would continue to be used as a play courts. The No Action alternative would not provide the additional capacity needed to address the issue of inadequate and overcrowded classrooms at Maui Waena, and therefore would not meet the objectives of the proposed action.

The Maui Waena's 2011-2012 enrollment of 1,084 students is anticipated to increase significantly due to ongoing construction of subdivisions in the surrounding Maui Lani development area. Existing facilities are inadequate to meet the Department of Education's design enrollment for the school (1,008 students). The shortage of classroom space results in overcrowded classrooms and limited class offerings. The proposed eight-classroom building will help meet the future growth demands of incurring enrollment growth, while ensuring students have a quality environment in which to learn.

Under the No Action alternative, resources committed to plan and construct the proposed classroom building and relocated play courts would be foregone and the objective of the project unachieved.

Because the additional classrooms are needed, the No Action Alternative has been rejected.

6.2 ALTERNATIVE SITES

Three alternative locations for the proposed eight-classroom building were examined early in the project design phase. The sites were evaluated based on the following criteria: 1) location; 2) impacts to existing structures; 3) access; 4) disruptions to campus during construction; and 5) visual impact to adjacent landowners. The three sites include:

- Site 1 – area of the existing play courts
- Site 2 – portion of class at southeastern end of campus
- Site 3 – adjacent to Building G

Based on the needs of the school and through consultations with school personnel, the preferred site in the area of the existing play courts, along Onehe'e Avenue, was ultimately selected because of the following:

- The sites' location near Onehe'e Street allows for minimal disruption to the campus during construction;
- Minimal impact to existing structures;
- Adjacent to existing parking area for access to special education services;
- Minimal impact on natural ventilation of adjacent buildings; and
- Retains existing open gathering area adjacent to Building G.

6.3 EVALUATION OF ALTERNATIVES

The proposed action was the result of an analysis of alternative locations on campus. The building site was selected because it would create minimal disruption during construction, minimal impact to existing structures, and provide easy access to special education services.

SECTION 7

Findings and Determination

7 FINDINGS AND DETERMINATION

To determine whether the construction of the eight-classroom building and relocated play courts at Maui Waena may have a significant impact on the physical and human environment, all phases and expected consequences of the proposed project have been evaluated, including potential primary, secondary, short-range, long-range, and cumulative impacts. Based on this evaluation, the Approving Agency (DOE) is expected to issue a Finding of No Significant Impact (FONSI) for the proposed Maui Waena eight-classroom building. The supporting rationale for this anticipated finding is presented in this chapter.

7.1 PROBABLE IMPACT, INCLUDING CUMULATIVE IMPACTS

Impacts, including cumulative impacts, of Maui Waena include increase:

7.2 SIGNIFICANCE CRITERIA

Based upon the previous information presented in this document the proposed construction of the eight-classroom building and relocated play courts will likely have no significant environmental impacts. This determination is based upon the Significance Criteria as specified in Section 11-200-12, HAR (Environmental Impact Statement Rules). It is anticipated that construction of the proposed Maui Waena eight-classroom building and relocated play courts:

- 1) **Will not involve an irrevocable commitment to natural or cultural resources.** (The proposed eight-classroom building is located on the site of an existing “hardened” play courts, with no natural or cultural resources present. As part of the proposed action, the existing play courts will be relocated to an unused open area on the Maui Waena grounds.)
- 2) **Will increase the range of beneficial uses of the environment.** (The area for Maui Waena school campus is limited and is surrounded by a street and abutting residences. Given the limited availability of land, the proposed eight-classroom building represents an efficient use of the land available to Maui Waena).
- 3) **Will not conflict with the State and County’s long-term environmental policies, goals and guidelines.** (The proposed eight-classroom building will not conflict with the State’s and County’s long-term environmental policies, goals and guidelines, by more efficiently using land that is already urbanized.)
- 4) **Will substantially and positively affect the economic or social welfare, and cultural practices of the community or State.** (During the pre-consultation process, the Office of Hawaiian Affairs (OHA) wrote: “OHA applauds the

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efforts of the Department of Education to improve the learning environment at Maui Waena Intermediate School.”)

- 5) **Will not substantially affect public health.** (The construction and operation of the proposed eight-classroom building should not result in long-term adverse impacts to ambient air quality and noise levels. Since the proposed project will include a replacement of the existing play courts, no impacts to students’ access to exercise and health should result.)
- 6) **May involve substantial secondary impacts such as population changes or effects on public facilities.** (The construction and operation of the proposed eight-classroom building will not generate resident population to Maui County, and is intended to improve this particular public facility, a public intermediate school.)
- 7) **Will not involve a substantial degradation of environmental quality.** (The construction and operation of the proposed eight-classroom building and relocated play courts should not result in long-term adverse impacts to ambient air quality and noise levels.)
- 8) **May cumulatively have a positive effect upon the environment from a land use point of view.** (The proposed eight-classroom building and relocated play courts will be sited on the existing Maui Waena campus, more efficiently using land that is already urbanized.)
- 9) **Will not substantially affect a rare, threatened, or endangered species or its habitat.** (The proposed eight-classroom building is located on the site of an existing “hardened” play court, with no rare, threatened, or endangered species or its habitat. Similarly, the proposed relocation of the play courts to open lawn with no rare, threatened, or endangered species or its habitat)
- 10) **Will not detrimentally affect air or water quality or ambient noise levels.** (As previously noted, the construction and operation of the proposed eight-classroom building and relocated play courts should not result in long-term adverse impacts to ambient air quality and noise levels.)
- 11) **Will not affect environmentally-sensitive areas such as a flood plain, tsunami zone, erosion prone areas and geologically hazardous land, estuary, fresh water, or coastal waters.** (The proposed eight-classroom project is not located on an environmentally-sensitive area, and is not subject to flooding, tsunami inundation, erosion, landslides or water bodies.)
- 12) **Will not substantially affect scenic vistas and view planes identified in County or State plans or studies.** (While the project will replace a fenced

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open play court with a new building, it is not located in an area offering important scenic vistas or view planes.)

- 13) **Will require additional energy consumption.** (The DOE strives to meet the equivalent LEED Silver Certification for this classroom building. The LEED Green Building Rating System is a nationally accepted benchmark for the design, construction, and operation of sustainable buildings. The LEED Green Building Rating System encourages and accelerates global adoption of sustainable green building and development practices through the creation and implementation of universally understood and accepted tools and performance criteria. LEED promotes a whole-building approach to sustainability by recognizing performance in five key areas of human and environmental health: sustainable site development, water savings, energy efficiency, materials selection, and indoor environmental quality.)

7.3 ANTICIPATED DETERMINATION

Pursuant to Chapter 343, HRS, approving authority, the DOE anticipates issuing a Finding of No Significant Impact (FONSI) for this EA. This finding is founded on the basis of impacts and mitigation measures examined in this document, public comments received during the pre-consultation, and analyzed under the above criteria.

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SECTION 8

Consultation

8 CONSULTATION

8.1 INDIVIDUALS AND ORGANIZATIONS CONSULTED WITH PRIOR TO THE EA PROCESS

In the course of planning for the proposed Maui Waena eight-classroom building the following individuals, community organizations, private groups, and government agencies were consulted in preparation of this Environmental Assessment:

State of Hawai'i

- Department of Accounting & General Services
- Department of Business, Economic Development & Tourism
- Department of Education – Facilities Development Branch
- Department of Health – Environmental Planning Office
- Department of Human Services
- Department of Labor & Industrial Relations
- Department of Land and Natural Resources – Historic Preservation Division
- Office of Hawaiian Affairs
- Office of Environmental Quality Control

Federal

- U.S. Fish and Wildlife Service

County of Maui

- Department of Environmental Management
- Department of Fire and Public Safety
- Department of Housing & Human Concerns
- Department of Parks & Recreation
- Department of Planning
- Department of Transportation
- Department of Water Supply
- Police Department
- County Councilmember – Wayne Nishiki

Private Organizations & Individuals

- Maui Electric Company, Ltd.
- Hawaiian Telcom

8.2 INDIVIDUALS AND ORGANIZATIONS TO BE CONSULTED DURING THE EA PROCESS

Various Federal, State, and County agencies, as well as organizations and members within the community, will be consulted in the preparation and review of the Draft EA. This Draft EA will be distributed to the following agencies, organizations, and individuals. Comment letters that will be received on this Draft EA will be included in the Final EA.

State of Hawai'i

- Department of Accounting & General Services
- Department of Business, Economic Development & Tourism
- Department of Defense
- Department of Education – Facilities Development Branch
- Department of Health – Environmental Planning Office
- Department of Land and Natural Resources
- Department of Land and Natural Resources – Historic Preservation Division
- Department of Transportation
- Office of Hawaiian Affairs
- Office of Environmental Quality Control
- State Representative
- State Senator
- Kahului Public Library

Federal

- U.S. Fish and Wildlife Service

County of Maui

- Department of Environmental Management
- Department of Fire and Public Safety
- Department of Housing & Human Concerns
- Department of Parks & Recreation
- Department of Planning
- Department of Public Works
- Department of Transportation
- Department of Water Supply
- Police Department

Private Organizations & Individuals

- Maui Electric Company, Ltd.
- Hawaiian Telcom
- Maui Lani Community Association

Maui Waena Intermediate School Eight-Classroom Building

Draft Environmental Assessment/Anticipated Finding of No Significant Impact

Comment letters received during the pre-assessment consultation period, and responses, are found in Appendix A.

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SECTION 9

References

9 REFERENCES

- Baker, H.L. et al. 1965. *Detailed Land Classification, Island of Hawai'i*. Honolulu, Hawai'i: Land Study Bureau, University of Hawai'i.
- Macdonald, G.A., Abbott, A., and Peterson, F.L. 1983. *Volcanoes Under the Sea: The Geology of Hawai'i*. Honolulu, Hawai'i: University of Hawai'i Press.
- SMS. 2002. *Maui County Community Plan Update Program: Socio-Economic Forecast*.
- State of Hawai'i, Department of Agriculture. 1977. *Agricultural Lands of Importance to the State of Hawai'i*. Honolulu, Hawai'i.
- State of Hawai'i Department of Business, Economic Development and Tourism. 2008. *Economic Databook*.
- State of Hawai'i Department of Land and Natural Resources (DLNR), Commission on Water Resource Management (CWRM). 1990. *Water Resources Protection Plan*. Honolulu, Hawai'i.
- U.S. Department of Agriculture (USDA), Soil Conservation Service (SCS): Sato, H., Ikeda, W., Paeth, R., Smythe, R., and Minoru Takehiro, M. 1973. *Soil Survey of the Island of Hawai'i, State of Hawai'i*. Hawai'i: USDA SCS, in cooperation with the University of Hawai'i Agricultural Experiment Station. Available online at <http://www.ctahr.hawaii.edu/soilsurvey/Hawaii/hawaii.htm>. Accessed on 2007 February 2.
- U.S. Green Building Council. 2010. *LEED 2009 for Schools New Construction and Major Renovations USGBC Member Approved November 2008 (Updated October 2010)*. Washington, D.C.

APPENDIX A

Pre-Construction Letters and Responses

LINDA LINGLE
GOVERNOR



RUSS K. SAITO
COMPTROLLER

STATE OF HAWAII
DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES
P.O. BOX 119, HONOLULU, HAWAII 96810-0119

(P)1260.0

OCT 26 2010

Mr. Tom Schnell, AICP
PBR Hawaii & Associates, Inc.
1001 Bishop Street, Suite 650
Honolulu, Hawai'i 96813

Dear Mr. Schnell:

Subject: Pre-Consultation for Maui Waena Intermediate School Eight-Classroom Building
Maui, Hawai'i
TMK: (2) 3-8-7:7:02

Thank you for the opportunity to provide comments on the Pre-Consultation for Maui Waena Intermediate School Eight-Classroom Building, Maui, Hawai'i TMK: (2) 3-8-7:02 project. The project does not impact any of the Department of Accounting and General Services' projects or existing facilities, and we have no comments to offer at this time.

If you have any questions, please call me at 586-0400 or have your staff call Mr. Clarence Kubo of the Public Works Division at 586-0488.

Sincerely,

A handwritten signature in black ink that reads "Russ K. Saito".

RUSS K. SAITO
State Comptroller



PBR HAWAII
& ASSOCIATES, INC.

April 8, 2013

PRINCIPALS

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President

R. STAN DUNCAN, ASLA
Executive Vice-President

RUSSELL Y. J. CHUNG, FASLA, LEED® AP
Executive Vice-President

VINCENT SHIGEKUNI
Vice-President

GRANT T. MURAKAMI, AICP, LEED® AP
Principal

W. FRANK BRANDT, FASLA
Chairman Emeritus

Mr. Dean H. Seki, State Comptroller
Department of Accounting & General Services
State of Hawai'i
P.O. Box 119
Honolulu, Hawai'i 96810

Subject: Pre-Consultation for Maui Waena Intermediate School
Eight-Classroom Building
Maui, Hawai'i
Tax Map Key (2) 3-8-007:002

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Senior Associate

RAYMOND T. HIGA, ASLA
Senior Associate

KEVIN K. NISHIKAWA, ASLA
Associate

KIMI MIKAMI YUEN, LEED® AP
Associate

SCOTT ALIKA ABRIGO, LEED® AP
Associate

SCOTT MURAKAMI, ASLA, LEED® AP
Associate

DACHENG DONG, LEED® AP
Associate

Dear Mr. Seki:

Thank you for your Department's letter dated October 26, 2010 regarding our request for pre-consultation comments for a proposed eight-classroom building at Maui Waena Intermediate School. As the planning consultant for the State Department of Education, we are responding to your comments.

We acknowledge that the project will not impact any of the Department of Accounting and General Services' projects or existing facilities and that your Department has no comments to offer at this time.

We appreciate your participation in the environmental review process. We will send you a copy of the Draft Environmental Assessment when it is available.

Sincerely,

PBR HAWAII

Vincent Shigekuni
Vice President

HONOLULU OFFICE

1001 Bishop Street, Suite 650
Honolulu, Hawai'i 96813-3484
Tel: (808) 521-5631
Fax: (808) 523-1402
E-mail: sysadmin@pbrhawaii.com

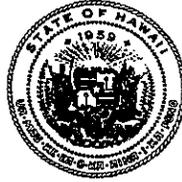
KAPOLEI OFFICE

1001 Kamokila Boulevard
Kapolei Building, Suite 313
Kapolei, Hawai'i 96707-2005
Tel: (808) 521-5631
Fax: (808) 535-3163

cc: Ryan Yamamoto, Department of Education
Kurt Mitchell, Kober Hanssen Mitchell Architects

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LINDA LINGLE
GOVERNOR OF HAWAII



CHIYOME L. FUKINO, M.D.
DIRECTOR OF HEALTH

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

In reply, please refer to:
EPO-I-3379

October 18, 2010

Mr. Tom Schnell, AICP
PBR Hawaii & Associates, Inc.
1001 Bishop Street, Suite 650
Honolulu, Hawaii 96813-3484

Dear Mr. Schnell:

SUBJECT: Pre-Consultation for Maui Waena Intermediate School Eight-Classroom Building,
Maui, Hawaii; TMK: (2)3-8-7:02

Thank you for allowing us to review and comment on the subject document. The document was routed to the various branches of the Environmental Health Administration. We have no comments at this time, but reserve the right to future comments. We strongly recommend that you review all of the Standard Comments on our website: www.hawaii.gov/health/environmental/env-planning/landuse/landuse.html. Any comments specifically applicable to this application should be adhered to.

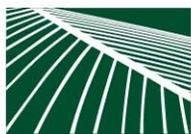
The same website also features a Healthy Community Design Smart Growth Checklist (Checklist). The Hawaii State Department of Health, Built Environment Working Group, recommends that State and county planning departments, developers, planners, engineers and other interested parties apply the healthy built environment principles in the Checklist whenever they plan or review new developments or redevelopments projects. We also ask you to share this list with others to increase community awareness on healthy community design.

If there are any questions about these comments please contact the Environmental Planning Office at 586-4337.

Sincerely,

A handwritten signature in cursive script that reads "Genevieve Salmonson".

GENEVIEVE SALMONSON, Acting Manager
Environmental Planning Office



PBR HAWAII
& ASSOCIATES, INC.

April 8, 2013

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Fax: (808) 535-3163

Ms. Genevieve Salmonson, Acting Manager
Environmental Planning Office
Department of Health
State of Hawaii
P.O. Box 3378
Honolulu, Hawai'i 96801-3378

Subject: Pre-Consultation for Maui Waena Intermediate School
Eight-Classroom Building
Maui, Hawai'i
Tax Map Key (2) 3-8-007:002

Dear Ms. Salmonson:

Thank you for your Department's letter dated October 18, 2010 regarding our request for pre-consultation comments for a proposed eight-classroom building at Maui Waena Intermediate School. As the planning consultant for the State Department of Education, we are responding to your comments.

We acknowledge that you have no comments at this time, but reserve the right to future comments. We appreciate the reference to your Standard Comments and to the Healthy Community Design Smart Growth Checklist and have reviewed the information on the website.

We appreciate your participation in the environmental review process. A copy of the Draft EA will be provided to you when it is available.

Sincerely,

PBR HAWAII

Vincent Shigekuni

cc: Ryan Yamamoto, Department of Education
Kurt Mitchell, Kober Hanssen Mitchell Architects

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LINDA LINGLE
GOVERNOR



LILLIAN B. KOLLER
DIRECTOR

HENRY OLIVA
DEPUTY DIRECTOR

STATE OF HAWAII
DEPARTMENT OF HUMAN SERVICES
Benefit, Employment & Support Services Division
820 Millilani Street, Suite 606
Honolulu, Hawaii 96813

November 1, 2010

Refer to 10:0749

Mr. Tom Schnell, Senior Associate
PBR HAWAII & Associates, Inc.
1001 Bishop Street, Suite 650
Honolulu, Hawaii 96813

Dear Mr. Schnell:

Thank you for your letter dated October 8, 2010 that requests the Department review the Pre-Consultation for Maui Waena Intermediate School Eight-Classroom Building, Maui, Hawaii, TMK: (2)3-8-7:02. The Director of the Department of Human Services (DHS) has forwarded your letter to me for a response.

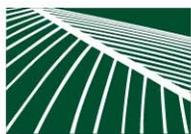
After a review of the proposed project, we do not have any comments or concerns. We, also at this time, do not foresee any impact on any child care services in the community.

If you have any questions or need further information, please contact Ms. Kathy Ochikubo, Child Care Program Specialist, at (808) 586-7058.

Sincerely,

Pankaj Bhanot
Division Administrator

c: Lillian B. Koller, Director, Department of Human Services



PBR HAWAII

& ASSOCIATES, INC.

April 8, 2013

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Fax: (808) 535-3163

Mr. Pankaj Bhanot, Division Administrator
Benefit, Employment & Support Services Division
Department of Human Services
State of Hawai'i
820 Mililani Street, Suite 606
Honolulu, Hawai'i 96813

Subject: Pre-Consultation for Maui Waena Intermediate School
Eight-Classroom Building
Maui, Hawai'i
Tax Map Key (2) 3-8-007:002

Dear Mr. Bhanot:

Thank you for your Department's letter dated November 1, 2010 regarding our request for pre-consultation comments for a proposed eight-classroom building at Maui Waena Intermediate School. As the planning consultant for the State Department of Education, we are responding to your comments.

We acknowledge that your Department does not have any comments or concerns regarding the project and further does not foresee any impact on child care services in the community at this time.

We appreciate your participation in the environmental review process.

Sincerely,

PBR HAWAII

Vincent Shigekuni
Vice President

cc: Ryan Yamamoto, Department of Education
Kurt Mitchell, Kober Hanssen Mitchell Architects

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LINDA LINGLE
GOVERNOR



PEARL IMADA IBOSHI
DIRECTOR

COLLEEN Y. LaCLAIR
DEPUTY DIRECTOR

**STATE OF HAWAII
DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS**

830 PUNCHBOWL STREET, ROOM 321
HONOLULU, HAWAII 96813
www.hawaii.gov/labor
Phone: (808) 586-8844 / Fax: (808) 586-9099
Email: dlir.director@hawaii.gov

November 10, 2010

Mr. Tom Schnell, AICP
Senior Associate
PBR Hawaii & Associates, Inc.
1001 Bishop Street, Suite 650
Honolulu, Hawaii 96813-3484

Dear Mr. Schnell:

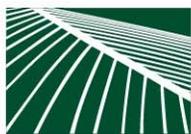
This is in response to your request for comments in preparation of an environmental assessment report for the proposed eight-classroom building at Maui Waena Intermediate School located in the vicinity of Maui Lani identified as TMK No. (2) 3-8-7:02 on the island of Maui. The Department of Labor and Industrial Relations has no comments to offer and we foresee no impact on our existing or proposed projects and programs.

Should you have any questions, please call me at 586-8844, or you can contact Mr. Patrick Fukuki, our Business Management Officer, at 586-8888.

Sincerely,

A handwritten signature in black ink, appearing to read "Pearl Iboshi".

PEARL IMADA IBOSHI
Director



PBR HAWAII

& ASSOCIATES, INC.

April 8, 2013

PRINCIPALS

THOMAS S. WITTEN, ASLA
President

R. STAN DUNCAN, ASLA
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VINCENT SHIGEKUNI
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1001 Kamokila Boulevard
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Fax: (808) 535-3163

Mr. Dwight Takamine, Director
Department of Labor & Industrial Relations
State of Hawai'i
830 Punchbowl Street, Room 321
Honolulu, Hawai'i 96813

Subject: Pre-Consultation for Maui Waena Intermediate School
Eight-Classroom Building
Maui, Hawai'i
Tax Map Key (2) 3-8-007:002

Dear Mr. Takamine:

Thank you for your Department's letter dated November 10, 2010 regarding our request for pre-consultation comments for a proposed eight-classroom building at Maui Waena Intermediate School. As the planning consultant for the State Department of Education, we are responding to your comments.

We acknowledge that the Department of Labor and Industrial Relations has no comments to offer and that the Department foresees no impact on its existing or proposed projects and programs.

We appreciate your participation in the environmental review process.

Sincerely,

PBR HAWAII

Vincent Shigekuni
Vice President

cc: Ryan Yamamoto, Department of Education
Kurt Mitchell, Kober Hanssen Mitchell Architects

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STATE OF HAWAII
OFFICE OF HAWAIIAN AFFAIRS
711 KAPI'OLANI BOULEVARD, SUITE 500
HONOLULU, HAWAII 96813

HRD10/5317

October 22, 2010

Tom Schnell, Senior Associate
PBR Hawaii & Associates, Inc.
1001 Bishop Street, Suite 650
Honolulu, Hawaii 96813-3484

**Re: Pre-Draft Environmental Assessment consultation
Maui Waena Intermediate School classroom
Kahului, Island of Maui**

Aloha e Tom Schnell,

The Office of Hawaiian Affairs (OHA) is in receipt of your October 8, 2010 request for comments ahead of a draft environment assessment (DEA) for the proposed construction of an eight-classroom building (building) on the Maui Waena Intermediate School campus (campus).

Based on our review of the site plan included with your request, it appears the building will be constructed within the boundaries of the existing campus. The current use of the area which will be within the "footprint" of the building is unclear and we request confirmation that it has been subject to an archaeological inventory survey which has been reviewed and approved by the Department of Land and Natural Resources-State Historic Preservation Division.

OHA applauds the efforts of the Department of Education to improve the learning environment at Maui Waena Intermediate School. We look forward to reviewing the DEA and providing additional comments at that time. Should you have any questions or concerns, please contact Keola Lindsey at 594-0244 or keolal@oha.org.

'O wau iho nō me ka 'oia'i'o,

A handwritten signature in black ink, appearing to read "Clyde W. Nāmu'o".

Clyde W. Nāmu'o
Chief Executive Officer

C: OHA- Maui Community Resources Coordinator



PBR HAWAII

& ASSOCIATES, INC.

April 8, 2013

PRINCIPALS

THOMAS S. WITTEN, ASLA
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Executive Vice-President

RUSSELL Y. J. CHUNG, FASLA, LEED® AP
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VINCENT SHIGEKUNI
Vice-President

GRANT T. MURAKAMI, AICP, LEED® AP
Principal

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Chairman Emeritus

Mr. Kamana'opono Crabbe, Chief Executive Officer
Office of Hawaiian Affairs
State of Hawai'i
711 Kapiolani Boulevard, Suite 500
Honolulu, Hawai'i 96813

Subject: Pre-Consultation for Maui Waena Intermediate School
Eight-Classroom Building
Maui, Hawai'i
Tax Map Key (2) 3-8-007:002

ASSOCIATES

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Senior Associate

RAYMOND T. HIGA, ASLA
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KEVIN K. NISHIKAWA, ASLA
Associate

KIMI MIKAMI YUEN, LEED® AP
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SCOTT ALIKA ABRIGO, LEED® AP
Associate

SCOTT MURAKAMI, ASLA, LEED® AP
Associate

DACHENG DONG, LEED® AP
Associate

Dear Mr. Crabbe:

Thank you for your letter dated October 22, 2010 regarding our request for pre-consultation comments for a proposed eight-classroom building at Maui Waena Intermediate School. As the planning consultant for the State Department of Education, we are responding to your comments:

We confirm that the new classroom building will be constructed within the boundaries of the existing campus. The footprint of the building will be constructed over an existing paved playcourt. We are not aware of any archaeological surveys that may have been prepared for the school campus site, however, an archaeological monitoring plan will be prepared and submitted to the State Historic Preservation Division for review and approval prior to commencing construction.

We appreciate your participation in the environmental review process. A copy of the Draft EA will be provided to you when it is available.

Sincerely,

PBR HAWAII

Vincent Shigekuni
Vice President

cc: Ryan Yamamoto, Department of Education
Kurt Mitchell, Kober Hanssen Mitchell Architects

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LINDA LINGLE
GOVERNOR OF HAWAII



KATHERINE PUANA KEALOHA
DIRECTOR

STATE OF HAWAII
OFFICE OF ENVIRONMENTAL QUALITY CONTROL
235 S BERETANIA ST. SUITE 702
HONOLULU, HAWAII 96813
Tel. (808) 586-4185
Fax. (808) 586-4186
Email: oeqc@doh.hawaii.gov

October 14, 2010

Tom Schnell
PBR Hawaii & Associates, Inc.
1001 Bishop Street, Suite 659
Honolulu, Hawaii 96813-3484

Subject: Pre-consultation for Maui Waena Intermediate School Eight-Classroom Building,
Maui, Hawaii, TMK: (2) 3-8-7:02

Dear Mr. Schnell:

Thank you for your early consultation letter on October 8, 2010. Your letter states that you will be preparing a draft environmental assessment for the subject action on behalf of your client, the State of Hawaii, Department of Education. Section 11-200-10, Hawaii Administrative Rules, requires that the environmental assessment shall contain, but not be limited to the following information:

- A. Identification of applicant or proposing agency;
- B. Identification of approving agency, if applicable;
- C. Identification of agencies, citizen groups, and individuals consulted in making the assessment;
- D. General description of the action's technical, economic, social, and environmental characteristics;
- E. Summary description of the affected environment, including suitable and adequate regional, location and site maps such as Flood Insurance Rate Maps, Floodway Boundary Maps, or United States Geological Survey topographic maps;
- F. Identification and summary of impacts and alternatives considered;
- G. Proposed mitigation measures;
- H. Agency determination or, for draft environmental assessments only, an anticipated determination;
- I. Findings and reasons supporting the agency determination or anticipated determination;
- J. Agencies to be consulted in the preparation of the EIS, if an EIS is to be prepared;

- K. List of all permits and approvals (State, federal, county) required; and
- L. Written comments and responses to the comments under the early consultation provisions of sections 11-200-9(a)(1), 11-200-9(b)(1), or 11-200-15, and statutorily prescribed public review periods.

Once your environmental study is complete, please coordinate with the State of Hawai'i, Department of Education for the review and determination of the proposed agency action pursuant to Chapter 343, Hawaii Revised Statutes and Section 11-200-12, Hawaii Administrative Rules, and the submittal requirements to the Office of Environmental Quality Control for publication on the Environmental Notice.

Please feel free to call Herman Tuiolosega of my staff at (808) 586-4185 if you have further questions.

Sincerely,



KATHERINE PUANA KEALOHA
Director



PBR HAWAII

& ASSOCIATES, INC.

October 8, 2010

PRINCIPALS

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President

R. STAN DUNCAN, ASLA
Executive Vice-President

RUSSELL Y. J. CHUNG, FASLA, LEED[®] AP
Executive Vice-President

VINCENT SHIGEKUNI
Vice-President

GRANT T. MURAKAMI, AICP, LEED[®] AP
Principal

W. FRANK BRANDT, FASLA
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Senior Associate

KEVIN K. NISHIKAWA, ASLA
Associate

KIMI MIKAMI YUEN, LEED[®] AP
Associate

SCOTT ALIKA ABRIGO, LEED[®] AP
Associate

SCOTT MURAKAMI, ASLA, LEED[®] AP
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DACHENG DONG, LEED[®] AP
Associate

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Tel: (808) 521-5631
Fax: (808) 523-1402
E-mail: sysadmin@pbrhawaii.com

KAPOLEI OFFICE
1001 Kamehaha Boulevard
Kapolei Building, Suite 313
Kapolei, Hawaii 96707-2005
Tel: (808) 521-5631
Fax: (808) 535-3163

Ms. Katherine Kealoha, Director
State of Hawaii
Office of Environmental Quality Control
235 S. Beretania Street, Suite 702
Honolulu, Hawaii 96813

**SUBJECT: PRE-CONSULTATION FOR MAUI WAENA INTERMEDIATE SCHOOL
EIGHT-CLASSROOM BUILDING, MAUI, HAWAII'I, TMK: (2) 3-8-7:02**

Dear Ms. Kealoha:

PBR HAWAII will be preparing an Environmental Assessment for a new classroom building at Maui Waena Intermediate School. As part of the scoping process, we are writing to consult with your agency or organization.

The State of Hawai'i Department of Education (DOE) is proposing to develop a new eight-classroom building at Maui Waena Intermediate School located within Maui Lani at 795 Onehe'e Avenue. The school encompasses approximately 11.96 acres of land identified as Tax Map Key (2) 3-8-7:02. A Regional Location Map is attached.

The new eight-classroom building will include classrooms for science, choral music, the comprehensive school adjustment program (CSAP), and related facilities. The DOE strives to achieve LEED-Silver certification for this classroom building. A site plan is attached for your reference.

With this letter, we seek your comments as to whether the proposed project may have an impact on any of your existing or proposed projects, plans, policies, or programs. Please send us any comments you may have by November 12, 2010.

If you need any additional information or have any questions, please do not hesitate to contact me at (808) 521-5631.

Sincerely,

PBR HAWAII

Tom Schnell, AICP
Senior Associate

Attachment

cc: State of Hawai'i Department of Education
Kober/Hanssen/Mitchell Architects, Inc.

O:\Job28\2806.01 Maui Waena School EA\EA\Pre-Consultation\Pre-Consult Letter 9-13-10.doc



PBR HAWAII

& ASSOCIATES, INC.

April 8, 2013

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President

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Executive Vice-President

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Executive Vice-President

VINCENT SHIGEKUNI
Vice-President

GRANT T. MURAKAMI, AICP, LEED® AP
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W. FRANK BRANDT, FASLA
Chairman Emeritus

Mr. Gary Gill, Director
State of Hawai'i
Office of Environmental Quality Control
235 South Beretania Street, Suite 702
Honolulu, Hawai'i 96813

Subject: Pre-Consultation for Maui Waena Intermediate School
Eight-Classroom Building
Maui, Hawai'i
Tax Map Key (2) 3-8-007:002

ASSOCIATES

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RAYMOND T. HIGA, ASLA
Senior Associate

KEVIN K. NISHIKAWA, ASLA
Associate

KIMI MIKAMI YUEN, LEED® AP
Associate

SCOTT ALIKA ABRIGO, LEED® AP
Associate

SCOTT MURAKAMI, ASLA, LEED® AP
Associate

DACHENG DONG, LEED® AP
Associate

Dear Mr. Gill:

Thank you for your letter dated October 14, 2010 regarding our request for pre-consultation comments for a proposed eight-classroom building at Maui Waena Intermediate School. As the planning consultant for the State Department of Education, we are responding to your comments:

We acknowledge that the Environmental Assessment (EA) must provide all of the information specified in Section 11-200-10, Hawaii Administrative Rules. As requested, review of the EA and determination of significance of impacts will be coordinated with the Department of Education, as will publication of the EA in the Environmental Notice.

We appreciate your participation in the environmental review process. A copy of the Draft EA will be provided to you when it is available.

Sincerely,

PBR HAWAII

Vincent Shigekuni
Vice President

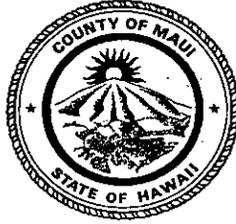
cc: Ryan Yamamoto, Department of Education
Kurt Mitchell, Kober Hanssen Mitchell Architects

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CHARMAINE TAVARES
Mayor
CHERYL K. OKUMA, Esq.
Director
GREGG KRESGE
Deputy Director



TRACY TAKAMINE, P.E.
Solid Waste Division
DAVID TAYLOR, P.E.
Wastewater Reclamation
Division

**COUNTY OF MAUI
DEPARTMENT OF
ENVIRONMENTAL MANAGEMENT**

2200 MAIN STREET, SUITE 100
WAILUKU, MAUI, HAWAII 96793

November 10, 2010

Mr. Tom Schnell
PBR Hawaii & Associates, Inc.
1001 Bishop Street, Suite 650
Honolulu, Hawaii 96813

**SUBJECT: MAUI WAENA INTERMEDIATE SCHOOL
EIGHT-CLASSROOM BUILDING
TMK (2) 3-8-007:002, KAHULUI**

We reviewed the subject application and have the following comments:

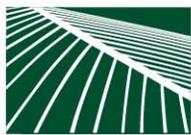
1. Solid Waste Division comments:
 - a. Include options for management of construction waste.
2. Wastewater Reclamation Division (WWRD) comments:
 - a. Although wastewater system capacity is currently available as of 11/10/2010, the developer should be informed that wastewater system capacity cannot be ensured until the issuance of the building permit.
 - b. Wastewater contribution calculations are required before building permit is issued.
 - c. Developer shall pay assessment fees for treatment plant expansion costs in accordance with ordinance setting forth such fees. The property is located in the Wailuku Sewer Service Area.
 - d. Developer is required to fund any necessary off-site improvements to collection system and wastewater pump stations.
 - e. Plans shall show the existing property sewer service manhole near the property line. If a property sewer service manhole does not exist, one shall be installed.
 - f. Commercial kitchen facilities and science labs within the proposed project shall comply with pre-treatment requirements (including grease interceptors, sample boxes, screens etc.)
 - g. Non-contact cooling water and condensate should not drain to the wastewater system.

Mr. Tom Schnell
November 10, 2010
Page 2

If you have any questions regarding this memorandum, please contact Gregg Kresge at 270-8230.

Sincerely,


CHERYL K. OKUMA
Director of Environmental Management



PBR HAWAII

& ASSOCIATES, INC.

April 8, 2013

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Mr. Kyle Ginoza, Director
Department of Environmental Management
County of Maui
2200 Main Street, Suite 100
Wailuku, Maui 96793

Subject: Pre-Consultation for Maui Waena Intermediate School
Eight-Classroom Building
Maui, Hawai'i
Tax Map Key (2) 3-8-007:002

Dear Mr. Kyle Ginoza:

Thank you for your Department's letter dated November 10, 2010 regarding our request for pre-consultation comments for a proposed eight-classroom building at Maui Waena Intermediate School. As the planning consultant for the State Department of Education, we are responding to your comments:

As requested the Draft EA will include a discussion of options for management of construction waste.

We acknowledge that wastewater system capacity is available as of 11/10/2010, but that wastewater system capacity cannot be ensured until issuance of the classroom's building permit.

We acknowledge that wastewater contribution calculations are required before issuance of a building permit and that the Department of Education will be required to pay plant expansion assessment fees and to fund any required off-site improvements to the sewer collection system (including sewer service manholes) and wastewater pump stations.

We acknowledge that any commercial kitchen facilities and any science labs within the proposed eight-classroom building must comply with pre-treatment requirements, such as grease interceptors, sample boxes, and screens. Please note that while the proposed classroom building will have science labs, a commercial kitchen is not proposed.

We acknowledge that non-contact cooling water and condensate should not drain into the wastewater system.

Mr. Kyle Ginoza

Subject: Pre-Consultation for Maui Waena Intermediate School, Eight-Classroom Building, Maui,
Hawai'i, Tax Map Key (2) 3-8-007:002

April 8, 2013

Page 2

We appreciate your participation in the environmental review process. A copy of the Draft EA
will be provided to you when it is available.

Sincerely,

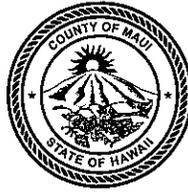
PBR HAWAII

A handwritten signature in black ink, appearing to read "Vincent R. Shigekuni". The signature is fluid and cursive, with a long horizontal stroke at the end.

Vincent Shigekuni
Vice President

cc: Ryan Yamamoto, Department of Education
Kurt Mitchell, Kober Hanssen Mitchell Architects

CHARMAINE TAVARES
MAYOR



JEFFREY A. MURRAY
CHIEF

ROBERT M. SHIMADA
DEPUTY CHIEF

COUNTY OF MAUI
DEPARTMENT OF FIRE AND PUBLIC SAFETY
FIRE PREVENTION BUREAU

313 MANEA PLACE • WAILUKU, HAWAII 96793
(808) 244-9161 • FAX (808) 244-1363

October 21, 2010

PBR Hawaii
ASB Tower, Suite 650
Attn: Tom Schnell
1001 Bishop St.
Honolulu, HI 96813

**Subject: Pre -Consultation for Maui Waena Intermediate School Eight-Classroom Building
Wailuku
TMK: (2) 3-8-007: 002**

Thank you for the opportunity to comment on this pre-consultation for the proposed project. At this time, the Fire Prevention Bureau has no specific comments. Our office reserves the right to comment during the building permit application process when detailed plans are required to be submitted for review.

If you have any questions, you may call me at 244-9161 ext. 23 or fax at 244-1363.

Sincerely,

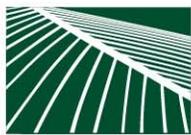
A handwritten signature in black ink, appearing to read "Paul Haake", is written over a horizontal line.

Paul Haake
Captain, Fire Prevention Bureau
313 Manea Place
Wailuku, HI 96793

cc: [illegible]

[illegible]

[illegible]



PBR HAWAII

& ASSOCIATES, INC.

April 8, 2013

PRINCIPALS

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President

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Executive Vice-President

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Executive Vice-President

VINCENT SHIGEKUNI
Vice-President

GRANT T. MURAKAMI, AICP, LEED® AP
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Mr. Paul Haake, Captain
Fire Prevention Bureau
Department of Fire and Public Safety
County of Maui
313 Manea Place
Wailuku, Hawai'i 96793

Subject: Pre-Consultation for Maui Waena Intermediate School
Eight-Classroom Building
Maui, Hawai'i
Tax Map Key (2) 3-8-007:002

Dear Captain Haake:

Thank you for your letter dated October 21, 2010 regarding our request for pre-consultation comments for a proposed eight-classroom building at Maui Waena Intermediate School. As the planning consultant for the State Department of Education, we are responding to your comments:

We acknowledge that the Fire Prevention Bureau has no specific comments at this time, but reserves the right to comment during the building permit application process when detailed plans are required to be submitted for review.

We appreciate your participation in the environmental review process. A copy of the Draft EA will be provided to you when it is available.

Sincerely,

PBR HAWAII

Vincent Shigekuni
Vice President

cc: Ryan Yamamoto, Department of Education
Kurt Mitchell, Kober Hanssen Mitchell Architects

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DEPARTMENT OF
HOUSING AND HUMAN CONCERNS
HOUSING DIVISION
COUNTY OF MAUI

CHARMAINE TAVARES
Mayor

LORI TSUHAKO
Director

JO-ANN T. RIDAO
Deputy Director

35 LUNALILO STREET, SUITE 102 • WAILUKU, HAWAII 96793 • PHONE (808) 270-7351 • FAX (808) 270-6284

October 22, 2010

Mr. Tom Schnell, AICP
Senior Associate
PBR Hawaii & Associates, INC.
1001 Bishop Street, Suite 650
Honolulu, HI. 96813-3484

Dear Mr. Schnell:

**Subject: Pre-Consultation for Maui Waena Intermediate School Eight-Classroom Building located at Maui, Hawaii.
TMK (2) 3-8-7:02**

The Department has reviewed the request for Early Consultation for the above subject project. Based on our review, we have determined that the subject project is not subject to Chapter 2.96, Maui County Code. At the present time, the Department has no additional comments to offer.

Please call Mr. Buddy Almeida of our Housing Division at (808) 270-7356 if you have any questions.

Sincerely,

WAYDE T. OSHIRO
Housing Administrator

cc: Director of Housing and Human Concerns



PBR HAWAII

& ASSOCIATES, INC.

April 8, 2013

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Fax: (808) 535-3163

Mr. Wayde T. Oshiro, Housing Administrator
Department of Housing and Human Concerns
County of Maui
35 Lunalilo Street, Suite 102
Wailuku, Hawai'i 96793

**Subject: Pre-Consultation for Maui Waena Intermediate School
Eight-Classroom Building
Maui, Hawai'i
Tax Map Key (2) 3-8-007:002**

Dear Mr. Oshiro:

Thank you for your Department's letter dated October 22, 2010 regarding our request for pre-consultation comments for a proposed eight-classroom building at Maui Waena Intermediate School. As the planning consultant for the State Department of Education, we are responding to your comments:

We acknowledge that the project is not subject to Chapter 2.96 of the Maui County Code and that the Department of Housing and Human Concerns has no additional comments to offer.

We appreciate your participation in the environmental review process. A copy of the Draft EA will be provided to you when it is available.

Sincerely,

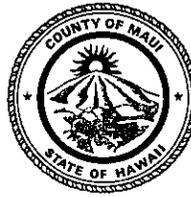
PBR HAWAII

Vincent Shigekuni
Vice President

cc: Ryan Yamamoto, Department of Education
Kurt Mitchell, Kober Hanssen Mitchell Architects

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CHARMAINE TAVARES
Mayor



TAMARA HORCAJO
Director

ZACHARY Z. HELM
Deputy Director

(808) 270-7230
FAX (808) 270-7934

DEPARTMENT OF PARKS & RECREATION
700 Hali'a Nako'a Street, Unit 2, Wailuku, Hawaii 96793

November 15, 2010

Tom Schnell, AICP
PBR Hawaii & Associates, Inc.
1001 Bishop Street, Suite 650
Honolulu, Hawaii 96813

**SUBJECT: PRE-CONSULTATION FOR MAUI WAENA INTERMEDIATE SCHOOL
EIGHT-CLASSROOM BUILDING, MAUI, HAWAII, TMK: 3-8-007:002**

Dear Mr. Schnell:

We have reviewed the proposed site plan for the expansion and note that a parking lot and play court will be relocated adjacent to the existing playfield. The existing playfield is used by existing youth leagues for Little League and soccer. Our concern is that the relocated courts will have a negative impact on the use of the fields by our youth leagues. The County has a shortfall on playfields and relies on joint use of fields with the schools.

We look forward to further discuss this matter with you. Thank you for the opportunity to review and comment on this matter. Please feel free to contact me or Mr. Patrick Matsui at 270-7387 should you have any other questions.

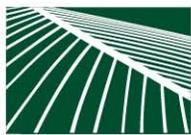
Sincerely,

A handwritten signature in cursive script, appearing to read "Tamara Horcajo", written in black ink.

TAMARA HORCAJO
Director

TH:PTM:do

c: Patrick T. Matsui, Chief of Planning and Development
Floyd Miyazono, Chief of Recreation



PBR HAWAII

& ASSOCIATES, INC.

April 8, 2013

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Executive Vice-President

VINCENT SHIGEKUNI
Vice-President

GRANT T. MURAKAMI, AICP, LEED® AP
Principal

W. FRANK BRANDT, FASLA
Chairman Emeritus

Mr. Glenn Correa, Director
Department of Parks and Recreation
County of Maui
700 Hali'a Nakoia Street, Unit 2
Wailuku, Hawai'i 96793

Subject: Pre-Consultation for Maui Waena Intermediate School
Eight-Classroom Building
Maui, Hawai'i
Tax Map Key (2) 3-8-007:002

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Associate

SCOTT ALIKA ABRIGO, LEED® AP
Associate

SCOTT MURAKAMI, ASLA, LEED® AP
Associate

DACHENG DONG, LEED® AP
Associate

Dear Mr. Correa:

Thank you for your Department's letter dated November 15, 2010 regarding our request for pre-consultation comments for a proposed eight-classroom building at Maui Waena Intermediate School. As the planning consultant for the State Department of Education, we are responding to your comments:

We acknowledge your concern that the relocated play court will be relocated adjacent to the existing playfield, which is used by youth leagues for Little League baseball and soccer. The new classroom building is necessary, however, to address an existing shortage of classroom space and ensure that students have a quality environment in which to learn. Please be aware that even with the relocated playcourt, there will be ample area for a Little League baseball field and soccer field.

We appreciate your participation in the environmental review process. A copy of the Draft EA will be provided to you when it is available.

Sincerely,

PBR HAWAII

Vincent Shigekuni
Vice President

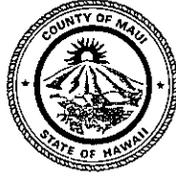
cc: Ryan Yamamoto, Department of Education
Kurt Mitchell, Kober Hanssen Mitchell Architects

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CHARMAINE TAVARES
MAYOR



DON A. MEDEIROS
Director
WAYNE A. BOTEILHO
Deputy Director
Telephone (808) 270-7511
Facsimile (808) 270-7505

DEPARTMENT OF TRANSPORTATION

COUNTY OF MAUI
200 South High Street
Wailuku, Hawaii, USA 96793-2155

October 14, 2010

PBR Hawaii
Mr. Tom Schnell
ASB Tower Suite 650
1001 Bishop Street
Honolulu, Hawaii 96813

Subject: Waena Intermediate School

Dear Mr. Schnell,

Thank you for the opportunity to comment on this project. We have no comments to make at this time.

Please feel free to contact me if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Don Medeiros", written in a cursive style.

Don Medeiros
Director



PBR HAWAII

& ASSOCIATES, INC.

April 8, 2013

PRINCIPALS

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Fax: (808) 535-3163

Ms. Jo Anne Johnson Winer, Director
Department of Transportation
County of Maui
200 South High Street
Wailuku, Hawai'i 96793-2155

Subject: Pre-Consultation for Maui Waena Intermediate School
Eight-Classroom Building
Maui, Hawai'i
Tax Map Key (2) 3-8-007:002

Dear Ms. Winer:

Thank you for your Department's letter dated October 14, 2010 regarding our request for pre-consultation comments for a proposed eight-classroom building at Maui Waena Intermediate School. As the planning consultant for the State Department of Education, we are responding to your comments:

We acknowledge that your Department has no comments at this time.

We appreciate your participation in the environmental review process. A copy of the Draft EA will be provided to you when it is available.

Sincerely,

PBR HAWAII

Vincent Shigekuni
Vice President

cc: Ryan Yamamoto, Department of Education
Kurt Mitchell, Kober Hanssen Mitchell Architects

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CHARMAINE TAVARES
Mayor



JEFFREY K. ENG
Director

DEPARTMENT OF WATER SUPPLY
COUNTY OF MAUI
200 SOUTH HIGH STREET
WAILUKU, MAUI, HAWAII 96793-2155
www.mauewater.org

November 17, 2010

Mr. Tom Schnell, AICP
PBR Hawaii & Associates, Inc.
1001 Bishop Street, Suite 650
Honolulu, HI 96813-3484

Re: Pre-Consultation for Maui Waena Intermediate School Eight-Classroom Building,
Maui, Hawaii TMK: (2)3-8-007:002

Dear Mr. Schnell:

Thank you for consulting with the Department of Water Supply (DWS) in preparation of this Environmental Assessment (EA).

Source Availability and Consumption

The EA should identify expected potable and non-potable demand. The property is served by two 2-inch meters and a 1-inch irrigation meters. Consumption average 43,500 gpd. There is currently no additional source available to accommodate additional demand according to system standards on the Central Maui System. Meter adequacy will be determined in the building permit process. The Department may delay issuance of additional or larger meter until new sources are on line. The Department will not issue temporary construction meters for Central Maui projects.

System Infrastructure

An 18-inch waterline and four fire hydrants are located along Onehee Street. There is also a private fire protection system on site. Fire flow requirements will be determined in the building permit process.

Pollution Prevention

The entire project site is within the 10 year time of travel wellhead protection area (WHPA) of DWS sources overlying the Kahului aquifer. The west portion of the property is also located within the 2 year time of travel WHPA of a DWS well. We recommend that the following Best Management Practices (BMPs) designed to minimize infiltration and runoff be incorporated in the EA and implemented during construction:

1. There shall be a designated person on site during operating hours who is responsible

"By Water All Things Find Life"



supervising the use, storage, and handling of hazardous material and who shall take appropriate mitigating actions necessary in the event of a fire or spill.

2. Hazardous materials left on site when the site is unsupervised must be inaccessible to the public. Locked storage sheds, locked fencing, locked fuel tanks on construction vehicles, or other techniques may be used if they will preclude access.
3. Construction vehicles and stationary equipment that are found to be leaking fuel, hydraulic fluid, and/or other hazardous materials shall be removed from the site and from Wellhead Protection Area. The vehicle or equipment may be repaired in place, provided the leakage is completely contained.
4. Storage and dispensing of flammable and combustible liquids from tanks, containers, and tank vehicles into the fuel and fluid reservoirs of construction vehicles or stationary equipment on the construction site shall be in accordance with these standards and County Fire Code Chapter 16.04A.
5. Hazardous materials and other deleterious substances shall not be allowed to enter stormwater systems.

Conservation

The EA should identify conservation measures to be implemented in project design and construction. A checklist of conservation measures for schools is attached for reference. The following conservation measures should be considered:

Use Non-potable Water: Use brackish or reclaimed water for irrigation and dust control during construction where available.

Use Climate-adapted Plants: The project is located in the "Maui County Planting Plan" - Plant Zone 3. Native plants adapted to the area conserve water and protect the watershed from degradation due to invasive alien species. Use native plants for all landscaping purposes.

Prevent Over-Watering By Automated Systems: Provide rain-sensors on all automated irrigation controllers. Check and reset controllers at least once a month to reflect the monthly changes in evapo-transpiration rates at the site. As an alternative, provide the more automated, soil-moisture sensors on controllers.

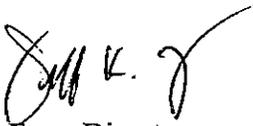
Eliminate Single-Pass Cooling: Single-pass, water-cooled systems should be eliminated per Maui County Code Subsection 14.21.20. Although prohibited by code, single-pass water cooling is still manufactured into some models of air conditioners, freezers, and commercial refrigerators.

Utilize Low-Flow Fixtures and Devices: Maui County Code Subsection 16.20A.680 requires the use of low-flow water fixtures and devices in faucets, showerheads, urinals, water closets, and hose bibs. Water conserving washing machines, ice-makers and other units are also available.

Maintain Fixtures to Prevent Leaks: A simple, regular program of repair and maintenance can prevent the loss of hundreds or even thousands of gallons a day.

Should you have any questions, please contact our Water Resources and Planning Division at (808) 244-8550.

Sincerely,



Jeffrey K. Eng, Director
emb

Tom Schnell

Page 3

c: engineering division

attachments:

A Checklist of Water Conservation Ideas for Schools and Public Buildings

Plant Brochure: "Saving Water in the Yard"

C:\EA EIS SLUD\Maui Waena Intermedschool pre_EA.wpd

A Checklist of Water Conservation Ideas For

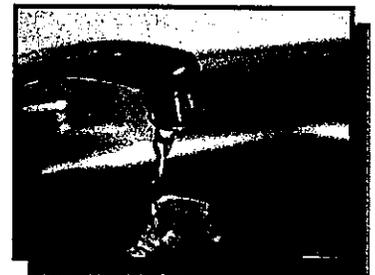


This checklist provides water conservation tips successfully implemented by industrial and commercial users. This list has been revised from the original copy first published and distributed by the Los Angeles Department of Water and Power.

➤ GENERAL SUGGESTIONS

- Increase employee awareness of water conservation.
- Install signs encouraging water conservation in employee and student restrooms.
- When cleaning with water is necessary, use budgeted amounts.
- Read water meter weekly to monitor success of water conservation efforts.
- Assign an employee to monitor water use and waste.
- Seek employee and student suggestions on water conservation; put suggestion boxes in prominent areas.
- Determine the quantity and purpose of water being used.
- Determine other methods of water conservation.

- Conduct contests for employees and students (e.g., posters, slogans, or conservation ideas).



- Make up-to-date reading materials available for students and employees in the library and classroom.

➤ BUILDING MAINTENANCE

- Check water supply system for leaks.
- Turn off any unnecessary flows.
- Repair dripping faucets and showers and continuously-running or leaking toilets.
- Install flow reducers and faucet aerators in all plumbing fixtures where possible.

- Reduce water levels, where possible, to minimize water required per load of washing.
- Only wash full loads of clothes.
- Evaluate wash formula and machine cycles for water use efficiency.

➔ POOL

- Lower pool water to reduce amount of water splashed out.
- Use a pool cover to reduce evaporation when pool is not in use.
- Reduce amount of water used to clean pool filters.

➔ EXTERIOR AREAS

- Convert from high-water using lawns, trees, and shrubs to xeriscape – Landscape design incorporating plants that provide beautiful color and requiring less water. In the future, design landscapes that require less water, such as drought-resistant grass on playing fields.
- Inventory outdoor water use for landscaped areas.
- Water landscape only when needed: two-to-three times a week is usually sufficient.
- Wash autos, buses, and trucks less often.
- Discontinue using water to clean sidewalks, driveways, loading docks, and parking lots. Consider using brooms or motorized sweepers.

- Avoid landscape fertilizing and pruning that may stimulate excessive growth.
- Remove weeds and unhealthy plants so remaining plants can benefit from the water saved.
- In many cases, older, established plants require only infrequent irrigation. Look for indications of water needs such as wilt, change of color, or dry soils.
- Install soil moisture overrides or timers on sprinkler systems.
- When possible, time watering to occur in the morning or evening when evaporation is lowest.
- Make sure irrigation equipment applies water uniformly.
- Investigate the advantages of installing drip irrigation systems.
- Mulch around plants reducing evaporation and discouraging weeds.
- Remove thatch and aerate turf to encourage the movement of water to the root zone.



- Avoid runoff and make sure sprinklers cover just



DO NOT PLANT THESE PLANTS !!!

Common name	Scientific name	Plant family
black wattle	Acacia mearnsii	Mimosaceae
blackberry	Rubus argutus	Rosaceae
blue gum	Eucalyptus globulus	Myrtaceae
bocconia	Bocconia frutescens	Papaveraceae
broad-leaved cordia	Cordia alliodora	Boraginaceae
broomsedge, yellow bluestem	Andropogon virginicus	Poaceae
buffelgrass	Cenchrus ciliaris	Poaceae
butterfly bush, smoke bush	Buddleia madagascariensis	Buddleiaceae
cats claw, Mysore thorn, wait-a-bit	Caesalpinia decapetala	Caesalpinaceae
common ironwood	Casuarina equisetifolia	Casuarinaceae
common velvet grass, Yorkshire fog	Holcus lanatus	Poaceae
fidlewood	Citharexylum spinosum	Verbenaceae
fire tree, faya tree	Myrica faya	Myricaceae
glorydower	Cherodendrum laponicum	Verbenaceae
hairy cat's ear, gosmore	Hypochaeris radicata	Asteraceae
haole koa	Leucaena leucocephala	Fabaceae
ivy gourd, scarlet-fruited gourd	Coccoloba grandis	Cucurbitaceae
lumpkin berry	Citharexylum caudatum	Verbenaceae
kahlil flower	Grevillea banksii	Proteaceae
Klu, Popinac	Acacia farnesiana	Mimosaceae
logwood, bloodwood tree	Haematoxylon campechianum	Caesalpinaceae
loquat	Eriobotrya japonica	Rosaceae
meadow ricegrass	Ehrharta stipoides	Poaceae
melaueca	Melaleuca quinquenervia	Myrtaceae
miconia, velvet leaf	Miconia calvescens	Melastomataceae
narrow-leaved carpetgrass	Axonopus fissifolius	Poaceae
oleaster	Elaeagnus umbellata	Elaeagnaceae
oriental mangrove	Briquetia gymnorhiza	Rhizophoraceae
padang cassia	Cinnamomum burmanni	Lauraceae
palmgrass	Setaria palmifolia	Poaceae
pearl flower	Heteroentron subtriflorum	Melastomataceae
quinine tree	Cinchona pubescens	Rubiaceae
sain leaf, caimitillo	Chrysophyllum oliviforme	Sapotaceae
silkwood, Queensland maple	Findleria brayleyana	Rutaceae
silky oak, silver oak	Grevillea robusta	Proteaceae
strawberry guava	Psidium cattleianum	Myrtaceae
swamp oak, saltmarsh, longleaf ironwood	Casuarina glauca	Casuarinaceae
sweet vernalgrass	Anthoxanthum odoratum	Poaceae
tree of heaven	Ailanthus altissima	Simaroubaceae
trumpet tree, guarumo	Cecropia obtusifolia	Cecropiaceae
white ginger	Hedychium coronarium	Zingiberaceae
white moho	Heliconia carolinensis	Tillaceae
yellow ginger	Hedychium flavescens	Zingiberaceae

DO NOT PLANT THESE PLANTS !!!

Common name	Scientific name	Plant family
	<i>Jasminum fluminense</i>	Oleaceae
	<i>Arthrostemma ciliatum</i>	Melastomataceae
	<i>Diosotis rotundifolia</i>	Melastomataceae
	<i>Erigeron karvinskianus</i>	Asteraceae
	<i>Eucalyptus robusta</i>	Myrtaceae
	<i>Hedychium gardnerianum</i>	Zingiberaceae
	<i>Juncus plantifolius</i>	Juncaceae
	<i>Lophospermum confertus</i>	Myrtaceae
	<i>Medinilla cumingii</i>	Melastomataceae
	<i>Medinilla magnifica</i>	Melastomataceae
	<i>Medinilla venosa</i>	Melastomataceae
	<i>Melastoma candidum</i>	Melastomataceae
	<i>Melinis minutiflora</i>	Poaceae
	<i>Olea europaea</i>	Melastomataceae
	<i>Oxyspora paniculata</i>	Poaceae
	<i>Panicum maximum</i>	Poaceae
	<i>Paspalum urvillei</i>	Poaceae
	<i>Passiflora edulis</i>	Passifloraceae
	<i>Phormium tenax</i>	Agavaceae
	<i>Pinus taeda</i>	Pinaceae
	<i>Prosopis pallida</i>	Fabaceae
	<i>Pterolepis glomerata</i>	Melastomataceae
	<i>Rhodomyrtus tomentosa</i>	Myrtaceae
	<i>Schefflera actinophylla</i>	Araliaceae
	<i>Syzygium jambos</i>	Myrtaceae
	<i>Acacia melanoxylon</i>	Mimosaceae
Australian blackwood		
Australian tree fern	<i>Cyathea cooperi</i>	Cyatheaceae
Australian tree fern	<i>Sphaeropteris cooperi</i>	Cyatheaceae
Beggar's tick, Spanish needle	<i>Bidens pilosa</i>	Asteraceae
California grass	<i>Brachiaria mutica</i>	Poaceae
Chinese banyon, Mayvayan banyon	<i>Ficus microcarpa</i>	Moraceae
Chinese violet	<i>Asystasia gangetica</i>	Acanthaceae
Christmasberry, Brazilian pepper	<i>Schinus terebinthifolius</i>	Anacardiaceae
Formosan koa	<i>Acacia confusa</i>	Mimosaceae
German ivy	<i>Senecio mikanoides</i>	Asteraceae
Japanese honeysuckle	<i>Lonicera japonica</i>	Caprifoliaceae
Koster's curse	<i>Clidemia hirta</i>	Melastomataceae
Lantana	<i>Lantana camara</i>	Verbenaceae
Mauritius hemp	<i>Furcraea foetida</i>	Agavaceae
Mexican ash, tropical ash	<i>Fraxinus uhdei</i>	Oleaceae
Mexican tulip poppy	<i>Hunnemannia tumaritifolia</i>	Papaveraceae
Mules foot, Madagascar tree fern	<i>Angiopteris evecta</i>	Marattiaceae
New Zealand laurel, karakaranut	<i>Corynocarpus laevigatus</i>	Corynocarpaceae
New Zealand tea	<i>Lepidospermum scoparium</i>	Myrtaceae
Pampas grass	<i>Cortaderia jubata</i>	Poaceae
Parana rubber tree, Mexican rubber tree	<i>Castilleja elastica</i>	Moraceae
Shoebutton ardisia	<i>Ardisia elliptica</i>	Myrsinaceae
banana poka	<i>Passiflora mollissima</i>	Passifloraceae

Selection

As a general rule, it is best to select the largest and healthiest specimens. However, be sure to note that they are not pot-bound. Smaller, younger plants may result in a low rate of plant survival.¹ When selecting native species, consider the site they are to be planted in, and the space that you have to plant. For example: Mountain species such as koa and maile will not grow well in hot coastal areas exposed to strong ocean breezes. Lowland and coastal species such as wiliwili and Kou require abundant sunshine and porous soil. They will not grow well with frequent cloud cover, high rainfall and heavy soil.

Consider too, the size that the species will grow to be. It is not wise to plant trees that will grow too large.² Overplanting tends to be a big problem in the landscape due to the underestimation of a species' height, width or spread.

A large, dense canopied tree such as the kukui is a good shade tree for a lawn. However, its canopy size and density of shade will limit what can be planted in the surrounding area. Shade cast by a koa and ohia lehua is relatively light and will not inhibit growth beneath it.

Keep seasons in mind when you are selecting your plants. Not all plants look good year round, some plants such as ilima will look scraggly after they have flowered and formed seeds. Avoid planting large areas with only one native plant. Mixing plants which naturally grow together will ensure the garden will look good all year round.³ Looking at natural habitats helps to show how plants grow naturally in the landscape.

When planting an area with a mixed-ecosystem, keep in mind the size and ecological requirements of each plant. Start with the hardiest and most easily grown species, but allow space for fragile ones in subsequent plantings.

Acquiring natives

Plants in their wild habitat must be protected and maintained. It is best and easiest to get your plants from nurseries (see list), or friend's gardens. Obtain proper permits from landowners and make sure you follow a few common sense rules:

- ▶ collect sparingly from each plant or area.
- ▶ some plants are on the state or Federal Endangered Species list. Make sure you get permits (see app. A,B)

¹ K. Nagata, P.6

² K. Nagata, P.9

³ Nagata, P.9

Soil

Once you have selected your site and the plants you wish to establish there, you must look at the soil conditions on the site. Proper soil is necessary for the successful growth of most native plants, which perform poorly in hard pan, clay or adobe soils. If natives are to be planted in these types of soil, it would be wise to dig planting holes several times the size of the rootball and backfill with 50-75% compost.⁴ A large planting hole ensures the development of a strong root system. The plant will have a headstart before the roots penetrate the surrounding poor soil.⁵

It is recommended that native plants not be planted in ground that is more dense than potting soil. If there is no alternative, dig a hole in a mound of soil mixed with volcanic cinder which encourages maximum root development. Fill the hole with water, if the water tends to puddle or drain too slowly, dig a deeper hole until the water does not puddle longer than 1 or 2 minutes.⁶ Well-drained soil is one of the most important things when planting natives as you will see in the next section.

Irrigation

Most natives do very poorly in waterlogged conditions. Do not water if the soil is damp. Water when the soil is dry and the plants are wilting. Once established, a good soaking twice a week should suffice. Deep soaking encourages the development of stronger, and deeper root systems. This is better than frequent and shallow watering which encourage weaker, more shallow root systems.

The following is a watering schedule from Kenneth Nagata's Booklet, *How To Plant A Native Hawaiian Garden*:

WATER REQUIREMENT

Heavy
Moderate
Light

WATERING FREQUENCY

3x / week
2x / week
1x / week

Red clay soils hold more water for a longer period of time than sandy soils do. If your area is very sunny or near a beach, things will dry out faster. Even in the area of one garden, there are parts that will need more or less water. Soils can vary and amount of shade and wind differ. After plants are established (a month or two for most plants, up to a year for some trees), you can back off watering.

⁴ Nagata, p. 6.

⁵ Nagata, p. 8

⁶ Nagata, p. 8

Automatic sprinkler systems are expensive to install and must be checked and adjusted regularly. Above-ground systems allow you to monitor how much water is being put out, but you lose a lot due to malfunctioning of sprinkler heads and wind. The most efficient way to save water and make sure your plants get enough water, is to hand-water. This way you are getting our precious water to the right places in the right amounts.⁷

Fertilizer

An all-purpose fertilizer 10-10-10 is adequate for most species. They should be applied at planting time, 3 months later, and 6 months thereafter. Use half the dosage recommended for ornamentals and pay special attention to native ferns which are sensitive to strong fertilizers. Use of organic composts and aged animal manures is suggested instead of chemical fertilizers. In addition, use of cinders for providing trace minerals is strongly recommended.⁸

Natives are plants which were here hundreds of years before the polynesians inhabited the Hawaiian Islands. They were brought here by birds, or survived the harsh ocean conditions to float here. They are well-adapted to Hawaii's varying soil and environmental conditions. This is why they make prime specimens for a xeriscape garden. However, natives will not thrive on their own, especially under harsh conditions. On the other hand, like any other plant, if you over-water and over-fertilize them, they will die. Follow the instructions given to you by the nursery you buy the plant from, or from this booklet. Better yet, buy a book (suggested readings can be found in the bibliography in the back of this pamphlet), read it, and learn more about native plants. I guarantee that you will be pleased with the results.

⁷ Bornhorst, p. 19-20

⁸ Nagata, p. 6

Propagation

There are many ways to propagate and plant-out native Hawaiian species. One of the most thorough and helpful book is Heidi Bornhorst's book, *Growing Native Hawaiian Plants*. The easiest, and best way to obtain natives for the novice gardener is to get them from a reputable nursery (see appendix c). That way all you will have to do is know how to transplant (if necessary) and plant-out when you are ready. These are the two methods I have listed here.

Transplanting

1. Use pots that are one size bigger than the potted plant is in
2. Get your potting medium ready

Good potting medium is a ½, ½ mixture of peat moss and perlite. If the plant is from a dry or coastal area, add chunks of cinder or extra perlite. If it is a wet forest species, add more peat moss or compost. Be aware that peat moss is very acidic and certain plants react severely to acidity.

If the plant is to eventually be planted into the ground, make a mix of equal parts peat moss, perlite, and soil from the area in which the plant is to be planted. Slow-release fertilizer can be mixed into the potting medium.

3. Once pots, potting medium, fertilizer and water are ready, you can begin re-potting. Keep the plant stem at the same depth it was in the original pot. Avoid putting the plant in too large a pot, as the plant may not be able to soak up all the water in the soil and the roots may drown and rot.

Mix potting medium and add slow-release fertilizer at this time. Pre-wet the medium to keep dust down and lessen shock to the plant. Put medium in bottom of pot. Measure for the correct depth in the new pot. Make sure there is from ½ to 2 inches from the top of the pot so the plant can get adequate water. Try to stand the plant upright and center the stem in the middle of the pot.

Water the plant thoroughly after transplanting. A vitamin B-1 transplanting solution can help to lessen the transplant shock. Keep the plant in the same type of environment as it was before, sun or shade. If roots were broken, trim off some of the leaves to compensate for the loss.⁹

Planting out

1. Plant most native Hawaiian plants in a sunny location in soil that is well-drained.
2. Make the planting hole twice as wide as the root ball or present pot, and just as deep. If the soil is clay-like, and drains slowly, mix in some coarse red or bland cinder, coarse perlite or

⁹ Bornhorst, p.20-21

coarse compost. Place some slow-release fertilizer at the bottom of the hole.

3. Carefully remove the plant from the container and place it in the hole.

The top of the soil should be at the same level as the top of the hole, if it is too high or too low, adjust the soil level so that the plant is at the right depth.

4. Water thoroughly after you transplant.

Mulch

Most natives cannot compete with weeds, and therefore must be weeded around constantly in order to thrive. Mulch is a practical alternative, which discourages and prevents weeds from growing.

Hawaii's hot, humid climate leads to the breaking down of organic mulches. Thick organic mulches such as wood chips and leaves, may also be hiding places for pests.

Stone mulches are attractive, permanent and can help to improve soil quality. Red or black cinder, blue rock chips, smooth river rocks and coral chips are some natural choices.¹⁰ Macadamia nut hulls are also easy to find and can make a nice mulch.¹¹

Never pile up mulch right next to the stem or trunk of a plant, keep it a few inches away.

¹⁰ Bornhorst, p. 24

¹¹ Nagata, p. 7

ZONES

The Maui County Planting Plan has compiled a system of 5 zones of plant growth for Maui County. The descriptions of zones and maps for these zones are as follows:

Zone 1:

Wet areas on the windward side of the island. More than 40 inches of rain per year. Higher than 3,000 feet.

Zone 2:

Cool, dry areas in higher elevations (above 1,000 feet). 20 to 40 inches of rain per year.

Zone 3:

Low, drier areas, warm to hot. Less than 20 inches of rain per year. Sea level to 1,000 feet.

Zone 4:

Lower elevations which are wetter due to proximity of mountains. 1,000 to 3,000 feet.

Zone 5:

Salt spray zones in coastal areas on the windward side.

These zones are to be used as a general guide to planting for Maui County. In addition to looking at the maps, read the descriptions of the zones and decide which zone best fits your area. Plants can be listed in more than one zone and can be planted in a variety of conditions. For best results, take notes on the rainfall, wind, sun and salt conditions of your site. Use the zones as a general guide for selection and read about the plants to decide which best fits your needs as far as care and or function.

PLACES TO SEE NATIVES ON MAUI:

The following places propagate native Hawaiian plants from seeds and/or cuttings. Their purpose is to protect and preserve these native plants. Please contact them before going to view the sites, they can provide valuable information and referral to other sources.

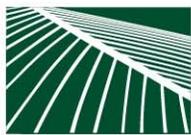
1. Hoolawa Farms 575-5099
P O Box 731
Haiku HI 96708
2. The Hawaiian Collection 878-1701
1127 Manu Street
Kula HI 96790
3. Kula Botanical Gardens 878-1715
RR4, Box 228
Kula HI 96790
4. Maui Botanical Gardens 249-2798
Kanaloa Avenue, Kahului
across from stadium
5. Kula Forest Reserve
access road at the end of Waipoli Rd
Call the Maui District Office 984-8100
6. Wailea Point, Private Condominium residence 875-9557
4000 Wailea Alanui, Kihei
public access points at Four Seasons Resort or
Polo Beach
7. Kahanu Gardens, National Tropical Botanical Garden 248-8912
Alau Place, Hana HI 96713
8. Kahului Library Courtyard 873-3097
20 School Street
Kahului HI 96732

PLACES TO BUY NATIVE PLANTS ON MAUI

1. Ho'olawa Farms
Anna Palomino
P O Box 731
Haiku HI 96708
575-5099

* The largest and best collection of natives in the state. They will deliver, but worth the drive to go and see!
Will propagate upon request
2. Kahanu Gardens
National Tropical Botanical Garden
Alau Place, Hana
248-8912
3. Kihana Nursery
1708 South Kihei Road
Kihei HI 96753
879-1165
4. Kihei Garden and Landscape
Waiko Road, Wailuku
P O Box 1058
Puunene HI 96784
244-3804
5. Kula Ace Hardware and Nursery
3600 Lower Kula Road
Kula HI 96790
876-0734
* many natives in stock
* get most of their plants from Ho'olawa Farms
* they take special requests
6. Kulamanu Farms - Ann Carter
Kula HI 96790
878-1801
7. Maui Nui Botanical Gardens
Kanaloa Avenue
(Across from stadium)
Kahului HI 96732
249-2798
8. Native Gardenscapes
Robin McMillan
1330 Lower Kimo Drive
Kula HI 96790
870-1421

* grows native plants and installs landscapes including irrigation.
9. Native Hawaiian Tree Source
1630 Piihola Road
Makawao HI 96768
572-6180
10. Native Nursery, LLC
Jonathan Keyser
250-3341
11. New Moon Enterprises - Pat Bily
47 Kahoea Place
Kula HI 96790
878-2441
12. Waiakoa Tree Farm - Kua Rogoff
Pukalani HI 96768
Cell - 264-4166



PBR HAWAII

& ASSOCIATES, INC.

April 8, 2013

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Mr. Dave Taylor, Director
Department of Water Supply
County of Maui
200 South High Street
Wailuku, Hawai'i 96793-2155

Subject: Pre-Consultation for Maui Waena Intermediate School
Eight-Classroom Building
Maui, Hawai'i
Tax Map Key (2) 3-8-007:002

Dear Mr. Taylor:

Thank you for your Department's letter dated November 17, 2010 regarding our request for pre-consultation comments for a proposed eight-classroom building at Maui Waena Intermediate School. As the planning consultant for the State Department of Education, we offer the following responses in the respective order of your comments:

Source Availability and Consumption. As requested, the Environmental Assessment (EA) will identify the expected potable and non-potable water demand for the proposed classroom building. We appreciate the information regarding the existing water meters and daily consumption and will include this information in the Draft EA. We acknowledge that there is currently no additional source available to accommodate additional demand according to system standards on the Central Maui System and that meter adequacy will be determined in the building permit process.

System Infrastructure. We acknowledge that there is an 18-inch waterline and four fire hydrants located on Onehee Street and that fire flow requirements will be determined during the building permit process.

Pollution Prevention. We acknowledge that the school campus is within the 10-year travel wellhead protection area of DWS sources overlying the Kahului aquifer. As requested, the referenced Best Management Practices will be included in the Draft EA.

Conservation. We appreciate the information regarding water conservation measures that may be implemented in the project's design and construction. The information will be included in the Draft EA.

Mr. Dave Taylor

Subject: Pre-Consultation for Maui Waena Intermediate School, Eight-Classroom Building, Maui,
Hawai'i, Tax Map Key (2) 3-8-007:002

April 8, 2013

Page 2

We appreciate your participation in the environmental review process. A copy of the Draft EA
will be provided to you when it is available.

Sincerely,

PBR HAWAII

A handwritten signature in black ink, reading "Vincent R. Shigekuni". The signature is written in a cursive style with a long horizontal flourish at the end.

Vincent Shigekuni
Vice President

cc: Ryan Yamamoto, Department of Education
Kurt Mitchell, Kober Hanssen Mitchell Architects



October 14, 2010

Mr. Tom Schnell, AICP
PBR Hawaii & Associates, Inc.
1001 Bishop Street
ASB Tower, Suite 650
Honolulu, Hawaii, 96813

Dear Mr. Schnell,

Subject: Pre-Consultation for Maui Waena Intermediate School Eight-Classroom Building
795 Onehee Avenue
Kahului, Maui, Hawaii
Tax Map Key: (2) 3-8-007: 002

Thank you for allowing us to comment on the Pre-Consultation for the subject project.

In reviewing our records and the information received, Maui Electric Company may be requiring access and electrical easements for our facilities to serve the subject project site. We highly encourage the customer's electrical consultant to submit electrical drawings and a project time schedule as soon as practical so that service can be provided on a timely basis.

Should you have any questions or concerns, please call me at 871-2341.

Sincerely,

A handwritten signature in black ink, appearing to read 'Kyle Tamori', with a long horizontal flourish extending to the right.

Kyle Tamori
Staff Engineer



PBR HAWAII

& ASSOCIATES, INC.

April 8, 2013

PRINCIPALS

THOMAS S. WITTEN, ASLA
President

R. STAN DUNCAN, ASLA
Executive Vice-President

RUSSELL Y. J. CHUNG, FASLA, LEED® AP
Executive Vice-President

VINCENT SHIGEKUNI
Vice-President

GRANT T. MURAKAMI, AICP, LEED® AP
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Chairman Emeritus

ASSOCIATES

TOM SCHNELL, AICP
Senior Associate

RAYMOND T. HIGA, ASLA
Senior Associate

KEVIN K. NISHIKAWA, ASLA
Associate

KIMI MIKAMI YUEN, LEED® AP
Associate

SCOTT ALIKA ABRIGO, LEED® AP
Associate

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Kapolei Building, Suite 313
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Tel: (808) 521-5631
Fax: (808) 535-3163

Mr. Kyle Tamori, Staff Engineer
Maui Electric Company, Ltd.
210 West Kamehameha Avenue
P.O. Box 398
Kahului, Hawai'i 96733-6898

**Subject: Pre-Consultation for Maui Waena Intermediate School
Eight-Classroom Building
Maui, Hawai'i
Tax Map Key (2) 3-8-007:002**

Dear Mr. Tamori:

Thank you for your letter dated October 14, 2010 regarding our request for pre-consultation comments for a proposed eight-classroom building at Maui Waena Intermediate School. As the planning consultant for the State Department of Education, we are responding to your comments:

We acknowledge that Maui Electric Company may require access and electrical easements to serve the proposed classroom building. As requested, the project's electrical consultant will submit electrical drawings and a project time schedule to Maui Electric Company for review as soon as is practical.

We appreciate your participation in the environmental review process. A copy of the Draft EA will be provided to you when it is available.

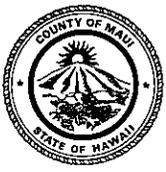
Sincerely,

PBR HAWAII

Vincent Shigekuni
Vice President

cc: Ryan Yamamoto, Department of Education
Kurt Mitchell, Kober Hanssen Mitchell Architects

O:\Job28\2806.01 Maui Waena School EA\EA\Pre-Consultation\Response Letters\MECO.docx



CHARMAINE TAVARES
MAYOR

OUR REFERENCE
YOUR REFERENCE
tj

POLICE DEPARTMENT

COUNTY OF MAUI

55 MAHALANI STREET
WAILUKU, HAWAII 96793
(808) 244-6400
FAX (808) 244-6411



GARY A. YABUTA
CHIEF OF POLICE

CLAYTON N.Y.W. TOM
DEPUTY CHIEF OF POLICE

November 5, 2010

Mr. Tom Schnell, AICP
Senior Associate
PBR Hawaii
1001 Bishop Street
ASB Tower, Suite 650
Honolulu, HI 96813-3484

Dear Mr. Schnell:

SUBJECT: Pre-Consultation for Maui Waena Intermediate School Eight-Classroom Building, Maui, TMK: (2) 3-8-7:02

Thank you for your letter of October 8, 2010, requesting comments on the above subject.

We have reviewed the information submitted and have enclosed our comments. Thank you for giving us the opportunity to comment on the proposed project.

Very truly yours,


Assistant Chief Danny Matsuura
for: GARY A. YABUTA
Chief of Police

Enclosure

c: Kathleen Ross Aoki, Maui County Planning Department

COPY

TO : GARY YABUTA, CHIEF OF POLICE, COUNTY OF MAUI
VIA : CHANNELS *A. D. Matsun*
FROM : DARRELL RAMOS, ADMIN. SERGEANT, WAILUKU PATROL DIVISION *11/15/10*
SUBJECT : RESPONSE TO AN PRE CONSULTATION REQUEST FOR THE PROPOSED MAUI WAENA INTERMEDIATE SCHOOL 8 CLASSROOM BUILDING

This communication is submitted as a response to a request for pre-consultation comments by PBR HAWAII & ASSOCIATES, Inc., Project Senior Associate Tom SCHNELL, AICP, regarding:

SUBJECT : PRE CONSULTATION REQUEST FOR THE PROPOSED MAUI WAENE INTERMEDIATE SCHOOL EIGHT CLASSROOM BUILDING
TMK : (2) 3-8-7:02

RESPONSE:

In review of the submitted documents, concerns from the police perspective are upon the safety of pedestrian and vehicular movement.

This project will develop a new students 8 classroom building to be built atop their existing 1.1.96 acres located within Maui Lani at 795 Onehe'e Avenue, Kahului.

Access to the proposed project site will be provided via Onehe'e Avenue.

The roadway into the project will need to meet the minimal standards set forth by county codes and state laws. A traffic impact study would be the only means to assess the levels of service in current and future conditions. There are no objections to the progression of the project at this time

[Signature]
Respectfully submitted,

Sgt Darrell RAMOS e-1123
Patrol Division - Wailuku District
11/04/10 1130 hrs.

*Concern - impact study
needed for more details.
Recommend approval at this
time.*

*Capt. J. Singpalet
11/04/10 1220 hrs.*



PBR HAWAII

& ASSOCIATES, INC.

April 8, 2013

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Vice-President

GRANT T. MURAKAMI, AICP, LEED® AP
Principal

W. FRANK BRANDT, FASLA
Chairman Emeritus

Mr. Gary A. Yabuta, Chief of Police
Police Department
County of Maui
55 Mahalani Street
Wailuku, Hawai'i 96793

Subject: Pre-Consultation for Maui Waena Intermediate School
Eight-Classroom Building
Maui, Hawai'i
Tax Map Key (2) 3-8-007:002

Dear Chief Yabuta:

ASSOCIATES

TOM SCHNELL, AICP
Senior Associate

RAYMOND T. HIGA, ASLA
Senior Associate

KEVIN K. NISHIKAWA, ASLA
Associate

KIMI MIKAMI YUEN, LEED® AP
Associate

SCOTT ALIKA ABRIGO, LEED® AP
Associate

SCOTT MURAKAMI, ASLA, LEED® AP
Associate

DACHENG DONG, LEED® AP
Associate

Thank you for your letter dated November 5, 2010 and your Department's memorandum dated November 4, 2010 regarding our request for pre-consultation comments for a proposed eight-classroom building at Maui Waena Intermediate School. As the planning consultant for the State Department of Education, we are responding to your comments:

Your Department's comments that the roadway into the project will need to meet the minimal standards set forth by the county and state laws is acknowledged. Please be aware that the new classroom building is being constructed to address an existing shortage of classroom space and is not anticipated to generate additional student enrollment. As a result, students of the classroom in itself will not generate higher levels of traffic volume on surrounding roadways. Any traffic impacts, including construction-related traffic impacts, will be coordinated with appropriate county agencies during the design and building permit phase of the project.

We appreciate your participation in the environmental review process. A copy of the Draft EA will be provided to you when it is available.

Sincerely,

PBR HAWAII

Vincent Shigekuni
Vice President

cc: Ryan Yamamoto, Department of Education
Kurt Mitchell, Kober Hanssen Mitchell Architects

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