

ALAN M. ARAKAWA
MAYOR

OUR REFERENCE

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POLICE DEPARTMENT APR-08 2016
COUNTY OF MAUI

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WAILUKU, HAWAII 96793
(808) 244-6400
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March 16, 2016



TIVOLI S. FAAUMU
CHIEF OF POLICE

DEAN M. RICKARD
DEPUTY CHIEF OF POLICE

Scott Glenn, Interim Director
Office of Environmental Quality Control
Department of Health, State of Hawaii
235 South Beretania Street, Room 702
Honolulu, Hawaii 96813

**SUBJECT: FINAL ENVIRONMENTAL ASSESSMENT (EA) FOR PROPOSED MAUI
POLICE DEPARTMENT COMMUNICATIONS FACILITY AT LĀHAINĀ
WATER TREATMENT PLANT AT TMK (2)4-6-018:012 (por.), LĀHAINĀ,
MAUI, HAWAII**

Dear Mr. Glenn:

With this letter, the Maui Police Department (MPD) of the County of Maui, hereby transmits the Final Environmental Assessment and Finding of No Significant Impact (FEA-FONSI) for the Proposed MPD Communications Facility at Lāhainā Water Treatment Plant situated at TMK No. (2)4-6-018:012 (por.), in the Lāhainā District on the island of Maui for publication in the next available edition of the Environmental Notice.

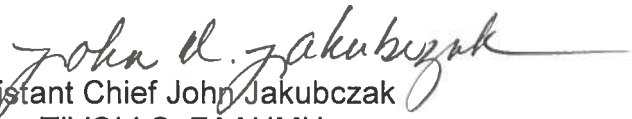
The MPD has included copies of comments and responses that it received during the 30-day public comment period on the Draft Environmental Assessment and Anticipated Finding of No Significant Impact (DEA-AFONSI).

Enclosed is a completed OEQC Publication Form, two (2) copies of the FEA-FONSI, 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.

Scott Glenn, Interim Director
March 16, 2016
Page 2

If there are any questions, please contact Walter Pacheco at (808) 270-6529.

Very truly yours,


Assistant Chief John Jakubczak
for: TIVOLI S. FAAUMU
Chief of Police

TF:

Attachments

cc: Walter H. Pacheco, Maui Police Department (w/out attachments)
John Sakaguchi, Wilson Okamoto Corp. (w/out attachments)
Marisa Fujimoto, Munekiyo Hiraga (w/out attachments)

K:\DATA\WOC\Lahinaluna WTF 1841\Applications\Final EA\FinalEA\OEQC trans.doc

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QUALITY CONTROL

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**AGENCY
PUBLICATION FORM**



Project Name:	Proposed Maui Police Department Communications Facility at Lāhainā Water Treatment Plant
Project Short Name:	MPD Communications Facility Lahaina WTF
HRS §343-5 Trigger(s):	Use of State land and County funds
Island(s):	Maui
Judicial District(s):	Lāhainā
TMK(s):	(2)4-6-018:012 (por.)
Permit(s)/Approval(s):	Federal Communications Commission licenses/approvals; National Historic Preservation Act Section 106 approval; Endangered Species Act Section 7 approval; State Department of Health Noise Permit, as applicable; Department of Public Works Building Permit and related permits; Department of Public Works Grading Permit
Proposing/Determining Agency:	Maui Police Department County of Maui
Contact Name, Email, Telephone, Address	Walter H. Pacheco Walter.Pacheco@mpd.net (808) 244-6400 55 Mahalani Street Wailuku, Hawai'i 96793
Accepting Authority:	(for EIS submittals only)
Contact Name, Email, Telephone, Address	
Consultant:	Munekiyohiraga
Contact Name, Email, Telephone, Address	Marisa Fujimoto planning@munekiyohiraga.com (808) 244-2015 305 High Street, Suite 104 Wailuku, Hawai'i 96793

Status (select one) DEA-AFNSI**Submittal Requirements**

Submit 1) the proposing agency notice of determination/transmittal letter on agency letterhead, 2) this completed OEQC publication form as a Word file, 3) a hard copy of the DEA, and 4) a searchable PDF of the DEA; a 30-day comment period follows from the date of publication in the Notice.

 FEA-FONSI

Submit 1) the proposing agency notice of determination/transmittal letter on agency letterhead, 2) this completed OEQC publication form as a Word file, 3) a hard copy of the FEA, and 4) a searchable PDF of the FEA; no comment period follows from publication in the Notice.

 FEA-EISPN

Submit 1) the proposing agency notice of determination/transmittal letter on agency letterhead, 2) this completed OEQC publication form as a Word file, 3) a hard copy of the FEA, and 4) a searchable PDF of the FEA; a 30-day comment period follows from the date of publication in the Notice.

 Act 172-12 EISPN
("Direct to EIS")

Submit 1) the proposing agency notice of determination letter on agency letterhead and 2) this completed OEQC publication form as a Word file; no EA is required and a 30-day comment period follows from the date of publication in the Notice.

 DEIS

Submit 1) a transmittal letter to the OEQC and to the accepting authority, 2) this completed OEQC publication form as a Word file, 3) a hard copy of the DEIS, 4) a searchable PDF of the DEIS, and 5) a searchable PDF of the distribution list; a 45-day comment period follows from the date of publication in the Notice.

 FEIS

Submit 1) a transmittal letter to the OEQC and to the accepting authority, 2) this completed OEQC publication form as a Word file, 3) a hard copy of the FEIS, 4) a searchable PDF of the FEIS, and 5) a searchable PDF of the distribution list; no comment period follows from publication in the Notice.

- FEIS Acceptance Determination The accepting authority simultaneously transmits to both the OEQC and the proposing agency a letter of its determination of acceptance or nonacceptance (pursuant to Section 11-200-23, HAR) of the FEIS; no comment period ensues upon publication in the Notice.
- FEIS Statutory Acceptance Timely statutory acceptance of the FEIS under Section 343-5(c), HRS, is not applicable to agency actions.
- Supplemental EIS 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 or is not required; no EA is required and no comment period ensues upon publication in the Notice.
- Withdrawal Identify the specific document(s) to withdraw and explain in the project summary section.
- Other Contact the OEQC if your action is not one of the above items.

Project Summary

Provide a description of the proposed action and purpose and need in 200 words or less.

The Maui Police Department (MPD) proposes construction of a new communications facility that will meet departmental needs in terms of coverage, reliability, capacity, and security. The MPD-owned and operated facility will provide secure microwave radio transmissions and will enhance the existing communications infrastructure and provide a secure communications facility for governmental agencies and facilities that provide public health, safety, emergency, and educational services within the County of Maui, including transmissions for First Responder emergency communications.

The proposed communications facility will be located at the County of Maui Department of Water Supply's (DWS) Lāhainā Water Treatment Plant (WTP), approximately 700 feet east of Lahainaluna High School. The proposed facility will include a small single-story equipment building with a radio room and generator room, approximately 264 square feet in area, and a self-supported communication tower, approximately 45 feet in height. The facility will be built within the secured area of the one (1) million gallon tank at the Lāhainā WTP.

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Final Environmental Assessment

PROPOSED MAUI POLICE DEPARTMENT COMMUNICATIONS FACILITY AT LĀHAINĀ WATER TREATMENT PLANT (TMK (2) 4-6-018:012 (por.))

**Prepared for:
County of Maui, Police Department**

March 2016

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by Munekiyo Hiraga**



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LIST OF ACRONYMS

ANSI/TIA	American National Standard Institute/Telecommunications Industry Association
AFONSI	Anticipated Finding of No Significant Impact
AIS	Archaeological Inventory Survey
ALISH	Agricultural Lands of Importance to the State of Hawai‘i
amsl	above mean sea level
AV	audiovisual
BMP	Best Management Practice
CIA	Cultural Impact Assessment
CMU	Concrete Masonry Unit
CO ₂	Carbon Dioxide
CZM	Coastal Zone Management
DLIR	Department of Labor and Industrial Relations
DLNR	Department of Land and Natural Resources
DOE	Department of Education
DOFAW	Division of Forestry and Wildlife
DWS	Department of Water Supply
EA	Environmental Assessment
EIS	Environmental Impact Statement
EPA	Environmental Protection Agency
FAA	Federal Aviation Administration
FCC	Federal Communications Commission
FEMA	Federal Emergency Management Agency
FIRM	Flood Insurance Rate Map
FONSI	Findings of No Significant Impact
gpd	gallons per day
HAR	Hawai‘i Administrative Rules
HCZMP	Hawai‘i Coastal Zone Management Program
HRS	Hawai‘i Revised Statutes
LaD	Lāhainā Silty Clay
LCA	Land Commission Award
LCC	Lāhainā Civic Center
LHS	Lahainaluna High School
LMR	Land Mobile Radio
LSB	Land Study Bureau
MECO	Maui Electric Company, Ltd.
mg	million gallons
mgd	million gallons per day
MIP	Maui Island Plan
MPD	Maui Police Department
mph	miles per hour
NRCS	Natural Resources Conservation Service
NPDES	National Pollutant Discharge Elimination System

OED	Office of Economic Development
OEQC	Office of Environmental Quality Control
RGB	Rural Growth Boundary
SCS	Scientific Consultant Services, Inc.
SDOT	State Department of Transportation
SHPD	State Historic Preservation Division
SLUC	State Land Use Commission
SMA	Special Management Area
TMK	Tax Map Key
UGB	Urban Growth Boundary
UH	University of Hawai'i
UHMC	University of Hawai'i Maui College
USFWS	United States Fish and Wildlife Service
USGS	U.S. Geological Survey
WTP	Water Treatment Plant
WWRF	Wastewater Reclamation Facility

Executive Summary

Project Name:	Proposed Maui Police Department Communications Facility at Lāhainā Water Treatment Plant
Type of Document:	Final Environmental Assessment (EA)
Legal Authority:	Chapter 343, Hawai‘i Revised Statutes
Anticipated Determination:	Finding of No Significant Impact (FONSI)
Applicable Environmental Assessment review “Trigger”:	Use of State Lands and County Funds
Location:	TMK (2) 4-6-018:012 (por.) Lāhainā, Maui, Hawai‘i
Proposing and Determining Agency:	County of Maui, Police Department 55 Mahalani Street Wailuku, Hawai‘i 96793 Contact: Walter H. Pacheco Telephone: (808) 244-6400
Consultant:	Munekiyo Hiraga 305 High Street, Suite 104 Wailuku, Hawai‘i 96793 Contact: Marisa Fujimoto Phone: (808) 244-2015
Project Summary:	<p>The Maui Police Department (MPD) proposes construction of a new communications facility that will meet departmental needs in terms of coverage, reliability, capacity, and security. The proposed action will enhance the existing communications infrastructure and provide a secure communications facility for governmental agencies and facilities that provide public health, safety, emergency, and educational services within the County of Maui.</p> <p>The proposed communications facility will be located at the County of Maui Department of Water Supply’s (DWS) Lāhainā Water Treatment Plant (WTP),</p>

approximately 700 feet east of Lahainaluna High School, at an elevation of approximately 800 feet above mean sea level. The proposed facility will include a small single-story equipment building with a radio room and generator room, approximately 264 square feet in area, and a self-supported communication tower, approximately 45 feet in height. The facility will be built within the secured area of the one (1) million gallon tank at the Lāhainā WTP.

The MPD-owned and operated facility will provide secure microwave radio transmissions and will support the communications network serving government agencies and facilities in West Maui, including transmissions for First Responder emergency communications. The MPD will require a license from the Federal Communications Commission (FCC) to operate the frequencies used by the microwave antennas.

The lands underlying the project site are owned by the State of Hawai'i with an easement in favor of the County of Maui. Additionally, construction of the new communications facility will be funded by the MPD. The use of State lands and County funding are triggers for the preparation of an EA, pursuant to Chapter 343, Hawai'i Revised Statutes and Section 11-200-6, Hawai'i Administrative Rules. The MPD will be the determining agency for the EA.

I. PROJECT OVERVIEW

I. PROJECT OVERVIEW

A. PROJECT LOCATION, EXISTING USE, AND OWNERSHIP

The location of the proposed Maui Police Department (MPD) communications facility is within the secured area of the one (1) million gallon (mg) water concrete reservoir at the County of Maui, Department of Water Supply (DWS) Lāhainā Water Treatment Plant (WTP), located approximately 700 feet east of Lahainaluna High School (LHS) at the mauka (upland) terminus of Lahainaluna Road on TMK (2) 4-6-018:012(por.) (Parcel 12). See **Figure 1** and **Figure 2**. The proposed MPD Lahainaluna Communications Facility will be located approximately 40 feet south of the existing DWS 1.0 mg finish water concrete reservoir in an area currently occupied by grass and weeds. The MPD facility has been sited to avoid the existing 12-inch finish waterline. Entry to the MPD facility will be designed so that there will be no access from the MPD site into the DWS reservoir site, which will retain its existing gate.

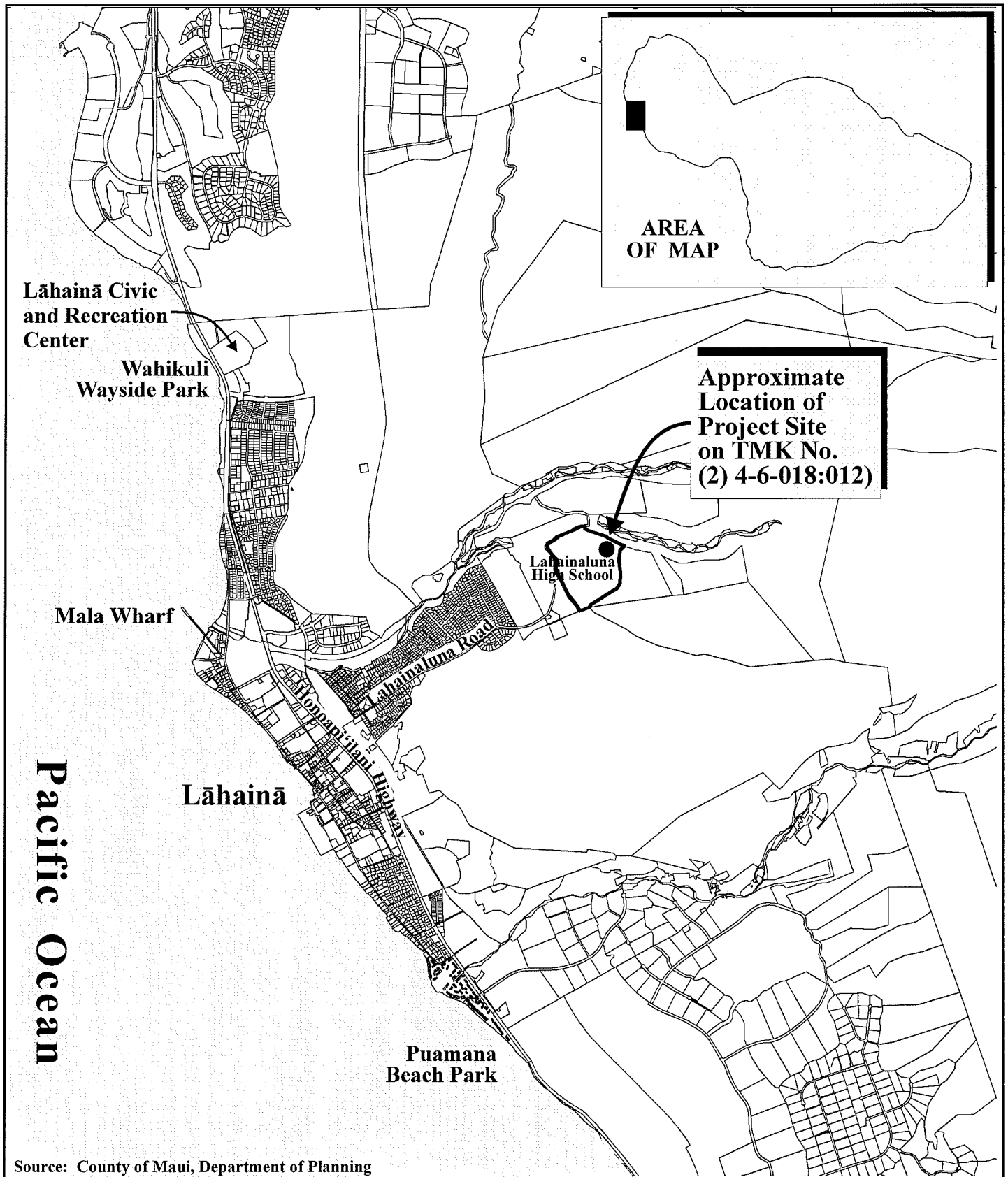
Parcel 12, approximately 68 acres in size, is owned by the State of Hawai‘i. It contains LHS and the WTP and includes existing easements in favor of the County of Maui for the WTP, including roadway and utility easements. Preliminary discussions with the DWS indicate they have been working with the Department of Land and Natural Resources (DLNR) to subdivide the DWS facility from the surrounding land within the State-owned parcel.

Lahainaluna Intermediate School and Princess Nāhi‘ena‘ena Elementary School are to the west of the project site, mauka of the Kelaweā Mauka residential area. The project area is otherwise surrounded by fallow agricultural lands.

In selecting a location for the proposed facility, MPD considered criteria pertaining to line-of-sight transmission to other communication facilities, site accessibility, and impacts on environmental resources.

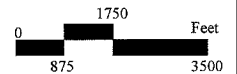
B. PROPOSED ACTION

The MPD is proposing development of one (1) radio equipment building, consisting of a radio room and generator room, a 45-foot-tall steel monopole tower with three (3) 4-foot microwave antennas, a 5-foot lightning rod, waveguide bridge between the tower and the equipment building, retaining walls, security fencing, and electrical improvements to connect the project site to nearby commercial electrical power. See **Figure 3** and



Source: County of Maui, Department of Planning

**Figure 1 Proposed Maui Police Department
Communications Facility at Lāhainā
Water Treatment Plant
Regional Location Map**



Prepared for: County of Maui, Police Department

MUNEKIYO HIRAGA

WOCLahainaluna WTF 1841\RegionalLocationREV

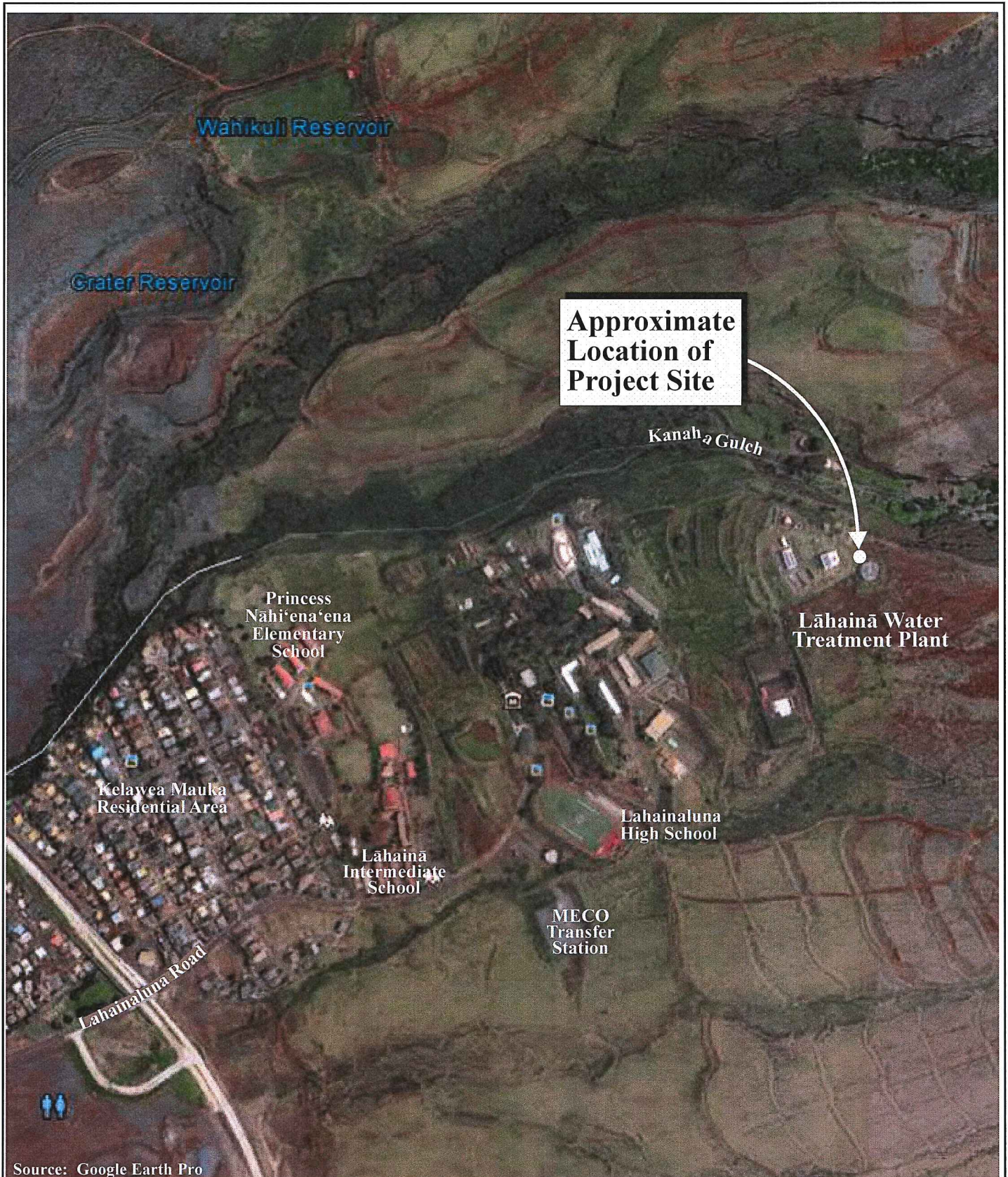
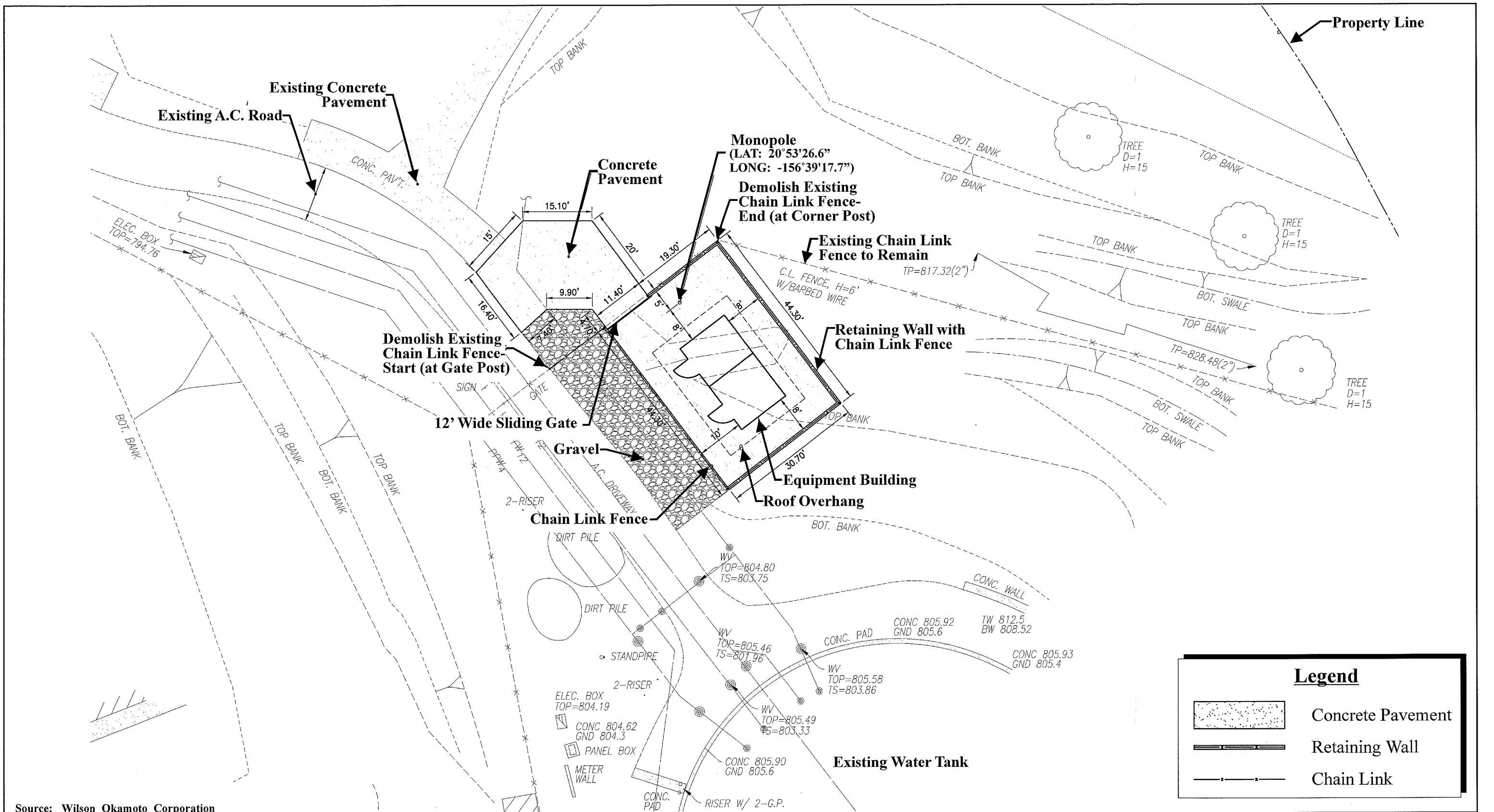


Figure 2

Proposed Maui Police Department
 Communications Facility at Lāhainā
 Water Treatment Plant
 Property Location Map

NOT TO SCALE

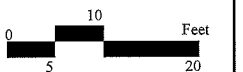




Source: Wilson Okamoto Corporation

Figure 3

Proposed Maui Police Department Communications Facility at Lāhainā Water Treatment Plant Site Plan



Prepared for: County of Maui, Police Department

MUNEKIYO HIRAGA

Appendix “A”. The site will be approximately 1,400 square feet (30 feet by 44 feet with an access apron), surfaced with gravel and concrete, and enclosed with an eight (8) foot high security fencing. An access driveway/apron will connect the MPD facility to the existing DWS access road.

The communication facility site will not require potable water services for domestic uses or for fire protection. Fire protection for the building will include a clean agent fire suppression system in the radio room and a carbon dioxide system in the generator room. In addition, hand-held extinguishers specific to the type of equipment will be provided in each room.

The communication facility will not include toilet facilities and will not require County wastewater treatment or disposal services.

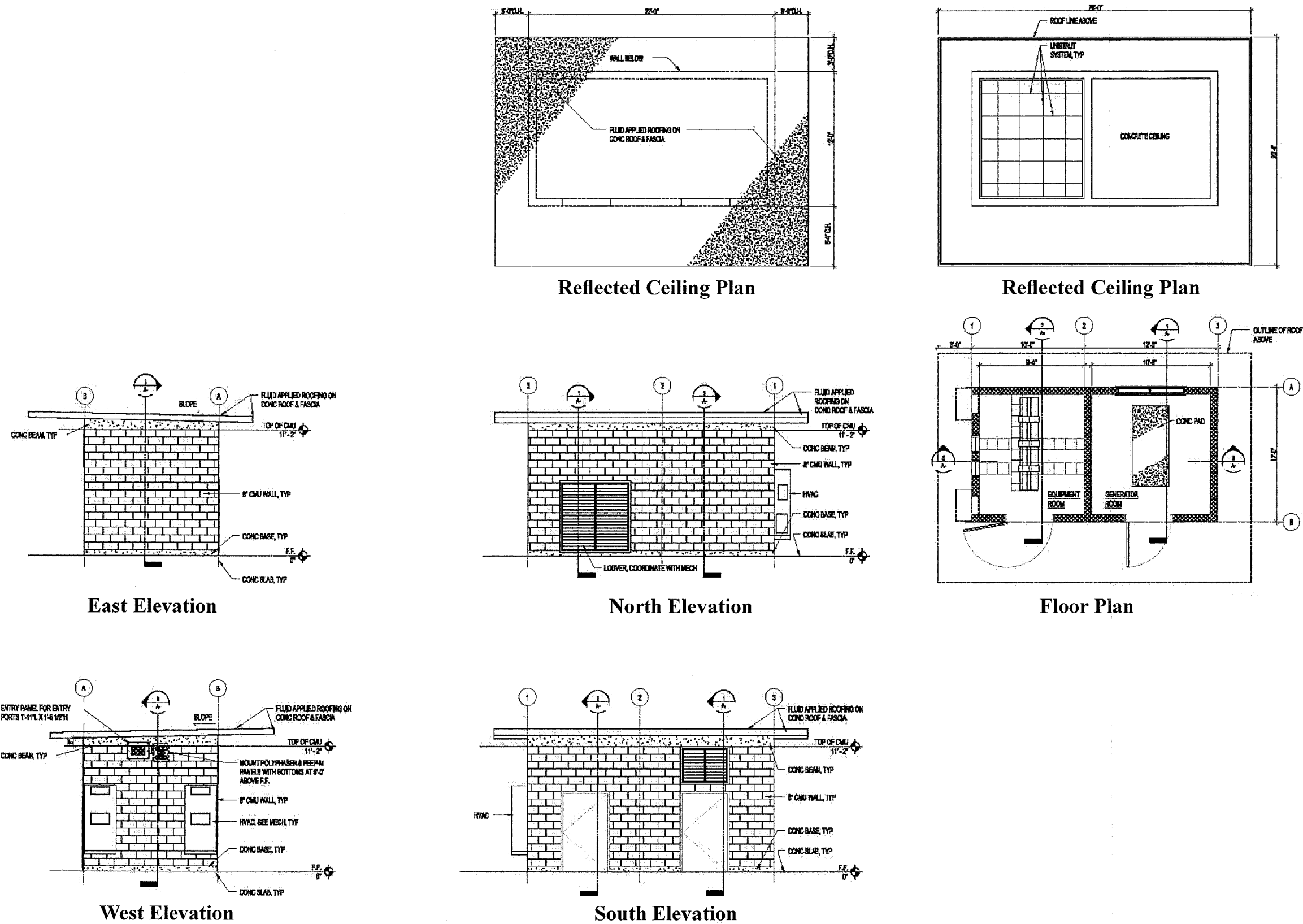
MPD specifications require the building, tower, and antennas to remain operational at wind speeds of up to 110 miles per hour (mph) and the facilities to survive wind speeds of up to 155 mph. Wind speeds of 110 mph are the highest sustained winds expected in a Saffir-Simpson Category 2 hurricane. Wind speeds of 155 mph are the highest reached in a Saffir-Simpson Category 4 hurricane.

1. Radio Equipment Building

A 2-room, single-story 12 feet by 22 feet, 264 sq. ft. equipment building with 8-inch thick reinforced concrete-masonry unit (CMU) walls, cast-in-place concrete roof, and concrete slab floors will be constructed on the project site to accommodate a 132 sq. ft. radio equipment room and a 132 sq. ft. emergency generator room. See **Figure 4**. The building will include a 5-foot roof overhang over the entry doors and 4-foot overhangs on the other three (3) sides of the building to provide protection for the air conditioning units and the cable entry port for the waveguide cables, which will be installed through the entry port on the wall.

The 264 sq. ft. equipment building will be designed with an 11-foot high ceiling to accommodate one (1) row of four (4) 8-foot tall equipment racks and overhead cable trays which will hold the microwave waveguides.

The building will be equipped with an alarm system to monitor and transmit door entry, high temperature conditions, fire alarms, and other operational and security indicators.



Source: RM AIA Architects

Figure 4

Proposed Maui Police Department Communications Facility
at Lāhainā Water Treatment Plant
Equipment Building Elevations

NOT TO SCALE



The radio equipment room will use an air conditioning system (either a split air conditioning system or a package air conditioning unit) to provide cooling for the radio equipment. The air conditioning system will be designed with one (1) unit as a primary unit and the other as a backup unit. This design will allow a single unit to provide the necessary cooling for the entire equipment room should one (1) unit fail. Since the split system does not draw outside air into the equipment room, a small dehumidifier will be used to remove moisture, if needed. The package units rely on fresh outside air for their systems.

The equipment room will use 8-inch thick insulation on the ceiling comprised of two (2) layers of 4-inch thick thermal interior insulation. The generator room will not have thermal or acoustical insulation. The radio equipment room and its supporting electrical and mechanical systems will be designed to comply with the County of Maui energy code.

An integrated approach will be taken to protect the entire facility, including the tower, from the damage caused by lightning strikes. An internal halo ground will connect non-active metallic items, such as door frames, cable trays and racks, and fire protection equipment. The tower, security fence, and the building ground systems will be connected to a buried ground grid system under the building and tower foundation. The ground system will utilize buried copper wire and copper ground rods to ensure proper grounding.

The fire suppression system for the radio equipment room will be suitable for use with electronic equipment. It will use a compound of carbon, fluorine, and hydrogen as the suppressant. The compound is non-ozone depleting and safe for use in occupied spaces. In addition, the equipment room will be equipped with hand-held fire extinguishers suitable for use in rooms with electronic equipment.

The generator room will be equipped with heat detectors and a carbon dioxide (CO₂) fire suppression system. The generator will be sized to provide sufficient power for the rectifiers and for running the air conditioning system for the radio equipment room and other electrical needs.

Diesel fuel for the emergency generator will be stored in a double-walled subbase tank. The interstitial space between the walls of the tank will contain any leaks from the inner tank and will include a leak detection system.

Outdoor lighting will be kept to a minimum, will meet the County code for exterior lighting, and will be down-shielded to reduce glare and light spill over

from the site. The project site will not be lighted at night, unless required for night repair work, at which time the light would be activated by an on-demand switch equipped with a timer. Additionally, the building will be equipped with a building alarm system to monitor and transmit door entry, high temperature conditions, fire alarms, and other environmental and security indicators.

2. Tower and Antennas

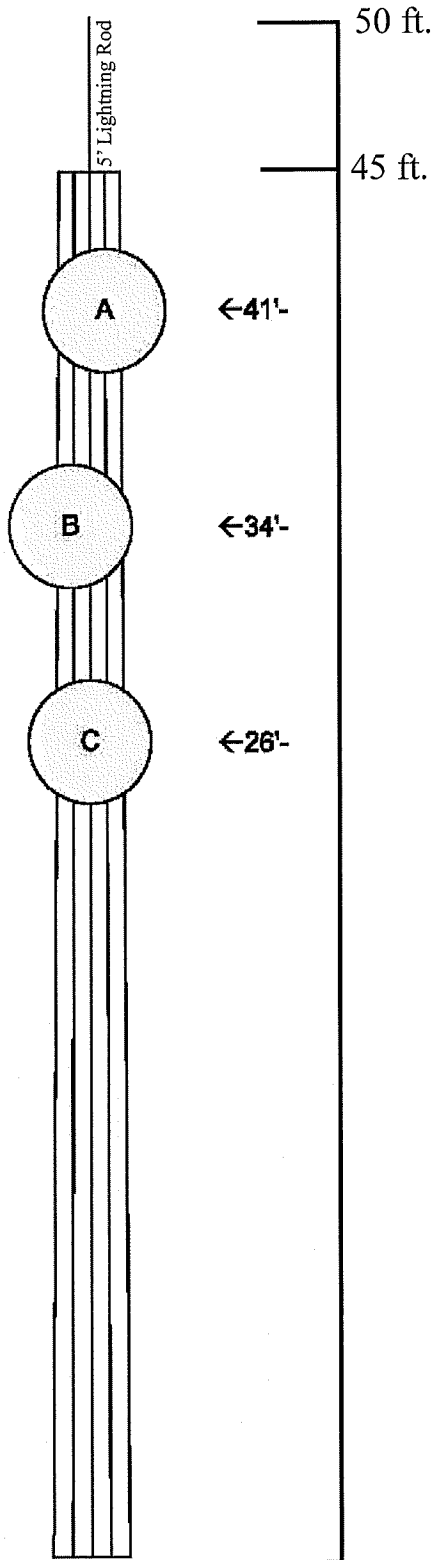
A 45-foot tall, self-supported monopole tower will be used to mount three (3) 4-foot solid high performance microwave antennas. The antennas will establish point to point connections with MPD facilities at Makila (future) and Hyatt Regency, as well as University of Hawaii Maui College (UHMC) Lahaina. There are no land mobile radio antennas at this facility. A 5-foot lightning rod will be attached to the top of the 45-foot monopole. The lightning rod will be the highest of the tower's fixtures, rising approximately 50 feet above grade. See **Figure 5**.

The tower will also include climbing pegs with a safety climb wire. A covered horizontal waveguide transmission line bridge will be used to carry the wave guides between the microwave antennas on the tower and the building entry ports. The tower will not require guy wires. The tower will be factory painted a light gray shade similar to the color of the galvanized finish, which will ensure its visibility to seabirds in flight. The monopole is not anticipated to require an obstruction light. A FAA Form 7460-1, Notice of Proposed Construction, will be filed to confirm that an obstruction light will not be required.

The monopole tower foundation will consist of one (1) of the following: 1) concrete mat foundation; 2) a drilled shaft; or 3) a series of micropiles with a concrete pile cap. Anchor bolts will be used to secure the monopole to the foundation. The final design of the foundation will depend on the findings of the geotechnical investigation. The area surrounding the tower will be covered with a paved concrete surface with an adjacent gravel surface to absorb any stormwater runoff. Refer to **Figure 3**.

The monopole tower will be designed to meet the guidelines set forth in the American National Standard Institute/Telecommunications Industry Association (ANSI/TIA)-222-G, *Structural Standard for Antenna Supporting Structures and Antennas*.

Lahainaluna Projected Antenna Load Plan



Antenna Schedule	
A - 4' UHX to Makila Centerline @ 41'	
B - 4' UHX to Hyatt Regency Maui Centerline @ 34'	
C - 4' UHX to UHMC Lahaina Centerline @ 26'	

Source: Maui Police Department

Figure 5 Proposed Maui Police Department Communications Facility at Lāhainā Water Treatment Plant Tower Elevation NOT TO SCALE



Prepared for: County of Maui, Police Department



3. Electrical Improvements

Maui Electric Company, Ltd. (MECO) currently provides 3-phase electric power via overhead lines to the Lahaina Water Treatment Plant. Electrical service to the MPD facility will be extended from a nearby MECO pole to the project site via new MECO poles and overhead lines. The MPD facility will include its own service meter to monitor electrical use.

4. Maintenance

Once the facility is operational, routine maintenance trips are expected to occur at an interval of approximately one (1) trip per month. MPD and contractor personnel will maintain and test the radio equipment and the emergency power system. The emergency generator will be tested regularly to ensure it is operational during emergency situations. Testing of the generator will be an automatic exercise, conducted on a weekly basis for approximately 30 minutes. No MPD personnel will be assigned to the facility.

The proposed facility will be used exclusively by governmental entities and facilities with MPD as the primary user. Other government agencies will be able to use surplus microwave bandwidth as part of the County of Maui Information Technology Services Division network.

C. PROJECT PURPOSE AND NEED

The MPD proposes the construction of a communications facility that will meet departmental needs in terms of coverage, reliability, capacity, and security. The proposed action will enhance the existing communication infrastructure and provide a secure communications facility for governmental agencies and facilities that provide public, health, safety, emergency, and educational services within the County of Maui. The proposed facility is to be located at the existing DWS Lāhainā WTP at an elevation of approximately 800 feet above mean sea level (amsl). Refer to **Figure 1**.

The MPD-owned and operated facility will provide secure microwave radio transmissions and will support the County's voice and data network serving West Maui, including transmissions for First Responder emergency communications.

D. CHAPTER 343, HAWAI'I REVISED STATUTES REQUIREMENT

The proposed project is located on lands owned by the State of Hawai'i within the existing easement in favor of the County of Maui. The project will be funded by the

County of Maui. The use of State lands and County funds are triggers for compliance with Hawai'i Revised Statutes (HRS), Chapter 343 requirements. Therefore, this Environmental Assessment (EA) is being prepared pursuant to Title 11, Chapter 200, Hawai'i Administrative Rules (HAR), Environmental Impact Statement Rules to evaluate the proposed project's technical characteristics, environmental and socio-economic impacts, and alternatives, as well as to advance findings relative to the project's potential impacts and proposed mitigation measures. The MPD is the proposing and determination agency for the EA.

E. PROJECT COSTS AND IMPLEMENTATION CONSIDERATIONS

The project area falls within the State "Agricultural" District with soil classified by the Land Study Bureau's detailed land classification as productivity rating class "E", the lowest productivity rating. Consultation with the Land Use Commission office has determined that communications equipment buildings and wireless communication antennae are allowed in the State "Agricultural" District according to HRS 205-4.5 (7) and (18), respectively.

The project area is designated "Public/Quasi-Public" use by the West Maui Community Plan and "Interim" by County of Maui zoning. Section 19.02A.030 of the Maui County Code cites public facilities as a permitted use in the Interim zoning district with a maximum tower height of 50 feet.

The construction cost for the proposed project is approximately \$2.2 million. The MPD intends to include the proposed project in its fiscal year 2017 budget which begins on July 1, 2016. Pending the receipt of all necessary permits and approvals, construction is anticipated to last approximately eight (8) months and the proposed facility is expected to be operational by June 2017.

II. DESCRIPTION OF THE EXISTING ENVIRONMENT, POTENTIAL IMPACTS, AND PROPOSED MITIGATION MEASURES

II. DESCRIPTION OF THE EXISTING ENVIRONMENT, POTENTIAL IMPACTS, AND PROPOSED MITIGATION MEASURES

A. PHYSICAL SETTING

1. Surrounding Land Uses

a. Existing Conditions

The project site is located at the existing County of Maui Department of Water Supply (DWS), Lāhainā Water Treatment Plant (WTP), approximately 700 feet east of the Lahainaluna High School (LHS) campus, at the mauka (upland) terminus of Lahainaluna Road. The WTP is secured with chainlink fencing and contains a one (1) million gallon (mg) water tank, a pre-sedimentation basin structure, and a treatment plant building. The communication facility will occupy an area of approximately 30-feet by 45-feet, or around 1,400 square feet within the fenced area of the existing 1.0 mg WTP reservoir. This would place the project site over 450 feet west of the fence along the boundary of the WTP closest to the school, 800 feet from the dormitory building, and 1,000 feet from the closest school building, ensuring that the operation of the communication facility does not conflict with the school's facility.

The project area is just south of Kanaha Gulch and is surrounded by vacant agricultural lands to the north, east, and south. Lahainaluna Intermediate School and Princess Nāhi'ena'ena Elementary School are located to the west, mauka of the Kelaweā Mauka residential area. Refer to **Figure 2**.

b. Potential Impacts and Proposed Mitigation Measures

The proposed action includes construction of a communications facility, comprised of a small single-story radio equipment building, approximately 264 square feet in area, and a self-supported communication tower, approximately 45 feet in height, within an existing County facility. The project is not anticipated to have an adverse impact on the WTP operations or the other surrounding land uses.

2. Climate

a. Existing Conditions

Like most areas of Hawai‘i, Lāhainā’s climate is relatively uniform year-round. Lāhainā’s tropical latitude, its position relative to storm tracts and the Pacific anticyclone, and the surrounding ocean combine to produce this stable climate. Variations in climate among different regions on Maui are, therefore, dictated by the inherent characteristics of local terrain.

Average daily temperatures in Lāhainā typically range between 66 degrees and 85 degrees Fahrenheit. August is generally the warmest month, while February is the coolest (County of Maui, OED, 2014).

Rainfall in West Maui is highly seasonal in nature, with most precipitation occurring between the months of November and April when winter storms hit the area. Situated on the leeward side of the West Maui Mountains, this relatively dry region receives most of its rainfall in late afternoon and early evening, after seabreezes take moisture upslope during the day. Average annual rainfall amounts to just under 15 inches. Precipitation data collected at the Kapalua-West Maui Airport station show that on average, January is the wettest month with 3.15 inches of rain, while June is the driest, with just 0.8 inch (County of Maui, OED, 2014).

The winds in the Lāhainā area are predominantly northeasterly tradewinds with occasional Kona (southerly) winds. Wind patterns also vary on a daily basis, with tradewinds generally being stronger in the afternoon. During the day, winds blow onshore toward the warmer land mass. This process reverses in the evening when breezes blow toward the relatively warm ocean.

b. Potential Impacts and Proposed Mitigation Measures

The proposed project is limited to construction of a communications facility and is not anticipated to impact the local climate. The facility will be designed to withstand exposure to severe weather. As noted previously, the equipment building will have 8-inch thick reinforced concrete masonry unit walls, a cast-in-place concrete roof, and concrete slab floors to protect the contained sensitive equipment from the elements. Specifications require the building, tower, and antennas to remain operational at wind speeds of up to 110 miles per hour (mph) and the

facilities to survive wind speeds of up to 155 mph. Wind speeds of 110 mph are the highest sustained winds expected in a Saffir-Simpson Category 2 hurricane. Wind speeds of 155 mph are the highest reached in a Saffir-Simpson Category 4 hurricane. An integrated approach will be taken to protect the entire facility from damage caused by lightning strikes.

3. Topography and Soil Characteristics

a. Existing Conditions

The proposed site is located within the existing DWS Lāhainā WTP site, approximately 800 feet above mean sea level (amsl).

Soils at the project site belong to the Waiakoa-Keahua-Molokaʻi Association. See **Figure 6**. The Waiakoa-Keauhua-Molokaʻi Association is characterized by material moderately deep, nearly level to moderately steep, well-drained soils that have a moderately fine textured subsoil. These soil types are typically used for sugar cane, pineapple, pasture, wildlife habitat and homesites. According to the NRCS Soil Survey (USDA, 1972), the soil type at the project site is predominantly of Lāhainā silty clay, 15 to 25 percent slopes (LaD). See **Figure 7**. LaD is of the Lāhainā Series, which consists of well-drained soils on uplands, characterized by material weathered from basic igneous rock, slope ranging from nearly level to steep, elevations ranging from 10 to 1,500 feet, and annual rainfall from 20 to 35 inches. On this soil, runoff is medium and the erosion hazard is moderate (USDA, 1972).

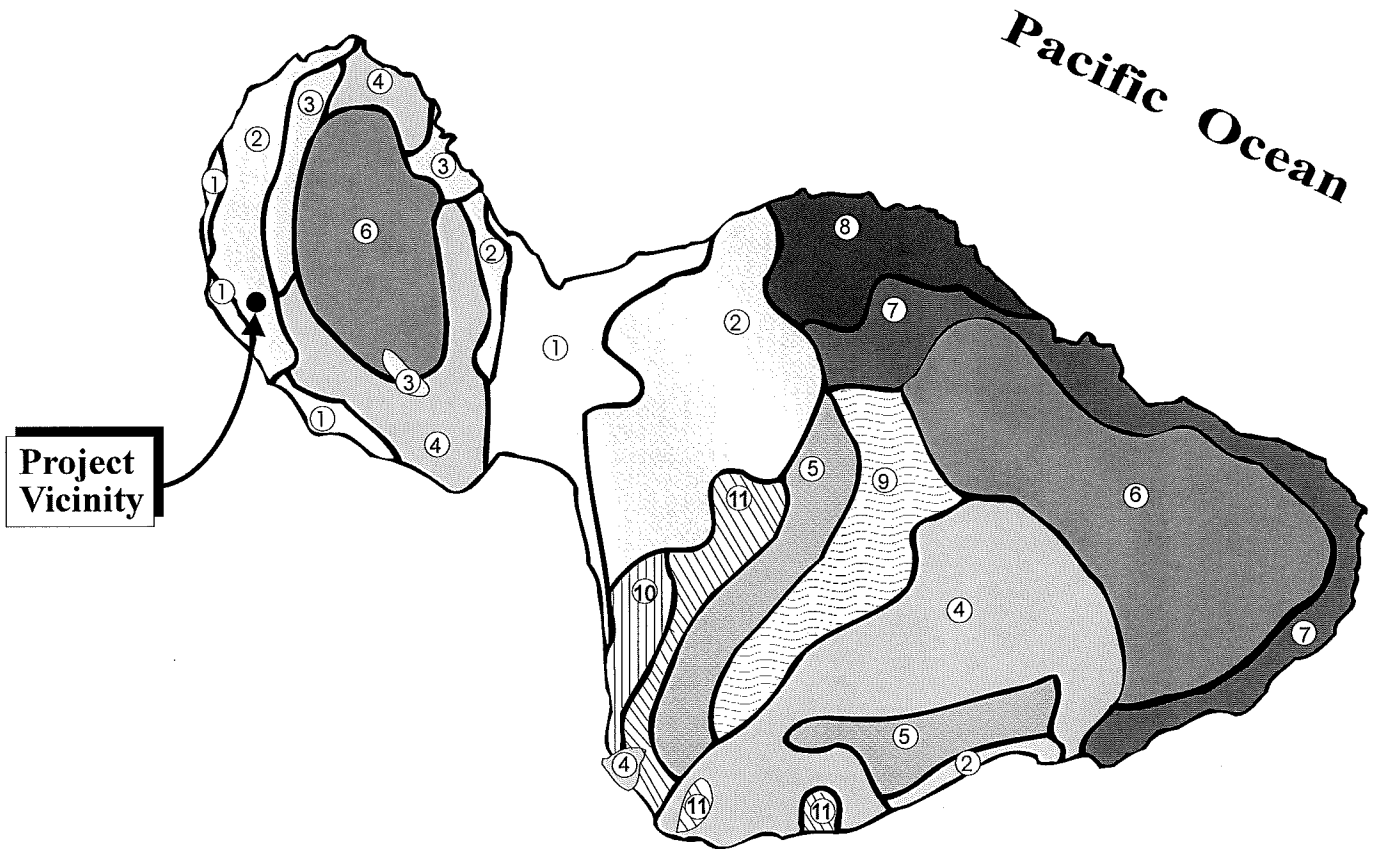
b. Potential Impacts and Proposed Mitigation Measures

The proposed project will occupy an area of approximately 1,400 square feet and is not anticipated to have any substantial adverse impacts on topography or soil conditions.

The construction plans and specifications for the project will include best management practices (BMPs) to minimize erosion on the project site during and after construction and will also include measures to contain runoff onsite during the construction period. Temporary erosion control

LEGEND

- | | |
|--|-------------------------------------|
| ① Pulehu-Ewa-Jaucas association | ⑦ Hana-Makaalae-Kailua association |
| ② Waiakoa-Keahua-Molokai association | ⑧ Pauwela-Haiku association |
| ③ Honolua-Olelo association | ⑨ Laumaia-Kaipoi-Olinda association |
| ④ Rock land-Rough mountainous land association | ⑩ Keawakapu-Makena association |
| ⑤ Puu Pa-Kula-Pane association | ⑪ Kamaole-Oanapuka association |
| ⑥ Hydrandepts-Tropaquods association | |



Source: U.S. Department of Agriculture, Soil Conservation Service

Figure 6 Proposed Maui Police Department NOT TO SCALE
 Communications Facility at Lāhainā
 Water Treatment Plant
 Soil Association Map



Prepared for: County of Maui, Police Department

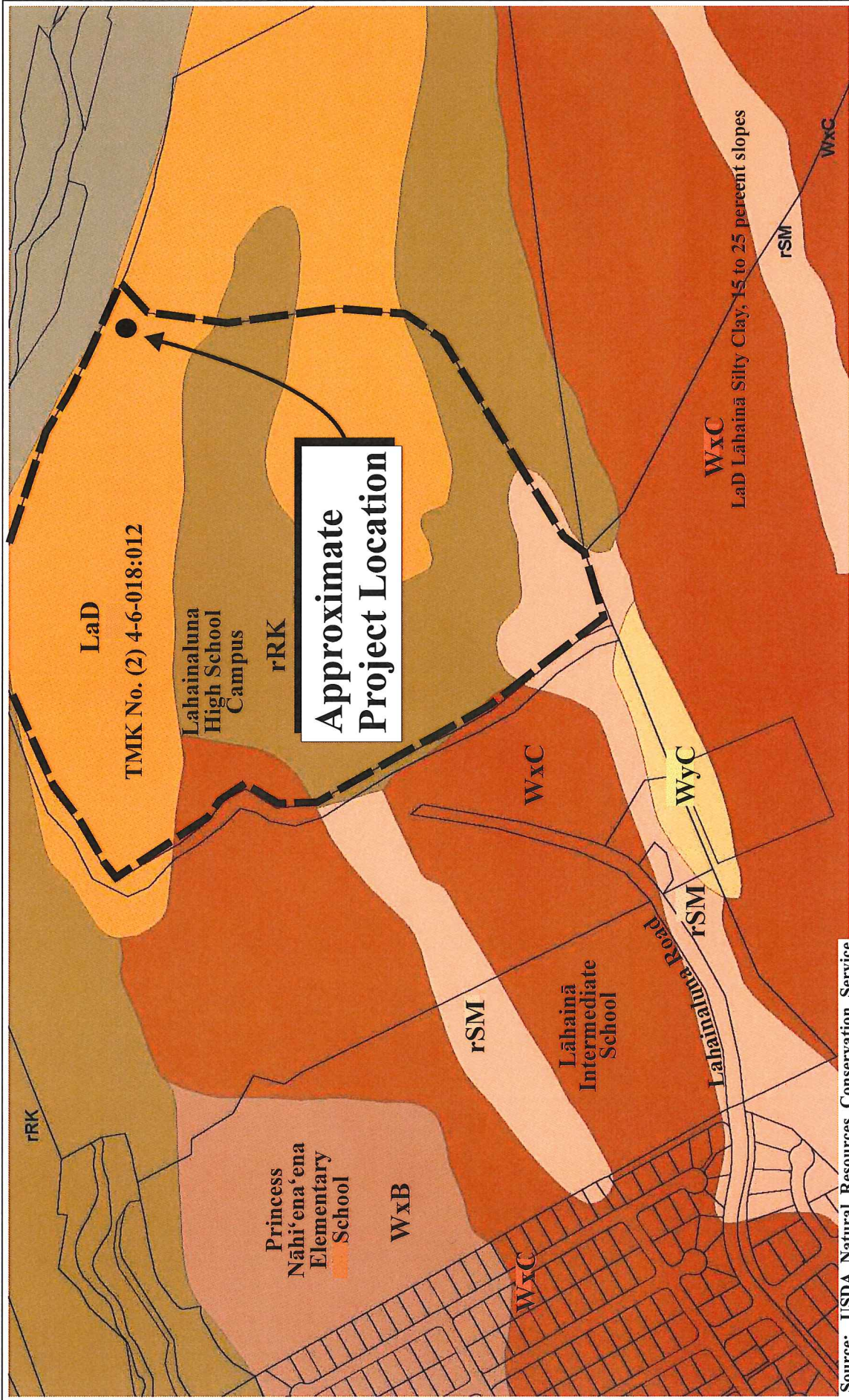


Figure 7 Proposed Maui Police Department Communications Facility at Lāhainā Water Treatment Plant Soil Classification Map



Prepared for: County of Maui, Police Department

WOC/Lahainaluna WTF 1841/SoilClassification

measures will be used during construction to prevent runoff to nearby areas, including placement of silt fences, filter socks, or silt barriers, as appropriate, to prevent surface runoff from construction areas entering into adjacent areas. These measures will contain surface flows within areas of construction during the construction period.

The design drawings will include water pollution and erosion notes related to erosion and sediment control practices for exposed area and use of materials in the work areas. The contract specifications will also include sections on Environmental Controls and Pollution Control which set forth the requirements to be implemented during construction to protect adjacent areas from runoff and discharge of pollutants.

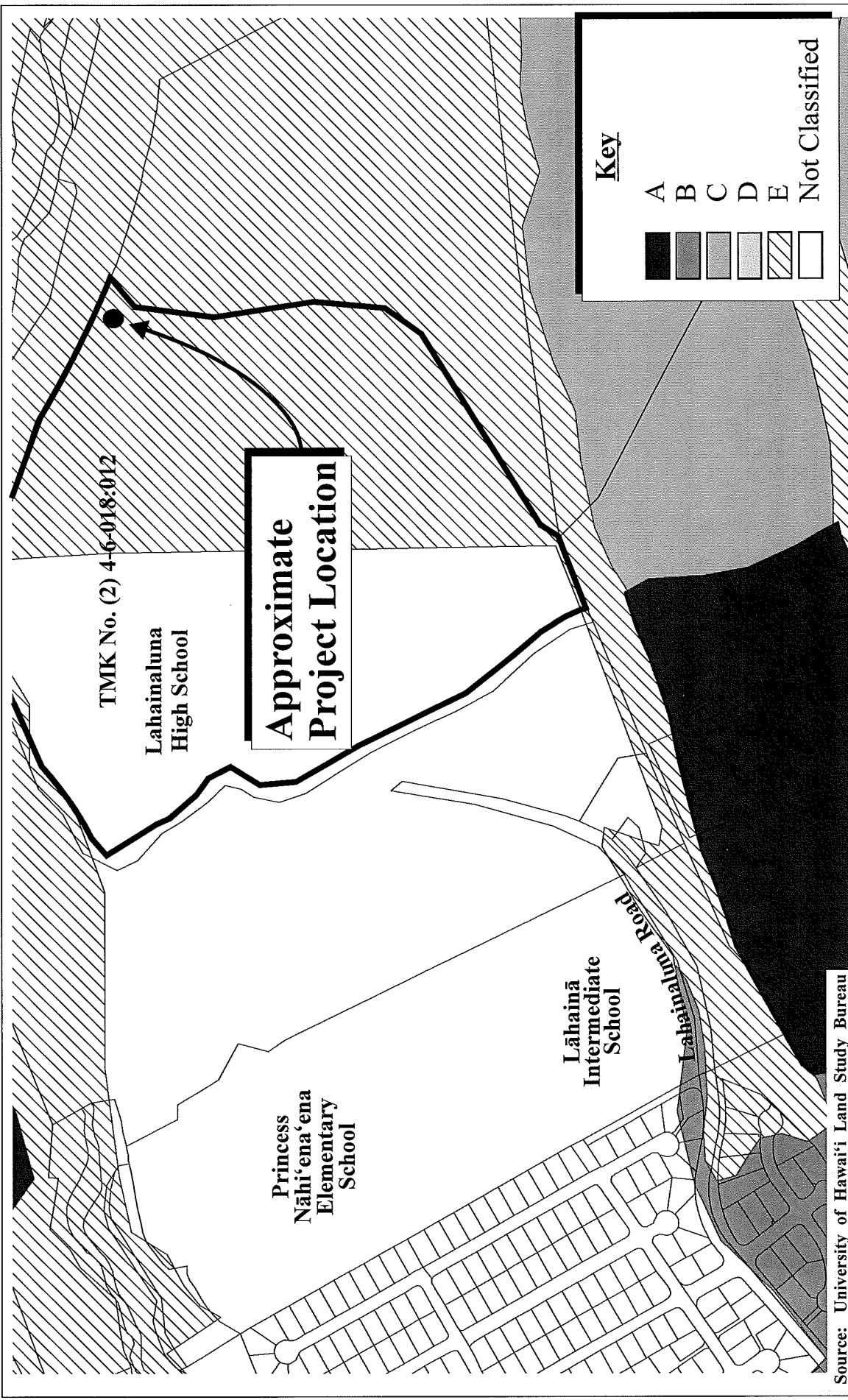
The project will comply with Hawai'i Administrative Rules (HAR), Chapters 11-54 and 11-55, as applicable, and discharges related to the project construction or operation activities will comply with the State's Water Quality Standards.

4. **Agricultural Productivity Considerations**

a. **Existing Conditions**

The lands underlying the subject property are located within the State "Agricultural" district. The coastal flatlands and plateaus of the West Maui Mountains are suitable for agricultural crop cultivation. Soils are dark reddish-brown, stony, well-drained, and deep in the areas north of Lāhainā, but stony in the areas south of Lāhainā. Slopes along the coastal flatlands are level, whereas slopes on the plateaus range from gentle to steeply sloping. These plateaus are typically separated by deep, steep-sided canyons.

With regard to agricultural productivity attributes, the University of Hawai'i Land Study Bureau (LSB) classifies lands with a productivity rating of "A" through "E", with "A" reflecting lands with the highest productivity and "E" the lowest. The lands underlying the project site are classified as "E". See **Figure 8**.



Source: University of Hawai'i Land Study Bureau

Figure 8 Proposed Maui Police Department Communications Facility at Lāhainā Water Treatment Plant
 Land Study Bureau Classification Map



Prepared for: County of Maui, Police Department

Additionally, the State Department of Agriculture has established three (3) categories of Agricultural Lands of Importance to the State of Hawai'i (ALISH). "Prime" lands are those lands which possess the soil quality, growing season, and moisture supply needed to produce high yields of crops economically and when treated and managed according to modern farming techniques. "Unique" lands have similar crop specific characteristics, while lands rated "Other" are not classified as "Prime" or "Unique", but are of Statewide or local agricultural importance. Lands not rated "Prime", "Unique" or "Other", are "Unclassified". "Unclassified" lands include developed urban land over 10 acres and lands utilized for public purposes, among others. According to the ALISH map, the lands underlying the project site include "Other" and "Unclassified" agricultural lands. See **Figure 9**.

b. Potential Impacts and Proposed Mitigation Measures

The proposed MPD communications facility would be located within a small portion of the secured area of the existing Lāhainā Water Treatment Plant. It would not impact the inventory of lands available for agricultural cultivation or use, as it is proposed within the boundaries of an existing County public facility.

5. Flood and Tsunami Hazards

a. Existing Conditions

The Federal Emergency Management Agency's (FEMA) Flood Insurance Rate Map (FIRM) indicates that the project site is located in Zone X, identified as areas of low flood risk and minimal flooding with no development restrictions. See **Figure 10**. Specifically, FEMA describes areas in Flood Zone X as follows:

Areas outside the 1-percent annual chance floodplain, areas of 1-percent annual chance sheet flow flooding where average depths are less than 1 foot, areas of 1-percent annual chance stream flooding where the contributing drainage area is less than 1 square mile, or areas protected from the 1-percent annual chance flood by levees. No Base Flood Elevations or depths are shown within this zone. Insurance purchase is not required in these zones.

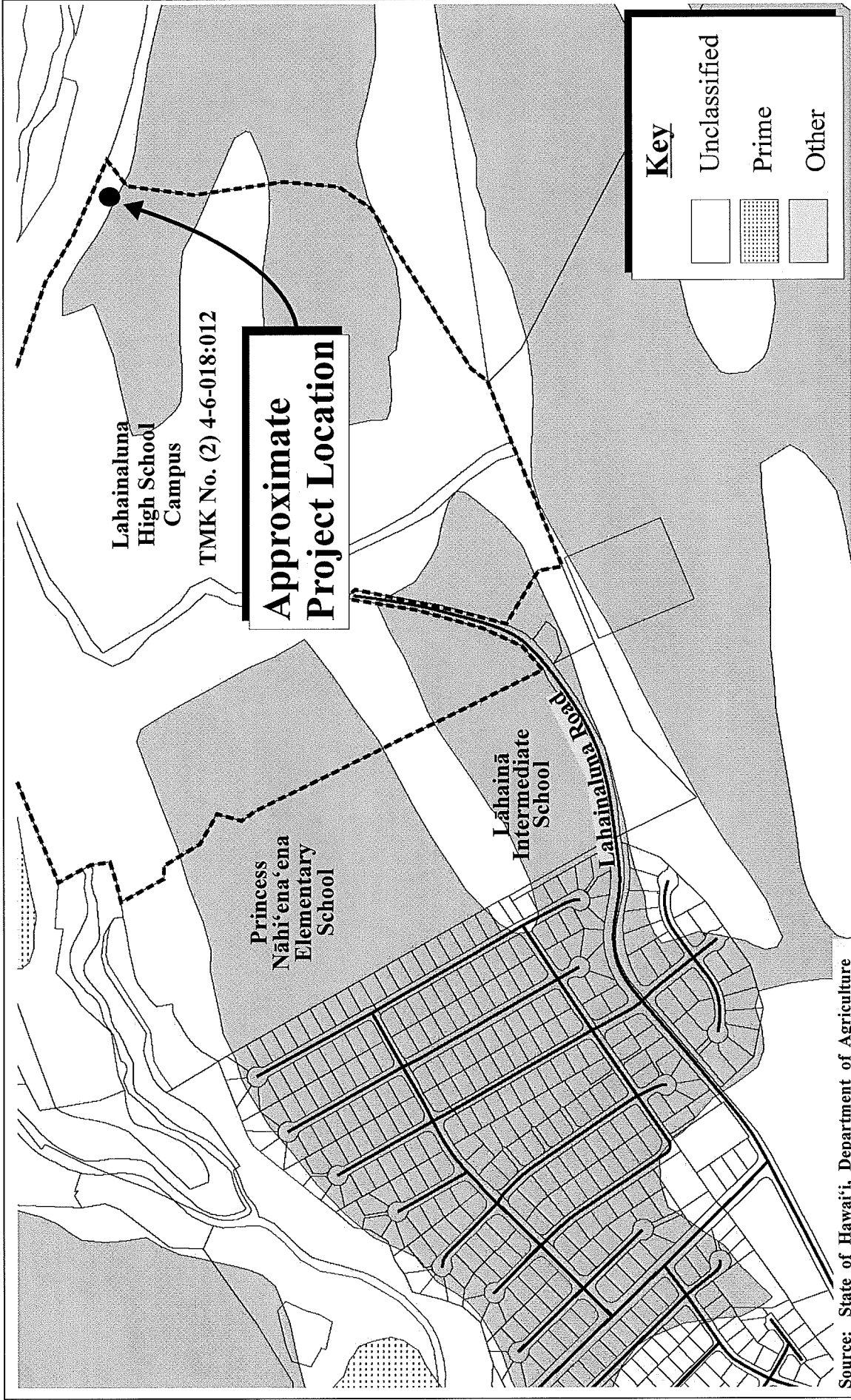


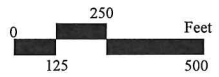
Figure 9 Proposed Maui Police Department Communications Facility at Lāhainā Water Treatment Plant
Agricultural Lands of Importance to the State of Hawai'i





Source: FEMA, Flood Insurance Rate Map, Community Panel No. 1500030362F, September 2012

Figure 10 Proposed Maui Police Department
 Communications Facility at Lāhainā
 Water Treatment Plant
 Flood Insurance Rate Map



Prepared for: County of Maui, Police Department

In addition, the project site is located outside of the tsunami inundation area.

b. Potential Impacts and Proposed Mitigation Measures

The proposed action is not located within a flood hazard district and there are no flood-related restrictions on development in Flood Zone X. Moreover, the project site is located outside of the tsunami inundation area and tsunami evacuation zone. Existing drainage conditions, which are in keeping with County of Maui design standards, will be maintained. No adverse impacts to flood conditions are anticipated as a result of the proposed project.

6. Flora and Fauna

a. Existing Conditions

The project site was previously developed as a school over 175 years ago, and more recently as the Lāhainā WTP. Surrounding lands were previously under sugar cane cultivation and now sit fallow.

Apart from built areas, the adjacent LHS campus contains landscaped and agricultural areas. Flora found in and around the project site consists of typical grasses and weeds. No trees or shrubs are found at the project site, which is likely due to previous sugar cane cultivation. Fauna found in the surrounding area are typical of the urbanized regions of West Maui. Domestic mammals such as dogs and cats can be found in the project vicinity.

Early consultation with the U. S. Fish and Wildlife Service (USFWS) indicates five (5) listed species in the vicinity of the project, including the endangered Hawaiian hawk (*Buteo solitarius*), Blackburn's sphinx moth (*Manduca blackburni*), Hawaiian hoary bat (*Lasiurus cinereus semotus*) and Hawaiian petrel (*Pterodroma phaeopygia sandwichensis*), and the threatened Newell's shearwater (*Puffinus auricularis newelli*). The USFWS also noted that while there is critical habitat upslope of the project site for several species of listed plants, it is unlikely that there is overlap with project development.

In June 2015, ABR Inc. conducted concurrent surveillance, vertical radar sampling, and audiovisual (AV) sampling to detect overflights of the

Hawaiian petrel and Newell's shearwater birds near the project site, which lies in the flight path of the Hawaiian petrel and Newell's shearwaters breeding sites in the West Maui mountains. The surveys covered ten (10) days during the evening periods from 7:00 p.m. to 10:00 p.m. and during morning period from 3:45 a.m. to 5:45 a.m., the peak activity periods for Hawaiian petrels and Newell's shearwaters. There were no AV observations of Hawaiian petrels or Newell's shearwaters, however, preliminary radar data indicates that Petrels or Shearwaters were observed flying over the project site during the survey periods. Over the ten (10) days of surveys, there were a total of three (3) petrel/shearwater targets observed flying in a landward direction (mauka, from the ocean toward potential breeding sites in the West Maui mountains) and a total of ten (10) targets observed heading seaward (makai, away from the potential breeding sites). See **Appendix "C"**.

Additionally, early consultation comments from the Department of Land and Natural Resources Division of Forestry and Wildlife (DOFAW) noted the occasional presence of Nēnē geese in the vicinity of the WTP.

b. Potential Impacts and Proposed Minimization Measures

The USFWS recommended the following minimization measures to avoid impacts to listed species:

Hawaiian Hoary Bat

The Hawaiian hoary bat is known to occur across a broad range of habitats throughout the State of Hawaii. This bat roosts in both exotic and native woody vegetation and, while foraging, leaves young unattended in "nursery" trees and shrubs. If trees or shrubs suitable for bat roosting are cleared during the Hawaiian hoary bat breeding season (June 1 to September 15), there is a risk that young bats that cannot yet fly on their own could inadvertently be harmed or killed. As a result, the Service recommends that woody plants greater than 15 feet tall should not be removed or trimmed during the Hawaiian hoary bat breeding season. Additionally, Hawaiian hoary bats forage for insects from as low as 3 feet to higher than 500 feet above the ground. When barbed wire is used in fencing, Hawaiian hoary bats can become entangled. The Service, therefore, recommends that barbed wire not be used for fencing as part of this proposed action.

Blackburn's sphinx moth

The Blackburn's sphinx moth could potentially be in the vicinity of the proposed project area. Adult moths feed on nectar from native plants, including beach morning glory (*Ipomoea pes-caprae*), iliee (*Plumbago zeylanica*), and maiapilo (*Capparis sandwichiana*); larvae feed upon non-native tree tobacco (*Nicotiana glauca*) and native aiea (*Nothocestrum latifolium*). To pupate, the larvae burrow into the soil and can remain in a state of torpor for up to a year (or more) before emerging from the soil. Soil disturbance can result in death of the pupae. The Service recommends that a qualified biologist survey areas of proposed construction activities for Blackburn's sphinx moth and its host plants prior to work initiation. They recommend that these surveys be conducted during the wettest portion of the year (usually November-April or several weeks after a significant rain) and immediately prior to construction. Surveys should include searches for eggs, larvae, and signs of larval feeding (chewed stems, frass, or leaf damage). Any host plants of Blackburn's sphinx moth identified should not be cut or disturbed.

Seabirds

Hawaiian petrels and Newell's shearwaters (collectively known as seabirds) may transit over the project area when flying between the ocean and upland breeding colonies. Many bird species are known to strike objects, such as antennas or guywires, protruding above surrounding vegetation. In Hawai'i, seabirds are attracted to lights and are known to collide with buildings, light poles, wires, and other tall objects. To minimize impacts to seabirds in Hawai'i, the service recommends minimizing the total surface area of the proposed tower and avoiding the use of guy wires. Any lights associated with the project should be cut-off, equipped with a motion sensor, or shielded so that the light cannot be seen from above. If the top of the tower must be lighted to meet Federal Aviation Administration (FAA) regulations, they recommend the use of a red flashing light versus the use of red or white solid light, if possible.

Nēnē Goose

Additionally, DOFAW was consulted on appropriate minimization measures to prevent negative impacts to Nēnē geese during project construction. DOFAW stated that their only concern is regarding

construction during the Nēnē nesting season, which can start as early as October and run through April. The construction documents for the project will state that construction shall not start during the Nēnē nesting season. However, once started, construction may continue as long as Nēnē are not present at the project site. The contract documents will also state that DOFAW should be notified if Nēnē enter the project site. Additionally, DOFAW requested to be involved in the preconstruction meeting to address any wildlife concerns or issues. To meet DOFAW's concerns, the contract documents will include the DOFAW contact telephone number.

Further, the required Federal Communications Commission (FCC) license is a trigger for the Endangered Species Act Section 7 review. USFWS stated that implementation of the above measures will minimize, but does not ensure that take of listed species will be fully avoided. USFWS recommended that the FCC or its designated representative consult with the USFWS to address potential project impacts with listed species. The Applicant has retained consultant Reginald David of Rana Biological Consulting, Inc. to assist with USFWS coordination and Section 7 consultation.

Applicable minimization measures recommended by the USFWS and DOFAW will be implemented for the project. Therefore, the proposed project is not anticipated to have a negative impact on flora, fauna, or avifauna of the area.

7. Streams, Wetlands, and Reservoirs

a. Existing Conditions

The project site is located within an existing developed area of the Lāhainā WTP, adjacent to the LHS campus. According to the United States Department of the Interior, Fish and Wildlife Service, National Wetland Inventory Map, there are no wetland features in close proximity to the project site, however, Kanaha Gulch is located immediately north of the project site. Kanaha Stream runs down the middle of Kanaha Gulch. There are no other inland water bodies in proximity to the project site.

b. **Potential Impacts and Proposed Mitigation Measures**

As stated above, there are no wetlands or ground reservoirs located in proximity to or downstream of the project site. The 1 mg concrete reservoir at the project site will not be impacted by the proposed action. Kanaha Stream runs down the middle of Kanaha Gulch at an elevation below 700 feet. See **Figure 11**. The project site is located approximately 330 feet south of Kanaha Stream and over 100 feet higher, at an elevation of approximately 800 feet. As mentioned previously, BMPs will be used to minimize erosion at the project site during and after construction. Therefore, the proposed action is not anticipated to have any adverse effects on natural inland water features in the West Maui region.

8. **Air Quality**

a. **Existing Conditions**

There are no point sources of airborne emissions in the immediate vicinity of the project site. Although minimal, airborne pollutants are largely attributable to vehicular exhaust from traffic along Lahainaluna Road. Windblown dust from fallow fields is another source of indirect emissions in the region. These sources, however, are intermittent and prevailing winds quickly disperse the particulates generated by these temporary sources. Overall, the air quality in the Lāhainā region is considered good.

b. **Potential Impacts and Proposed Mitigation Measures**

In the short term, construction related activities for the proposed project will be the primary source of airborne pollutants affecting the surrounding area. Appropriate BMPs will be utilized to minimize air quality impacts associated with project construction, such as regularly sprinkling the project site, installation of temporary silt screens, and covering of bare areas.

The proposed action is not anticipated to generate adverse long-term air quality impacts.

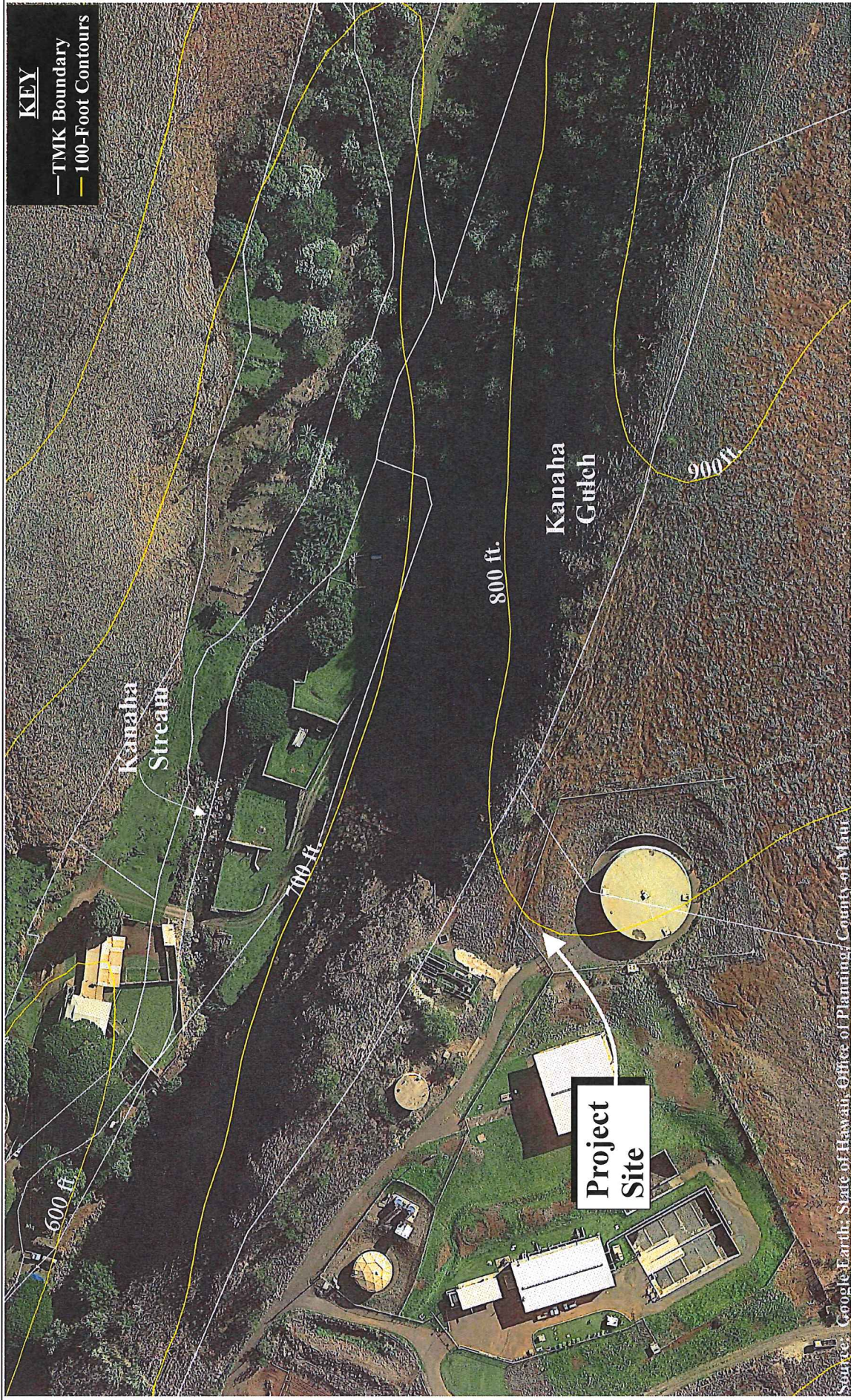


Figure 11 Proposed Maui Police Department Communications Facility at the Lahaina Water Treatment Plant
 Proximity to Kanaha Stream



Prepared for: Wilson Okamoto Corporation



9. **Noise Characteristics**

a. **Existing Conditions**

There are no fixed noise generators in the vicinity of the project site. Existing background noise levels are primarily attributed to WTP operations and school-related activities at LHS.

b. **Potential Impacts and Proposed Mitigation Measures**

Ambient noise conditions may be temporarily affected by construction activities. Heavy construction machinery operations are anticipated to be the dominant noise-generative sources during the construction period. Appropriate BMPs will be employed to mitigate noise impacts generated by construction machinery and operations. Once completed, the proposed project is not anticipated to adversely alter noise conditions in the area. The radio equipment, air conditioning system, and generator will not produce significant noise impacts. Also, the generator is located within the building which will mitigate noise from operation of the generator. Furthermore, Hawai'i Administrative Rules Title 11, Department of Health, Chapter 46, Community Noise Control, Section 11-46-5 exempts operation of emergency generators when installed and is used as required and necessary for the protection of public health and safety, provided best available control technology is implemented.

10. **Archaeological Resources**

a. **Existing Conditions**

As previously mentioned, the proposed project is located within the secured area of the Lāhainā WTP, which was completed in 1997. An Archaeological Inventory Survey (AIS) was completed as part of the Environmental Impact Statement (EIS) for the WTP in August 1991. The AIS stated that the site had been extensively disturbed for ranching and other uses by LHS and did not recommend further archaeological work or monitoring for the project.

An Archaeological Field Inspection of the project area was completed for the subject project by Scientific Consultants Inc. (SCS) in April 2015. See **Appendix "B"**. No historic properties or areas thought to potentially contain subsurface cultural materials were identified at the project site.

b. Potential Impacts and Proposed Mitigation Measures

The Archaeological Field Inspection on April 30, 2015 did not identify any surface materials or areas thought to potentially contain subsurface cultural materials. Refer to **Appendix “B”**. Previous uses, including ranching and water storage, have likely disturbed any previously existing sites or surface deposits. Therefore, the Archaeological Field Inspection concluded that the proposed project will not impact any archaeological sites or features.

Given the extensively disturbed condition of the project area, archaeological monitoring is not recommended during construction activities for the project. However, should the inadvertent discovery of significant cultural materials and/or burials occur during construction, all work in the immediate area of the find shall cease and State Historic Preservation Division (SHPD) will be notified.

Furthermore, the required FCC license to operate the communications facility is a trigger for the National Historic Preservation Act Section 106 review. As such, consultation with applicable agencies will be undertaken as appropriate.

11. Cultural Resources

a. Existing Conditions

The Lāhainā District was considered to be a favorable place by high chiefs because of its natural resource qualities and proximity to Lāna‘i and Moloka‘i. Initial development of agricultural field systems likely occurred early in the Expansion Period, between AD 1200 and 1400. While onshore and offshore fishponds yielded abundant seafood, fertile alluvial terraces and dry land cultivation produced coconut, breadfruit, banana, taro, sweet potato, sugar cane, and other nutritious crops. Trails running mauka to makai fortified both social and economic linkages between mountain and coastal villages. In addition, the alanui or “King’s trail” built by Kihapi‘ilani stretched along the coast, connecting all major settlements between Lāhainā and Makena (McGerty and Spear, 2008).

European explorers and traders began to frequent the Lāhainā District in the late 1700s, spurring considerable transformations in the local landscape and economy. The islands of Maui, Moloka‘i, and Lāna‘i

encircle the ‘Au‘au Channel, providing for relatively calm waters and safe anchorage for ships. The ancient Hawaiian name for Lāhainā was Lele, which means “to leap” or “to disembark” as from a canoe. In pre-contact times, Lāhainā’s harbor was referred to as Keawaiki, “the small harbor” (Munekiyo & Hiraga, Inc., 2005). During the reign of Kamehameha I, Lāhainā thrived as a center for the lucrative and prospering sandalwood trade (McGerty and Spear, 2008). The whaling industry then boomed in the 1800s, and Lāhainā grew into a bustling port town, known worldwide as the whaling capital of the Pacific.

As the whaling industry began to decline, a new populace arrived, heralding the establishment of a new agriculturally-based economy. From the mid-1800s, traditional subsistence agriculture succumbed to commercial agricultural operations, namely sugar plantations. Over the years, a number of smaller mills coalesced into the hugely successful Pioneer Mill Company. By the early 1900s, Pioneer Mill cultivated an estimated 15,000 acres of sugar, blanketing the mountain slopes from Ukumehame to Honokōwai. During this time, pineapple was also established as a profitable crop, and the fruit was cultivated on lands stretching from Honokōwai to Honokōhau.

Lāhainā has played a significant role in the historical and political evolution of Hawai‘i. As the sandalwood trade flourished, Lāhainā became an important commercial shipping port, establishing ties with China and Russia. Upon uniting the Hawaiian islands under his rule, Kamehameha I established Lāhainā as his residence and seat of Hawaiian government. Lāhainā would remain the capital of the Hawaiian Kingdom until 1843, meanwhile serving as a major hub for the prospering whaling industry.

In order to obtain in-depth cultural perspectives of the proposed project area, interviews with two (2) knowledgeable informants were conducted during the preparation of the Draft Environmental Assessment.

Mr. James “Kimo” Falconer

Mr. James “Kimo” Falconer has lived and worked in West Maui since 1979. He is a native Hawaiian with strong ties to the agriculture industry and the local community. He is President of the Friends of Moku‘ula and the Hawai‘i Coffee Growers Association, and he is on the Board of Directors for the West Maui

Soil and Water Conservation District, Tri Isle Research Conservation and Development, West Maui Watershed Partnership, and the Hawai'i Coffee Association.

Kimo's mother was born and raised in Lāhainā, where her family has been for eight (8) generations. Although he was born and raised in California, Kimo spent summers with his grandparents in Lāhainā. He has strong memories of spending time at the beach and of his grandparents picking limu kohu in Puamana.

After college, he moved to Hawai'i to work in the sugar industry. He worked for Amfac Sugar on Kauai for four (4) years, and then in 1982, he began working for Pioneer Mill Sugar Company as an agronomist. Although they offered him plantation housing, he chose to live with his grandfather at his home in Lāhainā. While working for Pioneer Mill, Kimo got involved in coffee farming as well. He started researching coffee in 1988 and started planting coffee just south of the Māhinahina Water Treatment Plant through Pioneer Mill's Kā'anapali Estate Coffee in 1992. He stayed with Pioneer Mill through the shut-down of their sugar operations in 1999 and their coffee operations in 2001.

In 2003, he received an agricultural grant which allowed him to lease more than 500 acres of the old Kā'anapali Estate Coffee farm land. He recalls that in the beginning he could only cultivate a fraction of the land, because he had to do all the work himself. He started harvesting his coffee in 2005 and eventually purchased the coffee mill from Pioneer Mill. This was the beginning of Maui Grown Coffee. After five (5) years of stewarding the land, Kimo entered into a partnership with the land owners. They subdivided 5-acre lots and developed a turnkey agricultural subdivision for other farmers.

Kimo shares that the West Maui Community used to be very focused on agriculture and notes two (2) changes to the water system that were devastating to the agriculture industry. He explains that the Māhinahina Water Treatment Plant was developed at its current location because of all the water that would flow through that area. He recalls that there used to be a camp or house just north of the large reservoir at Māhinahina for the person working at the gauging station, which measured the amount of water flowing per day. Instead of collecting a portion of the available water to treat, the Māhinahina Water Treatment Plant's system temporarily collected all of the water by diverting all of the ditch flow, therefore, cutting off the water supply for agriculture. The other significant change Kimo mentions that impacted agriculture was the decommissioning of Crater and

Wahikuli Reservoirs, which were formerly used for ag water storage. He explains that this was actually a critical part of the agricultural water system, because when it didn't rain enough, water from these reservoirs could be used to replenish the aquifer. He notes that Māhinahina Reservoir is now used to store treated water for irrigation, but the current water system is not as effective as the original water system that was put in place for agriculture generations ago.

Kimo is not aware of existing problems in the area and does not foresee any issues with the proposed project. Other than the former agricultural significance of the project area, he is not aware of any cultural use or concerns that should be considered at the project site.

Mr. Neal Fujiwara

Mr. Neal Fujiwara was born and raised in Lāhainā with his three (3) sisters and two (2) brothers. His father was a carpenter superintendent at Pioneer Mill, and his mother was a housewife. His grandfather also worked for Pioneer Mill. His younger brother now lives in their family home where he grew up on Lahainaluna Road above the mill.

After graduating from LHS, Mr. Fujiwara went away for college, but returned to Maui for about two (2) years after college. He worked for Pioneer Mill for around six (6) months before moving to Moloka'i and later to Kauai while working for the Soil Conservation Service, now known as the United States Department of Agricultural Natural Resources Conservation Service (NRCS). Mr. Fujiwara finally returned to Maui in 1990, where he worked another 15 years or so with the NRCS on Maui and retired in 2004. He currently resides in Wailuku with his wife, who is a Registered Nurse. They have four (4) children.

While pointing out the project site on a map, I commented on the beautiful view of Kanaha Gulch off the cliff near the project site. Mr. Fujiwara says he remembers walking up Kahoma Gulch as a kid with his friends. He also has strong memories about LHS. He notes that the school is historic because of their boarding program. He explains that the school was also a farm, with a dairy, piggery, poultry farm, and gardens. He notes that the location of the Lahaina WTP was previously used for grazing. The school specialized in agriculture, and supported vocational programs with its carpenter shop, machine shop, and auto shop. It would take in around 120 boarding students every year, and they would help maintain the farm operations.

Since Mr. Fujiwara grew up in the vicinity of the project area and did a significant amount of work involving West Maui agricultural lands with the NRCS, I ask if he foresees any potential issues that might arise with the project site. The only potential issue he can think of relates to the steep areas, surrounding the project site. Issues with runoff or erosion would need to be considered. Mr. Fujiwara is not aware of any cultural practices that have been carried out in the vicinity of the project area or any cultural concerns that could arise, since the land has been used for a water treatment facility for so long, and agriculture before that.

b. Potential Impacts and Proposed Mitigation Measures

Since 1997, the proposed project area has been used for the Lāhainā WTP. Prior to that, the area was used for ranching and other uses by LHS. The Cultural Impact Assessment interviews revealed no indications of cultural practices, such as gathering, access, or religious traditions, known to be associated with the existing Lāhainā WTP. Therefore, no adverse impacts to cultural resources, practices, and traditions are anticipated as a result of the proposed project.

12. Scenic and Open Space Resources

a. Existing Conditions

The project site is located east of the LHS campus on the adjacent Lāhainā WTP. The project site is not part of a scenic corridor. Scenic resources in the vicinity include the West Maui Mountains to the east, as well as the Pacific Ocean and the offshore islands of Kahoolawe, Lāna‘i, and Moloka‘i, all of which can be seen off to the west. Other open space resources in the region include the vast expanse of former agricultural lands covering the mountain slopes surrounding the project area.

b. Potential Impacts and Proposed Mitigation Measures

The proposed action involves construction of a communications facility, comprised of a small single-story radio equipment building, approximately 264 square feet in area, and a self-supported communication tower, approximately 45 feet in height with three (3) 4-foot solid microwave antennas and a 5-foot lightning rod. The project site is within an existing County facility and not part of a scenic corridor. Southeast of the project area, next to the LHS football stadium, Maui Electric Company, Ltd.

(MECO) has a transfer station with an existing communications tower. Refer to **Figure 2**. The existing WTP, where the proposed communication facility would be located, has an existing 1 mg water tank, approximately 22.5 feet high; a sedimentation basin structure to the west, approximately 30 feet high from the base of the tank to the roof of the structure; and 35- to 38-foot high utility poles along the DWS access road. See **Figure 12**. Therefore, given the other structures in the vicinity of the project site, the proposed project is not anticipated to have an adverse impact on the visual character of the area.

B. SOCIO-ECONOMIC CONDITIONS

1. Land Use and Community Character

a. Existing Conditions

The majority of lands in West Maui are classified “Conservation” or “Agricultural” by the State Land Use Commission. Generally, higher elevations are deemed “Conservation” lands, while foothills of the middle elevations are designated “Agricultural”. Much of the lower elevations, lands running along the coast, the project site, and surrounding residential areas are classified “Urban”.

Lāhainā encompasses a diverse mix of land uses, including residential, business, light industrial, recreational, and agricultural uses. Lāhainā Town is the commercial center of West Maui, and the former first capital of the State of Hawai‘i. Moreover, as the former whaling capital of the Pacific, Lāhainā Town has been designated a National Historic Landmark District. The town contains several shopping centers and business retail areas, serving as a core for the region’s residential communities.

With a consistently warm, dry climate complemented by lengths of white sand beaches and scenic landscapes, West Maui is a popular visitor destination. A vast number of visitor accommodations are located in Lāhainā Town, as well as in the resort communities of Ka’anapali, Kapalua, Kahana, and Napili. The Kapalua-West Maui Airport at Māhinahina, located approximately 4.8 miles north of the project site, provides commuter air services which conveniently link West Maui with Oahu and neighbor islands.



Southeast view of 1 mg water tank and sedimentation basin



East View of 1 mg water tank



West view of sedimentation basin



Northwest view of utility poles along DWS access road

Source: Munekiyo Hiraga

Figure 12

Proposed Maui Police Department Communications Facility
at Lāhainā Water Treatment Plant
Site Photographs

NOT TO SCALE

Since the closure of its sugar cane operations in September 1999, Pioneer Mill Company has set aside approximately 1,200 acres of former agricultural lands in Kā'anapali to grow seed corn and coffee. Meanwhile, former Maui Land & Pineapple Company fields span the mountain lowlands of Kapalua.

Adjacent to the project site are LHS, Lahainaluna Intermediate School, and Princess Nāhi'ena'ena Elementary School. Below these public schools are residential neighborhoods, with the urban core of Lāhainā Town located on the makai (seaward) side of Honoapi'ilani Highway.

b. Potential Impacts and Proposed Mitigation Measures

As previously described, the project site is situated mauka (upland) of the schools and residential area of Lāhainā Town, while the master planned resort communities of Kā'anapali and Kapalua are located further north of Lāhainā.

The proposed project is not anticipated to adversely alter the community character of West Maui. In fact, the proposed MPD communication facility is anticipated to improve safety for the West Maui community as a whole, as it will improve the reliability of emergency communication systems in the area.

2. Population and Demography

a. Existing Conditions

The project site is located within the West Maui Community Plan region mauka of Honoapi'ilani Highway, at the end of Lahainaluna Road overlooking Lāhainā Town.

The County of Maui, the Island of Maui, and the West Maui region have exhibited relatively strong growth over the past decade. In 2013, the population of Maui County was 160,880, compared to a 2003 population of about 137,596 (County of Maui, OED, 2014). According to U.S. Census Bureau, the resident population of Maui County was estimated at 163,019 residents in 2014 (U.S. Census Bureau, 2015). Just as the County's population has grown, the resident population of the Island of Maui has also increased.

West Maui's growth over the last decade has kept pace with that of Maui County. Since 2000, West Maui has seen an increase in resident population growing from about 18,000 persons in 2000 to about 22,200 in 2010 (U.S. Census Bureau, 2010).

b. Potential Impacts and Proposed Mitigation Measures

The proposed action involves construction of a communications facility for the MPD. The proposed project is not a population generator, and as such, is not anticipated to adversely impact population or demographic trends of the West Maui region.

3. Economy

a. Existing Conditions

Maui's economy is heavily reliant upon the visitor industry, and this dependency is especially evident in West Maui, a major resort destination area. Non-seasonally adjusted unemployment rates for Maui County and the Island of Maui in November 2015 were 3.4 percent and 3.2 percent, respectively. These rates both decreased from the November 2014 unemployment rates of 4.2 percent and 3.9 percent, respectively (State of Hawai'i, DLIR, December 2015).

b. Potential Impacts and Proposed Mitigation Measures

In the short term, the project will support construction and construction-related employment. This project is, therefore, anticipated to positively contribute to labor conditions in the West Maui region. There are no long-term effects on the employment or economic conditions attributable to the proposed project.

C. PUBLIC SERVICES AND FACILITIES

1. Police and Fire Protection Services

a. Existing Conditions

The project site is within the service area of the MPD Lāhainā patrol district, which services the West Maui region. Built in the early 1970's, the Lāhainā Police Station is located in the Lāhainā Civic Center (LCC) complex, approximately 2.1 miles northwest of the project site. The

Lāhainā patrol district includes management level officers, field police officers, and additional personnel, which consists of public safety aides and administrative support staff (MPD, 2015).

Fire prevention, suppression, and protection services for the West Maui region are provided by the County Department of Fire and Public Safety's Lāhainā and Napili Fire Stations. The Lāhainā Fire Station is located approximately 2.2 miles northwest of the project site at the LCC, while the Napili Fire Station is located approximately 6.5 miles further north. The Lāhainā Fire Station includes an engine and a ladder company. It also has a boat for ocean rescues.

b. Potential Impacts and Proposed Mitigation Measures

In the event of a fire and/or discharge of either fire suppression system, assistance from the County of Maui Department of Fire and Public Safety will be needed to safely enter the equipment building.

The proposed action involves the construction of a new communications facility for the MPD. Therefore, the proposed project is anticipated to improve reliability of police and related emergency services in the area. No adverse impacts to police and fire protection services are anticipated as a result of the proposed project.

2. Medical Facilities

a. Existing Conditions

Maui Memorial Medical Center serves as the island's only major medical facility. Located in Wailuku, approximately 30 miles southeast of Lāhainā, the 214-bed facility provides general, acute, and emergency care services for the island's residents and visitors. In addition, the Kaiser Permanente Medical Clinic, West Maui Healthcare Center, Maui Medical Group, Lāhainā Physicians, and other private medical and dental offices provide health care services for the region's residents and visitors.

b. Potential Impacts and Proposed Mitigation Measures

The proposed action involves the construction of a MPD communications facility for the Police Department. It will support the County's voice and data network serving West Maui, including transmissions for First

Responder emergency communications. The proposed project, therefore, is anticipated to have a positive effect on medical services in the area. Medical and emergency response service limits will not require expansion as a result of the proposed project.

3. Recreational Facilities

a. Existing Conditions

West Maui has numerous recreational facilities offering diverse opportunities for the region's residents. These facilities include several County and State parks and beach parks in West Maui. Approximately one-third of the County parks are situated along the shoreline and offer excellent swimming, diving, and snorkeling areas. In addition, Kā'anapali and Kapalua Resorts operate world-class golf courses available for public use.

Recreational facilities in Lāhainā Town include the Lāhainā Aquatic Center, the West Maui Youth Center, the Lāhainā Recreation Center, and the LCC. The Lāhainā Aquatic Center contains an Olympic-size swimming pool, a children's wading pool, a paved parking lot and office and storage space, as well as shower, restroom, and changing room facilities. The 15-acre Waine'e Park includes fields, parking, and washroom facilities. The West Maui Youth Center has a building for youth activities, as well as paved parking, an outdoor playground, and a basketball court. The Lāhainā Recreation Center includes baseball fields and playfields for soccer and football, as well as restrooms and paved parking facilities. The LCC includes a gymnasium, amphitheater, and tennis courts complex, as well as restrooms and paved parking facilities.

Additionally, the ocean waters and well-developed reef system along the Lāhainā and Kā'anapali coastline offer many recreational opportunities for residents and visitors. Many tourism-based businesses also rely on the ocean for their operation. Fishing by shorecasting and netting is practiced in the ocean waters near Lāhainā Town, Kā'anapali Beach, Hanaka'ō'ō Point, and Honokōwai Point. Edible seaweed collecting, octopus fishing, and spearfishing occur on the adjacent reef flat fronting Kā'anapali. During periods of wave activity, the area is a good location for surfing.

b. Potential Impacts and Proposed Mitigation Measures

The proposed project involves construction of a MPD communications facility within a portion of an existing County facility. It is not anticipated to have an adverse impact on recreational facilities in the West Maui region.

4. Educational Facilities

a. Existing Conditions

The West Maui region is served by four (4) public schools (LHS, Lāhainā Intermediate School, Princess Nāhi‘ena‘ena Elementary School, and Kamehameha III Elementary School) operated by the State of Hawai‘i, Department of Education (DOE). Two (2) smaller private schools (Sacred Hearts School and Maui Preparatory Academy) also serve the region. All four (4) of the public schools are located within Lāhainā Town and three (3) of those schools are located along Lahainaluna Road, mauka of Honoapi‘ilani Highway. The enrollments in the four (4) public schools have grown in concert with the growth of residential development in the area. See **Table 1**.

Table 1. Actual and Projected Enrollments at Department of Education Schools

School	Capacity	Actual Enrollment	Projected Enrollment
		SY 14-15	SY 19-20
Lahainaluna High School	1,078	1,014	1,091
Lāhainā Intermediate	913	635	714
Kamehameha III Elementary	669	724	793
Princess Nāhi‘ena‘ena Elementary	685	724	788

Source: State of Hawai‘i, Department of Education, 2015.

The University of Hawai‘i Maui College (UHMC) which is located in Kahului, is a branch of the University of Hawai‘i (UH) system and the primary higher education institution serving Maui. A UHMC Lāhainā Education Center offers distance learning and non-credit personal development classes.

b. Potential Impacts and Proposed Mitigation Measures

The proposed project is not a population generator and, as such, is not anticipated to impact enrollments in educational facilities for the region. The communications facility allows UHMC to connect to the County's voice and data system, and, therefore, provides a benefit to the educational facility.

Project access is provided via Lahinaluna Road, mauka of the schools. The MPD intends to meet with the DOE Maui representatives prior to issuing construction documents to ensure that any DOE concerns are incorporated into the documents. Furthermore, vehicle access to the communication facility will be limited to the same routes currently used to access the Department of Water Supply facilities. The MPD and their selected contractor will work with the DOE to minimize interruptions to vehicle and pedestrian traffic at the schools during construction.

5. Solid Waste Collection and Disposal Services

a. Existing Conditions

Residential refuse collection is provided by the County's Department of Environmental Management, Solid Waste Division. Private refuse collectors provide solid waste disposal services for commercial and institutional accounts. With the exception of the Hana region, residential and commercial solid waste from throughout the island is transported to the Central Maui Landfill at Puunene.

A refuse transfer station located at Olowalu, approximately seven (7) miles south of the project site, accepts household and green wastes, as well as used oil, for transport to the Central Maui Landfill in Puunene. However, the disposal of commercial and institutional refuse is not permitted at the Olowalu transfer station.

b. Potential Impacts and Proposed Mitigation Measures

As applicable, a solid waste management plan will be developed for the disposal of materials resulting from construction activities.

Aside from the waste generated during the construction period, the proposed action will not require solid waste collection and disposal

capabilities and capacities. Therefore, no adverse impacts to solid waste collection and disposal services are required.

D. INFRASTRUCTURE

1. Roadway Infrastructure

a. Existing Conditions

Access to Lāhainā is provided by Honoapi‘ilani Highway from Central and South Maui. Extending from Wailuku to Kapalua, Honoapi‘ilani Highway is the only State highway serving the West Maui region. With the exception of a four-lane segment between Aholo Street and Lower Honoapi‘ilani Road, the typical highway section consists of two (2) lanes bordered by paved shoulders which also function as bike paths.

Access to the project site is via Lahainaluna Road. Lahainaluna Road is a 2-lane County road that serves as a main mauka-makai collector, providing access for residential and commercial areas and three (3) public schools. At its mauka terminus on the LHS campus, Lahainaluna Road turns into an unpaved Department of Water Supply (DWS) access road that runs along the south and east of LHS campus, up to the project site. This is the only access to the project site.

b. Potential Impacts and Proposed Mitigation Measures

The proposed communication facility is not a traffic generator. During construction, access to the project site will be via the existing DWS access road for the WTP. Construction access will be scheduled to avoid peak school traffic hours and will be coordinated with DWS and the DOE. No adverse impacts to roadways or school operations are anticipated as a result of the proposed project.

As previously discussed, once construction is completed, the only traffic generated by the project is for the monthly maintenance visits by the MPD and contractor personnel.

2. Water

a. Existing Conditions

The West Maui region is served by the County DWS domestic water system which services the coastal areas of West Maui from Launiupoko to Kā'anapali and from Honokōwai to Napili. The County's system includes two (2) surface and nine (9) groundwater sources.

The sources of water for Lāhainā are the Napili Wells 1, 2, and 3, and Honokōhau Well A. These wells are supplemented by the Lāhainā WTP on the subject property and the Māhinahina WTP above Honokōwai that draw surface water from the Kahana Valley and Honolulu Ditch, respectively. Several miles of 12- and 16-inch waterlines located in Lower Honoapi'ilani Road and two (2) in-line booster stations convey water from these sources to consumers in Lāhainā. Storage is provided by a 1.5 million gallon (mg) storage tank above Wahikuli and the 1.0 mg tank on Lahainaluna Road at the project site.

b. Potential Impacts and Proposed Mitigation Measures

The proposed project is not anticipated to generate new water demand. Additionally, the installation of the proposed communication facility is not anticipated to affect operations of the existing water treatment plant. Therefore, no adverse impacts to water services are anticipated as a result of the proposed project, either for potable or fire protection services. As previously discussed, fire protection for the facility will be provided via a clean agent system for the radio equipment room and CO₂ system for the generator room.

3. Wastewater Systems

a. Existing Conditions

The County Department of Environmental Management's Wastewater Reclamation Division provides sanitary sewer service for the West Maui region.

Wastewater from the Kā'anapali and Lāhainā areas is treated at the County's Lāhainā Wastewater Reclamation Facility (WWRF). The WWRF's potential total treatment capacity is 9.0 million gallons per day

(mgd), with 6.0 mgd for secondary treatment and 3.0 mgd for R-1 treatment. Presently, the facility treats about 5.4 mgd of wastewater. About 1.2 mgd of the R-1 treated effluent is used to irrigate the Kā'anapali Golf Courses, the landscaped areas along Honoapi'ilani Highway, the landscaped median of Kā'anapali Parkway, and landscaping at Honua Kai Resort. The remaining treated effluent (4.2 mgd) is disposed into four (4) injection wells located within the facility. Under the conditions of its Environmental Protection Agency (EPA) permit, the County is allowed to dispose a maximum flow of 6.7 mgd into the injection wells.

b. Potential Impacts and Proposed Mitigation Measures

The proposed project does not require wastewater services. Therefore, no adverse impacts to the County's existing wastewater system are anticipated.

4. Drainage

a. Existing Conditions

The existing DWS site slopes gently to the west, which helps direct flows away from existing structures. The soils underlying the project area are well-drained soils with medium runoff and moderate erosion hazard. Vegetation in the project area helps to minimize runoff and erosion across surfaces.

b. Potential Impacts and Proposed Mitigation Measures

In the context of the parcel underlying the proposed site, post-development stormwater runoff will be negligible. The areas of concrete pavement have been limited to the necessary widths for vehicular and maintenance access to the facility. The paved area will be slightly sloped to direct runoff to the gravel area. Existing drainage conditions, which are designed to meet County standards, will be maintained.

The construction plans and specifications for the project will include best management practices (BMPs) to minimize erosion on the project site during and after construction and will also include measures to contain runoff onsite during the construction period. Temporary erosion control measures will be used during construction to prevent runoff to nearby areas, including placement of silt fences, filter socks, and or silt barriers to

prevent surface runoff from construction areas entering into adjacent areas. These measures will contain surface flows within areas of construction during the construction period.

The design drawings include water pollution and erosion notes related to erosion and sediment control practices for exposed area and use of materials in the work areas. The contract specifications will also include sections on Environmental Controls and Pollution Control which set forth the requirements to be implemented during construction to protect adjacent areas from runoff and discharge of pollutants.

5. Electrical, Telephone, and Cable Television Systems

a. Existing Conditions

Electrical, telephone, and cable television services for the West Maui region are provided by MECO, Hawaiian Telcom, and Oceanic Time Warner Cable Company, respectively. These distribution systems, consisting of underground and overhead lines, are located along Lahainaluna Road.

b. Potential Impacts and Proposed Mitigation Measures

The proposed project will require connection to the existing electric and phone services at the WTP. An emergency generator is planned for the 264 sq. ft. equipment building. The proposed action is not anticipated to have a significant impact on existing electrical system.

There are no cable television improvements required for the project. As such, there are no anticipated impacts to those utility systems.

E. CUMULATIVE AND SECONDARY IMPACTS

The proposed action is limited to construction and operation of the MPD communication facility. While there are other MPD communication facility upgrades ongoing or proposed in other parts of the County, each of the other facilities are intended to create specific point-to-point communications linkages, which will broaden the field of communication coverage for the MPD and other first responders. Notwithstanding, the Lahainaluna communication facility is considered a stand-alone project which contributes to the overall coverage of the MPD's communications system.

In this context, the proposed action does not involve a commitment to larger actions, nor will it produce secondary impacts. The associated structures are proposed within an existing County facility, therefore, the proposed project will not impact the physical environment, socio-economic conditions, public services and facilities, or infrastructure. Additionally, the proposed project is not considered to be a population generator. Therefore, this action is not anticipated to have significant adverse cumulative or secondary impacts.

III. RELATIONSHIP TO LAND USE PLANS, POLICIES, AND CONTROLS

III. RELATIONSHIP TO LAND USE PLANS, POLICIES, AND CONTROLS

A. STATE LAND USE DISTRICTS

Chapter 205, Hawai‘i Revised Statutes (HRS), relating to the Land Use Commission, establishes four (4) major land use districts classifying all lands of the State of Hawai‘i. These districts are designated as “Urban”, “Rural”, “Agricultural”, and “Conservation”. The subject property is located within the “Agricultural” district. See **Figure 13**. Preliminary consultation with the State Land Use Commission has determined that the communications equipment buildings and wireless communication antennae are allowed in the State “Agricultural” District pursuant to HRS 205-4.5 (7) and (18), respectively.

B. HAWAI‘I STATE PLAN

Chapter 226, HRS, also known as the Hawai‘i State Plan, is a long-range comprehensive planning document which serves as a guide for the future long-term development of the State by identifying goals, objectives, policies, and priorities, as well as implementation mechanisms. The proposed Maui Police Department (MPD) communications facility is in accordance with the following goals of the Hawai‘i State Plan:

- A strong, viable economy, characterized by stability, diversity, and growth, that enables the fulfillment of the needs and expectations of Hawai‘i’s present and future generations.
- Physical, social and economic well-being for individuals and families in Hawai‘i that nourishes a sense of community responsibility, of caring and of participation in community life.

1. Objectives and Policies of the Hawai‘i State Plan

The proposed MPD communications facility is in conformance with the following objectives and policies of the Hawai‘i State Plan:

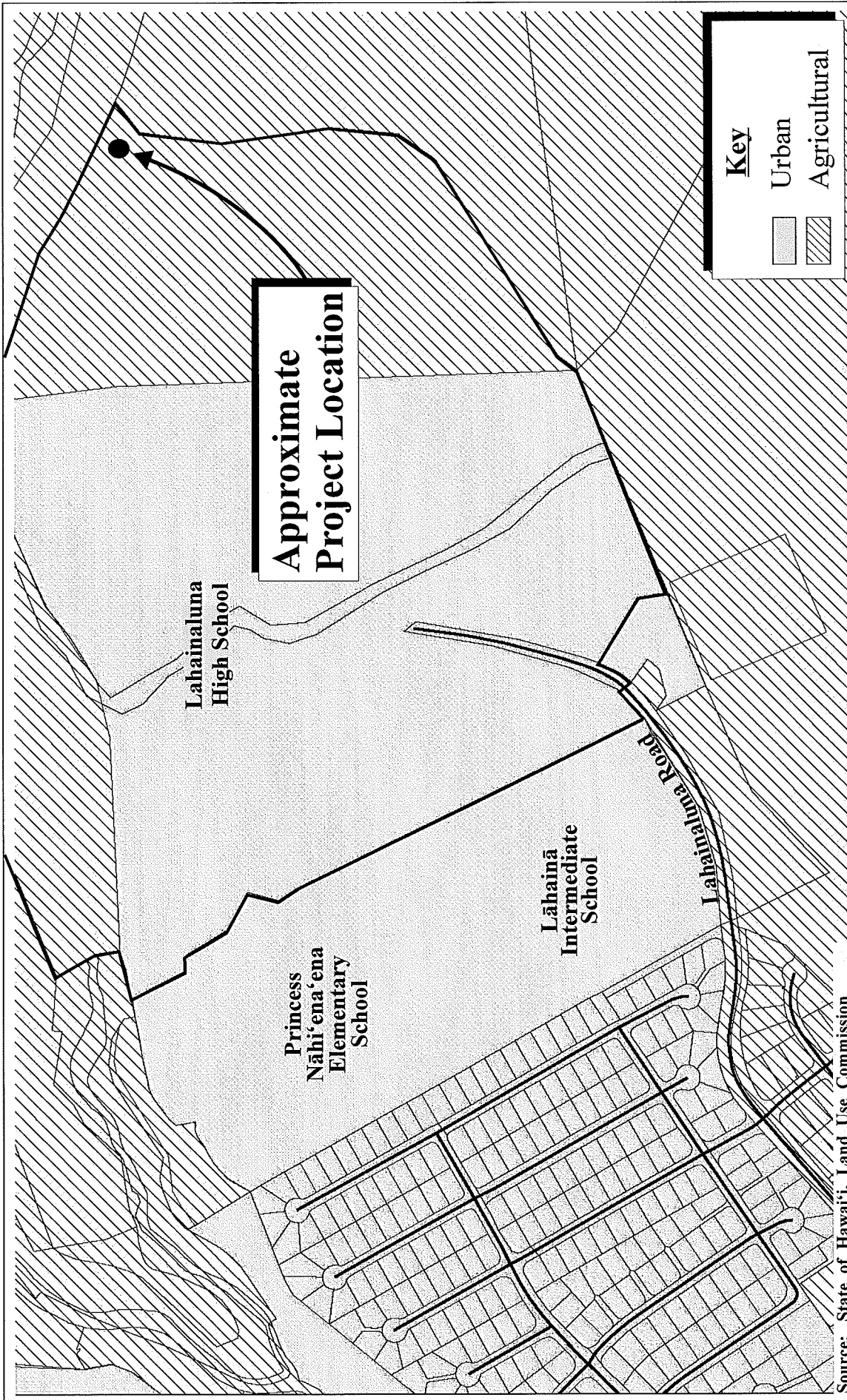


Figure 13 Proposed Maui Police Department Communications Facility at Lāhainā Water Treatment Plant
 State Land Use Districts



Prepared for: County of Maui, Police Department

**Chapter 226-10.5, HRS, Objectives and Policies for the Economy—
Information Industry**

226-10.5 (b)(1), HRS: Encourage the continued development and expansion of the telecommunications infrastructure serving Hawai‘i to accommodate future growth in the information industry;

226-10.5 (b)(3), HRS: Encourage greater cooperation between the public and private sectors in developing and maintaining a well- designed information industry;

**Chapter 226-11, HRS, Objectives and Policies for the Physical
Environment—Land-based, Shoreline and Marine Resources**

226-11 (a)(2), HRS: Effective protection of Hawai‘i’s unique and fragile environmental resources.

226-11 (b)(3), HRS: Take into account the physical attributes of areas when planning and designing activities and facilities.

226-11 (b)(4), HRS: Manage natural resources and environs to encourage their beneficial and multiple use without generating costly or irreparable environmental damage.

226-11(b)(8), HRS: Pursue compatible relationships among activities, facilities and natural resources.

**Chapter 226-13, HRS, Objectives and Policies for the Physical
Environment—Land, Air and Water Quality**

226-13(b)(2), HRS: Promote the proper management of Hawai‘i’s land and water resources.

226-13(b)(6), HRS: Encourage design and construction practices that enhance the physical qualities of Hawai‘i’s communities.

**Chapter 226-14, HRS, Objective and Policies for Facility Systems—in
General**

226-14 (b)(1), HRS: Accommodate the needs of Hawai‘i’s people through coordination of facility systems and capital improvement priorities in consonance with state and county plans.

226-14 (b)(2), HRS: Encourage flexibility in the design and development of facility systems to promote prudent use of resources and accommodate changing public demands and priorities.

226-14 (b)(3), HRS: Ensure that required facility systems can be supported within resource capacities and at reasonable cost to the user.

Chapter 226-18.5, HRS, Objectives and Policies for Facility Systems—Telecommunications

226-18.5 (c)(3), HRS: Encourage public and private sector efforts to develop means for adequate, ongoing telecommunications planning.

Chapter 226-20, HRS, Objectives and Policies for Socio-Cultural Advancement—Health

226-20 (a)(1), HRS: Fulfillment of basic individual health needs of the general public.

Chapter 226-24, HRS, Objective and Policies for Socio-Cultural Advancement—Individual Rights and Personal Well-Being

226-24 (b)(1), HRS: Provide effective services and activities that protect individuals from criminal acts and unfair practices and that alleviate the consequences of criminal acts in order to foster a safe and secure environment.

Chapter 226-26, HRS, Objectives and Policies for Socio-Cultural Advancement—Public Safety

226-26 (a)(1), HRS: Assurance of public safety and adequate protection of life and property for all people.

226-26 (a)(2), HRS: Optimum organizational readiness and capability in all phases of emergency management to maintain the strength, resources, and social and economic well-being of the community in the event of civil disruptions, wars, natural disasters, and other major disturbances.

226-26 (b)(1), HRS: Ensure that public safety programs are effective and responsive to community needs.

226-26 (d)(1), HRS: Ensure that responsible organizations are in a proper state of readiness to respond to major war-related, natural, or technological disasters and civil disturbances at all times.

226-26 (d)(2), HRS: Enhance the coordination between emergency management programs throughout the State.

Chapter 226-27, HRS, Objectives and Policies for Socio-Cultural Advancement—Government

226-7 (a)(1), HRS: Efficient, effective, and responsive government services at all levels in the State.

226-27 (b)(1), HRS: Provide for necessary public goods and services not assumed by the private sector.

226-27 (b)(2), HRS: Pursue an openness and responsiveness in government that permits the flow of public information, interaction, and response.

2. Priority Guidelines of the Hawai'i State Plan

The proposed action is in keeping with the following priority guidelines of the Hawai'i State Plan:

Chapter 226-103, HRS, Economic Priority Guidelines:

226-103 (b)(8), HRS: Support law enforcement activities that provide a safer environment for both visitors and residents alike.

Chapter 226-105, HRS, Crime and Criminal Justice

226-105 (1), HRS: Support law enforcement activities and other criminal justice efforts that are directed to provide a safer environment.

C. MAUI COUNTY GENERAL PLAN

As indicated by the Maui County Charter, the purpose of the Maui County General Plan shall be to:

... indicate desired population and physical development patterns for each island and region within the county; shall address the unique problems and needs of each island and region; shall explain opportunities and the social, economic, and environmental consequences related to potential

developments; and shall set forth the desired sequence, patterns and characteristics of future developments. The general plan shall identify objectives to be achieved, and priorities, policies, and implementing actions to be pursued with respect to population density; land use maps, land use regulations, transportation systems, public and community facility locations, water and sewage systems, visitor destinations, urban design, and other matters related to development.

Chapter 2.80B of the Maui County Code, relating to the General Plan and Community Plans, implements the foregoing Charter provision through enabling legislation which calls for a Countywide Policy Plan and a Maui Island Plan (MIP).

1. Countywide Policy Plan

The Countywide Policy Plan was adopted as Ordinance No. 3732 on March 24, 2010. With regard to the Countywide Policy Plan, Section 2.80B.030 of the Maui County Code states the following:

The countywide policy plan shall provide broad policies and objectives which portray the desired direction of the County's future. The countywide policy plan shall include:

- 1 A vision for the County;*
- 2 A statement of core themes or principles for the County; and*
- 3. A list of countywide objectives and policies for population, land use, the environment, the economy, and housing.*

Core principles set forth in the Countywide Policy Plan are listed as follows:

- 1. Excellence in the stewardship of the natural environment and cultural resources;*
- 2. Compassion for and understanding of others;*
- 3. Respect for diversity;*
- 4. Engagement and empowerment of Maui County residents;*
- 5. Honor for all cultural traditions and histories;*
- 6. Consideration of the contributions of past generations as well as the needs of future generations;*
- 7. Commitment to self-sufficiency;*

8. *Wisdom and balance in decision making;*
9. *Thoughtful, island appropriate innovation; and*
10. *Nurturance of the health and well-being of our families and our communities.*

Congruent with these core principles, the Countywide Policy Plan identifies goals objectives, policies and implementing actions for pertinent functional planning categories, which are identified as follows:

1. *Natural environment*
2. *Local cultures and traditions*
3. *Education*
4. *Social and healthcare services*
5. *Housing opportunities for residents*
6. *Local economy*
7. *Parks and public facilities*
8. *Transportation options*
9. *Physical infrastructure*
10. *Sustainable land use and growth management*
11. *Good governance*

With respect to the MPD communications facility and related improvements, the following goals, objectives, policies and implementing actions are illustrative of the project's compliance with the Countywide Policy Plan:

Improve Physical Infrastructure

Goal: *Maui County's physical infrastructure will be maintained in optimum condition and will provide for and effectively serve the needs of the County through clean and sustainable technologies.*

Objective:

- *Improve the planning and management of infrastructure systems.*

Policy:

- *Locate public facilities and emergency services in appropriate locations that support the health, safety, and welfare of each community and that minimize delivery inefficiencies.*

The proposed project will improve the voice and data network for governmental agencies and facilities in West Maui. In this regard, the proposed project is consistent with the themes and principles of the Countywide Policy Plan.

2. Maui Island Plan

The MIP is applicable to the Island of Maui only, providing more specific policy-based strategies for population, land use, transportation, public and community facilities, water and sewage systems, visitor destinations, urban design, and other matters related to future growth.

As provided by Chapter 2.80B, the MIP shall include the following components:

1. *An island-wide land use strategy, including a managed and directed growth plan*
2. *A water element assessing supply, demand and quality parameters*
3. *A nearshore ecosystem element assessing nearshore waters and requirements for preservation and restoration*
4. *An implementation program which addresses the County's 20-year capital improvement requirements, financial program for implementation, and action implementation schedule*
5. *Milestone indicators designed to measure implementation progress of the MIP*

The MIP addresses a number of planning categories with detailed policy analysis and recommendations which are framed in terms of goals, objectives, policies and implementing actions. These planning categories address the following areas:

1. *Population*
2. *Heritage Resources*
3. *Natural Hazards*

4. *Economic Development*
5. *Housing*
6. *Infrastructure and Public Facilities*
7. *Land Use*

Additionally, an essential element of the MIP is its directed growth plan which provides a management framework for future growth in a manner that is fiscally, environmentally, and culturally prudent. Among the directed growth management tools developed through the MIP process are maps delineating urban growth boundaries (UGB), small town boundaries (STB), and rural growth boundaries (RGB). The respective boundaries identify areas appropriate for future growth and their corresponding intent with respect to development character.

The MIP identifies West Maui as one of the fastest growing regions on the island. Therefore, it is important to ensure reliable communication systems for public services in the area. The location of the project site within the existing Lāhainā WTP is located within the UGB and is consistent with the directed growth strategy defined via the growth maps adopted in the MIP.

In addition, the proposed project is consistent with the following pertinent goals, objectives, and policies of the MIP:

Goal: *Maui will have adequate public facilities that meet the diverse needs of residents.*

Objective:

- *More effective planning for public facilities to meet community needs.*

Policies:

- *Adequately plan and fund public safety facilities (fire, police, ambulance, civil defense) to meet community needs.*
- *Increase joint facilities utilization and program coordination between State and County agencies such as baseyards, communication centers, recreational facilities, etc., where feasible.*

D. WEST MAUI COMMUNITY PLAN

There are nine (9) community plan regions within Maui County. From a General Plan implementation standpoint, each region is governed by a community plan which sets forth desired land use patterns, as well as goals, objectives, policies, and implementing actions for a number of functional areas.

The project site, located within the West Maui Community Plan region, is designated “Public/Quasi-Public”, and the proposed project is consistent with this community plan designation. See **Figure 14**. In addition, the proposed project is in keeping with, among others, the following goal, objectives, and policies of the West Maui Community Plan.

SOCIAL INFRASTRUCTURE

Goal

Develop and maintain an efficient and responsive system of public services which promotes a safe, healthy, and enjoyable lifestyle, and offers opportunities for self-improvement and community well-being.

Health and Public Safety Objectives and Policies

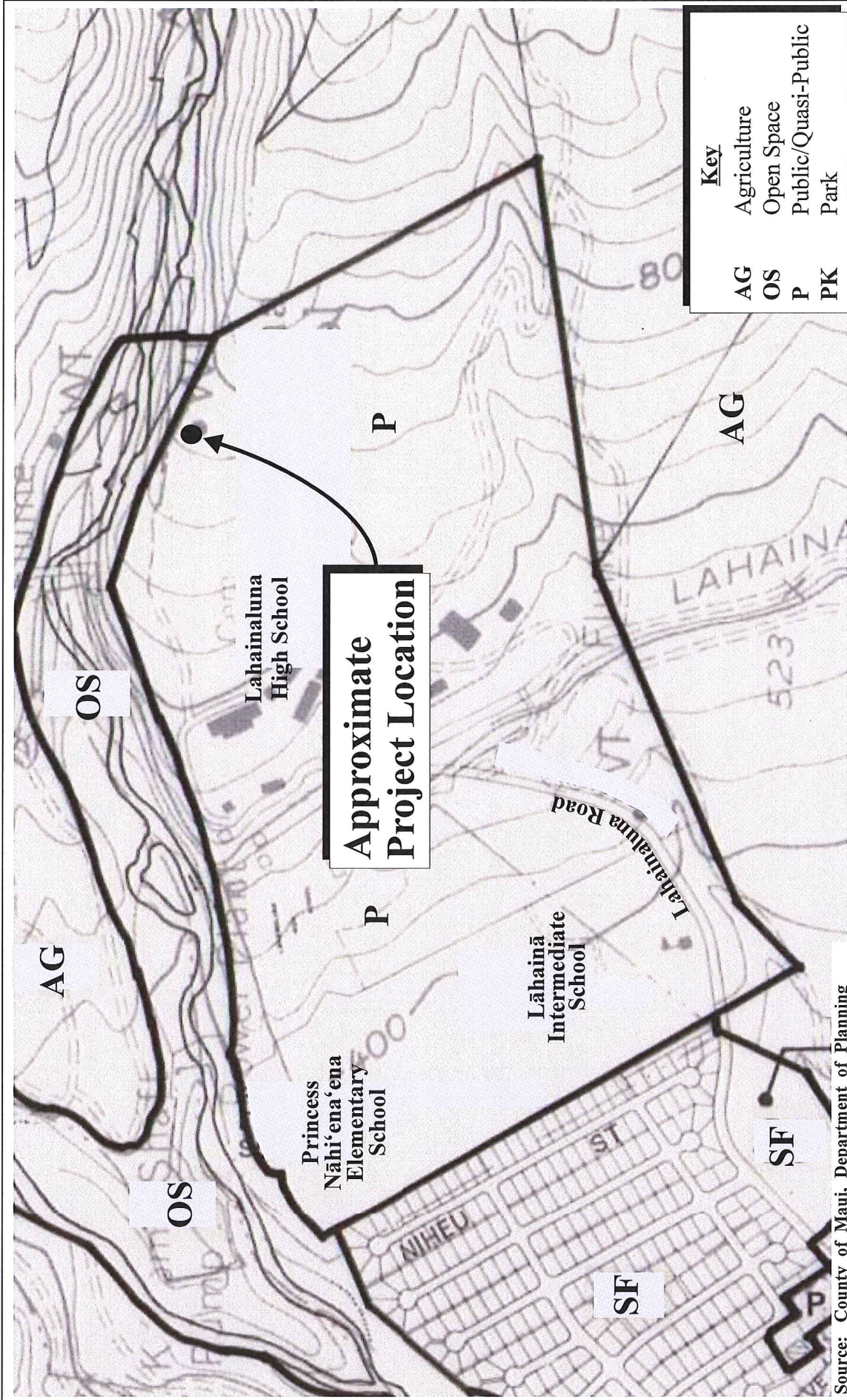
1. Support the appropriate level of police services in consideration of the region’s resident and visitor population.
4. Continue to increase the visibility of police services in the region.

As noted, the proposed project is in conformance with the health and public safety objectives and policies of the West Maui Community Plan. The proposed project will result in more reliable communications with MPD patrol officers, benefiting the West Maui region as a whole.

E. COUNTY ZONING

The lands underlying the project site is zoned “Interim” by Maui County zoning. The “Interim” zoning district was established in order to provide interim regulations pending the adoption of a comprehensive zoning ordinance and map in order:

1. To encourage the most appropriate use of land;
2. To conserve and stabilize the value of property;



Source: County of Maui, Department of Planning

Key	
AG	Agriculture
OS	Open Space
P	Public/Quasi-Public
PK	Park

Figure 14 Proposed Maui Police Department Communications Facility at Lāhainā Water Treatment Plant Community Plan Map



Prepared for: County of Maui, Police Department

3. To prevent certain uses that will be detrimental to existing uses;
4. To promote the health, safety, and the general welfare of the respective districts.

According to Maui County Code Section 19.02A.030, the construction of new public/quasi-public facilities owned or operated by governmental agencies is a permitted use. According to Section 19.04.040, "Public facility" means a facility or structure owned or managed by the government of the United States, the State of Hawai'i, or the County of Maui which provides a governmental function, activity, or service for public benefit. Therefore, the proposed MPD communications facility is permitted within this district and consistent with the underlying Maui County zoning designation. The Code specifies a maximum tower height of 50 feet which accommodates the 45-foot tower and 5-foot lightning rod.

F. HAWAI'I COASTAL ZONE MANAGEMENT PROGRAM - OBJECTIVES AND ENFORCEABLE POLICIES

The Hawai'i Coastal Zone Management Program (HCZMP), as formalized in Chapter 205A, HRS, establishes objectives and policies for the preservation, protection, and restoration of natural resources of Hawai'i's coastal zone. Section 205A-1 defines "coastal zone" as all lands of the State and the area extending seaward from the shoreline to the limit of the State's police power and management authority, including the United States territorial sea. The proposed communication facility project is not located within the County of Maui's Special Management Area (SMA). However, the project has been reviewed in the context of HRS 205A.

1. Recreational Resources

Objective:

Provide coastal recreational opportunities accessible to the public.

Policies:

- a. *Improve coordination and funding of coastal recreation planning and management; and*
- b. *Provide adequate, accessible and diverse recreational opportunities in the coastal zone management area by:*
 - i. *Protecting coastal resources uniquely suited for recreation activities that cannot be provided in other areas;*

- ii. *Requiring replacement of coastal resources having significant recreational value, including but not limited to surfing sites, fishponds and sandy beaches, when such resources will be unavoidably damaged by development; or requiring reasonable monetary compensation to the State for recreation when replacement is not feasible or desirable;*
- iii. *Providing and managing adequate public access, consistent with conservation of natural resources, to and along shorelines with recreational value;*
- iv. *Providing an adequate supply of shoreline parks and other recreational facilities suitable for public recreation;*
- v. *Ensuring public recreational use of County, State and federally owned or controlled shoreline lands and waters having recreational value consistent with public safety standards and conservation of natural resources;*
- vi. *Adopting water quality standards and regulating point and non-point sources of pollution to protect and where feasible, restore the recreational value of coastal waters;*
- vii. *Developing new shoreline recreational opportunities, where appropriate, such as artificial lagoons, artificial beaches and artificial reefs for surfing and fishing; and*
- viii. *Encouraging reasonable dedication of shoreline areas with recreational value for public use as part of discretionary approvals or permits by the Land Use Commission, Board of Land and Natural Resources, County Planning Commissions and crediting such dedication against the requirements of Section 46-6 of the Hawai'i Revised Statutes.*

Response: Development of the proposed MPD communications facility will not interfere with coastal recreational opportunities. The proposed project is located mauka of LHS and the residential area of Lāhainā Town, approximately two (2) miles from the nearest shoreline. The construction and operation of the proposed project will not impede travel along any roads. As such, access to coastal recreational opportunities will not be impeded. Furthermore, the communications facility will enhance water recreational safety, as the Maui County Ocean Safety and Fire Departments will benefit from the improved communications network.

2. Historical/Cultural Resources

Objective:

Protect, preserve and where desirable, restore those natural and man-made historic and prehistoric resources in the coastal zone management area that are significant in Hawaiian and American history and culture.

Policies:

- a. *Identify and analyze significant archaeological resources;*
- b. *Maximize information retention through preservation of remains and artifacts or salvage operations; and*
- c. *Support State goals for protection, restoration, interpretation and display of historic resources.*

Response: An Archaeological Field Inspection was conducted for the areas associated with the proposed project. No historic properties were identified during the field inspection. Refer to **Appendix "B"**. Cultural interviews conducted in conjunction with the project indicate that prior to the construction of the existing water treatment plant, the area was previously used for ranching and other uses by LHS. It is further noted that the cultural interviews indicated that no traditional or cultural resources would be adversely impacted by the proposed action. Should cultural materials be found during construction, work shall stop in the immediate area of the find and the State Historic Preservation Division shall be notified to determine appropriate mitigation measures.

Furthermore, the required FCC license to operate the communications facility is a trigger for the National Historic Preservation Act Section 106 review. As such, consultation with applicable agencies will be undertaken as appropriate.

3. Scenic and Open Space Resources

Objective:

Protect, preserve and where desirable, restore or improve the quality of coastal scenic and open space resources.

Policies:

- a. *Identify valued scenic resources in the coastal zone management area;*

- b. *Ensure that new developments are compatible with their visual environment by designing and locating such developments to minimize the alteration of natural land forms and existing public views to and along the shoreline;*
- c. *Preserve, maintain and, where desirable, improve and restore shoreline open space and scenic resources; and*
- d. *Encourage those developments which are not coastal dependent to locate in inland areas.*

Response: The proposed communications facility will not be located in the shoreline area, and as such, does not affect views to and along the shoreline. In addition, the views of the West Maui Mountains will not be significantly impacted.

The site will be located at the Lāhainā WTP facility behind LHS and set back from Lāhainā Town. Southeast of the project area, next to the LHS football stadium, Maui Electric Company, Ltd. has a transfer station with an existing communications tower. Refer to **Figure 2**. Furthermore, the existing WTP, where the proposed communication facility would be located, has an existing 1 mg water tank, approximately 22.5 feet high, a sedimentation basin structure to the west, approximately 30 feet high from the base of the tank to the roof of the structure, and 35-to 38-foot high utility poles along the access road. Refer to **Figure 12**. The project site is otherwise surrounded by fallow agricultural land. Given the other structures in the vicinity of the project site, the proposed project, consisting of a 45-foot monopole tower and 264 square-foot equipment building, is not anticipated to have a significant adverse impact on scenic resources.

4. **Coastal Ecosystem**

Objective:

Protect valuable coastal ecosystems, including reefs, from disruption and minimize adverse impacts on all coastal ecosystems.

Policies:

- a. *Exercise an overall conservation ethic, and practice stewardship in the protection, use and development of marine and coastal resources;*
- b. *Improve the technical basis for natural resource management;*

- c. *Preserve valuable coastal ecosystems of significant biological or economic importance;*
- d. *Minimize disruption or degradation of coastal water ecosystems by effective regulation of stream diversions, channelization, and similar land and water uses, recognizing competing water needs; and*
- e. *Promote water quantity and quality planning and management practices which reflect the tolerance of fresh water and marine ecosystems and maintain and enhance water quality through the development and implementation of point and non-point source water pollution control measures.*

Response: The construction plans and specifications for the project will include BMPs to minimize erosion on the project site during and after construction and will also include measures to contain runoff onsite during the construction period. Temporary erosion control measures will be used during construction to prevent runoff to nearby areas, including placement of silt fences, filter socks, and or silt barriers to prevent surface runoff from construction areas entering into adjacent areas. These measures will contain surface flows within areas of construction during the construction period.

The design drawings will include water pollution and erosion notes related to erosion and sediment control practices for exposed area and use of materials in the work areas. The contract specifications will also include sections on Environmental Controls and Pollution Control which set forth the requirements to be implemented during construction to protect adjacent areas from runoff and discharge of pollutants. The areas of concrete pavement have been limited to the necessary widths for vehicular and maintenance access to the facility. The paved area will be slightly sloped to direct runoff to the gravel area. Existing drainage conditions, which are designed to meet County standards, will be maintained. Considering these factors, the impact of post-development storm water runoff is anticipated to be negligible.

5. **Economic Use**

Objective:

Provide public or private facilities and improvements important to the State's economy in suitable locations.

Policies:

- a. *Concentrate coastal dependent development in appropriate areas;*
- b. *Ensure that coastal dependent development such as harbors and ports, and coastal related developments such as visitor facilities and energy-generating facilities are located, designed and constructed to minimize adverse social, visual and environmental impacts in the coastal zone management area; and*
- c. *Direct the location and expansion of coastal dependent developments to areas presently designated and used for such developments and permit reasonable long-term growth at such areas, and permit coastal dependent development outside of presently designated areas when:*
 - i. *Use of presently designated locations is not feasible;*
 - ii. *Adverse environmental effects are minimized; and*
 - iii. *The development is important to the State's economy.*

Response: In the short term, the project will provide employment for construction workers and, as such, will benefit the local economy. In the long term, the project will improve the public safety communication system servicing West Maui. Located within an existing County public facility complex, the proposed communication facility is deemed to be within a suitable location.

6. Coastal Hazards

Objective:

Reduce hazard to life and property from tsunami, storm waves, stream flooding, erosion, subsidence and pollution.

Policies:

- a. *Develop and communicate adequate information about storm wave, tsunami, flood, erosion, subsidence, point and nonpoint source pollution hazards;*
- b. *Control development in areas subject to storm wave, tsunami, flood, erosion, hurricane, wind, subsidence, and point and nonpoint source pollution hazards;*
- c. *Ensure that developments comply with requirements of the Federal Flood Insurance Program; and*

d. *Prevent coastal flooding from inland projects.*

Response: The proposed site is situated approximately two (2) miles inland from the shoreline at an elevation of approximately 800 feet above mean sea level (amsl). The subject property is not located in any tsunami, flood, erosion, or subsidence area. As such, the project site is not subject to hazards resulting from tsunamis, storm waves, and stream flooding.

7. **Managing Development**

Objective:

Improve the development review process, communication, and public participation in the management of coastal resources and hazards.

Policies:

- a. *Use, implement, and enforce existing law effectively to the maximum extent possible in managing present and coastal zone development;*
- b. *Facilitate timely processing of applications for development permits and resolve overlapping of conflicting permit requirements; and*
- c. *Communicate the potential short and long-term impacts of proposed significant coastal developments early in their life-cycle and in terms understandable to the general public to facilitate public participation in the planning and review process.*

Response: Opportunities for public review and consideration of the proposed action is provided through the Chapter 343, HRS EA process. Early consultation with agencies and interested parties was conducted for the preparation of this Draft EA. Agency comments received in response to the early consultation letter and their responses are included in Chapter IX of this Draft EA document.

8. **Public Participation**

Objective:

Stimulate public awareness, education, and participation in coastal management.

Policies:

- a. *Promote public involvement in coastal zone management processes;*
- b. *Disseminate information on coastal management issues by means of educational materials, published reports, staff contact, and public*

workshops for persons and organizations concerned with coastal-related issues, developments, and government activities; and

- c. Organize workshops, policy dialogues, and site-specific mediations to respond to coastal issues and conflicts.*

Response: Opportunities for public awareness, education, and participation pertaining to significant resources attributes of the coastal zone are provided through the EA process.

9. **Beach Protection**

Objective:

Protect beaches for public use and recreation.

Policies:

- a. Locate new structures inland from the shoreline setback to conserve open space, minimize interference with natural shoreline processes, and minimize loss of improvements due to erosion;*
- b. Prohibit construction of private erosion-protection structures seaward of the shoreline, except when they result in improved aesthetic and engineering solutions to erosion at the sites and do not interfere with existing recreational and waterline activities; and*
- c. Minimize the construction of public erosion-protection structures seaward of the shoreline.*

Response: The proposed project is situated inland, approximately two (2) miles away from the shoreline and at an elevation of approximately 800 feet amsl. As such, no adverse effects on beach processes are anticipated. Appropriate BMPs will be implemented to mitigate storm water runoff associated with the project and to ensure that downstream and adjoining areas will not be adversely affected.

10. **Marine Resources**

Objective:

Promote the protection, use and development of marine and coastal resources to assure their sustainability.

Policies:

- a. *Ensure that the use and development of marine and coastal resources are ecologically and environmentally sound and economically beneficial;*
- b. *Coordinate the management of marine and coastal resources and activities to improve effectiveness and efficiency;*
- c. *Assert and articulate the interests of the State as a partner with federal agencies in the sound management of ocean resources within the United States exclusive economic zone;*
- d. *Promote research, study, and understanding of ocean processes, marine life, and other ocean resources in order to acquire and inventory information necessary to understand how ocean development activities relate to and impact upon ocean and coastal resources; and*
- e. *Encourage research and development of new, innovative technologies for exploring, using, or protecting marine and coastal resources.*

Response: The proposed project is located at an elevation of approximately 800 feet amsl and approximately two (2) miles inland of the shoreline. As such, the development of the MPD communications facility is not expected to have adverse impacts on the shoreline or marine resources. As mentioned previously, the communications facility will enhance the County's communications system, which also serves the Ocean Safety and Fire Departments, improving safety conditions for marine and coastal activities.

**IV. SUMMARY OF ADVERSE
ENVIRONMENTAL EFFECTS
WHICH CANNOT BE
AVOIDED**

IV. SUMMARY OF ADVERSE ENVIRONMENTAL EFFECTS WHICH CANNOT BE AVOIDED

In the short term, construction associated with the project will generate noise impacts. These impacts will be limited to the immediate vicinity of the project construction areas. Sound attenuating construction equipment and best management practices (BMPs) will be used, where practicable and necessary, to mitigate noise impacts caused by construction. Coordination with the Department of Water Supply (DWS) and Department of Education (DOE) will be undertaken by the applicant as to not interfere with water system and school operations.

Unavoidable air quality impacts will also arise as a result of construction activities, such as the generation of dust and other airborne pollutants. Appropriate BMPs will be incorporated in the construction process to mitigate impacts, such as frequent watering of exposed surfaces and regular maintenance of construction equipment to minimize construction-related impacts.

In the long term, the proposed project is not anticipated to result in any significant adverse environmental effects.

V. ALTERNATIVES TO THE PROPOSED ACTION

V. ALTERNATIVES TO THE PROPOSED ACTION

A. PREFERRED ALTERNATIVE

The proposed action described in Chapter I, Project Overview, represents the preferred alternative. This alternative entails the development and operation of a new Maui Police Department (MPD) communications facility consisting of a radio equipment building, a self-supporting 45-foot tower with antennas, and related improvements, including grading and surfacing within the existing County of Maui Department of Water Supply (DWS) Water Treatment Plant (WTP). This alternative meets departmental needs and optimizes County resources. This will ultimately establish direct microwave transmission capabilities to the Lāhainā Police Station and improve the reliability of the County's communications system.

B. LOCATION ALTERNATIVES

The location selected by the Police Department suits departmental needs in terms of the line-of-site propagation for microwave transmissions to other existing communications facilities in West Maui.

In addition to offering the ideal breadth of coverage, the preferred site is located just off of the DWS access road, which will accommodate construction-related deliveries and maintenance trips without requiring the grading of new access roads. This reduces the environmental impacts associated with construction and the cost of construction and maintenance. At an alternative location that offers similar line-of-sight propagation, vehicular access for construction and maintenance may require extensive grading. Additionally, the development of new wilderness roads or use of alternative sources of transportation may be needed, thereby increasing potential environmental impacts and costs.

Finally, the location within the existing Lāhainā WTP allows the County to utilize an existing public facility for multiple purposes. The project site also provides access to electrical power while mitigating the costs and environmental impacts of cleaning an access corridor for the installation of new transmission lines to connect the facility to the Maui Electric Company, Ltd. (MECO) grid. MPD is coordinating with DWS and MECO on the electrical service to provide power for the proposed site. Situating the site in an alternative location would increase the cost of the project as well as the potential

environmental and visual impacts associated with overhead electrical lines to the MPD communications site.

C. NO ACTION ALTERNATIVE

Under the no alternative scenario, reliability of the County's communications systems cannot be guaranteed, as the no action alternative does not allow for the establishment of direct microwave transmission to the Police Station. This system requirement has been deemed a priority for the MPD. Under the no action alternative, the limitations of the existing system will remain unaddressed.

D. DEFERRED ACTION ALTERNATIVE

Similar to the no action alternative, the postponed action alternative does not address the current need for a reliable countywide communications system.

VI. IRREVERSIBLE AND IRRETRIEVABLE COMMITMENTS OF RESOURCES

VI. IRREVERSIBLE AND IRRETRIEVABLE COMMITMENTS OF RESOURCES

The proposed project will result in the irreversible and irretrievable commitment of certain natural and fiscal resources for a needed public safety communications facility. Major resource commitments include funding, labor, fuel, and material resources. Impacts relating to the use of these resources should be weighed against the expected positive benefits to be derived from the project versus the consequences of taking no action. However, these commitments are considered appropriate as they improve first responder communication systems, which improves public safety and health services for West Maui.

VII. SIGNIFICANCE CRITERIA ASSESSMENT

VII. SIGNIFICANCE CRITERIA ASSESSMENT

Since the proposed action is located on State lands (within a County facility) and County funds would be utilized, an Environmental Assessment (EA) has been prepared pursuant to Chapter 343, Hawai'i Revised Statutes (HRS), and Chapter 200 of Title 11, Administrative Rules of the State Department of Health.

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

1. **Involves an irrevocable commitment to loss or destruction of any natural or cultural resource**

Negative impacts to natural and cultural resources are not anticipated as a result of the proposed project. No cultural remains were identified during the archaeological field inspection conducted on April 30, 2015. Refer to **Appendix "B"**. According to cultural informant interviews conducted in conjunction with this project, no known traditional practices or cultural resources have been observed in the vicinity of the project. Furthermore, consultation with applicable agencies will be undertaken as part of the National Historic Preservation Act Section 106 review process. As such, the development of the site is not anticipated to significantly impact cultural resources.

2. **Curtails the range of beneficial uses of the environment**

The proposed action improves, rather than curtails, the range of beneficial uses of the environment. The proposed Maui Police Department (MPD) communications facility is proposed within the existing secured area of the 1 million gallon (mg) water tank at the DWS Water Treatment Plant (WTP). This allows for more efficient use of the existing County facility, since it will be used for multiple purposes. The proposed action does not limit or curtail other beneficial uses of the environment.

3. **Conflicts with the state’s long-term environmental policies or goals and guidelines as expressed in Chapter 344, HRS, and any revisions thereof and amendments thereto, court decisions, or executive orders**

The State Environmental Policy and Guidelines are set forth in Chapter 344, HRS. The proposed project is not in conflict with the environmental goals and policies of the State of Hawai‘i.

4. **Substantially affects the economic welfare, social welfare and cultural practices of the community or State**

The proposed MPD communications facility is not anticipated to adversely affect economic, social, and cultural elements important to Lāhainā residents. The proposed project will directly benefit the local economy by providing construction and construction-related employment in the short term. Development of the communications facility will enable direct microwave transmission to the MPD communications facility at Makila (future) and the Hyatt Regency. In addition, the communications network also transmits emergency calls to the 911 Dispatch located in Wailuku, Maui. As such, the project will improve emergency response and public safety for these communities.

5. **Substantially affects public health.**

The MPD communications facility will support point to point microwave radio transmitters. These microwave radio transmitters concentrate their emission in a narrow highly directional beam that does not move. The microwave radio transmitter output power is typically around or less than one (1) watt. Energy from these transmitters is not anticipated to reach or impact adjacent areas that are accessed by people, including the WTP or Lahainaluna High School. Therefore, adverse impacts to public health are not anticipated as a result of the project.

The development of the MPD communications facility will be a vital component of the County-wide communications network and will provide voice and data services needed for public safety and health emergencies. As such, the development of the proposed MPD communications facility will have a positive effect on public health.

6. **Involves substantial secondary impacts, such as population changes or effects on public facilities**

The proposed project will provide benefits to the existing and future West Maui community by enhancing and supporting police operations and other first responder agencies that play a role in health and public safety. The project is anticipated to benefit public services by improving police department communications. No adverse effects on

medical, educational, and solid waste collection services are anticipated, nor will the proposed MPD communications facility have an impact on parameters for the West Maui population.

The proposed project is not anticipated to impact water and wastewater capacities and facilities. In the context of the parcel underlying the proposed site, post-development stormwater runoff will be negligible. Existing drainage conditions, which are designed to meet County standards, will be maintained.

7. **Involves a substantial degradation of environmental quality**

Aside from the short-term impacts related to dust and noise generated during the construction phase, there will not be a degradation of environmental quality. Potential air and noise quality impacts will be mitigated through implementation of appropriate Best Management Practices (BMPs). Additionally, appropriate BMPs will also be implemented to mitigate potential impacts relating to drainage and runoff.

The proposed project is not anticipated to alter the open space and scenic character of the area.

8. **Is individually limited but cumulatively has considerable effect upon the environment or involves a commitment for larger actions**

The proposed project is specifically designed to improve MPD's voice and data services in West Maui. Other MPD communication sites may be developed, but are functionally discreet and are not committed with the development of the subject project. The proposed action is not anticipated to impact the environment, nor does it involve a commitment for larger actions.

9. **Substantially affects a rare, threatened, or endangered species, or its habitat**

Early consultation with the U. S. Fish and Wildlife Service (USFWS) indicates five (5) listed species in the vicinity of the project, including the endangered Hawaiian hawk (*Buteo solitarius*), Blackburn's sphinx moth (*Manduca blackburni*), Hawaiian hoary bat (*Lasiurus cinereus semotus*) and Hawaiian petrel (*Pterodroma phaeopygia sandwichensis*), and the threatened Newell's shearwater (*Puffinusauricularis newelli*). The USFWS also noted that while there is critical habitat upslope of the project site for several species of listed plants, it is unlikely that there is overlap with project development.

The minimization measures recommended by the USFWS outlined in Chapter 2 of this section will be implemented during construction.

Early consultation comments from the Department of Land and Natural Resources Division of Forestry and Wildlife (DOFAW) noted the occasional presence of Nēnē geese at the WTP. DOFAW was consulted on appropriate minimization measures to prevent negative impacts to Nēnē geese during project construction. DOFAW stated that their only concern is regarding construction during the Nēnē nesting season, which can start as early as October and run through April. The construction documents for the project will state that construction shall not start during the Nēnē nesting season. However, once started, construction may continue as long as Nēnē are not present at the project site. The contract documents will also state that DOFAW should be notified if Nēnē enter the project site. Additionally, DOFAW requested to be involved in the preconstruction meeting to address any wildlife concerns or issues. To meet DOFAW's concerns, the contract documents will include the DOFAW contact telephone number.

With the above mitigation, no impacts to rare, threatened, endangered species, or critical habitat are anticipated as a result of the proposed action.

10. Detrimentially affects air or water quality or ambient noise levels

Construction activities will result in short-term air quality and noise impacts. Dust control measures, such as regular watering and sprinkling, will be implemented to minimize wind-blown emissions. Appropriate BMPs will be utilized to reduce impacts on water quality from storm water runoff and its effects on adjacent and downstream areas. Existing drainage conditions, which are designed to meet County standards, will be maintained.

The construction plans and specifications for the project will include BMPs to minimize erosion on the project site during and after construction and will also include measures to contain runoff onsite during the construction period. Temporary erosion control measures will be used during construction to prevent runoff to nearby areas, including placement of silt fences, filter socks, and/or silt barriers to prevent surface runoff from construction areas entering into adjacent areas. These measures will contain surface flows within areas of construction during the construction period.

The design drawings will include water pollution and erosion notes related to erosion and sediment control practices for exposed area and use of materials in the work areas. The contract specifications will also include sections on Environmental Controls and

Pollution Control which set forth the requirements to be implemented during construction to protect adjacent areas from runoff and discharge of pollutants.

In the context of the parcel underlying the proposed site, post-development stormwater runoff will be negligible. The areas of concrete pavement have been limited to the necessary widths for vehicular and maintenance access to the facility. The paved area will be slightly sloped to direct runoff to the gravel area.

Short-term noise impacts will occur primarily from construction equipment. Equipment mufflers or other noise attenuating equipment, as well as proper equipment and vehicle maintenance, are anticipated to mitigate noise from construction activities. Construction noise impacts will be mitigated through appropriate BMPs. Once completed, the proposed project is not anticipated to adversely alter noise conditions in the area.

There are no long-term impacts on air, water, or ambient noise levels anticipated after construction has been completed.

11. **Affects or is likely to suffer damage by being located in an environmentally sensitive area such as a flood plain, tsunami zone, beach, erosion-prone area, geologically hazardous land, estuary, fresh water, or coastal waters**

The proposed project is not located in an environmentally sensitive area and is in a remote area away from the shoreline. There are no wetlands located in proximity to or downstream of the project site. In the vicinity of the project site, Kanaha Stream runs down the middle of Kanaha Gulch at an elevation below 700 feet. Refer to **Figure 11**. The project site is approximately 330 feet south of Kanaha Stream at an elevation of approximately 800 feet. BMPs will be used to minimize erosion at the project site during and after construction.

Based on the foregoing information, the proposed project is not anticipated to affect or suffer damage from hazardous occurrence.

12. **Substantially affects scenic vistas and viewplanes identified in county or state plans or studies**

The project site is not located within an identified scenic vista or view plane, and scenic corridors and open space resources in the area will not be affected. Given the other structures in the vicinity of the project site, significant adverse impacts to the visual character of the area are not anticipated.

13. Requires substantial energy consumption

The proposed project will involve the commitment of fuel from construction equipment, vehicles, and machinery during construction activities. As a new communications facility, the development will result in a net increase in energy consumption. However, the additional energy demand will not be substantial or excessive within the context of the region's overall energy consumption.

Based on the foregoing findings, the proposed action will not result in any significant adverse impacts. Accordingly, this Final EA for the project will be published in the Office of Environmental Quality Control's (OEQC) Environmental Notice, as a Finding of No Significant Impact (FONSI).

VIII. LIST OF PERMITS AND APPROVALS

VIII. LIST OF PERMITS AND APPROVALS

The following approvals will be required prior to implementation of the project:

Federal

1. Federal Communications Commission licenses/approvals
2. National Historic Preservation Act Section 106 approval
3. Endangered Species Act Section 7 approval

State of Hawai'i

1. State Department of Health
 - a. Noise Permit, as applicable

County of Maui

1. Department of Public Works
 - a. Building Permit and related permits
 - b. Grading Permit

**IX. PARTIES CONSULTED
DURING THE PREPARATION
OF THE DRAFT
ENVIRONMENTAL
ASSESSMENT; LETTERS
RECEIVED AND RESPONSES
TO SUBSTANTIVE
COMMENTS**

IX. PARTIES CONSULTED DURING THE PREPARATION OF THE DRAFT ENVIRONMENTAL ASSESSMENT; LETTERS RECEIVED AND RESPONSES TO SUBSTANTIVE COMMENTS

The following agencies and organizations were consulted during preparation of the Draft Environmental Assessment (EA). Agency comments and responses to substantive comments are compiled in this Chapter.

- | | |
|--|--|
| <p>1. Ranae Ganske-Cerizo, Soil Conservationist
Natural Resources Conservation Service
U.S. Department of Agriculture
700 Hookele Street, Suite 202
Kahului, Hawai'i 96732</p> | <p>6. Scott Enright, Chair
Department of Agriculture
1428 South King Street
Honolulu, Hawai'i 96814-2512</p> |
| <p>2. Ron V. Simpson, Manager
Federal Aviation Administration
Honolulu Airports District Office
Airports – Western Pacific Region
Box 50244
Honolulu, Hawai'i 96850</p> | <p>7. Luis P. Salaveria, Director
State of Hawai'i
Department of Business, Economic Development & Tourism
P.O. Box 2359
Honolulu, Hawai'i 96804</p> |
| <p>3. Shelly Lynch
Chief, Regulatory Branch
U.S. Department of the Army
U.S. Army Engineer District, Honolulu
Regulatory Branch
Building 230
Fort Shafter, Hawai'i 96858-5440</p> | <p>8. Kathryn Matayoshi, Superintendent
State of Hawai'i
Department of Education
P.O. Box 2360
Honolulu, Hawai'i 96804</p> |
| <p>4. Acting Field Supervisor
U. S. Fish and Wildlife Service
300 Ala Moana Blvd., Rm. 3-122
Box 50088
Honolulu, Hawai'i 96813</p> | <p>9. Jobie Masagatani, Chair
Hawaiian Home Lands Commission
P.O. Box 1879
Honolulu, Hawai'i 96805</p> |
| <p>5. Sharon Wong, Acting Administrator
Department of Accounting and General Services
Information and Communication Services Division
1151 Punchbowl Street
Honolulu, Hawai'i 96813</p> | <p>10. Dr. Virginia Pressler
State of Hawai'i
Department of Health
919 Ala Moana Blvd., Room 300
Honolulu, Hawai'i 96814</p> |
| | <p>11. Patti Kitkowski
State of Hawai'i
Department of Health
Maui Sanitation Branch
54 South High Street, Room 300
Wailuku, Hawai'i 96793</p> |

12. Suzanne Case, Chairperson
State of Hawai'i
Department of Land and Natural Resources
P. O. Box 621
Honolulu, Hawai'i 96809
13. Alan Downer, Administrator
State of Hawai'i
Department of Land and Natural Resources
State Historic Preservation Division
601 Kamokila Blvd., Room 555
Kapolei, Hawai'i 96707
14. Acting Administrator
Division of Forestry and Wildlife
State of Hawai'i
Department of Land and Natural Resources
Kalanimoku Building
1151 Punchbowl Street, Room 325
Honolulu, Hawai'i 96813
15. Morgan Davis
State of Hawai'i
Department of Land and Natural Resources
State Historic Preservation Division
130 Mahalani Street
Wailuku, Hawai'i 96793
16. Jessica Wooley, Director
Office of Environmental Quality Control
235 S. Beretania Street, Suite 702
Honolulu, Hawai'i 96813
17. Dr. Kamana'opono Crabbe, Chief Executive Officer
Office of Hawaiian Affairs
560 N. Nimitz Highway, Suite 200
Honolulu, Hawai'i 96817
18. Leo R. Asuncion, Jr., AICP, Director
State of Hawai'i
Office of Planning
P. O. Box 2359
Honolulu, Hawai'i 96804
19. Dan Orodener, Executive Officer
State of Hawai'i
State Land Use Commission
P.O. Box 2359
Honolulu, Hawai'i 96804
20. Marvin Moniz, District Manager
Islands of Maui, Moloka'i and Lāna'i
State of Hawai'i
Department of Transportation
Airports Division
1 Kahului Airport Road, Unit 5
Kahului, Hawai'i 96732
21. Senator Rosalyn H. Baker
Hawai'i State Senate
Hawai'i State Capitol, Room 230
415 S. Beretania Street
Honolulu, Hawai'i 96813
22. Representative Angus L.K. McKelvey
House of Representatives
Hawai'i State Capitol, Room 320
415 S. Beretania Street
Honolulu, Hawai'i 96813
23. Anna Foust, Officer Management Officer
Maui Civil Defense Agency
200 South High Street
Wailuku, Hawai'i 96793
24. Jeffrey A. Murray, Fire Chief
County of Maui
Department of Fire and Public Safety
200 Dairy Road
Kahului, Hawai'i 96732
25. William Spence, Director
County of Maui
Department of Planning
2200 Main Street, Suite 315
Wailuku, Hawai'i 96793
26. David Goode, Director
County of Maui
Department of Public Works
200 South High Street
Wailuku, Hawai'i 96793

27. Kyle Ginoza, Director
County of Maui
**Department of Environmental
Management**
2050 Main Street, Suite 1C
Wailuku, Hawai'i 96793
28. Honorable Elle Cochran
Maui County Council
200 South High Street
Wailuku, Hawai'i 96793
29. Mathew McNeff
Maui Electric Company, Ltd.
P.O. Box 398
Kahului, Hawai'i 96733
30. **Hawaiian Telcom**
60 South Church Street
Wailuku, Hawai'i 96793
31. **Joe Pluta, President**
West Maui Improvement Foundation
P.O. Box 10338
Lāhainā, Hawai'i 96761
32. Donald Lehman, President
West Maui Taxpayers Association
P.O. Box 10338
Lāhainā, Hawai'i 96761



Natural Resources
Conservation Service

Pacific Islands Area
Kahului Field Office

77 Hookele St., # 202
Kahului, HI 96732

Voice
808-871-5500 ext. 3
Fax
855-878-2454

August 19, 2015

Ms. Marisa Fujimoto, Senior Associate
Munekiyo Hiraga
305 High St., Suite 104
Wailuku, HI 96793

Subject: Early Consultation Request for Proposed Maui Police
Department Communications Facility at Lahaina Water Treatment
Plant (TMK: (2) 4-6-018: 012 (por))

Dear Ms. Fujimoto:

We highly recommend this project be constructed in phases to reduce the impact of erosion and drainage concerns. As soon as the area grading and construction in each single phase is complete, the area should be stabilized and vegetated.

Locate potential non-point pollutant sources, erosion and drainage concerns away from Lahainaluna High School, ocean and critical areas.

Material stock piles, access roads and other land-disturbing activities should be located away from critical areas that drain directly into sensitive areas as mentioned above. Design parking lot/driveways which will direct and capture run off to landscape areas

Schedule inspections of temporary drainage and erosion control features during construction of the project to ensure the integrity and function of the Best management Practices.

If I can provide any further assistance, do not hesitate to contact me at 871-5500 extension 107.

Sincerely,

Ranae Ganske-Cerizo
District Conservationist



December 18, 2015

Ranae Ganske-Cerizo
District Conservationist
Natural Resources Conservation Service
77 Hookele Street #202
Kahului, Hawaii 96732

SUBJECT: Early Consultation for Proposed Maui Police Department Communications Facility at the Lahaina Water Treatment Plant, Lahaina, Maui, Hawaii, TMK (2) 4-6-018:012 (por.)

Dear Ms. Ganske-Cerizo:

Thank you for your letter dated August 19, 2015, providing early consultation comments on the proposed Maui Police Department (MPD) Communications Facility at the Lahaina Water Treatment Plant. On behalf of the MPD, we offer the following responses to your comments in the order of your comments:

1. The total area of the proposed project is approximately 1,400 square feet. Therefore, due to the limited area of impact, phasing of construction is not necessary. Appropriate Best Management Practices (BMPs) will be implemented during construction to minimize erosion and drainage impacts. Additionally, the area will be stabilized and vegetated, as appropriate, upon completion of construction.
2. Potential non-point pollutant sources, erosion, and drainage issues will be addressed with BMPs such that Lahainaluna High School, the ocean, and critical areas are not impacted.
3. Material stock piles and other land-disturbing activities will be located away from sensitive areas as mentioned above. The existing Department of Water Supply access road will be used for construction access. The project, including parking

Ranae Ganske-Cerizo
District Conservationist
December 18, 2015
Page 2

areas and driveways, will be designed to direct and capture runoff to landscaped areas, as appropriate.

4. Inspections of temporary drainage and erosion control features to ensure the integrity and function of BMPs during project construction will be scheduled, as appropriate.

We appreciate your input and will include a copy of your comment letter along with this response letter in the Draft Environmental Assessment for the proposed project. If you have any questions regarding this matter, please feel free to contact our office at 244-2015.

Very truly yours,



Marisa Fujimoto
Senior Associate

MF:tn

cc: John Sakaguchi, Wilson Okamoto Corporation
Walter Pacheco, Maui Police Department

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SEP 08 2015



DEPARTMENT OF THE ARMY
HONOLULU DISTRICT, U.S. ARMY CORPS OF ENGINEERS
FORT SHAFTER, HAWAII 96858-5440

September 2, 2015

SUBJECT: Request for Comments for Proposed Maui Police Department Communications Facility at Lahaina Water Treatment Plant Lahaina, Island of Maui, Hawaii, DA File No. POH-2011-00296

Marisa Fujimoto, Senior Associate
Munekiyo Hiraga
305 High Street, Suite 104
Wailuku, Hawaii 96793

Dear Ms. Fujimoto:

The U.S. Army Corps of Engineers, Honolulu District (Corps), is in receipt of your letter dated 10 August 2015 for the Proposed Maui Police Department Communications Facility located at Mahinahina Water Treatment Plant, Island of Maui, Hawaii. Your project has been assigned Department of the Army (DA) file number POH-2011-00296. Please reference this number in all future correspondence concerning this project.

We have reviewed your submittal pursuant to Section 404 of the Clean Water Act (Section 404) and Section 10 of the Rivers and Harbors Act of 1899 (Section 10). Section 404 requires authorization prior to the discharge and/or placement of dredged or fill material into waters of the U.S., including adjacent wetlands. Section 10 requires authorization prior to installing structures or conducting work in, over, under, and affecting navigable waters.

Based on the limited information provided, it appears your proposed project may require a Department of the Army permit prior to beginning work. We have enclosed a permit application form for your convenience (Enclosure # 1). When we receive the completed application, we can further assess your permit needs.

Thank you for your cooperation with the Honolulu District Regulatory Program. Should you have any questions or wish to schedule a pre-application meeting, please contact Rebecca Frager of my staff at 808-835-4307 or via e-mail at Rebecca.M.Frager@usace.army.mil. You are encouraged to provide comments on your experience with the Honolulu District Regulatory Office by accessing our web-based customer survey form at http://corpsmapu.usace.army.mil/cm_apex/f?p=136:4:0.

- 2 -

Sincerely,


A handwritten signature in black ink, appearing to read "Michelle Lynch". The signature is fluid and cursive, with the first name "Michelle" written in a larger, more prominent script than the last name "Lynch".

Michelle R. Lynch
Chief, Regulatory Office

Enclosure

Department of the Army Permit Application

Date Received by CEPOH-RO

 <p>U.S. Army Corps of Engineers Honolulu District</p>	<p>Send Completed Application to: Honolulu District, U.S. Army Corps of Engineers Regulatory Office [CEPOH-RO] Building. 230 Fort Shafter, Hawaii 96858-5440 or email to: CEPOH-RO@usace.army.mil</p>
DA File Number	

(1) APPLICANT AND LANDOWNER CONTACT INFORMATION			
	Applicant	Property Owner (if different)	Authorized Agent (if applicable)
			<input type="checkbox"/> Consultant <input type="checkbox"/> Contractor
Contact Name			
Business Name			
Mailing Address 1			
Mailing Address 2			
City, State, Zip			
Business Phone			
Cell Phone			
Fax			
Email			

(2) PROJECT INFORMATION			
A. Provide the project location.			
Project Name	Tax Map Key (TMK):	Latitude and Longitude	
Project Address / Location	City (nearest)	County	
Brief Directions to the Site			
B. What types of waterbodies or wetlands are present in your project area? (Check all that apply.)			
<input type="checkbox"/> River / Stream	<input type="checkbox"/> Non-Tidal Wetland	<input type="checkbox"/> Lake / Reservoir / Pond	
<input type="checkbox"/> Estuary or Tidal Wetland	<input type="checkbox"/> Other	<input type="checkbox"/> Pacific Ocean	
Waterbody or Wetland Name**	River Mile	Watershed	Island
C. Indicate the project category. (Check all that apply.)			
<input type="checkbox"/> Commercial Development	<input type="checkbox"/> Industrial Development	<input type="checkbox"/> Residential Development	
<input type="checkbox"/> Institutional Development	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Recreational	
<input type="checkbox"/> Transportation	<input type="checkbox"/> Restoration	<input type="checkbox"/> Bank Stabilization	
<input type="checkbox"/> Dredging	<input type="checkbox"/> Utility lines	<input type="checkbox"/> Survey or Sampling	
<input type="checkbox"/> In- or Over-Water Structure	<input type="checkbox"/> Maintenance	<input type="checkbox"/> Other:	

* In decimal format (e.g., 44.9399, -123.0283)
 ** If there is no official name for the wetland or waterway, create a unique name (such as "Wetland 1" or "Tributary A").

(3) PROJECT PURPOSE AND NEED

Provide a statement of the purpose and need for the overall project.

(4) DESCRIPTION OF RESOURCES IN PROJECT AREA

A. Describe the existing physical and biological characteristics of each wetland or waterway. Reference the wetland and waters delineation report if one is available. Include the list of items provided in the instructions. Submit the biological survey with the application if one has been completed.

B. Describe the existing navigation, fishing and recreational use of the waterway or wetland.

(5) PROJECT SPECIFIC CRITERIA AND ALTERNATIVES ANALYSIS

Describe project-specific criteria necessary to achieve the project purpose. Describe alternative sites and project designs that were considered to avoid or minimize impacts to the waterway or wetland.

(6) PROJECT DESCRIPTION

A. Briefly summarize the overall project including work in areas both in and outside of waters or wetlands.

B. Describe work within waters and wetlands.

C. Construction Methods including any temporary work required, equipment/materials necessary, staging/access locations, location of stockpiles. Describe best management practices i.e. how the activities will be accomplished while minimizing impacts to waters and/or wetlands.

D. Describe source of fill material and disposal locations if known.

(6) PROJECT DESCRIPTION

E. Construction sequence and timeline.

What is the estimated project start date?

What is the estimated project completion date?

Is any of the work underway or already complete? Yes No

If yes, describe.

F. Fill Volumes and Dimensions (if more than 4 impact sites, include a summary table as an attachment)

Wetland / Waterbody Name *	Fill Dimensions					Duration of Impact**	Material***
	Length (ft.)	Width (ft.)	Depth (ft.)	Area (sq.ft. or ac.)	Volume (c.y.)		

G. Total Fill Volumes and Dimensions

Fill Impacts to Waters	Length (ft.)	Area (sq. ft or ac.)	Volume (c.y.)
Total Fill to Wetlands			
Total Fill Below Ordinary High Water			
Total Fill Below High Tide Line			
Total Fill Below Mean High Water Tidal Elevation			

H. Removal Volumes and Dimensions (if more than 4 impact sites, include a summary table as an attachment)

Wetland / Waterbody Name*	Removal Dimensions					Duration of Impact**	Material***
	Length (ft.)	Width (ft.)	Depth (ft.)	Area (sq. ft. or ac.)	Volume (c.y.)		

I. Dredging Volumes and Dimensions

Dredging Impacts to Waters	Length (ft.)	Depth (ft.)	Width (ft.)	Volume (c.y.)
Total Dredging Seaward of Mean High Water Tidal Elevation				

* If there is no official name for the wetland or waterway, create a unique name (such as "Wetland 1" or "Tributary A").

** Indicate the days, months or years the fill or removal will remain. Enter "permanent" if applicable.

*** Example: soil, gravel, wood, concrete, pilings, rock etc.

****If the High Tide Line is not observable in the field, the Mean Higher High Water Elevation may be acceptable.

(7) ADDITIONAL INFORMATION

Are there any federally listed species under the Endangered Species Act on the project site? Yes No Unknown

Is the project site within designated or proposed critical habitat identified under the Endangered Species Act? Yes No Unknown

Is the project site within the 100-year floodplain? Yes No Unknown

*** If yes to listed species or critical habitat, submit a biological assessment with application if one has been prepared or explain in Block 4 and describe measures to minimize adverse effects to these resources in Block 5.**

Is the project site within a State or Federal marine managed area? (i.e. Marine Life Conservation Dist., Wildlife Sanctuary, or Fishery Management Area, etc.) Yes No Unknown

Will the overall project involve construction dewatering or ground disturbance of one acre or more? Yes No Unknown

*** If yes, you may need an NPDES permit.**

Is the fill or dredged material a carrier of contaminants from on-site or off- site spills? Yes No Unknown

Has the fill or dredged material been physically and/or chemically tested? Yes No Unknown

***If yes, explain in Block 4 and provide references to any physical/chemical testing report(s).**

Are there known Cultural Resources in the project area?
 Has coordination with the State Historic Preservation Division occurred (or 6E completed)? Yes No Unknown

*** If yes, provide a copy of any surveys and/or 6E with this application.**

Identify any other federal agency that is funding, authorizing or implementing the project.

Agency Name	Contact Name	Phone Number	Most Recent Date of Contact

List other certificates or approvals/denials required or received from other federal, state or local agencies for work described in this application. For example, certain activities that require a Department of Army permit also require 401 Water Quality Certification.

Approving Agency	Certificate/ approval / denial description	Date Applied

Other U.S. Army Corps of Engineers (Corps) Actions associated with this site? (Check all that apply)

- Work proposed on or over lands owned by or leased from the Corps
- Other Corps Permits Corps #
- Violation for Unauthorized Activity Corps #
- Wetland and Waters Delineation Corps #
 - A wetland / waters delineation has been completed (if so, provide a copy with the application)
 - The Corps has approved the wetland / waters delineation within the last 5 years

(8) IMPACTS, RESTORATION/REHABILITATION, COMPENSATORY MITIGATION

A. Describe unavoidable environmental impacts that are likely to result from the proposed project. Include permanent, temporary, direct, and indirect impacts.

B. For temporary removal or fill or disturbance of vegetation in waterways, wetlands or riparian (i.e., streamside) areas, discuss how the site will be restored after construction.

Compensatory Mitigation

Permittee-
responsible Onsite
Mitigation

Permittee-
responsible Offsite
mitigation

D. Provide a brief description of mitigation approach and the rationale for choosing that approach. If you believe mitigation should not be required, explain why.

(9) ADJACENT PROPERTY OWNERS FOR PROJECT AND MITIGATION SITE

<input type="checkbox"/> Pre-printed mailing labels of adjacent property owners attached	Project Site Adjacent Property Owners	Mitigation Site Adjacent Property Owners
--	--	---

Contact Name
Address 1
Address 2
City, State ZIP Code

Contact Name
Address 1
Address 2
City, State ZIP Code

Contact Name
Address 1
Address 2
City, State ZIP Code

Contact Name
Address 1
Address 2
City, State ZIP Code

Contact Name
Address 1
Address 2
City, State ZIP Code

Contact Name
Address 1
Address 2
City, State ZIP Code

Contact Name
Address 1
Address 2
City, State ZIP Code

Contact Name
Address 1
Address 2
City, State ZIP Code

(10) List of Other Certificates or Approvals/Denials received from other Federal, State, or Local Agencies for Work Described in This Application.

<u>Agency</u>	<u>Approval Type</u>	<u>Number</u>	<u>Date Applied</u>	<u>Date Approved</u>	<u>Date Denied</u>

(11) SIGNATURES

Application is hereby made for the activities described herein. I certify that I am familiar with the information contained in the application, and, to the best of my knowledge and belief, this information is true, complete and accurate. I further certify that I possess the authority to undertake the proposed activities. I hereby authorize the person identified in the authorized agent block below to act in my behalf as my agent in the processing of this application and to furnish supplemental information in support of this permit application. I understand that the granting of other permits by local, county, state or federal agencies does not release me from the requirement of obtaining the permits requested before commencing the project.

Applicant Signature

Print Name	Title
Signature	Date

Authorized Agent Signature

Print Name	Title
Signature	Date

Landowner Signature(s)

Landowner of the Project Site (if different from applicant)

Print Name	Title
Signature	Date

Landowner of the Mitigation Site (if different from applicant)

Print Name	Title
Signature	Date

(12) ATTACHMENTS

- Drawings (items in bold are required)
 - Location map with roads identified
 - U.S.G.S topographic map
 - Tax lot map
 - Site plan(s)
 - Cross section drawing(s)
 - Recent aerial photo
 - Project photos
 - Erosion and Pollution Control Plan(s), if applicable
- Pre-printed labels for adjacent property owners (Required if more than 5)
- Restoration plan or rehabilitation plan for temporary impacts
- Alternatives analysis
- Biological assessment (if requested by Corps project manager during pre-application coordination.)
- Other:
 -
 -

INSTRUCTIONS FOR PREPARING THE PERMIT APPLICATION

General Instructions and Tips

- Provide the information in the appropriate blocks of the application form. If you need more space, provide a summary in the space provided and attach additional detail as an appendix to the application.
- Not all items on the application form will apply to all projects.
- For most applications, binding and section dividers are not necessary and require additional handling.

The information requested on the form is necessary for the agency to begin the review. For complex projects or for those that may have more than minimal impacts, additional information may be necessary to complete the evaluation and make a permit decision. Alternative forms of permit applications may be acceptable; contact the Corps for more information.

Section 1. Applicant and Landowner Contact information

Applicant: The applicant is the responsible party. If the applicant is an agency, business entity or other organization, indicate the name of the organization and a person that has the authority to sign the application.

Authorized Agent: An authorized agent is someone who has permission from the applicant to represent their interests and supply information to the agencies. An agent can be a consultant, an attorney, builder, contractor, or any other person or organization. An authorized agent is optional.

Landowner: Provide landowner information if different from the applicant. The landowner must also sign the application.

Section 2. Project Information

Provide location information. Latitude and longitude can be found by zooming in to your respective project location and reading off the coordinates displayed on the bottom of the map on Google earth.

Provide information on wetlands and waterways within the project area. Indicate the category of activities that make up your project.

Section 3. Project Purpose and Need

Explain the purpose and need for the project. Also include a brief description of any related activities needed to accomplish the project objectives.

Section 4. Description of Resources in Project Area

For each wetland, include:

- Whether the wetland is freshwater or tidal, and the Cowardin class and Hydrogeomorphic (HGM) class.
- Source of hydrology and direction of flow (if any).
- Dominant plant species by layer (herb, shrub, tree).
- Refer to wetland delineation report if available, and provide copies to the agency (if not previously provided).
- Describe existing uses, including fish and wildlife use (type, abundance, period of use, significance of site).

For rivers, streams, other waterways, lakes and ponds, include a description of, as applicable:

- Streamflow regime (e.g., perennial year-round flow, intermittent seasonal flow, ephemeral event-driven flow). If flow is ephemeral, provide a stream flow assessment or other information that supports your determination.
- Field indicators used to identify the Ordinary High Water Mark (OHWM).
- Channel and bank conditions.
- Type and condition of riparian (streamside) vegetation.
- Channel morphology (structure and shape).
- Stream substrate.
- Assessment of the functional attributes including hydrologic, geomorphic, biological and chemical and nutrient related functions.
- Fish and wildlife (type, abundance, period of use, significance of site).

Section 5. Alternatives to Avoid and Minimize Impacts to Waters

Provide a brief explanation describing how impacts to waters and wetlands are being avoided and minimized on the project site. The alternatives analysis must include:

- Project-specific criteria that are needed to accomplish the stated project purpose.
- A range of alternative sites and designs that were considered with less impact.
- An evaluation of each alternative site and design against the project criteria and a reason for why the alternative was not chosen.
- If the project involves fill in an estuary for a non-water dependent use, a description of Alternative non-estuarine sites must be included.

Section 6. Project Description

Overall Description. Provide a brief description of the overall project, including:

- All associated work with the project both outside and within waters or wetlands.
- Include both temporary and permanent work.
- Total ground disturbance for all associated work (i.e., area and volume of ground disturbance).
- Total area of impervious surfaces created or modified by the project, if applicable.

Work within Waters and Wetlands. Provide a description of the proposed work within waters and wetlands, including:

- Each removal or fill activity proposed in waters or wetlands, as well as any construction or maintenance of in-water or over-water structures.
- The number and dimensions of in-water or over-water structures (i.e., pilings, floating docks) proposed within waters or wetlands.

Fill Material and Disposal. Provide a description of fill material and procedure for disposal of removed material, including:

- The source(s) of fill materials (if known).
- Locations for disposal area(s) for dredged material, if applicable. If dredged material is to be discharged on an upland site, identify the site and the steps to be taken (if necessary) to prevent runoff from the dredged material back into a waterbody.

Construction Methods. Describe how the removal and/or fill activities will be accomplished including the following:

- Construction methods, equipment to be used, access and staging areas, etc.
- Measures you will use during construction to minimize impacts to the waterway or wetland. Examples may include isolating work areas, controlling construction access and using specialized equipment or materials. Attach work area isolation and/or erosion and pollution control plans, if applicable.

Construction Timing. Provide the proposed start and completion date for the project. Describe project work that is already complete, if applicable.

Summary of removal and fill activities. Summarize the dimensions, volume and type/composition of material being placed or removed in each waterbody or wetland. Describe each impact on a separate row. For instance, if two culverts are being removed from Clear Creek, use two rows. Add extra rows if needed, or include an attachment.

Section 7. Additional Information

Any additional information you provide helps the reviewer(s) understand your project and the other approvals or reviews that may be required. Is the project located within any of the following:

Wetlands, mudflats, vegetated shallows/seagrass beds, coral reefs, riffle and pool complexes?

Section 8. Site Restoration/Rehabilitation and Compensatory Mitigation

Site Restoration/Rehabilitation. For temporary disturbance of soils and/or vegetation in waterways, wetlands or riparian (streamside) areas, discuss how you will restore the site after construction. This may include the following:

- Grading plans to restore pre-existing elevations.
- Planting plans and species list (native species only) to replace vegetation in riparian or wetland areas.
- Maintenance and monitoring plans to document restoration to wetland condition and/or vegetation establishment.
- Associated erosion control for site stabilization.

Compensatory Mitigation. Describe your proposed compensatory mitigation approach, or explain why you believe compensatory mitigation is not required. If proposing permittee-responsible mitigation for permanent impact to wetlands, see 33 CFR 332.4(c) for plan requirements. For permanent impact to waters other than wetlands, 33 CFR 332.4(c) for plan requirements.

Section 9. Adjacent Property Owners for Impact and Mitigation Site(s)

Names and addresses for properties that are adjacent to the project site and permittee responsible mitigation site (if applicable), are required. "Adjacent" means those properties that share or touch upon a common property line or are across the street or stream. If more than 5, attach pre-printed labels.

Section 10. List of Other Certificates or Approvals/Denials received from other Federal, State, or Local Agencies for Work Described in This Application.

Section 11. Signatures

The application must be signed by the responsible party, landowner and agent, as identified in section 1.

Section 12: Attachments

Project Drawings. A complete application must include a location map, site plan, cross-section drawings and recent aerial photo (See examples). All drawings should be clear, legible and formatted for 8.5 by 11 printing. Larger drawings may be submitted in addition to the 8.5 by 11 size. Use the fewest number of sheets necessary for your drawings or illustrations. While illustrations need not be professionally prepared, they should be clear, accurate, and contain all necessary information, as follows:

Location maps (with subject property identified):

- Location map with roads identified
- U.S.G.S. Topographic map
- Tax lot map (with subject tax lot(s) identified)

Site plan(s), including:

- Entire project site and activity areas
- Existing and proposed contours
- Location of ordinary high water, wetland boundaries or other jurisdictional boundaries (include wetland delineation report if not previously provided)
- Identification of temporary and permanent impact areas within waterways or wetlands
- Map scale or dimensions and north arrow
- Location of staging areas and construction access
- Location of cross section(s), as applicable
- Location of mitigation area, if applicable

Cross section drawing(s), including:

- Existing and proposed elevations
- Identification of temporary and permanent impact areas within waterways or wetlands
- Ordinary high water and/or wetland boundary or other jurisdictional boundaries
- Map scale or dimensions

Recent Aerial photo

- 1:200, or if not available for your site, highest resolution possible.



MUNEKIYO HIRAGA

Planning. Project Management. Sustainable Solutions.

Michael T. Munekiyo
PRESIDENT

Karlynn K. Fukuda
EXECUTIVE VICE PRESIDENT

Mark Alexander Roy
VICE PRESIDENT

Tessa Munekiyo Ng
VICE PRESIDENT

December 18, 2015

Michelle R. Lynch, Chief
Regulatory Branch
Department of the Army
Honolulu District, U.S. Army Corps of Engineers
Fort Shafter, Hawaii 96858

SUBJECT: Jurisdictional Determination Request for DA File Number POH-2011-00296; Early Consultation for Proposed Maui Police Department Communications Facility at the Lahaina Water Treatment Plant, Lahaina, Maui, Hawaii, TMK (2) 4-6-018:012 (por.)

Dear Ms. Lynch:

Thank you for your letter dated September 2, 2015, providing early consultation comments on the proposed Maui Police Department (MPD) Communications Facility at the Lahaina Water Treatment Plant (WTP). The MPD is proposing the construction of a communications facility that will meet departmental needs in terms of coverage, reliability, capacity, and security. The proposed action will enhance the existing communication infrastructure and provide a secure communications facility for governmental agencies that provide public, health, safety, and emergency services within the County of Maui. On behalf of the MPD, we offer the following responses to your comments in the order of your comments:

1. The project site is located at an elevation of approximately 800 feet in the Lahaina uplands, more than 300 feet south of Kanaha Stream, which runs down the middle of Kanaha Gulch. See **Attachment "A"**. Furthermore, the difference in elevation between Kanaha Stream and the project site exceeds 100 feet, which places the project well beyond the limits of the Stream's ordinary high water mark. Photos of the project site and the nearby Gulch are also included to show the spatial relationship between the Kanaha Stream and the project site. Refer to **Attachment "A"**.

Maui: 305 High Street, Suite 104 • Wailuku, Hawaii 96793 • Tel: 808.244.2015 • Fax: 808.244.8729

Oahu: 735 Bishop Street, Suite 321 • Honolulu, Hawaii 96813 • Tel: 808.983.1233

www.munekiyohiraga.com

Michelle R. Lynch, Chief
December 18, 2015
Page 2

2. We are providing a site plan showing coordinates of the communication tower for your reference. See **Attachment "B"**. Based upon the County of Maui's Tax Map, the property line for the parcel underlying the project site is at the top of the pali (cliff). See **Attachment "C"**. At its closest point, the project boundary is approximately 80 feet from the property line bordering the pali.
3. There will be no discharge or placement of dredged or fill material into waters of the U.S. or adjacent wetlands. No structures will be installed or work conducted in, over, under, or affecting navigable waters.

Given that the information provided herein shows that the project site is outside of and not anticipated to impact any waters of the U.S., adjacent wetlands, or navigable waters, we are respectfully requesting a determination from your office that a Department of the Army permit is not required for the project.

Should you have any questions or require additional information to fulfill this request please contact me at (808) 244-2015.

Very truly yours,



Marisa Fujimoto
Senior Associate

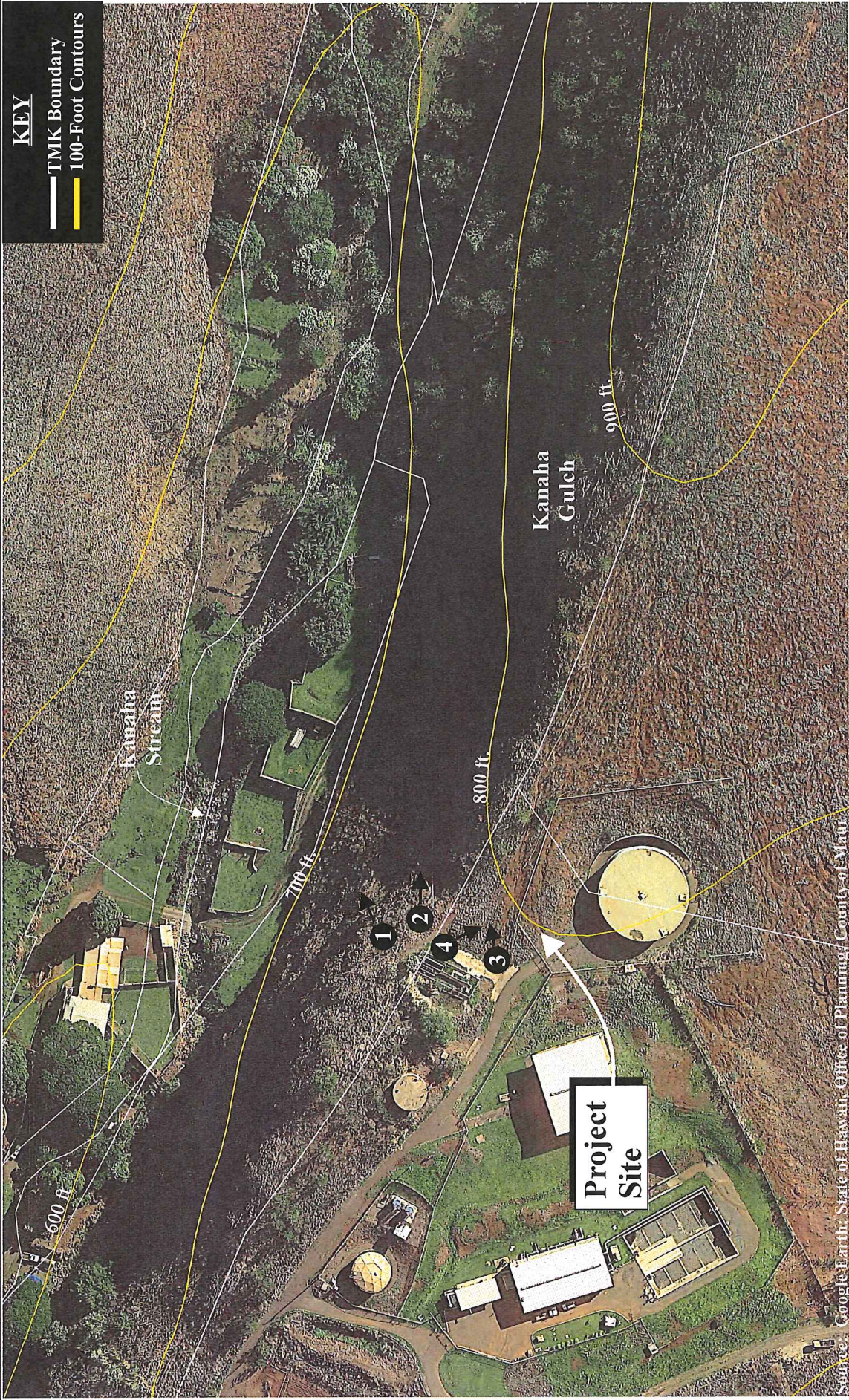
MF:tn

Attachments

cc: John Sakaguchi, Wilson Okamoto Corporation
Walter Pacheco, Maui Police Department

K:\DATA\WOC\Lahinaluna WTF 1841\Responses ECL\Army response.doc

ATTACHMENT "A"
Photographs of the Project Site



Proposed Maui Police Department Communications Facility at the Lahaina Water Treatment Plant

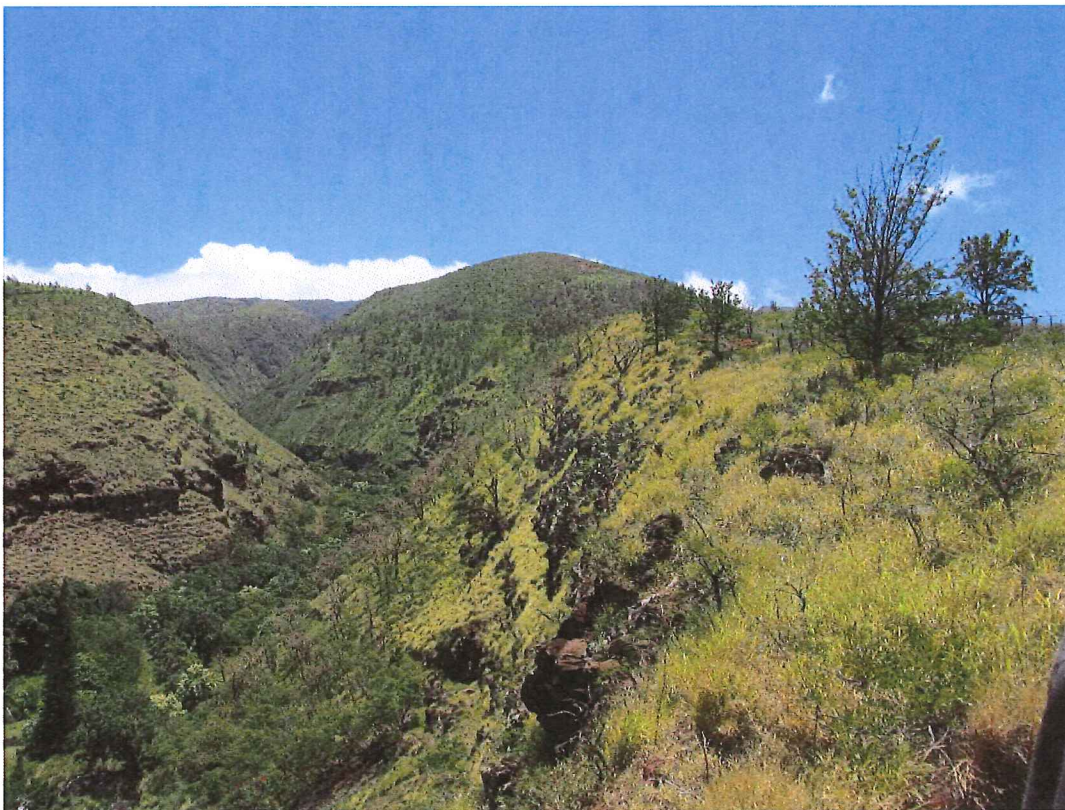
Photographic Reference Map



Prepared for: County of Maui, Police Department



**Photo No. 1: Northeast view of gulch floor
(project site is on uplands to the right at the top of the pali)**



**Photo No. 2: East view of the pali
(project site is to the right at the top of the pali)**

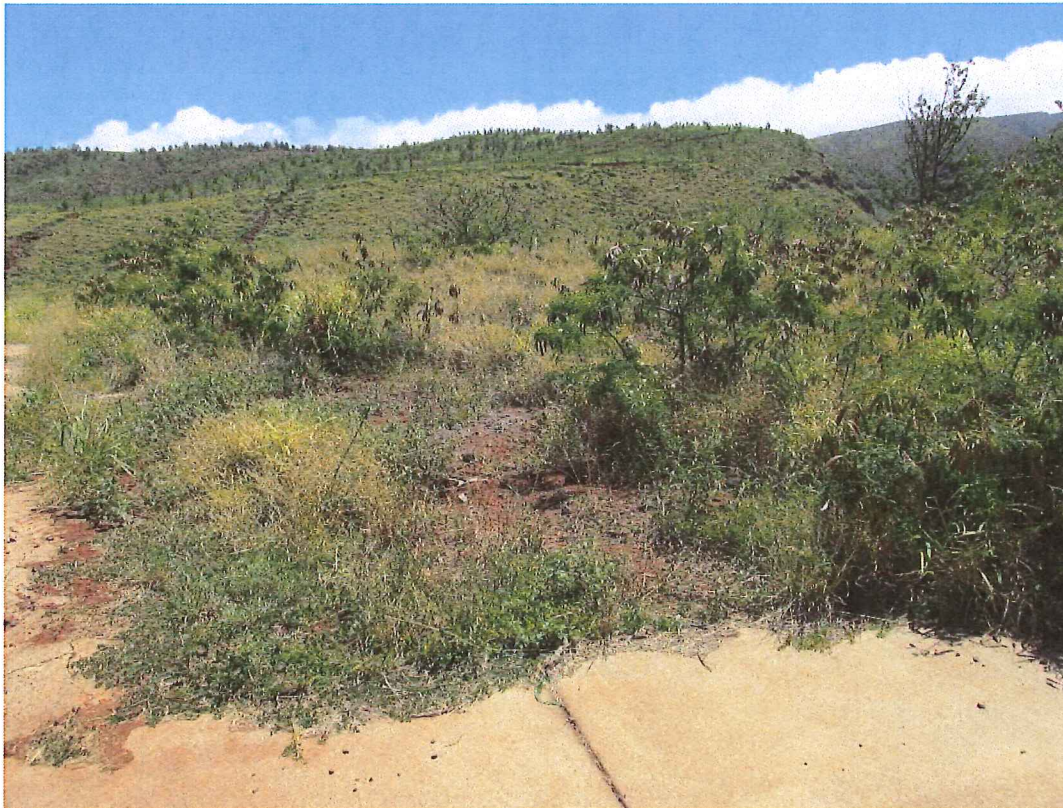
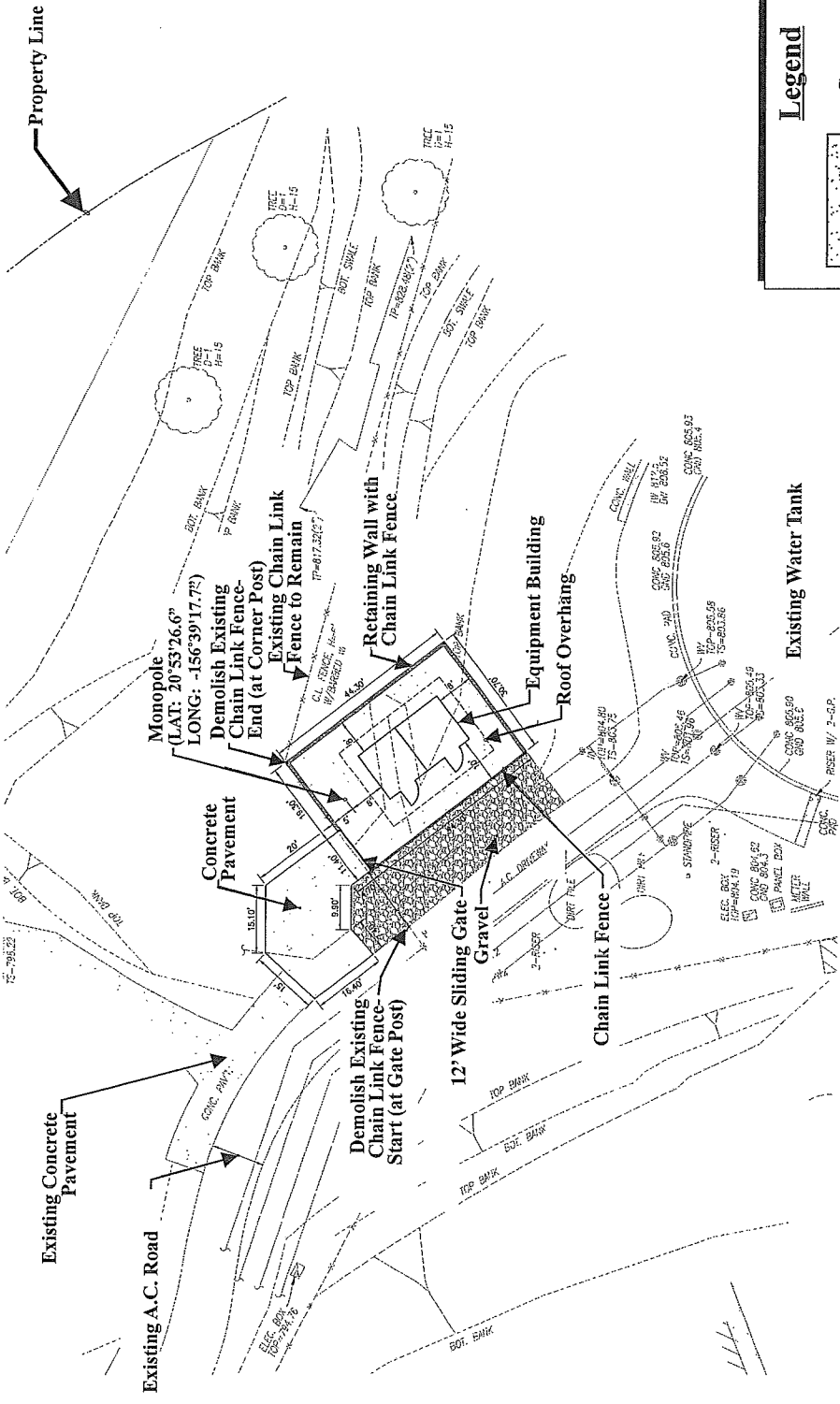


Photo No. 3: East view along top of pali






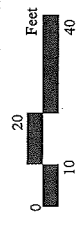
**Photo No. 4: Southeast view of project area
(MPD communication facility to be constructed within water tank fenced area)**

ATTACHMENT "B"
Site Plan with Coordinates

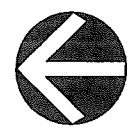


Legend

-  Concrete Pavement
-  Retaining Wall
-  Chain Link



Proposed Maui Police Department Communications Facility at Lāhainā Water Treatment Plant Site Plan



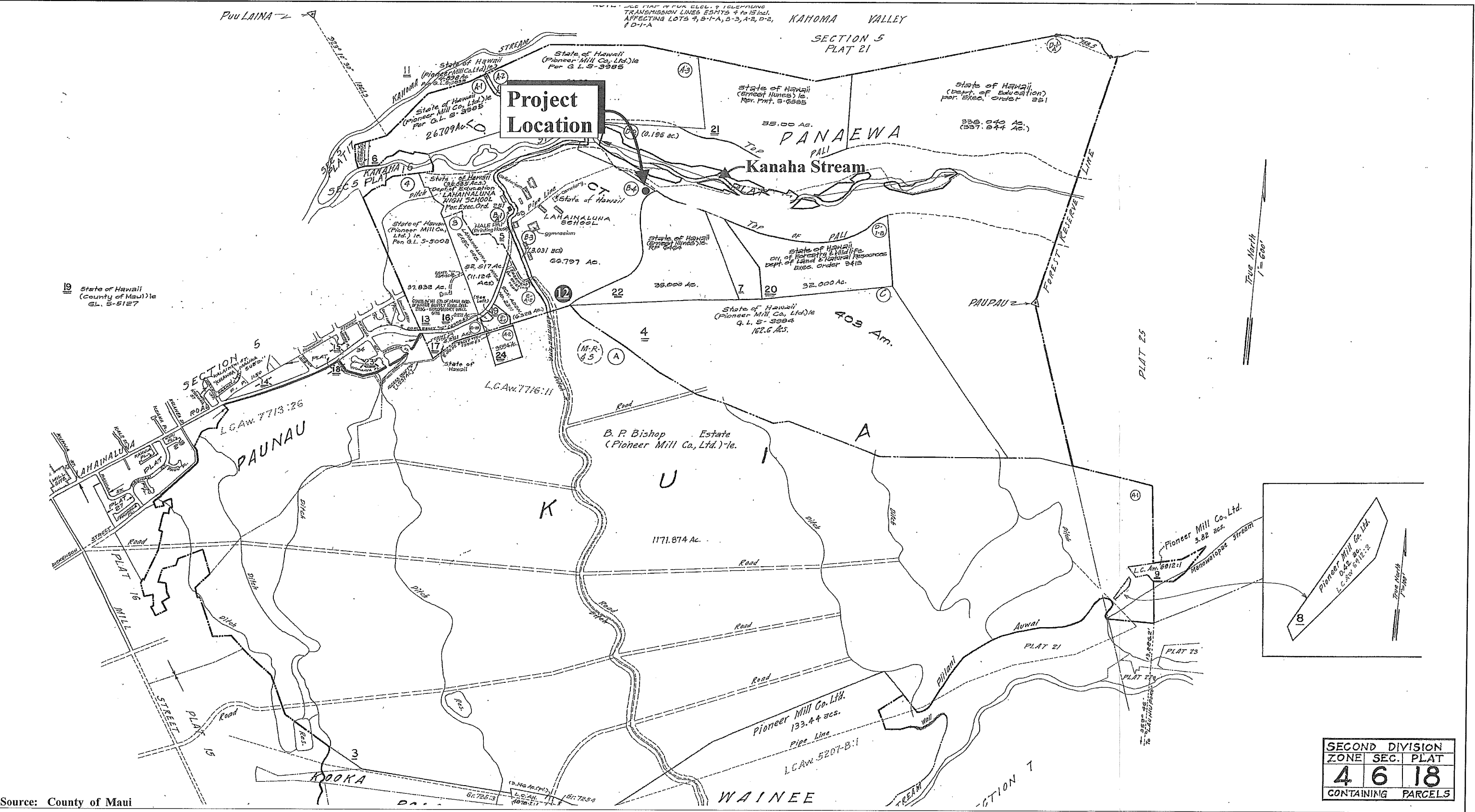
Source: Wilson Okamoto Corporation

Prepared for: County of Maui, Police Department



WOC/Lahaineluna WTF 1841/Site Plan (DOA)

ATTACHMENT “C”
County of Maui Tax Map

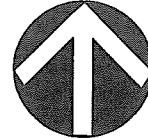
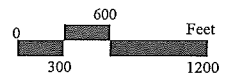


Source: County of Maui

Proposed Maui Police Department Communications Facility at the Lahaina Water Treatment Plant

TMK Map

SECOND DIVISION		
ZONE	SEC.	PLAT
4	6	18
CONTAINING PARCELS		



Prepared for: County of Maui, Police Department

MUNEKIYO HIRAGA



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Pacific Islands Fish and Wildlife Office
300 Ala Moana Boulevard, Room 3-122
Honolulu, Hawaii 96850

In Reply Refer To:
01EPIF00-2015-SL-0388

SEP 28 2015

Ms. Marisa Fujimoto
Munekiyo Hiraga
350 High Street, Suite 104
Honolulu, HI 96813

Subject: Species List for Maui Police Department Communications Facility at the Lahaina Water Treatment Facility, Lahaina, Maui

Dear Ms. Fujimoto:

The U.S. Fish and Wildlife Service (Service) received your correspondence on August 10, 2015, requesting a list of species listed under the Endangered Species Act (ESA) of 1973, as amended (16 U.S.C. 1531 *et seq.*) near the proposed construction site of a communications facility at the Lahaina water treatment facility in Lahaina, Maui (TMK: [2] 4-6-018:012 (por.)). The proposed action is approximately 700 feet east of Lahainaluna High School on land owned by the State of Hawaii within an easement for the County of Maui. The project includes erecting a 60-foot high monopole with three four-foot microwave antennas, a concrete equipment building with radio room and generator, a driveway, eight-foot security fence, and retaining wall. The map provided with the original letter was insufficient for us to make a determination of which species could be in the vicinity of the project, but a phone conversation on September 11, 2015, between Service biologist Jon Sprague and Reggie David of Rana Biological Consulting, who will be assisting in the Section 7 consultation for this project, clarified the specific location of the project.

Based on information you provided and pertinent information in our files, including data compiled by the Hawaii Biodiversity and Mapping Project, there are five listed species in the vicinity of the project area: the endangered Hawaiian hawk (*Buteo solitarius*), Blackburn's sphinx moth (*Manduca blackburni*), Hawaiian hoary bat (*Lasiurus cinereus semotus*) and Hawaiian petrel (*Pterodroma phaeopygia sandwichensis*), and the threatened Newell's shearwater (*Puffinusauricularis newelli*). There is critical habitat up-slope of the project site for several species of listed plants. The Service recommends the following measures to avoid and minimize project impacts to listed species:

Hawaiian hoary bat

The Hawaiian hoary bat is known to occur across a broad range of habitats throughout the State of Hawaii. This bat roosts in both exotic and native woody vegetation and, while foraging, leaves young unattended in "nursery" trees and shrubs. If trees or shrubs suitable for bat roosting are cleared during the Hawaiian hoary bat breeding season (June 1 to September 15), there is a

risk that young bats that cannot yet fly on their own could inadvertently be harmed or killed. As a result, the Service recommends that woody plants greater than 15 feet tall should not be removed or trimmed during the Hawaiian hoary bat breeding season. Additionally, Hawaiian hoary bats forage for insects from as low as three feet to higher than 500 feet above the ground. When barbed wire is used in fencing, Hawaiian hoary bats can become entangled. The Service, therefore, recommends that barbed wire not be used for fencing as part of this proposed action.

Blackburn's sphinx moth

The Blackburn's sphinx moth could potentially be in the vicinity of the proposed project area. Adult moths feed on nectar from native plants, including beach morning glory (*Ipomoea pes-caprae*), iliee (*Plumbago zeylanica*), and maiapilo (*Capparis sandwichiana*); larvae feed upon non-native tree tobacco (*Nicotiana glauca*) and native aiea (*Nothocestrum latifolium*). To pupate, the larvae burrow into the soil and can remain in a state of torpor for up to a year (or more) before emerging from the soil. Soil disturbance can result in death of the pupae. The Service recommends that a qualified biologist survey areas of proposed construction activities for Blackburn's sphinx moth and its host plants prior to work initiation. We recommend these surveys be conducted during the wettest portion of the year (usually November-April or several weeks after a significant rain) and immediately prior to construction. Surveys should include searches for eggs, larvae, and signs of larval feeding (chewed stems, frass, or leaf damage). Any host plants of Blackburn's sphinx moth identified should not be cut or disturbed.

Seabirds

Hawaiian petrels and Newell's shearwaters (collectively known as seabirds) may transit over the project area when flying between the ocean and upland breeding colonies. Many bird species are known to strike objects, such as antennas or guywires, protruding above surrounding vegetation. In Hawaii, seabirds are attracted to lights and are known to collide with buildings, light poles, wires, and other tall objects. To minimize impacts to seabirds in Hawaii, we recommend minimizing the total surface area of the proposed tower and avoiding the use of guy wires. Any lights associated with the project should be cut-off, equipped with a motion sensor, or shielded so that the light cannot be seen from above. If the top of the tower must be lighted to meet FAA regulations, we recommend the use of a red flashing light versus the use of red or white solid light, if possible.

Critical Habitat for Listed Plant Species

Given your description of the proposed project and its location relative to the designated critical habitat, it is unlikely that critical habitat concerns will overlap with project development. However, if the project description or location changes, please contact us for further guidance.

Implementation of these measures will minimize but does not ensure that take of listed species associated with this proposed action will be fully avoided. The Federal Communications Commission (FCC) has designated the licensees, applicants, tower companies and their representatives as non-Federal representatives for informal section 7 consultation with the U.S. Fish and Wildlife Service pursuant to the Endangered Species Act of 1973. We recommend the FCC or its non-Federal representative consult with the Service to address potential project impacts to listed species.

Ms. Marisa Fujimoto

3

Thank you for your efforts to conserve listed species and native habitats. Please contact Fish and Wildlife Biologist Jon Sprague (808-792-9573) if you have any questions or for further guidance.

Sincerely,

A handwritten signature in black ink, appearing to read "Michelle Bogardus". The signature is fluid and cursive, with a long horizontal flourish at the end.

Michelle Bogardus
Island Team Leader
Maui Nui and Hawaii Island



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Michael T. Munekiyo
PRESIDENT

Karlynn K. Fukuda
EXECUTIVE VICE PRESIDENT

Mark Alexander Roy
VICE PRESIDENT

Tessa Munekiyo Ng
VICE PRESIDENT

December 18, 2015

Michelle Bogardus
United States Department of the Interior
Fish and Wildlife Service
300 Ala Moana Boulevard, Room 3-122
Honolulu, Hawai'i 96850

SUBJECT: Early Consultation for Proposed Maui Police Department
Communications Facility at the Lahaina Water Treatment Plant,
Lahaina, Maui, Hawaii, TMK (2) 4-6-018:012 (por.)

Dear Ms. Bogardus:

Thank you for your letter which we received on September 9, 2015, providing early consultation comments on the proposed Maui Police Department (MPD) Communications Facility at the Lahaina Water Treatment Plant. We understand that you will be working with Reggie David of Rana Biological Consulting, who will be assisting with the Section 7 consultation for this project.

We appreciate your input and will include a copy of your comment letter along with this response letter in the Draft Environmental Assessment for the proposed project. Should you have any questions, please contact me at 244-2015.

Very truly yours,

Marisa Fujimoto
Senior Associate

MF:lh

cc: John Sakaguchi, Wilson Okamoto Corporation
Walter Pacheco, Maui Police Department

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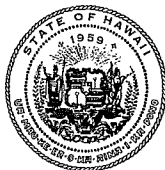
Maui: 305 High Street, Suite 104 • Wailuku, Hawaii 96793 • Tel: 808.244.2015 • Fax: 808.244.8729

Oahu: 735 Bishop Street, Suite 321 • Honolulu, Hawaii 96813 • Tel: 808.983.1233

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AUG 31 2015

DAVID Y. IGE
GOVERNOR



KATHRYN S. MATAYOSHI
SUPERINTENDENT

STATE OF HAWAII
DEPARTMENT OF EDUCATION
P.O. BOX 2360
HONOLULU, HAWAII 96804

OFFICE OF SCHOOL FACILITIES AND SUPPORT SERVICES

August 27, 2015

Ms. Marisa Fujimoto
Senior Associate
Munekiyo & Hiraga Inc.
305 High Street, Suite 104
Wailuku, Hawaii 96793

Re: Early Consultation for Proposed Maui Police Department
Communications Facility at the Lahaina Water Treatment Plant
Lahaina, Maui TMK: 4-6-018:012

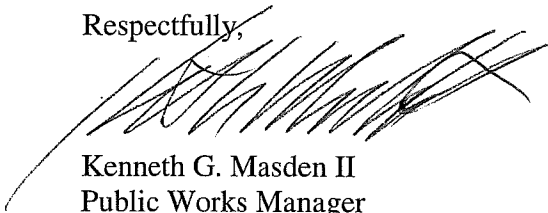
Dear Ms. Fujimoto:

The Department of Education (DOE) has reviewed your letter dated August 6, 2015, regarding early consultation for the proposed Maui Police Department communications facility at the Lahaina Water Treatment Plant.

As your letter acknowledges, the project is proposed to be situated on a parcel owned by the State of Hawaii. Due to the immediate proximity to Lahainaluna High School, the DOE would appreciate an opportunity to meet and discuss specific details regarding, but not limited to, access to the site, traffic impacts (especially during construction), needed utilities to operate said facility, and various environmental and health and safety matters. At some point, it is likely that we would bring the Department of Land and Natural Resources into the discussion.

Thank you for the opportunity to comment on the proposed communications facility. At your earliest possible convenience, please call Roy Ikeda of the Facilities Development Branch at (808) 377-8301 or via email at roy_ikeda@notes.k12.hi.us to schedule a meeting time.

Respectfully,



Kenneth G. Masden II
Public Works Manager
Planning Section

KGM:jmb

c: Lindsay Ball, Complex Area Superintendent, Hana/Lahainaluna/Lanai/Molokai Complex Areas



December 18, 2015

Kenneth G. Masden II
Public Works Manager
State of Hawaii
Department of Education
P.O. Box 2360
Honolulu, Hawaii 96804

SUBJECT: Early Consultation for Proposed Maui Police Department Communications Facility at the Lahaina Water Treatment Plant, Lahaina, Maui, Hawaii, TMK (2) 4-6-018:012 (por.)

Dear Mr. Masden:

Thank you for your letter dated August 27, 2015, providing early consultation comments on the proposed Maui Police Department (MPD) Communications Facility at the Lahaina Water Treatment Plant (WTP). On behalf of the MPD, we offer the following responses to your comments in the order of your comments:

1. Preliminary discussions with the DWS indicate they have been working with DLNR to subdivide the DWS facility from the surrounding land within the State-owned parcel. Please note that the communication facility will occupy an area of approximately 30-feet by 45-feet, or around 1,400 square feet within the fenced area of the existing 1.0 million gallon WTP reservoir. This would place the project site over 450 feet west of the fence along the boundary of the WTP closest to the school, 800 feet from the dormitory building, and 1,000 feet from the closest school building, ensuring that the operation of the communication facility does not conflict with the school's facility.
2. Construction access to the project site will be via the roadway access for the WTP and will be scheduled to avoid peak school traffic hours.

Kenneth G. Masden II
Public Works Manager
December 18, 2015
Page 2

3. Utilities required for the facility include electrical and telephone service, which will connect to existing nearby facilities serving the DWS facility. The facility will not require water or wastewater services. No new utilities are anticipated within the school's facility.

At the appropriate time, the MPD will follow-up with the Department of Education and Department of Land and Natural Resources to discuss the above in further detail, along with any environmental or health and safety concerns you may have.

We appreciate your input and will include a copy of your comment letter along with this response letter in the Draft Environmental Assessment for the proposed project. If you have any questions regarding this matter please feel free to contact our office at (808) 244-2015.

Very truly yours,



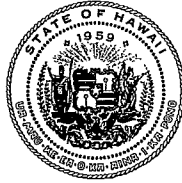
Marisa Fujimoto
Senior Associate

MF:tn

cc: John Sakaguchi, Wilson Okamoto Corporation
Walter Pacheco, Maui Police Department

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DAVID Y. IGE
GOVERNOR OF HAWAII



AUG 17 2015

VIRGINIA PRESSLER, M.D.
DIRECTOR OF HEALTH

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

In reply, please refer to:
File:

EPO 15-203

August 12, 2015

Ms. Marisa Fujimoto
Senior Associate
Munekiyo Hiraga
305 High Street, Suite 104
Wailuku, Hawaii 96793

Dear Ms. Fujimoto:

**SUBJECT: Early Consultation (EC) Request for Proposed Maui Police Department Communications Facility at the Lahaina Water Treatment Plant
TMK: (2) 4-6-018:012 (por)**

The Department of Health (DOH), Environmental Planning Office (EPO), acknowledges receipt of your EC to our office on August 10, 2015. Thank you for allowing us to review and comment on the proposed project. The EC was routed to the District Health Office on Maui, and the Clean Water, and Wastewater Branches. They will provide specific comments to you if necessary. EPO recommends that you review the standard comments and available strategies to support sustainable and healthy design provided at: <http://health.hawaii.gov/epo/home/landuse-planning-review-program>. Projects are required to adhere to all applicable standard comments.

EPO also encourages you to examine and utilize the Hawaii Environmental Health Portal. The portal provides links to our e-Permitting Portal, Environmental Health Warehouse, Groundwater Contamination Viewer, Hawaii Emergency Response Exchange, Hawaii State and Local Emission Inventory System, Water Pollution Control Viewer, Water Quality Data, Warnings, Advisories and Postings. The Portal is continually updated. Please visit it regularly at: <https://eha-cloud.doh.hawaii.gov>

We request that you utilize all of this information on your proposed project to increase sustainable, innovative, inspirational, transparent and healthy design.

Mahalo nui loa,

Laura Leialoha Phillips McIntyre, AICP
Program Manager, Environmental Planning Office

c: DOH: CWB, WWB, DHO Maui {via email only}



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Michael T. Munekiyo
PRESIDENT

Karlynn K. Fukuda
EXECUTIVE VICE PRESIDENT

Mark Alexander Roy
VICE PRESIDENT

Tessa Munekiyo Ng
VICE PRESIDENT

December 18, 2015

Laura Leialoha Phillips McIntyre, AICP
Program Manager
State of Hawaii
Department of Health
P.O. Box 3378
Honolulu, Hawaii 96801

SUBJECT: Early Consultation for Proposed Maui Police Department
Communications Facility at the Lahaina Water Treatment Plant,
Lahaina, Maui, Hawaii, TMK (2) 4-6-018:012 (por.)

Dear Ms. McIntyre:

Thank you for your letter dated August 12, 2015 providing early consultation comments on the proposed Maui Police Department (MPD) Communications Facility at the Lahaina Water Treatment Plant. On behalf of the MPD, we acknowledge that the Department of Health, Environmental Planning Office does not have any specific comments on the proposed project at this time and has routed the early consultation letter to the Maui District Health Office, Clean Water, and Wastewater Branches for further review. Additionally, the applicant will adhere to applicable comments from the Department's website, as appropriate.

Laura Leialoha Phillips McIntyre, AICP
December 18, 2015
Page 2

We appreciate your prompt response and will include a copy of your comment letter along with this response letter in the Draft Environmental Assessment for the proposed project. Should you have any questions, please contact me at (808) 244-2015.

Very truly yours,

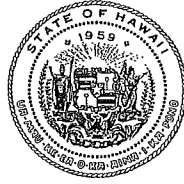


Marisa Fujimoto
Senior Associate

MF:tn

cc: John Sakaguchi, Wilson Okamoto Corporation
Walter Pacheco, Maui Police Department

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AUG 20 2015

VIRGINIA PRESSLER, M.D.
DIRECTOR OF HEALTH

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

In reply, please refer to:
File:

08025PGH.15

August 17, 2015

Ms. Marisa Fujimoto
Senior Associate
Munekiyo Hiraga
305 High Street, Suite 104
Wailuku, Hawaii 96793

Dear Ms. Fujimoto:

SUBJECT: Comments on Early Consultation Request for Proposed Maui Police Department Communications Facility at the Lahaina Water Treatment Plant TMK (2) 4-6-018:012 (por.) Lahaina, Island of Maui, Hawaii

The Department of Health (DOH), Clean Water Branch (CWB), acknowledges receipt of your letter, dated August 6, 2015, requesting comments on your project. The DOH-CWB has reviewed the subject document and offers these comments. Please note that our review is based solely on the information provided in the subject document and its compliance with the Hawaii Administrative Rules (HAR), Chapters 11-54 and 11-55. You may be responsible for fulfilling additional requirements related to our program. We recommend that you also read our standard comments on our website at: <http://health.hawaii.gov/epo/files/2013/05/Clean-Water-Branch-Std-Comments.pdf>

1. Any project and its potential impacts to State waters must meet the following criteria:
 - a. Antidegradation policy (HAR, Section 11-54-1.1), which requires that the existing uses and the level of water quality necessary to protect the existing uses of the receiving State water be maintained and protected.
 - b. Designated uses (HAR, Section 11-54-3), as determined by the classification of the receiving State waters.
 - c. Water quality criteria (HAR, Sections 11-54-4 through 11-54-8).
2. You may be required to obtain National Pollutant Discharge Elimination System (NPDES) permit coverage for discharges of wastewater, including storm water runoff, into State surface waters (HAR, Chapter 11-55).

For NPDES general permit coverage, a Notice of Intent (NOI) form must be submitted at least 30 calendar days before the commencement of the discharge. An application for a NPDES individual permit must be submitted at least 180 calendar days before the commencement of the discharge. To request NPDES permit coverage, you must submit the applicable form ("CWB Individual NPDES Form" or "CWB NOI Form") through the e-Permitting Portal and the hard copy certification statement with the respective filing fee (\$1,000 for an individual NPDES permit or \$500 for a Notice of General Permit Coverage). Please open the e-Permitting Portal website located at: <https://eha-cloud.doh.hawaii.gov/epermit/>. You will be asked to do a one-time registration to obtain your login and password. After you register, click on the Application Finder tool and locate the appropriate form. Follow the instructions to complete and submit the form.

3. If your project involves work in, over, or under waters of the United States, it is highly recommended that you contact the Army Corp of Engineers, Regulatory Branch (Tel: 835-4303) regarding their permitting requirements.

Pursuant to Federal Water Pollution Control Act [commonly known as the "Clean Water Act" (CWA)], Paragraph 401(a)(1), a Section 401 Water Quality Certification (WQC) is required for "[a]ny applicant for Federal license or permit to conduct any activity including, but not limited to, the construction or operation of facilities, which may **result** in any discharge into the navigable waters..." (emphasis added). The term "discharge" is defined in CWA, Subsections 502(16), 502(12), and 502(6); Title 40 of the Code of Federal Regulations, Section 122.2; and Hawaii Administrative Rules (HAR), Chapter 11-54.

4. Please note that all discharges related to the project construction or operation activities, whether or not NPDES permit coverage and/or Section 401 WQC are required, must comply with the State's Water Quality Standards. Noncompliance with water quality requirements contained in HAR, Chapter 11-54, and/or permitting requirements, specified in HAR, Chapter 11-55, may be subject to penalties of \$25,000 per day per violation.
5. It is the State's position that all projects must reduce, reuse, and recycle to protect, restore, and sustain water quality and beneficial uses of State waters. Project planning should:
 - a. Treat storm water as a resource to be protected by integrating it into project planning and permitting. Storm water has long been recognized as a source of irrigation that will not deplete potable water resources. What is often overlooked is that storm water recharges ground water supplies and feeds streams and estuaries; to ensure that these water cycles are not disrupted, storm water cannot be relegated as a waste product of impervious surfaces. Any project planning must recognize storm water as an asset that sustains and protects natural ecosystems and traditional beneficial uses of State waters, like community beautification, beach going, swimming, and fishing. The approaches necessary to do so, including low impact development methods or ecological

bio-engineering of drainage ways must be identified in the planning stages to allow designers opportunity to include those approaches up front, prior to seeking zoning, construction, or building permits.

- b. Clearly articulate the State's position on water quality and the beneficial uses of State waters. The plan should include statements regarding the implementation of methods to conserve natural resources (e.g. minimizing potable water for irrigation, gray water re-use options, energy conservation through smart design) and improve water quality.
- c. Consider storm water Best Management Practice (BMP) approaches that minimize the use of potable water for irrigation through storm water storage and reuse, percolate storm water to recharge groundwater to revitalize natural hydrology, and treat storm water which is to be discharged.
- d. Consider the use of green building practices, such as pervious pavement and landscaping with native vegetation, to improve water quality by reducing excessive runoff and the need for excessive fertilization, respectively.
- e. Identify opportunities for retrofitting or bio-engineering existing storm water infrastructure to restore ecological function while maintaining, or even enhancing, hydraulic capacity. Particular consideration should be given to areas prone to flooding, or where the infrastructure is aged and will need to be rehabilitated.

If you have any questions, please visit our website at: <http://health.hawaii.gov/cwb/>, or contact the Engineering Section, CWB, at (808) 586-4309.

Sincerely,


ALEC WONG, P.E., CHIEF
Clean Water Branch

GH:ay

December 18, 2015

Alec Wong, P.E., Chief
State of Hawaii
Department of Health
Clean Water Branch
P.O. Box 3378
Honolulu, Hawaii 96801

SUBJECT: Early Consultation for Proposed Maui Police Department Communications Facility at the Lahaina Water Treatment Plant, Lahaina, Maui, Hawaii, TMK (2) 4-6-018:012 (por.)

Dear Mr. Wong:

Thank you for your letter dated August 17, 2015, providing early consultation comments on the proposed Maui Police Department (MPD) Communications Facility at the Lahaina Water Treatment Plant. On behalf of the MPD, we offer the following responses to your comments in the order of your comments:

1. As applicable, the criteria regarding potential impacts to State waters will be reviewed and adhered to by the applicant.
2. National Pollutant Discharge Elimination System (NPDES) permit coverage requirements will be reviewed and adhered to by the applicant as applicable to the proposed project.
3. The proposed project does not involve work in, over, or under waters of the United States.
4. The State's Water Quality Standards will be reviewed and adhered to by the applicant as applicable for the proposed project.

Alec Wong, P.E., Chief
December 18, 2015
Page 2

5. The proposed project will be designed to protect, restore, and sustain water quality and beneficial uses of State waters.

We appreciate your input and will include a copy of your comment letter along with this response letter in the Draft Environmental Assessment for the proposed project. If you have any questions regarding this matter please feel free to contact our office at (808) 244-2015.

Very truly yours,



Marisa Fujimoto
Senior Associate

MF:tn

cc: John Sakaguchi, Wilson Okamoto Corporation
Walter Pacheco, Maui Police Department

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DAVID Y. IGE
GOVERNOR OF HAWAII



AUG 28 2015

VIRGINIA PRESSLER, M.D.
DIRECTOR OF HEALTH

LORRIN W. PANG, M.D., M.P.H.
DISTRICT HEALTH OFFICER

STATE OF HAWAII
DEPARTMENT OF HEALTH
MAUI DISTRICT HEALTH OFFICE
54 HIGH STREET
WAILUKU, HAWAII 96793-3378

August 26, 2015

Ms. Marisa Fujimoto
Senior Associate
Munekiyo & Hiraga
305 High Street, Suite 104
Wailuku, Hawaii 96793

Dear Ms. Fujimoto:

**Subject: Early Consultation Request for Proposed Maui Police
Department Communications Facility at the Lahaina Water
Treatment Plant, Lahaina, Maui, Hawaii
TMK: (2) 4-6-018:012 (por.)**

Thank you for the opportunity to review this project. We have the following comments to offer:

The noise created during the construction phase of the project may exceed the maximum allowable levels as set forth in Hawaii Administrative Rules, Chapter 11-46, "Community Noise Control." A noise permit may be required and should be obtained before the commencement of work. Please call the Indoor & Radiological Health Branch at 808 586-4700.

It is strongly recommended that the Standard Comments found at the Department's website: <http://health.hawaii.gov/epo/home/landuse-planning-review-program/> be reviewed and any comments specifically applicable to this project should be adhered to.

Should you have any questions, please contact me at patricia.kitkowski@doh.hawaii.gov or 808 984-8230.

Sincerely,

Patti Kitkowski
District Environmental Health Program Chief

c EPO



MUNEKIYO HIRAGA

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Michael T. Munekiyo
PRESIDENT

Karlynn K. Fukuda
EXECUTIVE VICE PRESIDENT

Mark Alexander Roy
VICE PRESIDENT

Tessa Munekiyo Ng
VICE PRESIDENT

December 18, 2015

Patti Kitkowski, District Environmental
Health Program Chief
State of Hawaii
Department of Health
54 High Street
Wailuku, Hawaii 96793

SUBJECT: Early Consultation for Proposed Maui Police Department
Communications Facility at the Lahaina Water Treatment Plant,
Lahaina, Maui, Hawaii, TMK (2) 4-6-018:012 (por.)

Dear Ms. Kitkowski:

Thank you for your letter dated August 26, 2015, providing early consultation comments on the proposed Maui Police Department (MPD) Communications Facility at the Lahaina Water Treatment Plant. On behalf of the MPD, we offer the following responses to your comments in the order of your comments:

1. A noise permit will be obtained for the project, as applicable.
2. Additionally, the applicant will adhere to applicable comments from the Department's website, as appropriate.

Patti Kitkowski, District Environmental
Health Program Chief
December 18, 2015
Page 2

We appreciate your input, and will include a copy of your comment letter along with this response letter in the Draft Environmental Assessment for the proposed project. If you have any questions regarding this matter, please feel free to contact me at 244-2015.

Very truly yours,



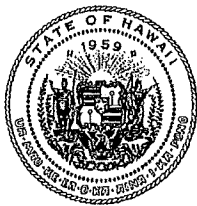
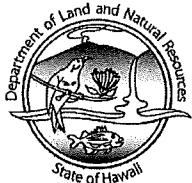
Marisa Fujimoto
Senior Associate

MF:tn

cc: John Sakaguchi, Wilson Okamoto Corporation
Walter Pacheco, Maui Police Department

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DAVID Y. IGE
GOVERNOR OF HAWAII



SUZANNE D. CASE
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE
MANAGEMENT

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
LAND DIVISION

POST OFFICE BOX 621
HONOLULU, HAWAII 96809

September 4, 2015

Munekiyo & Hiraga, Inc.
Attention: Ms. Marisa Fujimoto, Senior Associate
305 High Street, Suite 104
Wailuku, Hawaii 96793

via email: planning@mhplanning.com

Dear Ms. Fujimoto:

SUBJECT: Early Consultation and Section 7 Consultation Request for Proposed Maui Police Department Communications Facility at the Lahaina Water Treatment Plant

Thank you for the opportunity to review and comment on the subject matter. The Department of Land and Natural Resources' (DLNR) Land Division distributed or made available a copy of your report pertaining to the subject matter to DLNR Divisions for their review and comments.

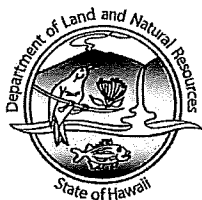
At this time, enclosed are comments from the (a) Engineering Division and (b) State Historic Preservation Division on the subject matter. Should you have any questions, please feel free to call Lydia Morikawa at 587-0410. Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read "Russell Y. Tsuji".

Russell Y. Tsuji
Land Administrator

Enclosure(s)
cc: Central Files



15 AUG 14 AM 11:03 ENGINEERING

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
LAND DIVISION

POST OFFICE BOX 621
HONOLULU, HAWAII 96809

August 13, 2015

MEMORANDUM

TO: PR:

DLNR Agencies:

- Div. of Aquatic Resources
- Div. of Boating & Ocean Recreation
- Engineering Division
- Div. of Forestry & Wildlife
- Div. of State Parks
- Commission on Water Resource Management
- Office of Conservation & Coastal Lands
- Land Division – Maui District
- Historic Preservation

FROM: TD:

Russell Y. Tsuji, Land Administrator

SUBJECT:

Early Consultation and Section 7 Consultation Request for Proposed Maui Police Department Communications Facility

LOCATION:

Lahaina, Island of Maui; TMK: (2) 4-6-018:012 (por.)

APPLICANT:

County of Maui Police Department

Transmitted for your review and comment on the above referenced document. We would appreciate your comments on this document. Please submit any comments by **September 3, 2015**

If no response is received by this date, we will assume your agency has no comments. If you have any questions about this request, please contact Lydia Morikawa at 587-0410. Thank you.

Attachments

- We have no objections.
- We have no comments.
- Comments are attached.

Signed:

Print Name:

Garty S. Chang, Chief Engineer

Date:

8/20/15

cc: Central Files

**DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION**

LD/ Russell Y. Tsuji

**Ref.: Early Consultation and Section 7 Consultation Request for Proposed Maui Police Department
Communications Facility, Lahaina
Maui.025**

COMMENTS

- () We confirm that the project site, according to the Flood Insurance Rate Map (FIRM), is located in Flood Zone ____.
- (X) **Please take note that the project site, according to the Flood Insurance Rate Map (FIRM), is located in Zone X. The National Flood Insurance Program (NFIP) does not regulate developments within Zone X.**
- () Please note that the correct Flood Zone Designation for the project site according to the Flood Insurance Rate Map (FIRM) is ____.
- () Please note that the correct Flood Zone Designation for the project site according to the Flood Insurance Rate Map (FIRM) is ____.
- () Please note that the project must comply with the rules and regulations of the National Flood Insurance Program (NFIP) presented in Title 44 of the Code of Federal Regulations (44CFR), whenever development within a Special Flood Hazard Area is undertaken. If there are any questions, please contact the State NFIP Coordinator, Ms. Carol Tyau-Beam, of the Department of Land and Natural Resources, Engineering Division at (808) 587-0267.

Please be advised that 44CFR indicates the minimum standards set forth by the NFIP. Your Community's local flood ordinance may prove to be more restrictive and thus take precedence over the minimum NFIP standards. If there are questions regarding the local flood ordinances, please contact the applicable County NFIP Coordinators below:

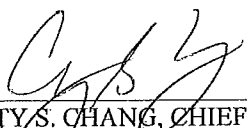
- () Mr. Mario Siu Li at (808) 768-8098 of the City and County of Honolulu, Department of Planning and Permitting.
- () Mr. Carter Romero (Acting) at (808) 961-8943 of the County of Hawaii, Department of Public Works.
- () Mr. Carolyn Cortez at (808) 270-7253 of the County of Maui, Department of Planning.
- () Mr. Stanford Iwamoto at (808) 241-4896 of the County of Kauai, Department of Public Works.

- () The applicant should include project water demands and infrastructure required to meet water demands. Please note that the implementation of any State-sponsored projects requiring water service from the Honolulu Board of Water Supply system must first obtain water allocation credits from the Engineering Division before it can receive a building permit and/or water meter.
- () The applicant should provide the water demands and calculations to the Engineering Division so it can be included in the State Water Projects Plan Update.

- () Additional Comments: _____

- () Other: _____

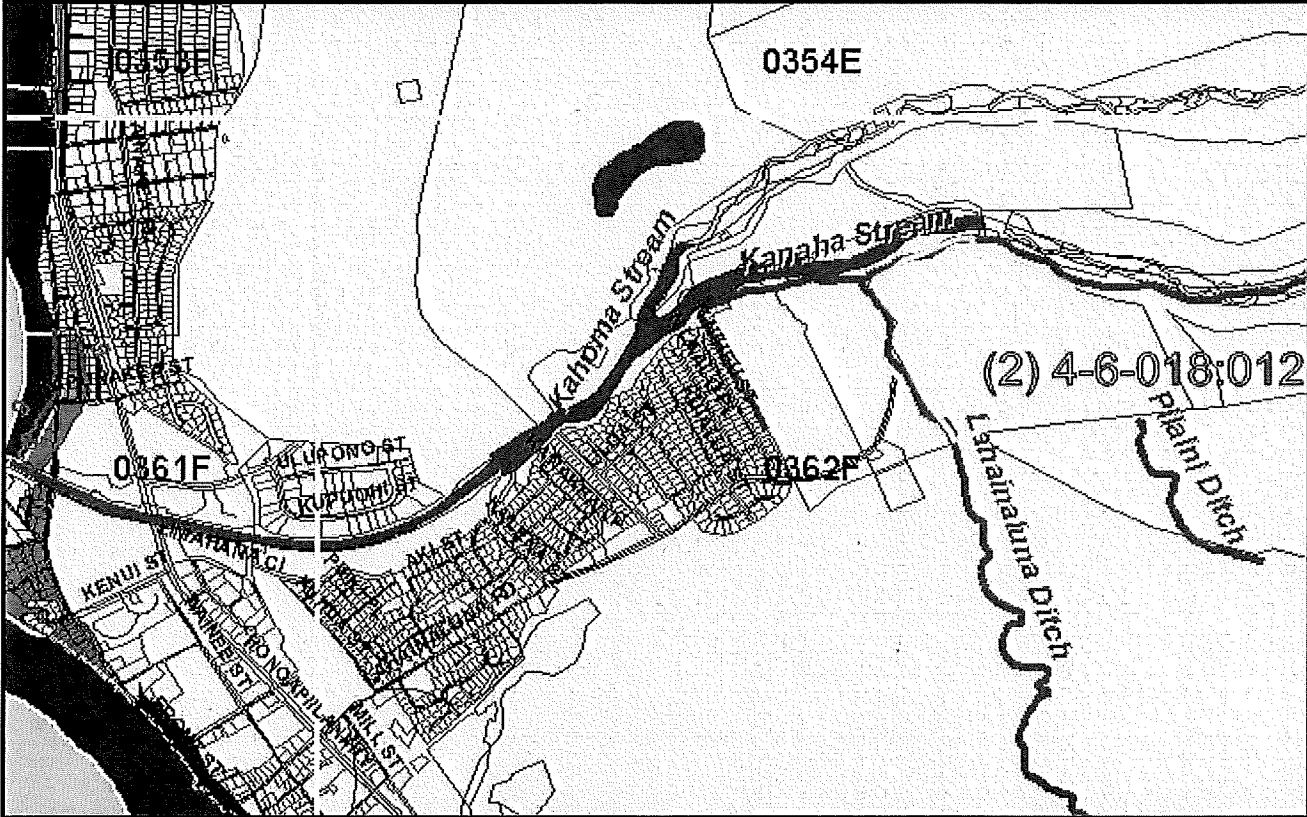
Should you have any questions, please call Mr. Dennis Imada of the Planning Branch at 587-0257.

Signed: 
CARTY S. CHANG, CHIEF ENGINEER

Date: 2/22/15



State of Hawaii FLOOD HAZARD ASSESSMENT REPORT



NATIONAL FLOOD INSURANCE PROGRAM

FLOOD ZONE DEFINITIONS

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD – The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zone A, AE, AH, AO, V, and VE. The Base Flood Elevation (BFE) is the water-surface elevation of the 1% annual chance flood. Mandatory flood insurance purchase applies in these zones:

- Zone A:** No BFE determined.
- Zone AE:** BFE determined.
- Zone AH:** Flood depths of 1 to 3 feet (usually areas of ponding); BFE determined.
- Zone AO:** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined.
- Zone V:** Coastal flood zone with velocity hazard (wave action); no BFE determined.
- Zone VE:** Coastal flood zone with velocity hazard (wave action); BFE determined.
- Zone AEF:** Floodway areas in Zone AE. The floodway is the channel of stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without increasing the BFE.

NON-SPECIAL FLOOD HAZARD AREA – An area in a low-to-moderate risk flood zone. No mandatory flood insurance purchase requirements apply, but coverage is available in participating communities.

- Zone XS (X shaded):** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.
- Zone X:** Areas determined to be outside the 0.2% annual chance floodplain.

OTHER FLOOD AREAS

- Zone D:** Unstudied areas where flood hazards are undetermined, but flooding is possible. No mandatory flood insurance purchase requirements apply, but coverage is available in participating communities.

PROPERTY INFORMATION

COUNTY: MAUI
TMK NO: (2) 4-6-018-012
PARCEL ADDRESS: 980 LAHAINALUNA RD
 LAHAINA, HI 96761
FIRM INDEX DATE: SEPTEMBER 19, 2012
LETTER OF MAP CHANGE(S): NONE
FEMA FIRM PANEL(S): 1500030362F
PANEL EFFECTIVE DATE: SEPTEMBER 19, 2012

PARCEL DATA FROM: JULY 2013
IMAGERY DATA FROM: MAY 2005

IMPORTANT PHONE NUMBERS

County NFIP Coordinator
 County of Maui
 Carolyn Cortez (808) 270-7253
State NFIP Coordinator
 Carol Tyau-Beam, P.E., CFM (808) 587-0267

Disclaimer: The Hawaii Department of Land and Natural Resources (DLNR) assumes no responsibility arising from the use, accuracy, completeness, and timeliness of any information contained in this report. Viewers/Users are responsible for verifying the accuracy of the information and agree to indemnify the DLNR, its officers, and employees from any liability which may arise from its use of its data or information.

If this map has been identified as 'PRELIMINARY', please note that it is being provided for informational purposes and shall not be used for flood insurance rating. Contact your county floodplain manager for flood zone determinations to be used for compliance with local floodplain management regulations.

December 18, 2015

Russell Y. Tsuji
Land Administrator
State of Hawaii
Department of Land and Natural
Resources – Land Division
P.O. Box 621
Honolulu, Hawaii 96809

SUBJECT: Early Consultation for Proposed Maui Police Department Communications Facility at the Lahaina Water Treatment Plant, Lahaina, Maui, Hawaii, TMK (2) 4-6-018:012 (por.)

Dear Mr. Tsuji:

Thank you for your letter dated September 4, 2015, providing early consultation comments on the proposed Maui Police Department (MPD) Communications Facility at the Lahaina Water Treatment Plant. On behalf of the MPD, we offer the following responses to your comments in the order of your comments:

Engineering Division:

1. It is noted that the project site is located in Flood Zone X and is not subject to regulation by the National Flood Insurance Program.

State Historic Preservation Division:

2. An Archaeological Field Inspection was completed for the project and a report has been prepared and submitted to the State Historic Preservation Division (SHPD) for review. Coordination will be undertaken with the SHPD to ensure that their comments are appropriately addressed.

Russell Y. Tsuji, Land Administrator
December 18, 2015
Page 2

We appreciate your input and will include a copy of your comment letter along with this response letter in the Draft Environmental Assessment for the proposed project. If you have any questions regarding this matter please feel free to contact our office at (808) 244-2015.

Very truly yours,



Marisa Fujimoto
Senior Associate

MF:tn

cc: John Sakaguchi, Wilson Okamoto Corporation
Walter Pacheco, Maui Police Department

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DAVID Y. IGE
GOVERNOR OF HAWAII



SEP 11 2015

JESSICA E. WOOLEY
DIRECTOR

**STATE OF HAWAII
OFFICE OF ENVIRONMENTAL QUALITY CONTROL**

Department of Health
235 South Beretania Street, Suite 702
Honolulu, Hawai'i 96813
Telephone (808) 586-4185
Facsimile (808) 586-4186
Email: oeqchawaii@doh.hawaii.gov

September 8, 2015

Munekiyo Hiraga
Attn: Marisa Fujimoto, Senior Associate
305 High Street, Suite 104
Wailuku, HI 96793

Dear Ms. Fujimoto,

**SUBJECT: Chapter 343, Hawaii Revised Statutes Early Consultation Request Maui
Police Department Communications Facility at the Lahaina Water Treatment
Plant, Lahaina, Maui, Hawaii.**

The Office of Environmental Quality Control has reviewed the information contained in your August 6, 2015 letter about the subject project, and offers the following standard comments for your consideration.

Pursuant to Chapter 343, Hawaii Revised Statutes, and the provisions of Chapter 11-200, Hawaii Administrative Rules, as an Agency Action by the County of Maui Police Department, this agency is the "Proposing and Determination agency" that implements the environmental review process for this project by either 1) anticipating a Finding of No Significant Impact and then preparing a Draft Environmental Assessment (EA) for public review and comment, or 2) based on their judgment and experience, deciding to by-pass the EA step and proceeding directly to the Environmental Impact Statement (EIS) Preparation Notice step if significant effects may or will occur from the project.

In the event that the agency makes a determination to prepare an EIS, either initially or if significant impacts are identified in the Final EA, then the Mayor or his designated representative would determine the acceptability of the subsequent Final EIS.

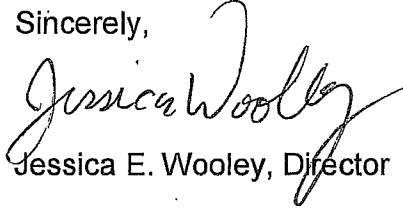
As to specific comments on the proposed project, at this time we suggest the consideration of using the industry appropriate best practices while working on the new facility. We also recommend a detailed assessment of how the communications tower and its various transmissions will affect all wildlife in the area.

We look forward to reviewing a Draft EA that includes sufficiently thorough information to enable recipients and the public to understand the project and to be able to provide substantive feedback.

Ms. Marisa Fujimoto
September 8, 2015
Page 2 of 2

Thank you for your role in Hawaii's environmental review process and for the opportunity to comment at this early stage of this project. As you prepare to submit documents for publication and public review in The Environmental Notice, we appreciate your diligence in using current and correct publication forms available online. If you have any questions as you navigate this process, please consult our website at <http://health.hawaii.gov/oeqc> (see in particular the link to the Environmental Assessment Preparation Toolkit on the right panel) or contact our office at (808) 586-4185.

Sincerely,



Jessica E. Wooley, Director



December 18, 2015

Scott Glenn, Director
Office of Environmental Quality Control
Department of Health
State of Hawaii
235 South Beretania Street, Suite 702
Honolulu, Hawaii 96813

SUBJECT: Early Consultation for Proposed Maui Police Department Communications Facility at the Lahaina Water Treatment Plant, Lahaina, Maui, Hawaii, TMK (2) 4-6-018:012 (por.)

Dear Mr. Glenn:

Thank you for your Department's letter dated September 8, 2015, providing early consultation comments on the proposed Maui Police Department (MPD) Communications Facility at the Lahaina Water Treatment Plant. On behalf of the MPD, we offer the following responses to your comments in the order of your comments:

1. We will identify the MPD as the "Proposing and Determination agency" in the Draft Environmental Assessment (EA).
2. Industry best management practices will be used while working on the new facility. The Draft EA will also include an assessment of anticipated impacts from the proposed project on wildlife in the area.

Scott Glenn, Director
December 18, 2015
Page 2

We appreciate your input and will include a copy of your comment letter along with this response letter in the Draft EA for the proposed project. If you have any questions regarding this matter please feel free to contact our office at (808) 244-2015.

Very truly yours,



Marisa Fujimoto
Senior Associate

MF:lh

cc: John Sakaguchi, Wilson Okamoto Corporation
Walter Pacheco, Maui Police Department

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SEP 14 2015

PHONE (808) 594-1888

FAX (808) 594-1938



STATE OF HAWAII
OFFICE OF HAWAIIAN AFFAIRS
560 N. NIMITZ HWY., SUITE 200
HONOLULU, HAWAII 96817

HRD 15-7580

September 3, 2015

Munekiyo & Hiraga, Inc.
Attn: Marisa Fujimoto, Senior Associate
305 High Street, Suite 104
Wailuku, Hawaii 96793

Re: Early Consultation and Section 106 Consultation Request for Proposed Maui Police
Department Communications Facility at Lahaina Water Treatment Plant
Ku'ia Ahupua'a, Lahaina Moku, Maui Moku
TMK: (2) 4-6-018:012 (por.)

Aloha Ms. Fujimoto:

The Office of Hawaiian Affairs (OHA) received your letter dated August 6, 2015, requesting comments on the above-titled project. Given the project descriptions provided, our agency has no comments at this time. Should you have any questions, please contact Everett Ohta at 594-0231 or everetto@oha.org.

'O wau iho nō me ka 'oia 'i'o,

A handwritten signature in cursive script, appearing to read "Kamano Crabbe".

Kamana'opono M. Crabbe, Ph.D.
Ka Pouhana, Chief Executive Officer

KC: rg

**Please address replies and similar, future correspondence to our agency:*

*Dr. Kamana'opono Crabbe
Attn: OHA Compliance Enforcement
560 N. Nimitz Hwy., Ste. 200
Honolulu, Hawaii 96817*



MUNEKIYO HIRAGA

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Michael T. Munekiyo
PRESIDENT

Karlynn K. Fukuda
EXECUTIVE VICE PRESIDENT

Mark Alexander Roy
VICE PRESIDENT

Tessa Munekiyo Ng
VICE PRESIDENT

December 18, 2015

Dr. Kamana'opono Crabbe
Attention: OHA Compliance Enforcement
560 N. Nimitz Highway, Suite 200
Honolulu, Hawaii 96817

SUBJECT: Early Consultation and Section 106 Consultation for Proposed Maui Police Department Communications Facility at the Lahaina Water Treatment Plant, Lahaina, Maui, Hawaii, TMK (2) 4-6-018:012 (por.)

Dear Dr. Crabbe:

Thank you for your letter dated September 3, 2015, providing early consultation and Section 106 comments on the proposed Maui Police Department (MPD) Communications Facility at the Lahaina Water Treatment Plant. On behalf of the MPD, we acknowledge that the Office of Hawaiian Affairs does not have any comments at this time.

We appreciate your prompt response and will include a copy of your comment letter along with this response letter in the Draft Environmental Assessment for the proposed project. Should you have any questions, please feel free to contact our office at (808) 244-2015.

Very truly yours,

Marisa Fujimoto
Senior Associate

MF:lh

cc: John Sakaguchi, Wilson Okamoto Corporation
Walter Pacheco, Maui Police Department

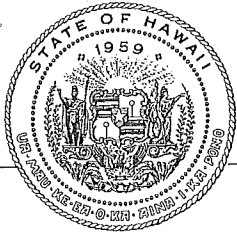
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Maui: 305 High Street, Suite 104 • Wailuku, Hawaii 96793 • Tel: 808.244.2015 • Fax: 808.244.8729

Oahu: 735 Bishop Street, Suite 321 • Honolulu, Hawaii 96813 • Tel: 808.983.1233

www.munekiyohiraga.com

SEP 14 2015



**OFFICE OF PLANNING
STATE OF HAWAII**

DAVID Y. IGE
GOVERNOR

LEO R. ASUNCION
ACTING DIRECTOR
OFFICE OF PLANNING

235 South Beretania Street, 6th Floor, Honolulu, Hawaii 96813
Mailing Address: P.O. Box 2359, Honolulu, Hawaii 96804

Telephone: (808) 587-2846
Fax: (808) 587-2824
Web: <http://planning.hawaii.gov/>

Ref. No. P-14899

September 8, 2015

Ms. Marisa Fujimoto
Senior Associate
Munekiyo Hiraga
305 High Street, Suite 104
Wailuku, Hawaii 96793

Dear Ms. Fujimoto:

Subject: Early Consultation Request for the Proposed Maui Police Department Communications Facility at the Lahaina Water Treatment Plant, Lahaina, Maui; TMK: (2) 4-6-018:012 (por)

Thank you for the opportunity to provide comments on the early consultation request for a Draft Environmental Assessment (Draft EA) for the Maui Police Department Communications Facility project. The pre-consultation review material was transmitted to our office by letter, dated August 6, 2015.

It is our understanding that the County of Maui Police Department proposes development of a new communications facility within lands occupied by the County of Maui Department of Water Supply (DWS) Lahaina Water Treatment Facility. The communication facility will support the County's voice and data network serving West Maui, Lanai, and Molokai. The facility will provide land mobile radio (LMR) coverage to West Maui and Lanai for County and State agencies.

The project will include: a new 60-foot monopole tower with microwave antennas, LMR antennas, and a cast-in-place foundation; a concrete equipment building with a radio room and generator; a driveway connecting the site to the existing DWS access road; and a retaining wall and other related improvements as needed.

The Office of Planning (OP) has reviewed the transmitted material and has the following comments to offer:

1. Pursuant to the Hawaii Administrative Rules § 11-200-17(h) – land use plans, policies, and controls – this project must demonstrate that it is consistent with a number of state environmental, social, and economic goals and policies for land-use and housing development. OP provides technical assistance to state and county agencies in administering the statewide planning system in Hawaii Revised Statutes

(HRS) Chapter 226, the Hawaii State Plan. The Hawaii State Plan provides goals, objectives, policies, and priority guidelines for growth, development, and the allocation of resources throughout the State. The Hawaii State Plan includes diverse objectives and policies of state interest including but not limited to the economy, agriculture, the visitor industry, federal expenditure, the physical environment, facility systems, socio-cultural advancement, climate change adaptation, and sustainability.

The Draft EA should include an analysis that addresses whether the proposed project conforms or is in conflict with the goals, objectives, policies, and priority guidelines listed in the Hawaii State Plan.

2. The coastal zone management area is defined as “all lands of the State and the area extending seaward from the shoreline to the limit of the State’s police power and management authority, including the U.S. territorial sea” see HRS § 205A-1 (definition of "coastal zone management area").

HRS Chapter 205A requires all State and county agencies to enforce the coastal zone management (CZM) objectives and policies. The Draft EA should include an assessment as to how the proposed project conforms to the CZM objectives and its supporting policies set forth in HRS § 205A-2. The assessment on compliance with HRS Chapter 205A is an important component for satisfying the requirements of HRS Chapter 343. These objectives and policies include recreational resources, historic resources, scenic and open space resources, coastal ecosystems, economic uses, coastal hazards, managing development, public participation, beach protection, and marine resources.

3. The project site is located in the relatively developed Lahaina region. The area is located in an area classified as Urban on the State Land Use District Boundary Maps, has perennial stream resources in the vicinity, and is within the Kauaula watershed. The project site appears to be within the higher elevations of Lahaina, and is outside of the Special Management Area. Being located in the higher elevations, ultimately the area is connected to coastal marine resources located down range. In order to ensure the coastal waters and marine environment of West Maui remain protected, the negative effects of stormwater runoff should be considered and mitigated. The Draft EA should summarize the area’s State Land Use District classification, County of Maui zoning as it relates to density and erosion controls, and this project’s relation to wetlands, perennial streams, and flood zone. These items, as well as the nearshore water quality classification, should be considered when developing mitigation

Ms. Marisa Fujimoto
Senior Associate
September 8, 2015
Page 3

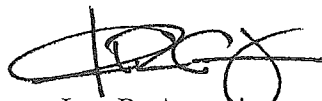
measures to protect the coastal ecosystem.

OP has a number of resources available to assist in the development of projects which ensure sediment and stormwater control on land, thus protecting the nearshore environment. OP recommends consulting these guidance documents and stormwater evaluative tools when developing strategies to address polluted runoff. They offer useful techniques to keep soil and sediment in place and prevent contaminating nearshore waters, while considering the practices best suited for each project. These evaluative tools that should be used during the design process include:

- Hawaii Watershed Guidance provides direction on site-appropriate methods to safeguard Hawaii's watersheds and implement watershed plans
[http://files.hawaii.gov/dbedt/op/czm/initiative/nonpoint/HI Watershed Guidance Final.pdf](http://files.hawaii.gov/dbedt/op/czm/initiative/nonpoint/HI_Watershed_Guidance_Final.pdf)
- Stormwater Impact Assessments can be used to identify and evaluate information on hydrology, stressors, sensitivity of aquatic and riparian resources, and management measures to control runoff, as well as consider secondary and cumulative impacts to the area
http://files.hawaii.gov/dbedt/op/czm/initiative/stomwater_impact/final_storm_water_impact_assessments_guidance.pdf
- Low Impact Development (LID), A Practitioners Guide covers a range of structural best management practices (BMP's) for stormwater control management, roadway development, and urban layout that minimizes negative environmental impacts
http://files.hawaii.gov/dbedt/op/czm/initiative/lid/lid_guide_2006.pdf

If you have any questions regarding this comment letter, please contact Josh Hekekoa of our office at (808) 587-2845.

Sincerely,



Leo R. Asuncion
Acting Director

December 18, 2015

Leo Asuncion, Acting Director
Office of Planning
State of Hawaii
P.O. Box 2359
Honolulu, Hawaii 96804

SUBJECT: Early Consultation for Proposed Maui Police Department Communications Facility at the Lahaina Water Treatment Plant, Lahaina, Maui, Hawaii, TMK (2) 4-6-018:012 (por.)

Dear Mr. Asuncion:

Thank you for your letter dated September 8, 2015, providing early consultation comments on the proposed Maui Police Department (MPD) Communications Facility at the Lahaina Water Treatment Plant. On behalf of the MPD, we offer the following responses to your comments in the order of your comments:

1. The Draft Environmental Assessment (EA) will include an analysis on how the proposed project is consistent with the goals, objectives, policies, and priority guidelines listed in the Hawaii State Plan, Hawaii Revised Statutes (HRS) Chapter 226.
2. The Draft EA will include an assessment as to how the proposed project conforms to the Coastal Zone Management objectives and policies as set forth in HRS 205-A, including recreational resources, historic resources, scenic and open space resources, coastal ecosystems, economic uses, coastal hazards, managing development, public participation, beach protection, and marine resources.
3. The Draft EA will summarize the project area's State Land Use District classification, County of Maui zoning as it relates to density and erosion controls,

Leo Asuncion, Acting Director
December 18, 2015
Page 2

and the project's relation to wetlands, perennial streams, and flood zone. It will also consider mitigation for water quality classification along with the above.

We appreciate your input and will include a copy of your comment letter along with this response letter in the Draft EA for the proposed project. If you have any questions regarding this matter please feel free to contact our office at (808) 244-2015.

Very truly yours,



Marisa Fujimoto
Senior Associate

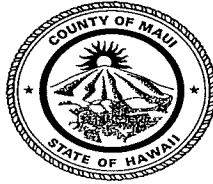
MF:lh

cc: John Sakaguchi, Wilson Okamoto Corporation
Walter Pacheco, Maui Police Department

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OCT 15 2015

ALAN M. ARAKAWA
MAYOR



JEFFREY A. MURRAY
FIRE CHIEF

ROBERT M. SHIMADA
DEPUTY FIRE 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 9, 2015

Munekiyo & Hiraga, Inc.
Attn: Marisa Fujimoto, Senior Associate
305 High Street, Suite 104
Wailuku, HI 96793

Re: Proposed Maui Police Department Comm. Facility in Lahaina
Early Consultation
Lahaina, Maui, HI
(2) 4-6-018: 012 (por.)

Dear Marisa:

Thank you for the opportunity to comment on this subject. At this time, our office provides the following comments:

- Our office does reserve the right to comment on the proposed project during the building permit review process when fire department access, water supply for fire protection, and fire and life safety requirements will be addressed.
- When the mentioned fire protection systems (FM 200 & CO2 systems) are installed, our office would like to be a part of the acceptance testing associated with these systems.

If there are any questions or comments, please feel free to contact me at (808) 876-4693.

Sincerely,

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

Paul Haake
Captain, Fire Prevention Bureau



MUNEKIYO HIRAGA

Planning. Project Management. Sustainable Solutions.

Michael T. Munekiyo
PRESIDENT

Karlynn K. Fukuda
EXECUTIVE VICE PRESIDENT

Mark Alexander Roy
VICE PRESIDENT

Tessa Munekiyo Ng
VICE PRESIDENT

December 18, 2015

Paul Haake, Captain
County of Maui
Department of Fire and Public Safety
313 Manea Place
Wailuku, Hawaii 96793

SUBJECT: Early Consultation for Proposed Maui Police Department Communications Facility at the Lahaina Water Treatment Plant, Lahaina, Maui, Hawaii, TMK (2) 4-6-018:012 (por.)

Dear Captain Haake:

Thank you for your letter dated October 9, 2015 providing early consultation comments on the proposed Maui Police Department (MPD) Communications Facility at the Lahaina Water Treatment Plant. On behalf of the MPD, we offer the following responses to your comments in the order of your comments.

1. It is noted that your office reserves the right to comment on the proposed project during the building permit review process.

Paul Haake, Captain
December 18, 2015
Page 2

2. The MPD will coordinate with your office regarding testing of the fire protection systems.

We appreciate your input and will include a copy of your comment letter along with this response letter in the Draft Environmental Assessment for the proposed project. Should you have any questions, please contact me at 244-2015.

Very truly yours,



Marisa Fujimoto
Senior Associate

MF:lh

cc: John Sakaguchi, Wilson Okamoto Corporation
Walter Pacheco, Maui Police Department

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AUG 31 2015

ALAN M. ARAKAWA
Mayor

DAVID C. GOODE
Director

ROWENA M. DAGDAG-ANDAYA
Deputy Director

Telephone: (808) 270-7845
Fax: (808) 270-7955



COUNTY OF MAUI
DEPARTMENT OF PUBLIC WORKS

200 SOUTH HIGH STREET, ROOM NO. 434
WAILUKU, MAUI, HAWAII 96793

GLEN A. UENO, P.E., P.L.S.
Development Services Administration

CARY YAMASHITA, P.E.
Engineering Division

BRIAN HASHIRO, P.E.
Highways Division

August 26, 2015

Ms. Marisa Fujimoto, Senior Associate
MUNEKIYO HIRAGA
305 High Street, Suite 104
Wailuku, Maui, Hawaii 96793


Dear Ms. Fujimoto:

**SUBJECT: EARLY CONSULTATION REQUEST FOR PROPOSED MAUI
POLICE DEPARTMENT COMMUNICATIONS FACILITY AT THE
LAHAINA TREATMENT PLANT, LAHAINA, MAUI, HAWAII
TMK: (2) 4-6-018:012 (POR.)**

We reviewed your early consultation request and have no comments at this time.

If you have any questions regarding this memorandum, please call Rowena Dagdag-Andaya at 270-7845.

Sincerely,


DAVID C. GOODE
Director of Public Works

DCG:RMDA:da

xc: Highways Division
Engineering Division

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Michael T. Munekiyo
PRESIDENT

Karlynn K. Fukuda
EXECUTIVE VICE PRESIDENT

Mark Alexander Roy
VICE PRESIDENT

Tessa Munekiyo Ng
VICE PRESIDENT

December 18, 2015

David C. Goode, Director
County of Maui
Department of Public Works
200 South High Street, Room No. 434
Wailuku, Hawaii 96793

**SUBJECT: Early Consultation for Proposed Maui Police Department
Communications Facility at the Lahaina Water Treatment Plant,
Lahaina, Maui, Hawaii, TMK (2) 4-6-018:012 (por.)**

Dear Mr. Goode:

Thank you for your letter dated August 26, 2015 providing early consultation comments on the proposed Maui Police Department (MPD) Communications Facility at the Lahaina Water Treatment Plant. On behalf of the MPD, we acknowledge that Department of Public Works does not have any comments at this time.

We appreciate your prompt response and will include a copy of your comment letter along with this response letter in the Draft Environmental Assessment for the proposed project. Should you have any questions, please contact me at 244-2015.

Very truly yours,

Marisa Fujimoto
Senior Associate

MF:tn

cc: John Sakaguchi, Wilson Okamoto Corporation
Walter Pacheco, Maui Police Department

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Maui: 305 High Street, Suite 104 • Wailuku, Hawaii 96793 • Tel: 808.244.2015 • Fax: 808.244.8729

Oahu: 735 Bishop Street, Suite 321 • Honolulu, Hawaii 96813 • Tel: 808.983.1233

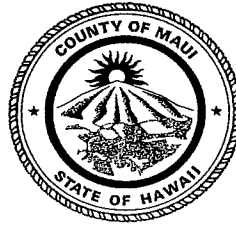
www.munekiyohiraga.com

AUG 21 2015

ALAN M. ARAKAWA
Mayor

KYLE K. GINOZA, P.E.
Director

MICHAEL M. MIYAMOTO
Deputy Director



MICHAEL RATTE
Solid Waste Division
ERIC NAKAGAWA, P.E.
Wastewater Reclamation Division

**COUNTY OF MAUI
DEPARTMENT OF
ENVIRONMENTAL MANAGEMENT**

2050 MAIN STREET, SUITE 1C
WAILUKU, MAUI, HAWAII 96793

August 18, 2015

Ms. Marisa Fujimoto
Munekiyo Hiraga
305 High Street, Suite 104
Wailuku, Hawaii 96793

**SUBJECT: MAUI POLICE DEPARTMENT COMMUNICATIONS FACILITY
AT THE LAHAINA WATER TREATMENT PLANT
EARLY CONSULTATION
TMK (2) 4-6-018:012, LAHAINA**

We reviewed the subject application and have the following comments:

1. Solid Waste Division comments:
 - a. None
2. Wastewater Reclamation Division (WWRD) comments:
 - a. None

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

Sincerely,

A handwritten signature in black ink, appearing to read "Kyle K. Ginoza". The signature is written in a cursive style with a large initial "K".

KYLE K. GINOZA, P.E.
Director of Environmental Management



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Michael T. Munekiyo
PRESIDENT

Karlynn K. Fukuda
EXECUTIVE VICE PRESIDENT

Mark Alexander Roy
VICE PRESIDENT

Tessa Munekiyo Ng
VICE PRESIDENT

December 18, 2015

Stewart Stant, Director
County of Maui
Department of Environmental Management
2050 Main Street, Suite 1C
Wailuku, Hawaii 96793

SUBJECT: Early Consultation for Proposed Maui Police Department Communications Facility at the Lahaina Water Treatment Plant, Lahaina, Maui, Hawaii, TMK (2) 4-6-018:012 (por.)

Dear Mr. Stant:

Thank you for your Department's letter dated August 19, 2015 providing early consultation comments on the proposed Maui Police Department (MPD) Communications Facility at the Lahaina Water Treatment Plant. On behalf of the MPD, we acknowledge that the Department of Environmental Management does not have any comments at this time.

We appreciate your prompt response and will include a copy of your comment letter along with this response letter in the Draft Environmental Assessment for the proposed project. Should you have any questions, please contact me at 244-2015.

Very truly yours,

Marisa Fujimoto
Senior Associate

MF:tn

cc: John Sakaguchi, Wilson Okamoto Corporation
Walter Pacheco, Maui Police Department

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Maui: 305 High Street, Suite 104 • Wailuku, Hawaii 96793 • Tel: 808.244.2015 • Fax: 808.244.8729

Oahu: 735 Bishop Street, Suite 321 • Honolulu, Hawaii 96813 • Tel: 808.983.1233

www.munekiyoahiraga.com

**X. LETTERS RECEIVED
DURING THE DRAFT
ENVIRONMENTAL
ASSESSMENT REVIEW
PERIOD AND RESPONSES TO
SUBSTANTIVE COMMENTS**

X. LETTERS RECEIVED DURING THE DRAFT ENVIRONMENTAL ASSESSMENT REVIEW PERIOD AND RESPONSES TO SUBSTANTIVE COMMENTS

The Draft EA for the subject action was filed and published in the Office of Environmental Quality Control Environmental Notice on January 8, 2016. The following agencies were sent a copy of the Draft EA. Comments on the Draft EA were received during the 30-day public comment period. Letters received as well as responses to substantive comments are included in this Chapter.

- | | |
|--|--|
| <p>1. Ranae Ganske-Cerizo, Soil Conservationist
Natural Resources Conservation Service
U.S. Department of Agriculture
77 Hookele Street, Suite 202
Kahului, Hawai'i 96732</p> | <p>6. Scott Enright, Chair
Department of Agriculture
1428 South King Street
Honolulu, Hawai'i 96814-2512</p> |
| <p>2. Ron V. Simpson, Manager
Federal Aviation Administration
Honolulu Airports District Office
Airports – Western Pacific Region
Box 50244
Honolulu, Hawai'i 96850</p> | <p>7. Luis P. Salaveria, Director
State of Hawai'i
Department of Business, Economic Development & Tourism
P.O. Box 2359
Honolulu, Hawai'i 96804</p> |
| <p>3. Shelly Lynch
Chief, Regulatory Branch
U.S. Department of the Army
U.S. Army Engineer District, Honolulu
Regulatory Branch
Building 230
Fort Shafter, Hawai'i 96858-5440</p> | <p>8. Kathryn Matayoshi, Superintendent
State of Hawai'i
Department of Education
P.O. Box 2360
Honolulu, Hawai'i 96804</p> |
| <p>4. Acting Field Supervisor
U. S. Fish and Wildlife Service
300 Ala Moana Blvd., Rm. 3-122
Box 50088
Honolulu, Hawai'i 96813</p> | <p>9. Jobie Masagatani, Chair
Hawaiian Home Lands Commission
P.O. Box 1879
Honolulu, Hawai'i 96805</p> |
| <p>5. Sharon Wong, Acting Administrator
Department of Accounting and General Services
Information and Communication Services Division
1152 Punchbowl Street
Honolulu, Hawai'i 96813</p> | <p>10. Dr. Virginia Pressler
State of Hawai'i
Department of Health
919 Ala Moana Blvd., Room 300
Honolulu, Hawai'i 96814</p> |
| | <p>11. Patti Kitkowski
State of Hawai'i
Department of Health
Maui Sanitation Branch
54 South High Street, Room 300
Wailuku, Hawai'i 96793</p> |

12. Suzanne Case, Chairperson
State of Hawai'i
Department of Land and Natural Resources
P. O. Box 621
Honolulu, Hawai'i 96809
13. Alan Downer, Administrator
State of Hawai'i
Department of Land and Natural Resources
State Historic Preservation Division
601 Kamokila Blvd., Room 555
Kapolei, Hawai'i 96707
14. Acting Administrator
Division of Forestry and Wildlife
State of Hawai'i
Department of Land and Natural Resources
Kalanimoku Building
1151 Punchbowl Street, Room 325
Honolulu, Hawai'i 96813
15. Morgan Davis
State of Hawai'i
Department of Land and Natural Resources
State Historic Preservation Division
130 Mahalani Street
Wailuku, Hawai'i 96793
16. Scott Glenn, Interim Director
Office of Environmental Quality Control
235 S. Beretania Street, Suite 702
Honolulu, Hawai'i 96813
17. Dr. Kamana'opono Crabbe, Chief Executive Officer
Office of Hawaiian Affairs
560 N. Nimitz Highway, Suite 200
Honolulu, Hawai'i 96817
18. Leo R. Asuncion, Jr., AICP, Director
State of Hawai'i
Office of Planning
P. O. Box 2359
Honolulu, Hawai'i 96804
19. Dan Orodener, Executive Officer
State of Hawai'i
State Land Use Commission
P.O. Box 2359
Honolulu, Hawai'i 96804
20. Marvin Moniz, District Manager
Islands of Maui, Moloka'i and Lāna'i
State of Hawai'i
Department of Transportation
Airports Division
1 Kahului Airport Road, Unit 5
Kahului, Hawai'i 96732
21. Senator Rosalyn H. Baker
Hawai'i State Senate
Hawai'i State Capitol, Room 230
415 S. Beretania Street
Honolulu, Hawai'i 96813
22. Representative Angus L.K. McKelvey
House of Representatives
Hawai'i State Capitol, Room 320
415 S. Beretania Street
Honolulu, Hawai'i 96813
23. Anna Foust, Officer Management Officer
Maui Civil Defense Agency
200 South High Street
Wailuku, Hawai'i 96793
24. Jeffrey A. Murray, Fire Chief
County of Maui
Department of Fire and Public Safety
200 Dairy Road
Kahului, Hawai'i 96732
25. William Spence, Director
County of Maui
Department of Planning
2200 Main Street, Suite 315
Wailuku, Hawai'i 96793
26. David Goode, Director
County of Maui
Department of Public Works
200 South High Street
Wailuku, Hawai'i 96793

27. Stewart Stant, Director
County of Maui
Department of Environmental Management
2050 Main Street, Suite 1C
Wailuku, Hawai'i 96793
28. Honorable Elle Cochran
Maui County Council
200 South High Street
Wailuku, Hawai'i 96793
29. Mike Grider
Maui Electric Company, Ltd.
P.O. Box 398
Kahului, Hawai'i 96733
30. **Hawaiian Telcom**
60 South Church Street
Wailuku, Hawai'i 96793
31. Joe Pluta, President
West Maui Improvement Foundation
P.O. Box 10338
Lāhainā, Hawai'i 96761
32. Donald Lehman, President
West Maui Taxpayers Association
P.O. Box 10338
Lāhainā, Hawai'i 96761



DEPARTMENT OF THE ARMY
HONOLULU DISTRICT, U.S. ARMY CORPS OF ENGINEERS
FORT SHAFTER, HAWAII 96858-5440

March 7, 2016

SUBJECT: Approved Jurisdictional Determination and No Permit Required for EC Proposed Maui Police Department Communications Facility at Lahaina Water Treatment Plant. DA File No. POH-2011-00296

Maui Police Department
c/o Marisa Fujimoto
Munekiyo Hiraga
305 High Street, Suite 104
Wailuku, Hawaii 96793

Dear Ms. Fujimoto:

We have received your letter dated January 6, 2015 for the proposed EC Proposed Maui Police Department Communications Facility at Lahaina Water Treatment Plant, located at Tax Map Key (2) 4-6-018:012 in Lahaina, Island of Maui, Hawaii. We have assigned your project Department of the Army (DA) file number POH-2011-00296. Please reference this number in all future correspondence concerning this project.

We have reviewed your submittal pursuant to Section 10 of the Rivers and Harbors Act of 1899 (Section 10) and Section 404 of the Clean Water Act (Section 404). Section 10 requires that a DA permit be obtained for certain structures or work in or affecting navigable waters of the United States, prior to conducting the work (33 U.S.C. 403). Section 404 requires that a DA permit be obtained for the discharge of dredged and/or fill material into waters of the U.S., including wetlands and navigable waters of the U.S, prior to conducting the work (33 U.S.C. 1344).

Based on our review of the information you furnished, and assuming your project is conducted only as set forth in the information provided, this office has determined the proposed activity does not occur within the jurisdictional limits of a navigable water of the U.S. as defined by 33 CFR Part 329 or within the jurisdictional limits of a Water of the U.S. as defined by 33 CFR Part 328. Therefore, a DA permit will not be required.

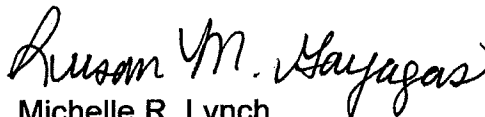
We have completed an approved jurisdictional determination (Enclosure 1) for your project area. This determination is valid for a period of five (5) years from the date of this letter, unless new information warrants revision of the determination before the expiration date. If you object to this determination, you may request an Administrative Appeal under 33 CFR 331. We have enclosed a Notification of Appeal Process and Request for Appeal (NAP/RFA) form. If you request to appeal this determination you must submit a completed RFA form, according to instructions in the RFA, to the Corps' Pacific Ocean Division office at the following address:

Civil Works and Regulatory Program Manager
U.S. Army Corps of Engineers
Pacific Ocean Division, ATTN: CEPOD-PDC
Building 525
Fort Shafter, HI 96858-5440

Although a permit is not required from this office, we recommend use of Best Management Practices to avoid and minimize adverse impacts to aquatic resources. It is your responsibility to ensure that your project complies with all other Federal, State, or local statutes, ordinances and regulations.

Thank you for your cooperation with the Honolulu District Regulatory Program. Should you have any questions related to this determination, please contact Ms. Vera Koskelo of my staff at 808-835-4310 or via e-mail at Vera.B.Koskelo@usace.army.mil. You are encouraged to provide comments on your experience with the Honolulu District Regulatory Office by accessing our web-based customer survey form at http://corpsmapu.usace.army.mil/cm_apex/f?p=136:4:0.

Sincerely,


for Michelle R. Lynch
Chief, Regulatory Office

Enclosures

cc:

State of Hawaii DBEDT Office of Planning (John Nakagawa)

State of Hawaii DOH-CWB (Darryl Lum)

Maui Police Department (Walter Pacheco)

Approved JD Form

APPROVED JURISDICTIONAL DETERMINATION FORM
U.S. Army Corps of Engineers

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

SECTION I: BACKGROUND INFORMATION

- A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 16 February 2016**
- B. DISTRICT OFFICE, FILE NAME, AND NUMBER: EC Proposed Maui Police Department Communications Facility at Lahaina Water Treatment Plant. DA File No. CEPOH-2011-00296**
- C. PROJECT LOCATION AND BACKGROUND INFORMATION:**
State: **Hawaii** County/parish/borough: **Maui** City: **Lahaina**
Center coordinates of site (lat/long in degree decimal format): Lat. **20.890756°**, Long. - **156.654889°**.
Universal Transverse Mercator:
Name of nearest waterbody: **Kanaha Stream / Kanaha Gulch**
Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: **P a c i f i c O c e a n**
Name of watershed or Hydrologic Unit Code (HUC): **20020000**
 Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.
 Check if other sites (e.g., offsite mitigation sites, disposal sites, etc...) are associated with this action and are recorded on a different JD form.
- D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):**
 Office (Desk) Determination. Date: **16 February 2016**
 Field Determination. Date(s):

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There **are no** "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [Required]

- Waters subject to the ebb and flow of the tide.
 Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.
Explain: .

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There **are no** "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]

1. Waters of the U.S.

a. Indicate presence of waters of U.S. in review area (check all that apply):¹

- TNWs, including territorial seas
 Wetlands adjacent to TNWs
 Relatively permanent waters² (RPWs) that flow directly or indirectly into TNWs
 Non-RPWs that flow directly or indirectly into TNWs
 Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
 Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
 Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
 Impoundments of jurisdictional waters
 Isolated (interstate or intrastate) waters, including isolated wetlands

b. Identify (estimate) size of waters of the U.S. in the review area:

Non-wetland waters: linear feet: width (ft) and/or acres.
Wetlands: acres.

c. Limits (boundaries) of jurisdiction based on: Pick List

Elevation of established OHWM (if known): .

2. Non-regulated waters/wetlands (check if applicable):³

- Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional.
Explain: .

¹ Boxes checked below shall be supported by completing the appropriate sections in Section III below.

² For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

³ Supporting documentation is presented in Section III.F.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

- 1. **TNW**
Identify TNW: .

Summarize rationale supporting determination: .
- 2. **Wetland adjacent to TNW**
Summarize rationale supporting conclusion that wetland is "adjacent": .

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody⁴ is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

1. Characteristics of non-TNWs that flow directly or indirectly into TNW

(i) General Area Conditions:

- Watershed size: **Pick List**
- Drainage area: **Pick List**
- Average annual rainfall: inches
- Average annual snowfall: inches

(ii) Physical Characteristics:

(a) Relationship with TNW:

- Tributary flows directly into TNW.
- Tributary flows through **Pick List** tributaries before entering TNW.

- Project waters are **Pick List** river miles from TNW.
- Project waters are **Pick List** river miles from RPW.
- Project waters are **Pick List** aerial (straight) miles from TNW.
- Project waters are **Pick List** aerial (straight) miles from RPW.
- Project waters cross or serve as state boundaries. Explain: .

- Identify flow route to TNW⁵: .
- Tributary stream order, if known: .

⁴ Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

⁵ Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

(b) General Tributary Characteristics (check all that apply):

Tributary is: Natural
 Artificial (man-made). Explain: _____
 Manipulated (man-altered). Explain: _____

Tributary properties with respect to top of bank (estimate):

Average width: _____ feet
Average depth: _____ feet
Average side slopes: **Pick List**.

Primary tributary substrate composition (check all that apply):

Silts Sands Concrete
 Cobbles Gravel Muck
 Bedrock Vegetation. Type/% cover: _____
 Other. Explain: _____

Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: _____

Presence of run/riffle/pool complexes. Explain: _____

Tributary geometry: Pick List

Tributary gradient (approximate average slope): _____ %

(c) Flow:

Tributary provides for: Pick List

Estimate average number of flow events in review area/year: Pick List

Describe flow regime: _____

Other information on duration and volume: _____

Surface flow is: Pick List. Characteristics: _____

Subsurface flow: Pick List. Explain findings: _____

Dye (or other) test performed: _____

Tributary has (check all that apply):

Bed and banks
 OHWM⁶ (check all indicators that apply):
 clear, natural line impressed on the bank the presence of litter and debris
 changes in the character of soil destruction of terrestrial vegetation
 shelving the presence of wrack line
 vegetation matted down, bent, or absent sediment sorting
 leaf litter disturbed or washed away scour
 sediment deposition multiple observed or predicted flow events
 water staining abrupt change in plant community
 other (list): _____
 Discontinuous OHWM.⁷ Explain: _____

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):

High Tide Line indicated by: Mean High Water Mark indicated by:
 oil or scum line along shore objects survey to available datum;
 fine shell or debris deposits (foreshore) physical markings;
 physical markings/characteristics vegetation lines/changes in vegetation types.
 tidal gauges
 other (list): _____

(iii) **Chemical Characteristics:**

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

Explain: _____

Identify specific pollutants, if known: _____

⁶A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

⁷Ibid.

(iv) **Biological Characteristics. Channel supports (check all that apply):**

- Riparian corridor. Characteristics (type, average width):
- Wetland fringe. Characteristics:
- Habitat for:
 - Federally Listed species. Explain findings:
 - Fish/spawn areas. Explain findings:
 - Other environmentally-sensitive species. Explain findings:
 - Aquatic/wildlife diversity. Explain findings:

2. **Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW**

(i) **Physical Characteristics:**

(a) General Wetland Characteristics:

Properties:

Wetland size: acres

Wetland type. Explain:

Wetland quality. Explain:

Project wetlands cross or serve as state boundaries. Explain:

(b) General Flow Relationship with Non-TNW:

Flow is: **Pick List**. Explain:

Surface flow is: **Pick List**

Characteristics:

Subsurface flow: **Pick List**. Explain findings:

Dye (or other) test performed:

(c) Wetland Adjacency Determination with Non-TNW:

Directly abutting

Not directly abutting

Discrete wetland hydrologic connection. Explain:

Ecological connection. Explain:

Separated by berm/barrier. Explain:

(d) Proximity (Relationship) to TNW

Project wetlands are **Pick List** river miles from TNW.

Project waters are **Pick List** aerial (straight) miles from TNW.

Flow is from: **Pick List**.

Estimate approximate location of wetland as within the **Pick List** floodplain.

(ii) **Chemical Characteristics:**

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain:

Identify specific pollutants, if known:

(iii) **Biological Characteristics. Wetland supports (check all that apply):**

- Riparian buffer. Characteristics (type, average width):
- Vegetation type/percent cover. Explain:
- Habitat for:
 - Federally Listed species. Explain findings:
 - Fish/spawn areas. Explain findings:
 - Other environmentally-sensitive species. Explain findings:
 - Aquatic/wildlife diversity. Explain findings:

3. **Characteristics of all wetlands adjacent to the tributary (if any)**

All wetland(s) being considered in the cumulative analysis: **Pick List**

Approximately () acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

Directly abuts? (Y/N)

Size (in acres)

Directly abuts? (Y/N)

Size (in acres)

Summarize overall biological, chemical and physical functions being performed:

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

1. **Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D:
2. **Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:
3. **Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

1. **TNWs and Adjacent Wetlands.** Check all that apply and provide size estimates in review area:
 TNWs: linear feet width (ft), Or, acres.
 Wetlands adjacent to TNWs: acres.
2. **RPWs that flow directly or indirectly into TNWs.**
 Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial:
 Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally:

Provide estimates for jurisdictional waters in the review area (check all that apply):

- Tributary waters: linear feet width (ft).
 - Other non-wetland waters: acres.
- Identify type(s) of waters: .

3. Non-RPWs⁸ that flow directly or indirectly into TNWs.

- Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional waters within the review area (check all that apply):

- Tributary waters: linear feet width (ft).
 - Other non-wetland waters: acres.
- Identify type(s) of waters: .

4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

- Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.
 - Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: .
 - Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: .

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.

- Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.

- Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: acres.

7. Impoundments of jurisdictional waters.⁹

As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.

- Demonstrate that impoundment was created from "waters of the U.S.," or
- Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
- Demonstrate that water is isolated with a nexus to commerce (see E below).

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):¹⁰

- which are or could be used by interstate or foreign travelers for recreational or other purposes.
- from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.
- which are or could be used for industrial purposes by industries in interstate commerce.
- Interstate isolated waters. Explain: .
- Other factors. Explain: .

Identify water body and summarize rationale supporting determination: .

⁸See Footnote # 3.

⁹To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

¹⁰Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

Provide estimates for jurisdictional waters in the review area (check all that apply):

- Tributary waters: linear feet width (ft).
- Other non-wetland waters: acres.
- Identify type(s) of waters: .
- Wetlands: acres.

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):

- If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.
- Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.
 - Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR).
- Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain: .
- Other: (explain, if not covered above): .

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):

- Non-wetland waters (i.e., rivers, streams): linear feet width (ft).
- Lakes/ponds: acres.
- Other non-wetland waters: acres. List type of aquatic resource: .
- Wetlands: acres.

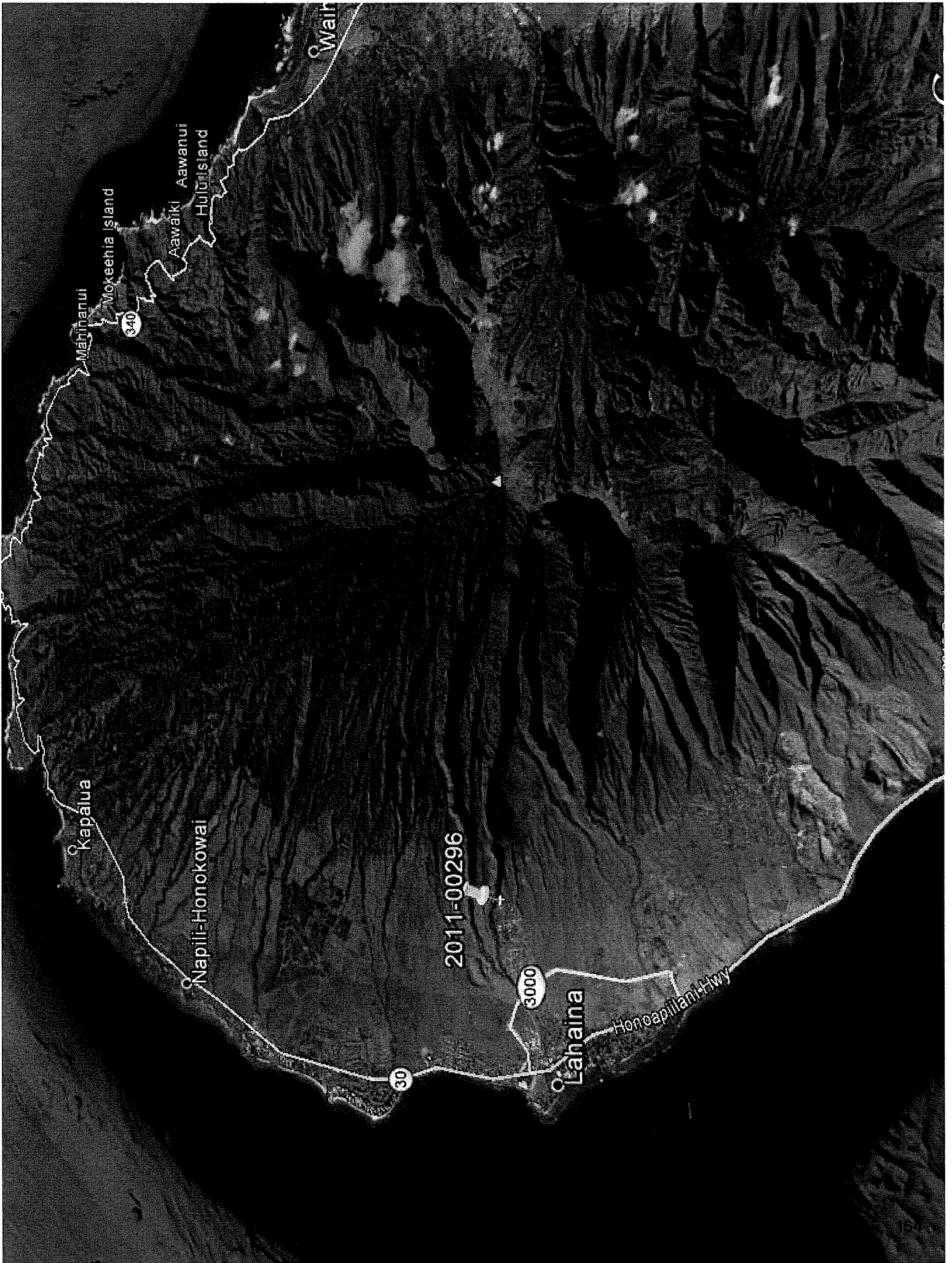
Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):

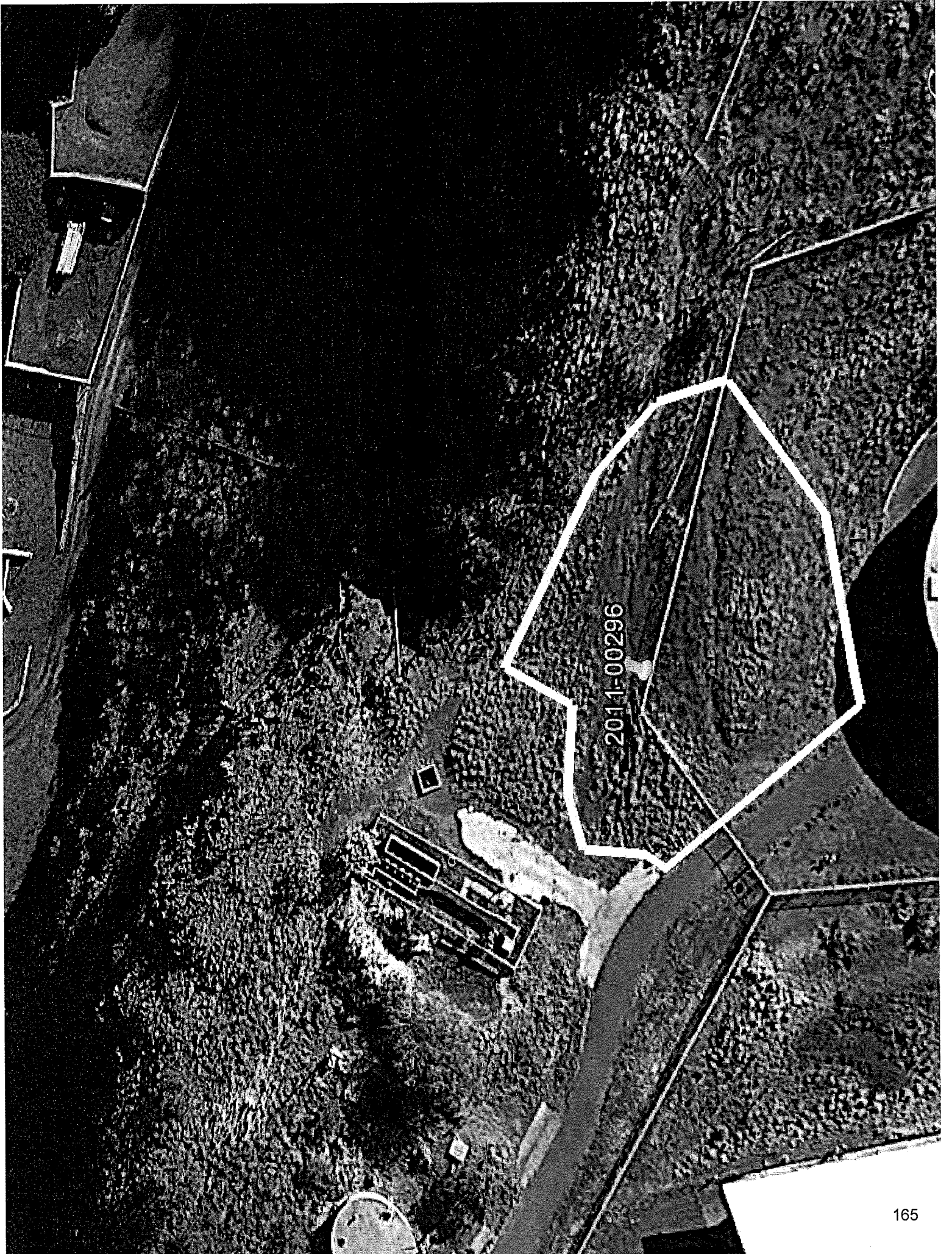
- Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).
- Lakes/ponds: acres.
- Other non-wetland waters: acres. List type of aquatic resource: .
- Wetlands: acres.

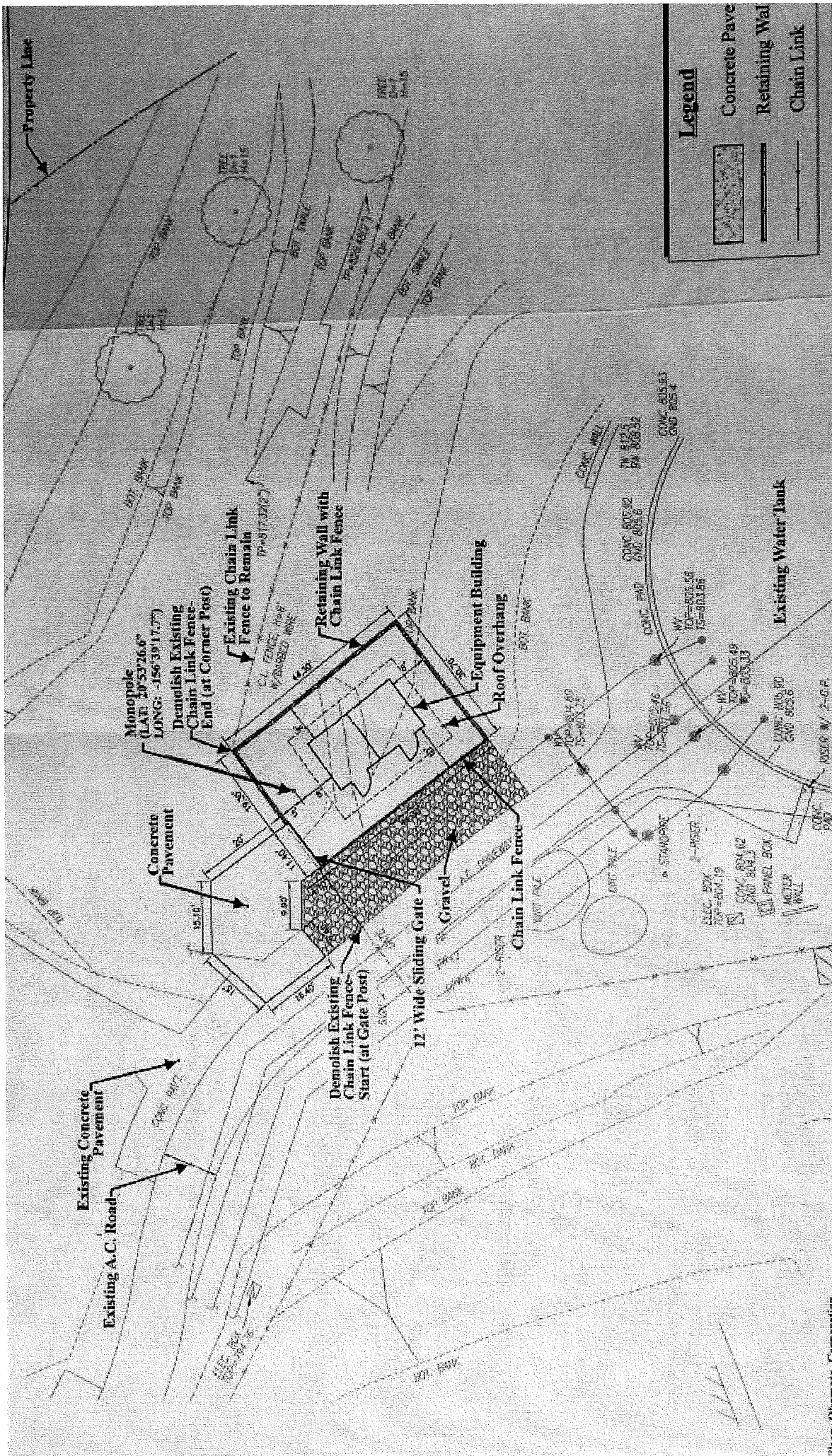
SECTION IV: DATA SOURCES.

A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):

- Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: **submitted with December 2015 submittal.**
- Data sheets prepared/submitted by or on behalf of the applicant/consultant.
 - Office concurs with data sheets/delineation report.
 - Office does not concur with data sheets/delineation report.
- Data sheets prepared by the Corps: .
- Corps navigable waters' study: .
- U.S. Geological Survey Hydrologic Atlas: .
 - USGS NHD data.
 - USGS 8 and 12 digit HUC maps.
- U.S. Geological Survey map(s). Cite scale & quad name: **submitted with December 2015 submittal.**
- USDA Natural Resources Conservation Service Soil Survey. Citation: **NRCS Soil Mapper Data Layer in GoogleEarth Pro, <http://casoilresource.lawr.ucdavis.edu/soilweb-apps>, accessed on 2-16-16.**
- National wetlands inventory map(s). Cite name: **NWI map data layer in GoogleEarth Pro, <http://www.fws.gov/wetlands/Data/Google-Earth.html>, accessed on 2-16-16.**
- State/Local wetland inventory map(s):
- FEMA/FIRM maps: **submitted with December 2015 submittal**
100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
- Photographs: Aerial (Name & Date): **aerial photos dated 8-18-10 and 1-12-13 from GoogleEarth Pro.**
Or Other (Name & Date): **photographs submitted with December 2015 submittal.**
- Previous determination(s). File no. and date of response letter: .
- Applicable/supporting case law:
- Other information: **EPA My Waters data layer in GoogleEarth Pro, accessed 2-17-16 <http://www.epa.gov/waterdata/my-waters-mapper>**
-







**Proposed Maui Police Department Communications Facility
at Lāhainā Water Treatment Plant
Site Plan**

Ilseon Dhamoth Corporation

e 3



JAN 27 2016



United States Department of the Interior

FISH AND WILDLIFE SERVICE
Pacific Islands Fish and Wildlife Office
300 Ala Moana Boulevard, Room 3-122
Honolulu, Hawaii 96850



JAN 25 2016

In Reply Refer To:
01EPIF00-2015-SL-0388
01EPIF00-2016-SL-0148

Ms. Marisa Fujimoto
Senior Associate
Munekiyo Hiraga
305 High Street, Suite 104
Wailuku, Hawaii 96793

Subject: Draft Environmental Assessment for Maui Police Department Communications Facility, Lahaina, Maui

Dear Ms. Fujimoto:

The U.S. Fish and Wildlife Service (Service) received your correspondence on January 7, 2016, requesting comments on a draft environmental assessment for a Maui Police Department communications facility at the Lahaina water treatment facility on Maui. The Service provided comments to you in September, 2015 (letter enclosed), and we note that our comments and recommendations were incorporated into the draft environmental assessment. At this time we have no further comments. Please contact Fish and Wildlife Biologist Jon Sprague (808-792-9573) if you have any additional questions or comments.

Sincerely,

Michelle Bogardus
Island Team Leader
Maui Nui and Hawaii Island

Enclosure: Service File 2015-SL-0388



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Pacific Islands Fish and Wildlife Office
300 Ala Moana Boulevard, Room 3-122
Honolulu, Hawaii 96850

In Reply Refer To:
01EPIF00-2015-SL-0388

Ms. Marisa Fujimoto
Munekiyo Hiraga
350 High Street, Suite 104
Honolulu, HI 96813

Subject: Species List for Maui Police Department Communications Facility at the Lahaina Water Treatment Facility, Lahaina, Maui

Dear Ms. Fujimoto:

The U.S. Fish and Wildlife Service (Service) received your correspondence on August 10, 2015, requesting a list of species listed under the Endangered Species Act (ESA) of 1973, as amended (16 U.S.C. 1531 *et seq.*) near the proposed construction site of a communications facility at the Lahaina water treatment facility in Lahaina, Maui (TMK: [2] 4-6-018:012 (por.)). The proposed action is approximately 700 feet east of Lahainaluna High School on land owned by the State of Hawaii within an easement for the County of Maui. The project includes erecting a 60-foot high monopole with three four-foot microwave antennas, a concrete equipment building with radio room and generator, a driveway, eight-foot security fence, and retaining wall. The map provided with the original letter was insufficient for us to make a determination of which species could be in the vicinity of the project, but a phone conversation on September 11, 2015, between Service biologist Jon Sprague and Reggie David of Rana Biological Consulting, who will be assisting in the Section 7 consultation for this project, clarified the specific location of the project.

Based on information you provided and pertinent information in our files, including data compiled by the Hawaii Biodiversity and Mapping Project, there are five listed species in the vicinity of the project area: the endangered Hawaiian hawk (*Buteo solitarius*), Blackburn's sphinx moth (*Manduca blackburni*), Hawaiian hoary bat (*Lasiurus cinereus semotus*) and Hawaiian petrel (*Pterodroma phaeopygia sandwichensis*), and the threatened Newell's shearwater (*Puffinus auricularis newelli*). There is critical habitat up-slope of the project site for several species of listed plants. The Service recommends the following measures to avoid and minimize project impacts to listed species:

Hawaiian hoary bat

The Hawaiian hoary bat is known to occur across a broad range of habitats throughout the State of Hawaii. This bat roosts in both exotic and native woody vegetation and, while foraging, leaves young unattended in "nursery" trees and shrubs. If trees or shrubs suitable for bat roosting are cleared during the Hawaiian hoary bat breeding season (June 1 to September 15), there is a

COPY

risk that young bats that cannot yet fly on their own could inadvertently be harmed or killed. As a result, the Service recommends that woody plants greater than 15 feet tall should not be removed or trimmed during the Hawaiian hoary bat breeding season. Additionally, Hawaiian hoary bats forage for insects from as low as three feet to higher than 500 feet above the ground. When barbed wire is used in fencing, Hawaiian hoary bats can become entangled. The Service, therefore, recommends that barbed wire not be used for fencing as part of this proposed action.

Blackburn's sphinx moth

The Blackburn's sphinx moth could potentially be in the vicinity of the proposed project area. Adult moths feed on nectar from native plants, including beach morning glory (*Ipomoea pes-caprae*), iliee (*Plumbago zeylanica*), and maiapilo (*Capparis sandwichiana*); larvae feed upon non-native tree tobacco (*Nicotiana glauca*) and native aiea (*Nothoecstrum latifolium*). To pupate, the larvae burrow into the soil and can remain in a state of torpor for up to a year (or more) before emerging from the soil. Soil disturbance can result in death of the pupae. The Service recommends that a qualified biologist survey areas of proposed construction activities for Blackburn's sphinx moth and its host plants prior to work initiation. We recommend these surveys be conducted during the wettest portion of the year (usually November-April or several weeks after a significant rain) and immediately prior to construction. Surveys should include searches for eggs, larvae, and signs of larval feeding (chewed stems, frass, or leaf damage). Any host plants of Blackburn's sphinx moth identified should not be cut or disturbed.

Seabirds

Hawaiian petrels and Newell's shearwaters (collectively known as seabirds) may transit over the project area when flying between the ocean and upland breeding colonies. Many bird species are known to strike objects, such as antennas or guywires, protruding above surrounding vegetation. In Hawaii, seabirds are attracted to lights and are known to collide with buildings, light poles, wires, and other tall objects. To minimize impacts to seabirds in Hawaii, we recommend minimizing the total surface area of the proposed tower and avoiding the use of guy wires. Any lights associated with the project should be cut-off, equipped with a motion sensor, or shielded so that the light cannot be seen from above. If the top of the tower must be lighted to meet FAA regulations, we recommend the use of a red flashing light versus the use of red or white solid light, if possible.

Critical Habitat for Listed Plant Species

Given your description of the proposed project and its location relative to the designated critical habitat, it is unlikely that critical habitat concerns will overlap with project development. However, if the project description or location changes, please contact us for further guidance.

Implementation of these measures will minimize but does not ensure that take of listed species associated with this proposed action will be fully avoided. The Federal Communications Commission (FCC) has designated the licensees, applicants, tower companies and their representatives as non-Federal representatives for informal section 7 consultation with the U.S. Fish and Wildlife Service pursuant to the Endangered Species Act of 1973. We recommend the FCC or its non-Federal representative consult with the Service to address potential project impacts to listed species.

Ms. Marisa Fujimoto

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Thank you for your efforts to conserve listed species and native habitats. Please contact Fish and Wildlife Biologist Jon Sprague (808-792-9573) if you have any questions or for further guidance.

Sincerely,

A handwritten signature in black ink, appearing to read "Michelle Bogardus". The signature is fluid and cursive, with a long horizontal flourish extending to the right.

Michelle Bogardus
Island Team Leader
Maui Nui and Hawaii Island



MUNEKIYO HIRAGA

Planning. Project Management. Sustainable Solutions.

Michael T. Munekiyo
PRESIDENT

Karlynn K. Fukuda
EXECUTIVE VICE PRESIDENT

Mark Alexander Roy
VICE PRESIDENT

Tessa Munekiyo Ng
VICE PRESIDENT

March 17, 2016

Michelle Bogardus
U.S. Fish and Wildlife Service
Department of the Interior
State of Hawai'i
300 Ala Moana Boulevard, Room 3-122
Honolulu, Hawai'i 96850

SUBJECT: Draft Environmental Assessment for Proposed Maui Police
Department Communications Facility at the Lāhainā Water
Treatment Plant, Lāhainā, Maui, Hawai'i, TMK (2)4-6-018:012 (por.)
01EPIF00-2015-SL-0388
01EPIF00-2016-SL-0148

Dear Ms. Bogardus:

Thank you for your letter which we received on January 27, 2016, providing feedback on the Draft Environmental Assessment (EA) for the Proposed Maui Police Department Communications Facility at the Lāhainā Water Treatment Plant. We note that the Service acknowledges that comments provided during early consultation were incorporated in the Draft EA and that the Service has no further comment at this time.

We appreciate your input, and will include a copy of your comment letter along with this response letter in the Final EA for the proposed project. If you have any questions regarding this matter, please feel free to contact our office at (808) 244-2015.

Very truly yours,

Marisa Fujimoto
Senior Associate

MF:lh

CC: John Sakaguchi, Wilson Okamoto Corporation
Walter Pacheco, Maui Police Department

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FEB 08 2016

KATHRYN S. MATAYOSHI
SUPERINTENDENT

STATE OF HAWAII
DEPARTMENT OF EDUCATION

P.O. BOX 2360
HONOLULU, HAWAII 96804

OFFICE OF SCHOOL FACILITIES AND SUPPORT SERVICES

February 3, 2016

Ms. Marisa Fujimoto, Senior Associate
Munekiyo Hiraga
305 High Street, Suite 104
Wailuku, Hawaii 96793

Re: Draft Environmental Assessment for Proposed Maui Police Department
Communications Facility at Lahaina Water Treatment Plant, TMK (2) 4-6-018:012 (por.)


Dear Ms. Fujimoto:

The Department of Education (DOE) has reviewed the Draft Environmental Assessment (DEA) for the Proposed Maui Police Department Communications Facility. DOE has concerns over the impacts of construction noise and dust emissions on Lahainaluna High, Lahainaluna Intermediate and Princess Nahienaena Elementary Schools as well as any interruption of vehicular and pedestrian traffic.

DOE requests that an effort be made to inform administrators of the schools identified, in person and in writing, about the project's scope, schedule and impacts. DOE also requests advance written notification if subdivision of the Department of Water Supply easement on the Lahainaluna High School campus cannot be completed prior to the start of construction.

Thank you for the opportunity to provide comment. Should you have any questions, please call Roy Ikeda of the Planning Section, Facilities Development Branch at (808) 377-8301.

Respectfully,



Kenneth G. Masden II
Public Works Manager
Planning Section

KGM:jmb

c: Walter H. Pacheco, Maui Police Department, County of Maui



March 17, 2016

Kenneth G. Masden II
Public Works Manager
Department of Education
State of Hawai'i
P.O. Box 2360
Honolulu, Hawai'i 96804

SUBJECT: Draft Environmental Assessment for Proposed Maui Police Department Communications Facility at the Lāhainā Water Treatment Plant, Lāhainā, Maui, Hawai'i, TMK (2)4-6-018:012 (por.)

Dear Mr. Masden:

Thank you for your letter dated February 3, 2016, providing comments on the Draft Environmental Assessment (EA) for the Proposed Maui Police Department (MPD) Communications Facility at the Lāhainā Water Treatment Plant. On behalf of the MPD, we offer the following responses to your comments in the order of your comments:

1. It is noted that the Department of Education (DOE) has concerns about potential impacts from construction-related noise and dust emissions related to the proposed project on Lahainaluna High, Lahainaluna Intermediate, and Princess Nahienaena Elementary Schools. As noted in the Draft EA, best management practices will be used to ensure that impacts from noise and dust emissions are minimized. The construction drawing notes and specifications will include information related to noise and fugitive dust. Specifically, the notes will state the contractor is to prevent dust from becoming airborne at all time including non-working hours, weekends and holidays in conformance with the State of Hawai'i Department of Health Hawai'i Administrative Rules Title 11 Chapter 60 Air Pollution Control. In addition, the contract documents will state that the contractor keep noise within acceptable levels at all times in conformance with State of Hawai'i Department of Health Hawai'i Administrative Rules Title 11, Chapter 46 Community Noise Control.

It is further noted that the DOE has concerns about potential interruption of vehicular and pedestrian traffic. Vehicle access to the communication facility will be limited to the same routes currently used to access the Department of Water

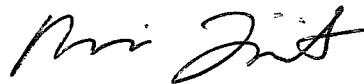
Supply (DWS) facilities. The MPD and their selected contractor will work the DOE to minimize interruptions to vehicle and pedestrian traffic at the schools.

2. A copy of the Final EA will be sent to DOE Maui representatives Mr. Lindsay Ball and Mr. Bruce Moore, which can be used as reference about the project. In addition, MPD intends to meet with the DOE Maui representatives prior to issuing construction documents to ensure that DOE concerns have incorporated into the documents.

The DWS has indicated preliminary subdivision plat maps have been submitted to the State of Hawai'i Department of Land and Natural Resource Maui District Land Agent for review and processing. To date, no comments have been received by the DWS. However, since the construction documents have not been issued for bids, further developments may be forthcoming from the State. The MPD will coordinate with the DWS regarding the DWS easement on the Lahainaluna High School campus.

We appreciate your input, and will include a copy of your comment letter along with this response letter in the Final EA for the proposed project. If you have any questions regarding this matter, please feel free to contact our office at (808) 244-2015.

Very truly yours,

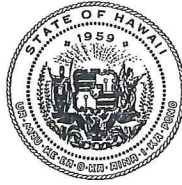


Marisa Fujimoto
Senior Associate

MF:lh

CC: John Sakaguchi, Wilson Okamoto Corporation
Walter Pacheco, Maui Police Department

K:\DATA\WOC\Lahinaluna WTF 1841\Draft EA\Response letters\DOEresponse.ltr.doc



JAN 25 2016

VIRGINIA PRESSLER, M.D.
DIRECTOR OF HEALTH

**STATE OF HAWAII
DEPARTMENT OF HEALTH**

P. O. BOX 3378
HONOLULU, HI 96801-3378

In reply, please refer to:
File:

EPO 16-006

January 19, 2016

Ms. Marissa Fujimoto
Munekiyo Hiraga
305 High Street, Suite 104
Wailuku, Hawaii 96793

Dear Ms. Fujimoto:

**SUBJECT: Draft Environmental Assessment (DEA) for Proposed Maui Police Department
Communications Facility at Lahaina Water Treatment Plant, Lahaina, Maui
TMK: (2) 4-7—19:012 (por)**

The Department of Health (DOH), Environmental Planning Office (EPO), acknowledges receipt of your DEA to our office via the OEQC link:

http://oegc.doh.hawaii.gov/Shared%20Documents/EA_and_EIS_Online_Library/Maui/2010s/2016-01-08-MA-5B-DEA-Maui-Police-Department-Communications-Facility.pdf

EPO strongly recommends that you review the standard comments and available strategies to support sustainable and healthy design provided at: <http://health.hawaii.gov/epo/landuse>. Projects are required to adhere to all applicable standard comments. EPO has recently prepared draft Environmental Health Management Maps for each county. They are online: <http://health.hawaii.gov/epo/egis>

Please note that all wastewater plans must conform to applicable provisions of the Department of Health's Administrative Rules, Chapter 11-62, "Wastewater Systems". We do reserve the right to review the detailed wastewater plans for conformance to applicable rules. Should you have any questions, please review online guidance at: <http://health.hawaii.gov/wastewater> and contact the Planning and Design Section of the Wastewater Branch at 586-4294.

If noise created during the construction phase of the project may exceed the maximum allowable levels as set forth in Hawaii Administrative Rules, Chapter 11-46, "Community Noise Control". A noise permit may be required and should be obtained before the commencement of work. Please call the Indoor and Radiological Health Branch at (808) 586-4700 and review relevant information online at: <http://health.hawaii.gov/irhb/noise>

EPO also suggests that the Hazard Evaluation and Emergency Response (HEER) Office's Site Discovery and Response (SDAR) Section be contacted. The SDAR section protects human health and the environment by identifying, investigating, and remediating sites contaminated with hazardous substances (non-emergency site investigations and cleanup). The HEER Office's SDAR Section can be contacted at: (808) 586-4249 and relevant information can be reviewed at: <http://eha-web.doh.hawaii.gov/eha-cma/Leaders/HEER/site-assessment-and-cleanup-programs>

EPO encourages you to examine and utilize the Hawaii Environmental Health Portal. The portal provides links to our e-Permitting Portal, Environmental Health Warehouse, Groundwater Contamination Viewer, Hawaii Emergency

Ms. Marissa Fujimoto
Page 2
January 19, 2016

Response Exchange, Hawaii State and Local Emission Inventory System, Water Pollution Control Viewer, Water Quality Data, Warnings, Advisories and Postings. The Portal is continually updated. Please visit it regularly at: <https://eha-cloud.doh.hawaii.gov>

You may also wish to review the draft Office of Environmental Quality Control (OEQC) viewer at: <http://eha-web.doh.hawaii.gov/oeqc-viewer> This viewer geographically shows where previous Hawaii Environmental Policy Act (HEPA) {Hawaii Revised Statutes, Chapter 343} documents have been prepared.

In order to better protect public health and the environment, the U.S. Environmental Protection Agency (EPA) has developed a new environmental justice (EJ) mapping and screening tool called EJSCREEN. It is based on nationally consistent data and combines environmental and demographic indicators in maps and reports. EPO encourages you to explore, launch and utilize this powerful tool in planning your project. The EPA EJSCREEN tool is available at: <http://www2.epa.gov/ejscreen>

We request that you utilize all of this information on your proposed project to increase sustainable, innovative, inspirational, transparent and healthy design.

Mahalo nui loa,



Laura Leialoha Phillips McIntyre, AICP
Program Manager, Environmental Planning Office

LM:nn

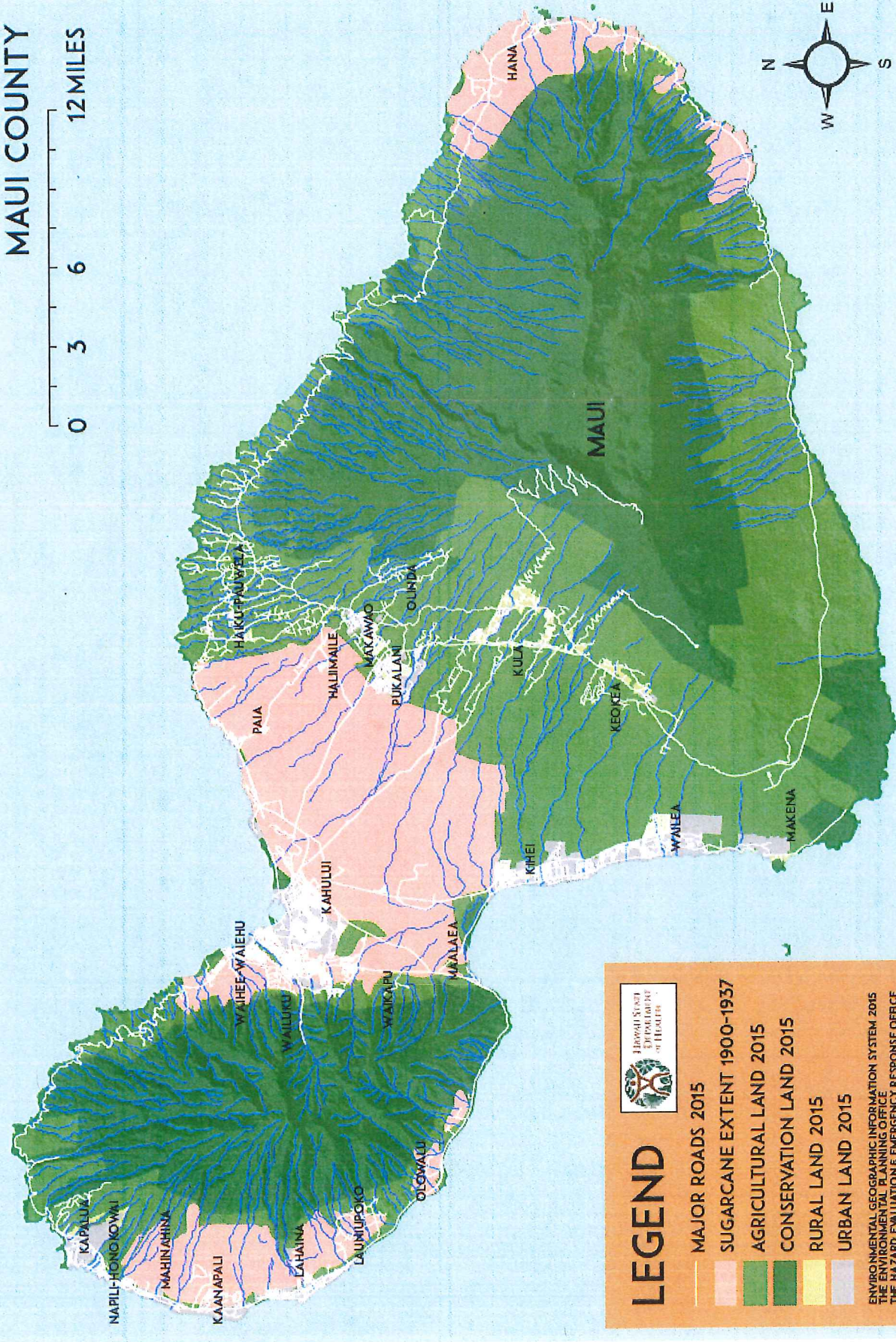
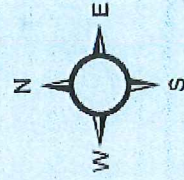
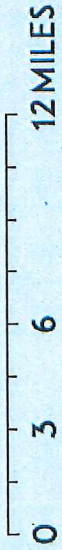
Attachment 1: EPO Draft Environmental Health Management Map
Attachment 2: EPO Historic Sugarcane Map
Attachment 3: OEQC Viewer Map
Attachment 4: U.S. EPA EJSCREEN

c: Walter H. Pacheco, Maui Police Department, County of Maui
DOH: DHO Maui, WWB, IRHB, HEER {via email only}



ENVIRONMENTAL HEALTH MANAGEMENT ON MAUI

MAUI COUNTY



LEGEND

- MAJOR ROADS 2015
- SUGARCANE EXTENT 1900-1937
- AGRICULTURAL LAND 2015
- CONSERVATION LAND 2015
- RURAL LAND 2015
- URBAN LAND 2015

ENVIRONMENTAL GEOGRAPHIC INFORMATION SYSTEM 2015
 HAWAII STATE DEPARTMENT OF HEALTH
 THE HAZARD EVALUATION & EMERGENCY RESPONSE OFFICE

SUGARCANE ON MAUI 1900-1937



lahaina water treatment

2 sites found

Results Filter

Show sites with no location

Lahainaluna High Cafeteria (DEA-AFNS) Environmental Assessment (Agency)

Lahainaluna High School Cante (FEA-FONS) Environmental Assessment (Agency)



Selected Variables	Raw Data	State Avg.	%ile in State	EPA Region Avg.	%ile in EPA Region	USA Avg.	%ile in USA
Environmental Indicators							
Particulate Matter (PM 2.5 in $\mu\text{g}/\text{m}^3$)	N/A	N/A	N/A	9.95	N/A	9.78	N/A
Ozone (ppb)	N/A	N/A	N/A	49.7	N/A	46.1	N/A
NATA Diesel PM ($\mu\text{g}/\text{m}^3$) [*]	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NATA Cancer Risk (lifetime risk per million) [*]	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NATA Respiratory Hazard Index [*]	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NATA Neurological Hazard Index [*]	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Traffic Proximity and Volume (daily traffic count/distance to road)	18	280	20	190	19	110	34
Lead Paint Indicator (% Pre-1960 Housing)	0.08	0.17	43	0.25	41	0.3	31
NPL Proximity (site count/km distance)	0.0063	0.092	26	0.11	6	0.096	2
RMP Proximity (facility count/km distance)	0.13	0.18	64	0.41	32	0.31	45
TSDF Proximity (facility count/km distance)	0.0068	0.092	28	0.12	3	0.054	17
Water Discharger Proximity (facility count/km distance)	0.044	0.33	11	0.19	11	0.25	9
Demographic Indicators							
Demographic Index	53%	51%	57	46%	62	35%	77
Minority Population	96%	77%	91	57%	91	36%	94
Low Income Population	10%	25%	19	35%	13	34%	13
Linguistically Isolated Population	17%	6%	91	9%	79	5%	90
Population With Less Than High School Education	28%	10%	95	18%	71	14%	83
Population Under 5 years of age	7%	6%	63	7%	55	7%	60
Population over 64 years of age	15%	14%	58	12%	75	13%	68

^{*} The National-scale Air Toxics Assessment (NATA) environmental indicators and EJ indexes, which include cancer risk, respiratory hazard, neurodevelopment hazard, and diesel particulate matter will be added into EJSCREEN during the first full public update after the soon-to-be-released 2011 dataset is made available. The National-Scale Air Toxics Assessment (NATA) is EPA's ongoing, comprehensive evaluation of air toxics in the United States. EPA developed the NATA to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that NATA provides broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. More information on the NATA analysis can be found at: <http://www.epa.gov/ttn/atw/natamain/index.html>.

For additional information, see: www.epa.gov/environmentaljustice

EJSCREEN is a screening tool for pre-decisional use only. It can help identify areas that may warrant additional consideration, analysis, or outreach. It does not provide a basis for decision-making, but it may help identify potential areas of EJ concern. Users should keep in mind that screening tools are subject to substantial uncertainty in their demographic and environmental data, particularly when looking at small geographic areas. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJSCREEN documentation for discussion of these issues before using reports. This screening tool does not provide data on every environmental impact and demographic factor that may be relevant to a particular location. EJSCREEN outputs should be supplemented with additional information and local knowledge before taking any action to address potential EJ concerns.



March 17, 2016

Laura Leialoha Phillips McIntyre, AICP
District Environmental Health Program Chief
Department of Health
State of Hawai'i
P.O. Box 3378
Honolulu, Hawai'i 96801

SUBJECT: Draft Environmental Assessment for Proposed Maui Police Department Communications Facility at the Lāhainā Water Treatment Plant, Lāhainā, Maui, Hawai'i, TMK (2)4-6-018:012 (por.)

Dear Ms. McIntyre:

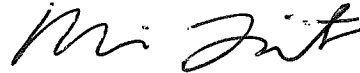
Thank you for your letter dated January 19, 2016 acknowledging the Department of Health, Environmental Planning Office's receipt of the Draft Environmental Assessment (EA) for the Proposed Maui Police Department (MPD) Communications Facility at the Lāhainā Water Treatment Plant. On behalf of the MPD, we offer the following responses to your comments in the order of your comments:

1. Applicable comments from the Department's website will be adhered to, as appropriate.
2. There are no wastewater plans associated with this project.
3. A noise permit will be obtained for the project, as applicable.
4. We are not aware of any hazardous substances affecting the project site. Should any be detected, the Hazard Evaluation and Emergency Response Office's Site Discovery and Response Section will be contacted, as needed.
5. Additional resources referenced in your letter will be considered, as applicable.

Laura Leialoha Phillips McIntyre, AICP
March 17, 2016
Page 2

We appreciate your input, and will include a copy of your comment letter along with this response letter in the Final EA for the proposed project. Should you have any questions regarding this matter, please contact me at (808) 244-2015.

Very truly yours,



Marisa Fujimoto
Senior Associate

MF:lh

CC: John Sakaguchi, Wilson Okamoto Corporation
Walter Pacheco, Maui Police Department

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DAVID Y. IGE
GOVERNOR OF HAWAII



JAN 25 2016

VIRGINIA PRESSLER, M.D.
DIRECTOR OF HEALTH

LORRIN W. PANG, M.D., M.P.H.
DISTRICT HEALTH OFFICER

STATE OF HAWAII
DEPARTMENT OF HEALTH
MAUI DISTRICT HEALTH OFFICE
54 HIGH STREET
WAILUKU, HAWAII 96793-3378

January 22, 2016

Ms. Marisa Fujimoto
Senior Associate
Munekiyo Hiraga
305 High Street, Suite 104
Wailuku, Hawaii 96793

Dear Ms. Fujimoto:

Subject: Draft Environmental Assessment for Proposed Police Department
Communications Facility at Lahaina Water Treatment Plant
TMK: (2) 4-6-018:012 (por.)

Thank you for the opportunity to review this project. We have no comments to offer. It is strongly recommended that the Standard Comments found at the Department's website: <http://health.hawaii.gov/epo/home/landuse-planning-review-program/> be reviewed and any comments specifically applicable to this project should be adhered to.

Should you have any questions, please contact me at patricia.kitkowski@doh.hawaii.gov or 808 984-8230.

Sincerely,

Patti Kitkowski
District Environmental Health Program Chief

c EPO
Maui Police Department



MUNEKIYO HIRAGA

Planning. Project Management. Sustainable Solutions.

Michael T. Munekiyo
PRESIDENT

Karlynn K. Fukuda
EXECUTIVE VICE PRESIDENT

Mark Alexander Roy
VICE PRESIDENT

Tessa Munekiyo Ng
VICE PRESIDENT

March 17, 2016

Patti Kitkowski
District Environmental Health Program Chief
Department of Health
54 High Street, Suite 301
Wailuku, Hawaii 96793

SUBJECT: Draft Environmental Assessment for Proposed Maui Police Department Communications Facility at the Lahaina Water Treatment Plant, Lāhainā, Maui, Hawai'i, TMK (2)4-6-018:012 (por.)

Dear Ms. Kitkowski:

Thank you for your letter dated January 22, 2016, advising that you have no comments on the Draft Environmental Assessment (EA) for the Proposed Maui Police Department Communications Facility at the Lāhainā Water Treatment Plant. As recommended in your letter, applicable comments from the Department's website will be adhered to, as appropriate.

We appreciate your input, and will include a copy of your comment letter along with this response letter in the Final EA for the proposed project. If you have any questions regarding this matter, please feel free to contact our office at 244-2015.

Very truly yours,

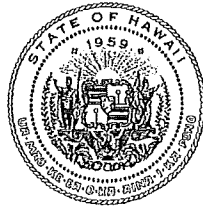
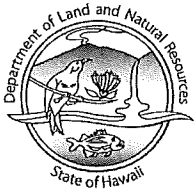
Marisa Fujimoto
Senior Associate

MF:lh

CC: John Sakaguchi, Wilson Okamoto Corporation
Walter Pacheco, Maui Police Department

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DAVID Y. IGE
GOVERNOR OF HAWAII



SUZANNE D. CASE
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE
MANAGEMENT

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
LAND DIVISION

POST OFFICE BOX 621
HONOLULU, HAWAII 96809

February 5, 2016

Munekiyo & Hiraga, Inc.
Attention: Ms. Marisa Fujimoto, Senior Associate
305 High Street, Suite 104
Wailuku, Hawaii 96793

via email: planning@mhplanning.com

Dear Ms. Fujimoto:

SUBJECT: Draft Environmental Assessment for Proposed Maui Police Department
Communications Facility at Lahaina Water Treatment Plant

Thank you for the opportunity to review and comment on the subject matter. The Department of Land and Natural Resources' (DLNR) Land Division distributed or made available a copy of your report pertaining to the subject matter to DLNR Divisions for their review and comments.

At this time, enclosed are comments from the Engineering Division on the subject matter. Should you have any questions, please feel free to call Lydia Morikawa at 587-0410. Thank you.

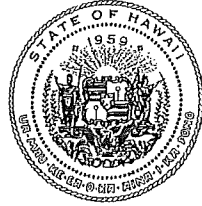
Sincerely,

A handwritten signature in black ink, appearing to read "Russell Y. Tsuji".

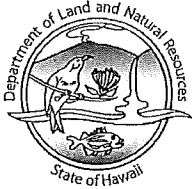
Russell Y. Tsuji
Land Administrator

Enclosure(s)
cc: Central Files

DAVID Y. IGE
GOVERNOR OF HAWAII



SUZANNE D. CASE
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE
MANAGEMENT



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
LAND DIVISION

POST OFFICE BOX 621
HONOLULU, HAWAII 96809

January 8, 2016

MEMORANDUM

RECEIVED
LAND DIVISION
2016 JAN 21 AM 10:49
DEPT. OF LAND &
NATURAL RESOURCES
STATE OF HAWAII

TO: FR:

DLNR Agencies:

- Div. of Aquatic Resources
- Div. of Boating & Ocean Recreation
- Engineering Division
- Div. of Forestry & Wildlife
- Div. of State Parks
- Commission on Water Resource Management
- Office of Conservation & Coastal Lands
- Land Division – Maui District
- Historic Preservation

TO:

FROM: Russell Y. Tsuji, Land Administrator *ka*

SUBJECT: Draft Environmental Assessment for Proposed Maui Police Department Communications Facility at Lahaina Water Treatment Plant

LOCATION: Lahaina, Island of Maui; TMK: (2) 4-6-018:012 (por.)

APPLICANT: Maui Police Department

Transmitted for your review and comment is information on the above-referenced project. We would appreciate your comments on this project. Please submit any comments by **February 4, 2016**.

The DEA can be found on-line at: <http://health.hawaii.gov/oeqc/> (Click on the Current Environmental Notice under Quick Links on the right.)

If no response is received by this date, we will assume your agency has no comments. If you have any questions about this request, please contact Lydia Morikawa at 587-0410. Thank you.

Attachments

- We have no objections.
- We have no comments.
- Comments are attached.

Signed: *Carty S. Chang*

Print Name: Carty S. Chang, Chief Engineer

Date: 1/21/16

cc: Central Files

**DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION**

LD/ Russell Y. Tsuji

REF: Maui Police Department Communications Facility at Lahaina Water Treatment Plant
Maui.005

COMMENTS

- () We confirm that the parcel/project site, according to the Flood Insurance Rate Map (FIRM), is located in Zones X. The National Flood Insurance Program does not regulate developments within Zones X.
- (X) **Please take note that the project site, according to the Flood Insurance Rate Map (FIRM), is also located in Zone X.** The National Flood Insurance Program does not regulate developments within Zones X.
- () Please note that the correct Flood Zone Designation for the project site according to the Flood Insurance Rate Map (FIRM) is ____.
- () Please note that the project site must comply with the rules and regulations of the National Flood Insurance Program (NFIP) presented in Title 44 of the Code of Federal Regulations (44CFR), whenever development within a Special Flood Hazard Area is undertaken. If there are any questions, please contact the State NFIP Coordinator, Ms. Carol Tyau-Beam, of the Department of Land and Natural Resources, Engineering Division at (808) 587-0267.

Please be advised that 44CFR indicates the minimum standards set forth by the NFIP. Your Community's local flood ordinance may prove to be more restrictive and thus take precedence over the minimum NFIP standards. If there are questions regarding the local flood ordinances, please contact the applicable County NFIP Coordinators below:

- () Mr. Mario Siu Li at (808) 768-8098 of the City and County of Honolulu, Department of Planning and Permitting.
 - () Mr. Carter Romero (Acting) at (808) 961-8943 of the County of Hawaii, Department of Public Works.
 - () Ms. Carolyn Cortez at (808) 270-7253 of the County of Maui, Department of Planning.
 - () Mr. Stanford Iwamoto at (808) 241-4896 of the County of Kauai, Department of Public Works.
- () The applicant should include project water demands and infrastructure required to meet water demands. Please note that the implementation of State-sponsored projects requiring water service from the Honolulu Board of Water Supply system must first obtain water allocation credits from the Engineering Division before it can receive a building permit and/or water meter.
- () The applicant should provide the water demands and calculations to the Engineering Division so it can be included in the State Water Projects Plan Update.

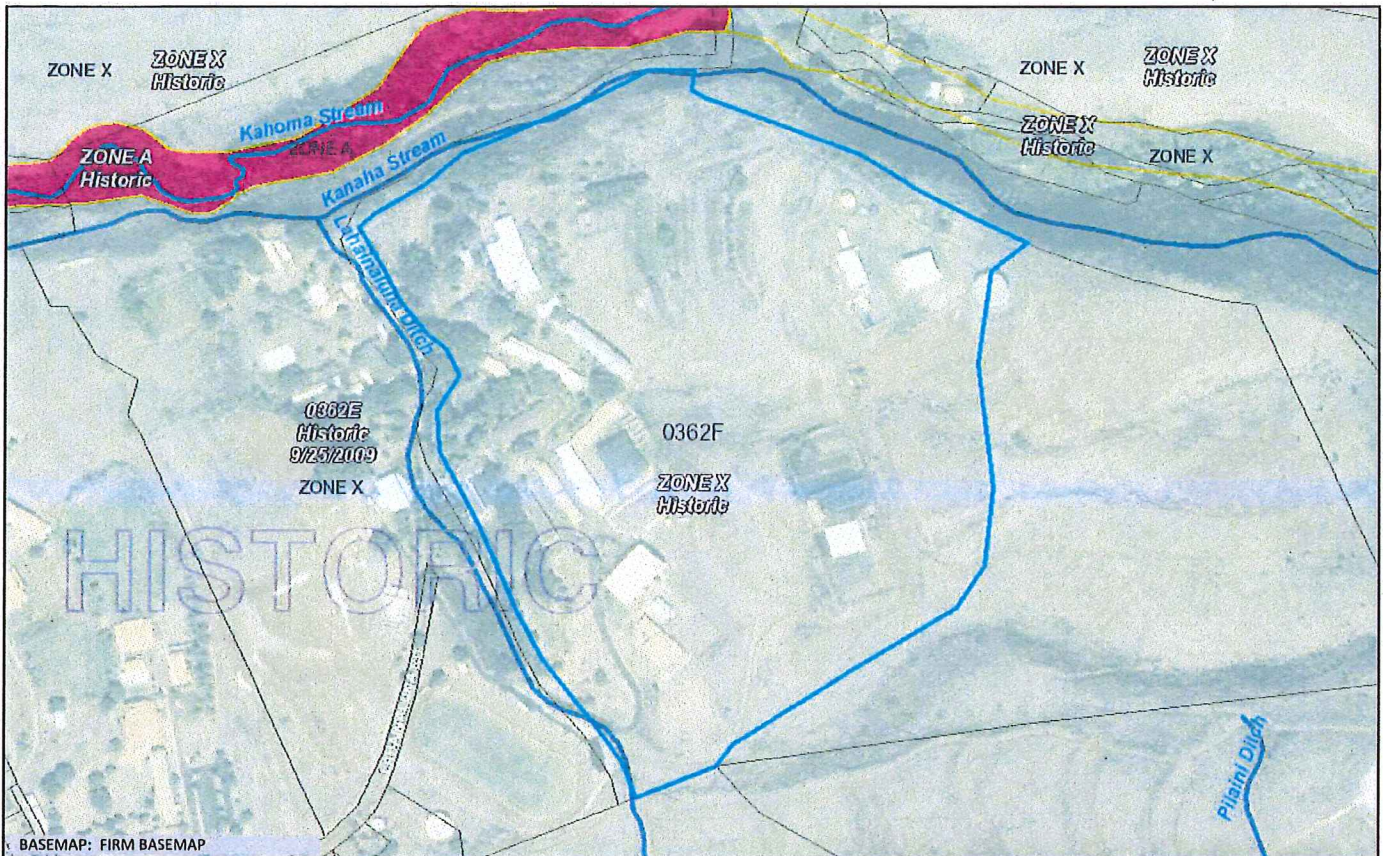
- () Additional Comments: _____

- () Other: _____

Should you have any questions, please call Mr. Rodney Shiraishi of the Planning Branch at 587-0258.

Signed: 
CARTY S. CHANG, CHIEF ENGINEER

Date: 1/20/14



BASEMAP: FIRM BASEMAP



Flood Hazard Assessment Report

www.hawaiiifip.org

Maui Police Dept Comm Fac

Property Information

COUNTY: MAUI
 TMK NO: (2) 4-6-018:012
 WATERSHED: KAHOMA; KAUAULA
 PARCEL ADDRESS: 980 LAHAINALUNA RD
 LAHAINA, HI 96761

Notes:

Flood Hazard Information

FIRM INDEX DATE: NOVEMBER 04, 2015
 LETTER OF MAP CHANGE(S): NONE
 FEMA FIRM PANEL: 1500030362F
 PANEL EFFECTIVE DATE: SEPTEMBER 19, 2012

THIS PROPERTY IS WITHIN A TSUNAMI EVACUATION ZONE: NO
 FOR MORE INFO, VISIT: <http://www.scd.hawaii.gov/>

THIS PROPERTY IS WITHIN A DAM EVACUATION ZONE: NO
 FOR MORE INFO, VISIT: <http://dlnreng.hawaii.gov/dam/>



Disclaimer: The Hawaii Department of Land and Natural Resources (DLNR) assumes no responsibility arising from the use, accuracy, completeness, and timeliness of any information contained in this report. Viewers/Users are responsible for verifying the accuracy of the information and agree to indemnify the DLNR, its officers, and employees from any liability which may arise from its use of its data or information.

If this map has been identified as 'PRELIMINARY', please note that it is being provided for informational purposes and is not to be used for flood insurance rating. Contact your county floodplain manager for flood zone determinations to be used for compliance with local floodplain management regulations.

FLOOD HAZARD ASSESSMENT TOOL LAYER LEGEND (Note: legend does not correspond with NFHL)

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD - The 1% annual chance flood (100-year), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. SFHAs include Zone A, AE, AH, AO, V, and VE. The Base Flood Elevation (BFE) is the water surface elevation of the 1% annual chance flood. Mandatory flood insurance purchase applies in these zones:

	Zone A: No BFE determined.
	Zone AE: BFE determined.
	Zone AH: Flood depths of 1 to 3 feet (usually areas of ponding); BFE determined.
	Zone AO: Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined.
	Zone V: Coastal flood zone with velocity hazard (wave action); no BFE determined.
	Zone VE: Coastal flood zone with velocity hazard (wave action); BFE determined.
	Zone AEF: Floodway areas in Zone AE. The floodway is the channel of stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without increasing the BFE.

NON-SPECIAL FLOOD HAZARD AREA - An area in a low-to-moderate risk flood zone. No mandatory flood insurance purchase requirements apply, but coverage is available in participating communities.

	Zone XS (X shaded): Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.
	Zone X: Areas determined to be outside the 0.2% annual chance floodplain.

OTHER FLOOD AREAS

	Zone D: Unstudied areas where flood hazards are undetermined, but flooding is possible. No mandatory flood insurance purchase apply, but coverage is available in participating communities.
--	--



March 17, 2016

Russell Tsuji
Land Administrator
Department of Land and Natural Resources
State of Hawai'i
P.O. Box 621
Honolulu, Hawai'i 96809

SUBJECT: Draft Environmental Assessment for Proposed Maui Police Department Communications Facility at the Lāhainā Water Treatment Plant, Lāhainā, Maui, Hawai'i, TMK (2)4-6-018:012 (por.)

Dear Mr. Tsuji:

Thank you for your letter dated February 5, 2016, providing comments on the Draft Environmental Assessment (EA) for the Proposed Maui Police Department (MPD) Communications Facility at the Lāhainā Water Treatment Plant. On behalf of the MPD, we offer the following response to your comment:

Engineering Division:

1. It is noted that the project site is located in Flood Zone X and is not subject to regulation by the National Flood Insurance Program.

We appreciate your input and will include a copy of your comment letter along with this response letter in the Final EA for the proposed project. If you have any questions regarding this matter, please feel free to contact our office at (808) 244-2015.

Very truly yours,

Marisa Fujimoto
Senior Associate

MF:lh

CC: John Sakaguchi, Wilson Okamoto Corporation
Walter Pacheco, Maui Police Department

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JAN 25 2016

DAVID Y. IGE
GOVERNOR OF HAWAII



Scott Glenn
INTERIM DIRECTOR

STATE OF HAWAII
OFFICE OF ENVIRONMENTAL QUALITY CONTROL

Department of Health
235 South Beretania Street, Suite 702
Honolulu, Hawaii 96813
Telephone (808) 586-4185
Facsimile (808) 586-4186
Email: oeqchawaii@doh.hawaii.gov

January 20, 2016

Walter H. Pacheco
County of Maui, Police Department
55 Mahalani Street
Wailuku, Hawaii 96793

Dear Mr. Pacheco,

SUBJECT: Draft Environmental Assessment (EA) for MPD Communications Facility at Lāhainā Water Treatment Plant, Lāhainā, Maui

The Office of Environmental Quality Control (OEQC) reviewed the Draft EA prepared for the subject project and offers the following comments for your consideration.

In the Potential Impacts and Proposed Minimization Measures section (6b), the project does not address specific measures to the project. While it lists what the Division of Forestry and Wildlife (DOFAW) recommended, it is unclear whether this project is proposing to enact any of these measures. Pending correspondence with DOFAW about mitigation measures for Nene is also mentioned. The OEQC recommends specific measures addressing endangered and threatened wildlife be clearly listed in the Final EA. The OEQC seconds all recommended mitigation measures for minimizing impacts to endangered and threatened species discussed by DOFAW. While avian and bat collisions are not anticipated, OEQC recommends monitoring for any collisions witnessed, evidence of collisions, and birds or bats found dead on the property for a year. This information can then be used to reassess the empirical impact the tower may have on flying species, and serve as the basis for measuring the effectiveness of the mitigation measures.

Also, please add more information regarding stormwater runoff and recommend specific mitigations for it. Using gravel instead of concrete around the tower and planting native vegetation are examples of mitigation measures that can easily be incorporated into a project such as this.

Lastly, the OEQC would like to recommend considering climate change for this and all future projects. Changing weather patterns in the Pacific are projected to result in increased tropical storms and localized precipitation severity, resulting in periodic extreme downpours. It is recommended that the project's infrastructure and stormwater run-off mitigation measures be able to withstand extreme precipitation and tropical storms.

Thank you for the opportunity to comment on the Draft EA. We look forward to a response that also will be included within the project's Final EA. If you have questions about these comments, please consult myself or Tom Eisen in our office at (808) 586-4185.

Sincerely,

A handwritten signature in black ink, consisting of a large, stylized initial 'S' followed by a horizontal line extending to the right.

Scott Glenn, Interim Director

Cc: Marisa Fujimoto, Munekiyo Hiraga

March 18, 2016

Scott Glenn, Interim Director
Office of Environmental Quality Control
Department of Health
235 South Beretania Street, Suite 702
Honolulu, Hawai'i 96813

SUBJECT: Draft Environmental Assessment for Proposed Maui Police Department Communications Facility at the Lāhainā Water Treatment Plant, Lāhainā, Maui, Hawai'i, TMK (2)4-6-018:012 (por.)

Dear Mr. Glenn:

Thank you for your letter dated January 20, 2016, providing comments on the Draft Environmental Assessment (EA) for the Proposed Maui Police Department (MPD) Communications Facility at the Lāhainā Water Treatment Plant. On behalf of the MPD, we offer the following responses to your comments in the order of your comments:

1. Potential Impacts and Proposed Minimization Measures:

Pages 23-24 of the Draft EA describe the minimization measures recommended by the U.S. Fish and Wildlife Service (USFWS). The Draft EA notes that applicable minimization measures will be implemented during construction. We will update the Final EA to state that applicable minimization measures will be implemented for the project (not just during construction).

While the State of Hawai'i Department of Land and Natural Resources, Division of Forestry and Wildlife (DOFAW) did not provide specific recommendations regarding minimization measures for endangered or threatened wildlife for the Draft EA, the report stated that DOFAW will be consulted on appropriate minimization measures to prevent negative impacts to Nēnē geese during project construction. Since the publication of the Draft EA, follow up was undertaken with DOFAW Maui District on minimization measures for Nēnē. In regards to the construction of the tower and facility, DOFAW stated that their only concern regarding the Nēnē is regarding construction during the nesting season, which can start as early as October and run through April. The construction documents for the project will state that construction shall not start during the Nēnē nesting

season; however, once started, construction may continue as long as Nēnē are not present at the project site. The contract documents will also state that DOFAW should be notified if Nēnē enter the project site. Additionally, DOFAW requested to be involved in the preconstruction meeting to address any wildlife concerns or issues. To meet DOFAW's concerns, the contract documents will include the DOFAW contact telephone number.

As stated in the Draft EA, radar and audiovisual surveys were conducted detect overflights of the Hawaiian Petrel and Newell's Shearwater. As noted in the Draft EA, there were no audiovisual observations of either species. However, the survey detected a low number of overflights on the species, all of which were at altitudes above the height of the tower. Based on these findings, coordination will be undertaken with the U.S. Fish and Wildlife Service (USFWS) in accordance with requirements of Section 7 of the Endangered Species Act. The MPD will comply with findings/recommendations of the USFWS, including those related to collision monitoring at the project site.

2. Stormwater Runoff:

As noted on Figure 3, Site Plan, and Page 8, Proposed Action – Tower and Antennas, and Appendix A, Sheet C-104, of the Draft EA, the areas of concrete pavement have been limited to the necessary widths for vehicular and maintenance access to the facility and to minimize runoff. In addition, as shown on Sheet C-14, the site grading slopes toward the gravel bed sited next to the communication facility, which will serve for stormwater infiltration of runoff. In addition, construction documents will incorporate specific stormwater management measures, including, where applicable, soil stabilization measures, installation of silt fencing, and provision of berms and basins for managing runoff.

3. Climate Change:

Under the description of the Proposed Action on Page 5, the Draft EA states that MPD specifications require the building, tower, and antennas remain operational at wind speeds up to 110 miles per hour and the facilities, including the tower survive wind speeds of up to 155 mile sped hour. Further, the Draft EA stated the tower will be designed to meet the guidelines set forth in the American National Standard Institute/Telecommunications Industry Association (ANSI/TIA) 222-G Structural Standards for Antenna Supporting Structures and Antennas.

As noted on pages 5 and 7 of the Draft EA, the equipment building will have 8-inch thick reinforced concrete masonry unit walls, a cast-in-place concrete roof, and concrete slab floors to protect the contained sensitive equipment from the

Scott Glenn, Interim Director
March 18, 2016
Page 3

elements. Additionally, an integrated approach will be taken to protect the entire facility from damage caused by lightning strikes.

We appreciate your input and will include a copy of your comment letter along with this response letter in the Final EA for the proposed project. If you have any questions regarding this matter, please feel free to contact our office at (808) 244-2015.

Very truly yours,



Marisa Fujimoto
Senior Associate

MF:lh

CC: John Sakaguchi, Wilson Okamoto Corporation
Walter Pacheco, Maui Police Department

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FEB 22 2016

PHONE (808) 594-1888

FAX (808) 594-1938



STATE OF HAWAII
OFFICE OF HAWAIIAN AFFAIRS
560 N. NIMITZ HWY., SUITE 200
HONOLULU, HAWAII 96817

HRD 16-7580B

February 9, 2016

Munekiyo Hiraga
Attention: Marisa Fujimoto, Senior Associate
305 High Street, Suite 104
Wailuku, Hawai'i 96793

Re: Draft Environmental Assessment for Proposed Maui Police Department Communications Facility at Lahaina Water Treatment Plant
Ku'ia Ahupua'a, Lahaina Moku, Maui Moku
TMK: (2) 4-6-018:012 (por.)

Aloha Ms. Fujimoto:

The Office of Hawaiian Affairs (OHA) received your letter dated January 6, 2016, requesting comments on the above-titled project. Given the project descriptions provided, our agency has no comments at this time. Should you have any questions, please contact Everett Ohta at 594-0231 or everetto@oha.org.

'O wau iho nō me ka 'ōia 'i'o,

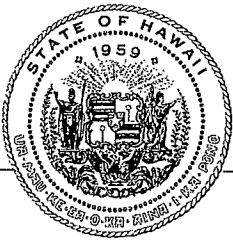
A handwritten signature in black ink, appearing to read "Kamana'opono M. Crabbe".

Kamana'opono M. Crabbe, Ph.D.
Ka Pouhana, Chief Executive Officer

KC: rg

**Please address replies and similar, future correspondence to our agency:*

*Dr. Kamana'opono Crabbe
Attn: OHA Compliance Enforcement
560 N. Nimitz Hwy., Ste. 200
Honolulu, Hawai'i 96817*



OFFICE OF PLANNING STATE OF HAWAII

235 South Beretania Street, 6th Floor, Honolulu, Hawaii 96813
Mailing Address: P.O. Box 2359, Honolulu, Hawaii 96804

Telephone: (808) 587-2846
Fax: (808) 587-2824
Web: <http://planning.hawaii.gov/>

FEB 08 2016

DAVID Y. IGE
GOVERNOR

LEO R. ASUNCION
DIRECTOR
OFFICE OF PLANNING

Ref. No. P-15033

January 29, 2016

Mr. Walter H. Pacheco
Maui Police Department
County of Maui
55 Mahalani Street
Wailuku, Hawaii 96793

Dear Mr. Pacheco:

Subject: Draft Environmental Assessment for the Proposed Maui Police Department
Communication Facility at Lahaina Water Treatment Plant;
Tax Map Key: (2) 4-6-018: 012 (por)

Thank you for the opportunity to provide comments on the Draft Environmental Assessment (Draft EA) for the proposed Maui Police Department Communication Facility project. The Draft EA review material was transmitted to our office by letter dated January 6, 2016.

It is our understanding that The Maui Police Department (MPD) proposes the construction of a communications facility that will meet the department's needs in terms of coverage, reliability, capacity, and security. The new facility will enhance the existing communication infrastructure and provide a secure communications facility for government agencies and facilities that provide health, safety, emergency, and educational services within the County of Maui.

The MPD-owned and operated facility will provide secure microwave radio transmissions and will support the County's voice and data network serving West Maui, including First Responder emergency communications.

The Office of Planning (OP) has reviewed the transmitted material and has the following comments to offer:

1. The Draft EA addresses a number of our comments made in a previous pre-consultation letter dated September 8, 2015 (Reference Number P-14899). The Draft EA addresses the project's consistency with the Hawaii State Plan objectives and policies listed in Hawaii Revised Statutes (HRS) Chapter 226; the objectives and policies of the Hawaii Coastal Zone Management Act, listed in HRS § 205A-2; examines coastal

erosion/sediment loss issues during the construction phase; and addresses flooding concerns for the surrounding area.

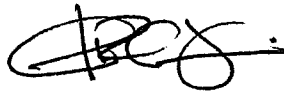
2. Section II A. b., page 14 states that the project will adhere to best management practices (BMP) to minimize erosion from the project site during and after construction. Temporary erosion control methods include silt fences, filter socks, or silt barriers. During the design phase of the project, for long-term stormwater mitigation, please consider further methods to safeguard against stormwater runoff in addition to those listed above.

Reducing the amount of impervious and hardened surfaces is an effective method in mitigating stormwater inundation. During heavy storms, hardened surfaces allow storm runoff to flow into dry gulches, and streams and overwhelm nearby coastal areas with sediment and land-based pollutants.

Low Impact Development (LID) design concepts and stormwater runoff BMPs embrace decentralized micro-scale controls that infiltrate, filter, store, reuse, evaporate, and detain runoff close to its source. Examples of effective LID stormwater control methods such as landscaping, bio-retention basins, and permeable pavers for driveways and access roads. These, and other methods, are cited in OP's "Low Impact Development, A Practitioners Guide." For more information on this, please examine Section 3.4, pgs. 3-14 to 3-17 of this guide. It can be viewed or downloaded from the OP website at:
http://files.hawaii.gov/dbedt/op/czm/initiative/lid/lid_guide_2006.pdf

If you have any questions regarding this comment letter, please contact Josh Hekeka of our office at (808) 587-2845.

Sincerely,



Leo R. Asuncion
Director

c: Marisa Fujimoto, Senior Associate, Munekiyo Hiraga



MUNEKIYO HIRAGA

Planning. Project Management. Sustainable Solutions.

Michael T. Munekiyo
PRESIDENT

Karlynn K. Fukuda
EXECUTIVE VICE PRESIDENT

Mark Alexander Roy
VICE PRESIDENT

Tessa Munekiyo Ng
VICE PRESIDENT

March 17, 2016

Leo R. Asuncion, Director
Office of Planning
State of Hawai'i
P.O. Box 2359
Honolulu, Hawai'i 96804

SUBJECT: Draft Environmental Assessment for Proposed Maui Police Department Communications Facility at the Lāhainā Water Treatment Plant, Lāhainā, Maui, Hawai'i, TMK (2)4-6-018:012 (por.)

Dear Mr. Asuncion:

Thank you for your letter dated January 29, 2016, providing comments on the Draft Environmental Assessment (EA) for Proposed Maui Police Department (MPD) Communications Facility at the Lāhainā Water Treatment Plant. On behalf of the MPD, we offer the following responses to your comments in the order of your comments:

1. We note that the Office of Planning acknowledges that comments provided during early consultation were incorporated in the Draft EA, including addressing the project's consistency with the Hawai'i State Plan, and the objectives and policies of the Hawai'i Coastal Zone Management Act, examines erosion during construction, and addresses flooding concerns for the surrounding area.
2. Your recommendations on additional stormwater mitigation have been forwarded to the project design consultant for consideration.

Leo R. Asuncion, Director
March 17, 2016
Page 2

We appreciate your input and will include a copy of your comment letter along with this response letter in the Final EA for the proposed project. If you have any questions regarding this matter, please feel free to contact our office at (808) 244-2015.

Very truly yours,



Marisa Fujimoto
Senior Associate

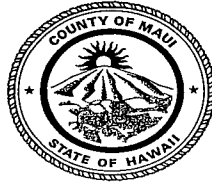
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CC: John Sakaguchi, Wilson Okamoto Corporation
Walter Pacheco, Maui Police Department

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FEB 16 2016

ALAN M. ARAKAWA
MAYOR



JEFFREY A. MURRAY
FIRE CHIEF

ROBERT M. SHIMADA
DEPUTY FIRE CHIEF

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

313 MANEA PLACE . WAILUKU, HAWAII 96793
(808) 876-4690 . FAX (808) 244-1363

February 10, 2016

Munekiyo & Hiraga, Inc.
Attn: Marisa Fujimoto, Senior Associate
305 High Street, Suite 104
Wailuku, HI 96793

Re: Proposed Maui Police Department Comm. Facility in Lahaina
Draft Environmental Assessment
Lahaina, Maui, HI
(2) 4-6-018: 012 (por.)

Dear Marisa:

Thank you for the opportunity to comment on this subject. At this time, our office provides the following comments:

- Our office does reserve the right to comment on the proposed project during the building permit review process when fire department access, water supply for fire protection, and fire and life safety requirements will be addressed.
- When the mentioned fire protection systems (FM 200 & CO2 systems) are installed, our office would like to be a part of the acceptance testing associated with these systems.

If there are any questions or comments, please feel free to contact me at (808) 876-4693.

Sincerely,

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

Paul Haake
Captain, Fire Prevention Bureau



MUNEKIYO HIRAGA

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Michael T. Munekiyo
PRESIDENT

Karlynn K. Fukuda
EXECUTIVE VICE PRESIDENT

Mark Alexander Roy
VICE PRESIDENT

Tessa Munekiyo Ng
VICE PRESIDENT

March 17, 2016

Paul Haake, Captain
Fire Prevention Bureau
County of Maui
313 Manea Place
Wailuku, Hawai'i 96793

SUBJECT: Draft Environmental Assessment for Proposed Maui Police Department Communications Facility at the Lāhainā Water Treatment Plant, Lāhainā, Maui, Hawai'i, TMK (2)4-6-018:012 (por.)

Dear Captain Haake:

Thank you for your letter dated February 10, 2016, providing comments on the Draft Environmental Assessment (EA) for the Proposed Maui Police Department (MPD) Communications Facility at the Lāhainā Water Treatment Plant. On behalf of the MPD, we offer the following responses to your comments in the order of your comments:

1. Your request to comment on the proposed project during the building permit review process is noted.
2. The MPD will coordinate with your office regarding testing of the fire protection systems.

We appreciate your input and will include a copy of your comment letter along with this response letter in the Final EA for the proposed project. If you have any questions regarding this matter, please feel free to contact our office at 244-2015.

Very truly yours,

Marisa Fujimoto
Senior Associate

MF:lh

CC: John Sakaguchi, Wilson Okamoto Corporation
Walter Pacheco, Maui Police Department

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Maui: 305 High Street, Suite 104 • Wailuku, Hawaii 96793 • Tel: 808.244.2015 • Fax: 808.244.8729

Oahu: 735 Bishop Street, Suite 321 • Honolulu, Hawaii 96813 • Tel: 808.983.1233

www.munekiyo-hiraga.com

ALAN M. ARAKAWA
Mayor

DAVID C. GOODE
Director

ROWENA M. DAGDAG-ANDAYA
Deputy Director

Telephone: (808) 270-7845
Fax: (808) 270-7955



COUNTY OF MAUI
DEPARTMENT OF PUBLIC WORKS

200 SOUTH HIGH STREET, ROOM NO. 434
WAILUKU, MAUI, HAWAII 96793

February 3, 2016

GLEN A. UENO, P.E., P.L.S.
Development Services Administration

CARY YAMASHITA, P.E.
Engineering Division

Highways Division

Ms. Marissa Fujimoto, Senior Associate
MUNEKIYO HIRAGA
305 High Street, Suite 104
Wailuku, Maui, Hawaii 96793

Dear Ms. Fujimoto:

**SUBJECT: DRAFT ENVIRONMENTAL ASSESSMENT FOR PROPOSED
MAUI POLICE DEPARTMENT COMMUNICATIONS FACILITY AT
LAHAINA WATER TREATMENT PLANT; TMK: 4-6-018:012
(POR,)**

We reviewed the subject application and have no comments at this time.

If you have any questions regarding this memorandum, please call Rowena Dagdag-Andaya at 270-7845.

Sincerely,

A handwritten signature in black ink, appearing to read "D. Goode".

DAVID C. GOODE
Director of Public Works

DCG:RMDA:da

xc: Highways Division
Engineering Division

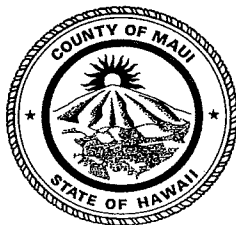
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JAN 15 2016

ALAN M. ARAKAWA
Mayor

STEWART STANT
Director

MICHAEL M. MIYAMOTO
Deputy Director



MICHAEL RATTE
Solid Waste Division
ERIC NAKAGAWA, P.E.
Wastewater Reclamation Division

**COUNTY OF MAUI
DEPARTMENT OF
ENVIRONMENTAL MANAGEMENT**

2050 MAIN STREET, SUITE 1C
WAILUKU, MAUI, HAWAII 96793

January 12, 2016

Ms. Marisa Fujimoto
Munekiyo Hiraga
305 High Street, Suite 104
Wailuku, Hawaii 96793

**SUBJECT: MAUI POLICE DEPARTMENT COMMUNICATIONS FACILITY
AT THE LAHAINA WATER TREATMENT PLANT
DRAFT ENVIRONMENTAL ASSESSMENT
TMK (2) 4-6-018:012 (POR.), LAHAINA**

We reviewed the subject application and have the following comments:

1. Solid Waste Division comments:
 - a. None
2. Wastewater Reclamation Division (WWRD) comments:
 - a. None

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

Sincerely,

A handwritten signature in black ink, appearing to read "Stewart Stant".

STEWART STANT
Director of Environmental Management

xc: Maui Police Department
Attention: Mr. Walter H. Pacheco
County of Maui
55 Mahalani Street
Wailuku, Hawaii 96793

XI. REFERENCES

XI. REFERENCES

County of Maui, Office of Economic Development (OED), Maui County Data Book, 2014.

County of Maui, West Maui Community Plan, February 1996.

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APPENDIX A.
Preliminary Civil Plans

GENERAL NOTES

- INVESTIGATE, VERIFY AND BE RESPONSIBLE FOR PROJECT CONDITIONS INCLUDING ELEVATIONS, UNDERGROUND OBSTACLES, GRADES AND DIMENSIONS. REPORT DISCREPANCIES TO THE OFFICER-IN-CHARGE BEFORE COMMENCING WORK.
- VERIFY THE LOCATION OF EXISTING UTILITIES, WHETHER SHOWN ON DRAWINGS OR NOT, AND BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF THE SAME IN THE EVENT OF DAMAGE DUE TO CONSTRUCTION ACTIVITIES.
- VERIFY DIMENSIONS AND CONDITIONS AND REPORT DISCREPANCIES IN WRITING TO OFFICER-IN-CHARGE BEFORE COMMENCING WORK OR ORDERING MATERIALS.
- PERFORM EXISTING CONDITIONS SURVEY PRIOR TO BID. NO EXTRA COST WILL BE APPROVED BASED ON CONTRACTOR'S FAILURE TO OBSERVE CONFLICTING EXISTING CONDITIONS AND PROVIDE FOR THEIR CORRECTIONS.
- NOTIFY THE OFFICER-IN-CHARGE OF DISCREPANCIES OF CONSTRUCTION DRAWINGS/SPECIFICATIONS OR CLARIFICATIONS NEEDED PRIOR TO COMMENCEMENT OF WORK.
- FOR INSTALLATION OF NEW ITEMS TO EXISTING STRUCTURES, VERIFY THE EXISTING CONDITIONS AT PROJECT SITE AND INCLUDE ITEMS FOR A COMPLETE INSTALLATION, WHETHER SHOWN OR NOT.
- BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES, FOR COORDINATION OF WORK INCLUDING TEMPORARY BRACING, SHORING, SCAFFOLDING, AND DEWATERING.
- LAYOUT WORK WITH PRECISION AND ACCURACY THROUGHOUT PROJECT.
- OBSERVE AND COMPLY WITH FEDERAL, STATE AND LOCAL LAWS REQUIRED FOR THE PROTECTION OF PUBLIC HEALTH AND SAFETY AND ENVIRONMENTAL QUALITY.
- DO NOT TAKE ADVANTAGE OF APPARENT ERRORS OR OMISSIONS IN THE CONTRACT DOCUMENTS.
- BE RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING SAFETY PRECAUTIONS AND PROGRAMS ON OR OFF JOBSITE.
- DETAILS SHOWN ON DRAWINGS SHALL BE TYPICAL FOR SIMILAR CONDITIONS. CONTRACTOR SHALL MODIFY DETAILS FOR SPECIAL CONDITIONS AS DIRECTED BY THE OFFICER-IN-CHARGE.
- WHEN EXCAVATION IS ADJACENT TO OR UNDER EXISTING STRUCTURES, FACILITIES, OR GUY ANCHORS, BE RESPONSIBLE FOR PROPERLY SHEETING AND BRACING THE EXCAVATION AND STABILIZING THE EXISTING GROUND TO RENDER IT SAFE AND SECURE FROM POSSIBLE SLIDES, CAVE-INS AND SETTLEMENT, AND FOR PROPERLY SUPPORTING EXISTING STRUCTURES AND FACILITIES WITH BEAMS, STRUTS OR UNDERPINNING TO FULLY PROTECT IT FROM DAMAGE.
- IMMEDIATELY CORRECT WORK REJECTED BY THE OFFICER-IN-CHARGE OR WORK FAILING TO CONFORM TO REQUIREMENTS RELEVANT TO CONSTRUCTION DOCUMENTS OR INDUSTRY STANDARDS.
- PERFORM CUTTING, FITTING, PATCHING, EXCAVATING AND BACKFILLING WHICH MAY BE REQUIRED TO MAKE WORK AND ITS PARTS, COME TOGETHER PROPERLY.
- REPAIR/REPLACE DAMAGED OR LOSS TO PROJECT PROPERTY CAUSED BY CONTRACTOR OR ANYONE DIRECTLY EMPLOYED BY CONTRACTOR OR SUBCONTRACTORS.
- PATCH, REPAIR AND RESTORE DAMAGED SURFACES TO MATCH ADJACENT FINISHED SURFACES. FINISHED SURFACES OR REPAIRED AREA SHALL BE FLUSH WITH ADJACENT SURFACES AND SHALL MATCH ADJACENT SURFACE AS CLOSELY AS POSSIBLE AS TO TEXTURE AND FINISH.
- BE RESPONSIBLE FOR COMPLETE WEATHER TIGHT STRUCTURES SUITABLE UNDER LOCAL CONDITIONS.
- UPON COMPLETION, RESTORE SITE TO ORIGINAL OR BETTER CONDITION, CLEAN UP WORK AREA AND DISPOSE DEBRIS OFF-SITE.
- FIRE SAFETY DURING CONSTRUCTION OPERATION OR DEMOLITION SHALL COMPLY WITH ARTICLE 87, 1997 UNIFORM FIRE CODE.
- PROVIDE PORTABLE FIRE EXTINGUISHER(S) (MIN 2A-10BC) IN ACCORDANCE WITH 1997 UFC SECTION 1002, 1997 UFC STANDARD 10-01.0
- PROVIDE, ADJUST AND MAINTAIN TEMPORARY DUST AND WEATHERPROOF ENCLOSURES AT OPENINGS, WHERE WORK IS IN PROGRESS, TO PROTECT EXISTING WORK AND EQUIPMENT. WHEN CONTRACTORS WORKERS ARE NOT PRESENT, SECURE OPENINGS TO PREVENT UNAUTHORIZED OR FORCED ENTRIES INTO THE FACILITY. BE RESPONSIBLE FOR DAMAGES TO THE PREMISES AND EQUIPMENT DUE TO INADEQUATE PROTECTION.

GENERAL NOTES CONTINUED

- PROVIDE, ADJUST AND MAINTAIN TEMPORARY DUST AND WEATHERPROOF ENCLOSURES AT OPENINGS, WHERE WORK IS IN PROGRESS, TO PROTECT EXISTING WORK AND EQUIPMENT. WHEN CONTRACTORS WORKERS ARE NOT PRESENT, SECURE OPENINGS TO PREVENT UNAUTHORIZED OR FORCED ENTRIES INTO THE FACILITY. BE RESPONSIBLE FOR DAMAGES TO THE PREMISES AND EQUIPMENT DUE TO INADEQUATE PROTECTION.

CONSTRUCTION NOTES

- APPLICABLE CONSTRUCTION WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, SEPTEMBER 1986 AND STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION, SEPTEMBER 1984, AS AMENDED, OF THE DEPARTMENT OF PUBLIC WORKS, CITY AND COUNTY OF HONOLULU AND THE COUNTIES OF KAUAI, MAUI, AND HAWAII.
- THE UNDERGROUND PIPES, CABLES OR DUCTLINES KNOWN TO EXIST BY THE ENGINEER FROM HIS SEARCH OF RECORDS ARE INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND DEPTHS OF THE FACILITIES AND EXERCISE PROPER CARE IN EXCAVATING IN THE AREA. WHEREVER CONNECTIONS OF NEW UTILITIES ARE SHOWN ON THE PLANS, THE CONTRACTOR SHALL EXPOSE THE EXISTING LINES AT THE PROPOSED CONNECTIONS TO VERIFY THEIR LOCATIONS AND DEPTHS PRIOR TO EXCAVATION FOR THE NEW LINES.
- DO NOT PERFORM ANY CONSTRUCTION OPERATION SO AS TO CAUSE FALLING ROCKS, SOIL OR DEBRIS IN ANY FORM TO FALL, SLIDE OR FLOW INTO EXISTING CITY DRAINAGE SYSTEMS, OR ADJOINING PROPERTIES, STREETS OR NATURAL WATERCOURSES. SHOULD SUCH VIOLATIONS OCCUR, THE CONTRACTOR MAY BE CITED AND THE CONTRACTOR SHALL IMMEDIATELY MAKE ALL REMEDIAL ACTIONS NECESSARY.
- BE RESPONSIBLE FOR CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE WATER QUALITY AND WATER POLLUTION CONTROL STANDARDS CONTAINED IN HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 54, "WATER QUALITY STANDARDS", AND TITLE 11, CHAPTER 55, "WATER POLLUTION CONTROL", AS WELL AS CHAPTER 14 OF THE REVISED ORDINANCES OF HONOLULU, AS AMENDED. BEST MANAGEMENT PRACTICES SHALL BE EMPLOYED AT ALL TIMES DURING CONSTRUCTION.
- PURSUANT TO CHAPTER 6E, HRS, IN THE EVENT ANY ARTIFACTS OR HUMAN REMAINS ARE UNCOVERED DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL IMMEDIATELY SUSPEND WORK AND NOTIFY THE MAUI POLICE DEPARTMENT AND THE STATE DEPARTMENT OF LAND AND NATURAL RESOURCES--HISTORIC PRESERVATION DIVISION (692-8015).

NOTE REGARDING DISCOVERIES OF ARCHAEOLOGICAL INTEREST

- SHOULD HISTORIC SITES SUCH AS WALLS, PLATFORMS, PAVEMENTS AND MOUNDS, OR REMAINS SUCH AS ARTIFACTS, BURIALS, CONCENTRATION OF CHARCOAL OR SHELLS ARE ENCOUNTERED DURING CONSTRUCTION WORK, WORK SHALL CEASE IN THE IMMEDIATE VICINITY OF THE FIND AND THE FIND SHALL BE PROTECTED FROM FURTHER DAMAGE. IMMEDIATELY CONTACT THE STATE HISTORIC PRESERVATION DIVISION (1-808-692-8015), WHICH WILL ASSESS THE SIGNIFICANCE OF THE FIND AND RECOMMEND AN APPROPRIATE MITIGATION MEASURE, IF NECESSARY.

EXCAVATION AND FILL

- PERFORM EARTHWORK, EXCAVATION, FILLING AND BACKFILLING IN ACCORDANCE WITH SECTION 13 - STRUCTURE EXCAVATION AND BACKFILL, AS PER STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION, SEPTEMBER 1986, AS APPLICABLE TO COUNTY OF MAUI, WITH EXCEPTION OF PARAGRAPH "MEASUREMENT AND PAYMENT".
- COMPLY WITH IBC, CHAPTER 18 - SOILS AND FOUNDATIONS, CHAPTER 33 - SAFEGUARDS DURING CONSTRUCTION, AND APPENDIX "J" - GRADING.
- COMPLY WITH HIOSH CHAPTER 132.2 - EXCAVATIONS, TRENCHING AND SHORING.
- HAVE FOUNDATION EXCAVATIONS APPROVED BY OFFICER-IN-CHARGE BEFORE POURING CONCRETE.

REINFORCING STEEL

- REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS OTHERWISE NOTED.

CONCRETE

- CONCRETE, UNLESS NOTED, SHALL BE REGULAR WEIGHT HARD ROCK TYPE (150 PCF). SILICEOUS AGGREGATES (NATURAL SAND AND ROCK) SHALL CONFORM TO ASTM C33 WITH PROVEN SHRINKAGE CHARACTERISTICS OF LESS THAN 0.05%.
- ULTIMATE COMPRESSIVE STRENGTHS (AT 28 DAYS) SHALL BE:
FOUNDATIONS 4000 PSI
- CEMENT SHALL CONFORM TO ASTM C150, TYPE I OR II.
- MAXIMUM WATER/CEMENT RATIO FOR FOUNDATION CONCRETE SHALL BE 0.55 MAXIMUM WATER/CEMENT RATIO FOR ALL OTHER CONCRETE SHALL BE 0.45.
- PLACEMENT OF CONCRETE SHALL BE IN CONFORMANCE WITH ACI 301.
- CONCRETE SHALL BE MAINTAINED IN A MOIST CONDITION FOR A MINIMUM OF SEVEN (7) DAYS AFTER PLACEMENT.
- MINIMUM CONCRETE COVERAGE OF REINFORCING STEEL SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED.
CONCRETE CAST AGAINST EARTH.....3"
TOP SIDE OF FOUNDATIONS.....1-1/2"
BOTTOM SIDE OF FOUNDATIONS.....3/4"

GROUTING

- NON-SHRINK GROUT SHALL BE A PREMIXED COMPOUND CONSISTING OF NON-METALLIC AGGREGATE, CEMENT, WATER REDUCING AND PLASTICIZING AGENTS, CAPABLE OF DEVELOPING A COMPRESSIVE STRENGTH OF MINIMUM 2,400 PSI IN 48 HOURS AND MINIMUM 7,000 PSI IN 28 DAYS.
- SUBMIT PRODUCT DATA FOR APPROVAL.
- INSTALL GROUT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- CURE GROUT FOR MINIMUM 3 DAYS.

GRADING NOTES

- GRADING WORK SHALL CONFORM WITH THE MAUI COUNTY GRADING ORDINANCE.
- NO CONTRACTOR SHALL PERFORM ANY GRADING OPERATION SO AS TO CAUSE FALLING ROCKS, SOIL OR DEBRIS IN ANY FORM TO FALL, SLIDE OR FLOW ONTO ADJOINING PROPERTIES, STREETS OR NATURAL WATERCOURSES. SHOULD SUCH VIOLATIONS OCCUR, THE CONTRACTOR MAY BE CITED AND THE CONTRACTOR SHALL IMMEDIATELY MAKE ALL REMEDIAL ACTIONS NECESSARY.
- KEEP THE PROJECT AREA AND SURROUNDING AREA FREE FROM DUST NUISANCE. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION CONTROL STANDARDS AND REGULATIONS OF THE STATE DEPARTMENT OF HEALTH CONTAINED IN CHAPTER 11-60, "AIR POLLUTION CONTROL".
- THE UNDERGROUND PIPES, CABLES OR DUCT LINES KNOWN TO EXIST BY THE ENGINEER FROM HIS SEARCH OF RECORDS ARE INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND DEPTHS OF THE FACILITIES AND EXERCISE PROPER CARE IN EXCAVATING IN THE AREA. WHEREVER CONNECTIONS OF NEW UTILITIES ARE SHOWN ON THE PLANS, THE CONTRACTOR SHALL EXPOSE THE EXISTING LINES AT THE PROPOSED CONNECTIONS TO VERIFY THEIR LOCATIONS AND DEPTHS PRIOR TO EXCAVATION FOR THE NEW LINES.
- ADEQUATE PROVISIONS SHALL BE MADE TO PREVENT SURFACE WATERS FROM DAMAGING THE CUT FACE OF AN EXCAVATION OR THE SLOPED SURFACES OF A FILL. FURTHERMORE, ADEQUATE PROVISIONS SHALL BE MADE TO PREVENT SEDIMENT-LADEN RUN-OFF FROM LEAVING THE SITE.
- GRADING MUST BE COORDINATED WITH AND APPROVED IN ADVANCE BY THE OFFICER-IN-CHARGE.
- FILLS ON SLOPES STEEPER THAN 5:1 SHALL BE KEYED.
- NO GRADING WORK SHALL BE DONE ON SATURDAYS, SUNDAYS, AND HOLIDAYS AT ANY TIME WITHOUT PRIOR APPROVAL FROM THE OFFICER-IN-CHARGE. GRADING WORK ON NORMAL WORKING DAYS SHALL BE BETWEEN THE HOURS OF 8:30 AM TO 3:30 PM.
- THE LIMITS OF THE AREA TO BE GRADED SHALL BE FLAGGED BEFORE THE COMMENCEMENT OF THE GRADING WORK.
- GRADING OPERATIONS SHALL BE PERFORMED IN CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE HAWAII ADMINISTRATIVE RULES, CHAPTER 11-55, "WATER POLLUTION CONTROL" AND CHAPTER 11-54, "WATER QUALITY STANDARDS" AND TO THE EROSION AND SEDIMENTATION CONTROL STANDARDS AND GUIDELINES OF THE DEPARTMENT OF PUBLIC WORKS, COUNTY OF MAUI, AND IF APPLICABLE, THE NPDES PERMIT FOR THE PROJECT.

GRADING NOTES (CON'T)

- WHERE APPLICABLE AND FEASIBLE THE MEASURES TO CONTROL EROSION AND OTHER POLLUTANTS SHALL BE IN PLACE BEFORE ANY EARTH MOVING PHASE OF THE GRADING IS INITIATED.
- TEMPORARY EROSION CONTROLS SHALL NOT BE REMOVED BEFORE PERMANENT EROSION CONTROLS ARE IN-PLACE AND ESTABLISHED.
- TEMPORARY EROSION CONTROL PROCEDURES SHALL BE SUBMITTED FOR APPROVAL PRIOR TO APPLICATION FOR GRADING PERMIT.
- IF CONTAMINATED SOIL IS ENCOUNTERED, GRADING WORK SHALL BE DONE IN CONFORMANCE WITH APPLICABLE STATE AND FEDERAL REQUIREMENTS. INFORM THE CONTRACTING OFFICE.
- NON-COMPLIANCE TO ANY OF THE ABOVE REQUIREMENTS SHALL MEAN IMMEDIATE SUSPENSION OF ALL WORK, AND REMEDIAL WORK SHOULD COMMENCE IMMEDIATELY. ALL COSTS INCURRED SHALL BE BILLED TO THE PERMITTEE. FURTHERMORE, VIOLATORS SHALL BE SUBJECT TO ADMINISTRATIVE, CIVIL AND/OR CRIMINAL PENALTIES.
- PROVIDE DUST CONTROL MEASURES WHERE WATER IS USED FOR DUST CONTROL, CONTRACTOR SHALL APPLY WATER ONLY IN QUANTITIES SUFFICIENT FOR THAT PURPOSE, AND PREVENT SIGNIFICANT RUNOFF.
- FOR BENCH MARK LOCATION, SEE SHEET C-101.
- FILL MATERIAL
A. SHALL BE "NON-EXPANSIVE" IN CHARACTER, AND OF AN ACCEPTABLE GRADATION. SAMPLES SHALL BE SUBMITTED OR SHOWN TO THE OFFICER-IN-CHARGE FOR APPROVAL BEFORE DELIVERY TO THE SITE.
- COMPACTION
A. BACKFILL AROUND FOOTINGS AND FOUNDATIONS SHALL BE COMPACTED IN LAYERS BY PNEUMATIC TAMPER INTO A DENSE MASS.
B. FILL AND BACKFILL MATERIALS SHOULD BE PLACED IN LEVEL LIFTS NOT EXCEEDING 8 INCHES IN LOOSE THICKNESS, MOISTURE-CONDITIONED TO AT LEAST 2 PERCENT ABOVE THE OPTIMUM MOISTURE CONTENT, AND COMPACTED TO A MINIMUM OF 90 PERCENT RELATIVE COMPACTION. THE COMPACTION REQUIREMENT FOR THE FINISHED SUBGRADE OF PAVEMENT AREAS SHOULD BE INCREASED TO A MINIMUM OF 95 PERCENT RELATIVE COMPACTION.
- EXCAVATIONS SHALL BE PROTECTED AND GUARDED BY THE CONTRACTOR AGAINST DANGER TO LIFE, LIMB AND PROPERTY.
- SHORING, SHEETING, CRIBBING AND LAGGING, AS REQUIRED TO PRESERVE THE EXCAVATIONS, EARTH BANKS AND ADJACENT STRUCTURES AND PROPERTY FREE FROM DAMAGE RESULTING FROM THE WORK SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR.
- PROVIDE DEWATERING, WHICH INCLUDES COLLECTION AND DISPOSAL OF ALL FORMS OF SURFACE AND SUBSURFACE WATER THAT ARE ENCOUNTERED IN COURSE OF CONSTRUCTION. ACCOMPLISH WATER DISPOSAL IN ACCORDANCE WITH FEDERAL, STATE AND COUNTY LAWS, REGULATION AND ORDINANCES.

PRODUCT IDENTIFICATION

- INDICATION OF PRODUCTION BY MODEL NAME/MANUFACTURER IS INTENDED TO REPRESENT A STANDARD OF QUALITY AND REQUIRED FUNCTIONS AND FEATURES, AND IS NOT INTENDED TO RESTRICT COMPETITION. OTHER PRODUCTIONS MUST MEET OR EXCEED ALL FUNCTIONS AND FEATURES OF INDICATED PRODUCT.
- DRAWINGS ARE BASED ON INFORMATION FURNISHED BY MANUFACTURER. OTHER PRODUCTS WITH EQUAL OR BETTER CHARACTERISTICS ARE ACCEPTABLE. SUBJECT TO APPROVAL BY OFFICER-IN-CHARGE. SHOULD OTHER MANUFACTURER REQUIRE DIFFERENT DRAWINGS AND DETAILS THAN SHOWN, PROVIDE SHOP DRAWINGS AND FIELD ADJUSTMENT AT NO COST TO COUNTY.



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PROJECT ID

MAUI POLICE DEPARTMENT COMMUNICATIONS FACILITY LAHAINALUNA, MAUI

T.M.K.: (2) 4-6-018: 12



This work was prepared by me or under my supervision and construction of this project will be under my observation. Observation of construction will be as defined by Chapter 115 (16-115-2) in the Rules and regulations of the Board of Registrations of Professional Engineers, Architects, Land Surveyors and Landscape Architects, STATE OF HAWAII

K. Goto 4/30/2015
SIGNATURE EXP. DATE

DESIGNED BY: WOC	SUPERVISED BY: KG
DRAWN BY: WOC	CHECKED BY: KG
CAD FILE: C-001.dwg	PROJECT NO.: 8064-07
SCALE: AS NOTED	DATE: OCTOBER 2015

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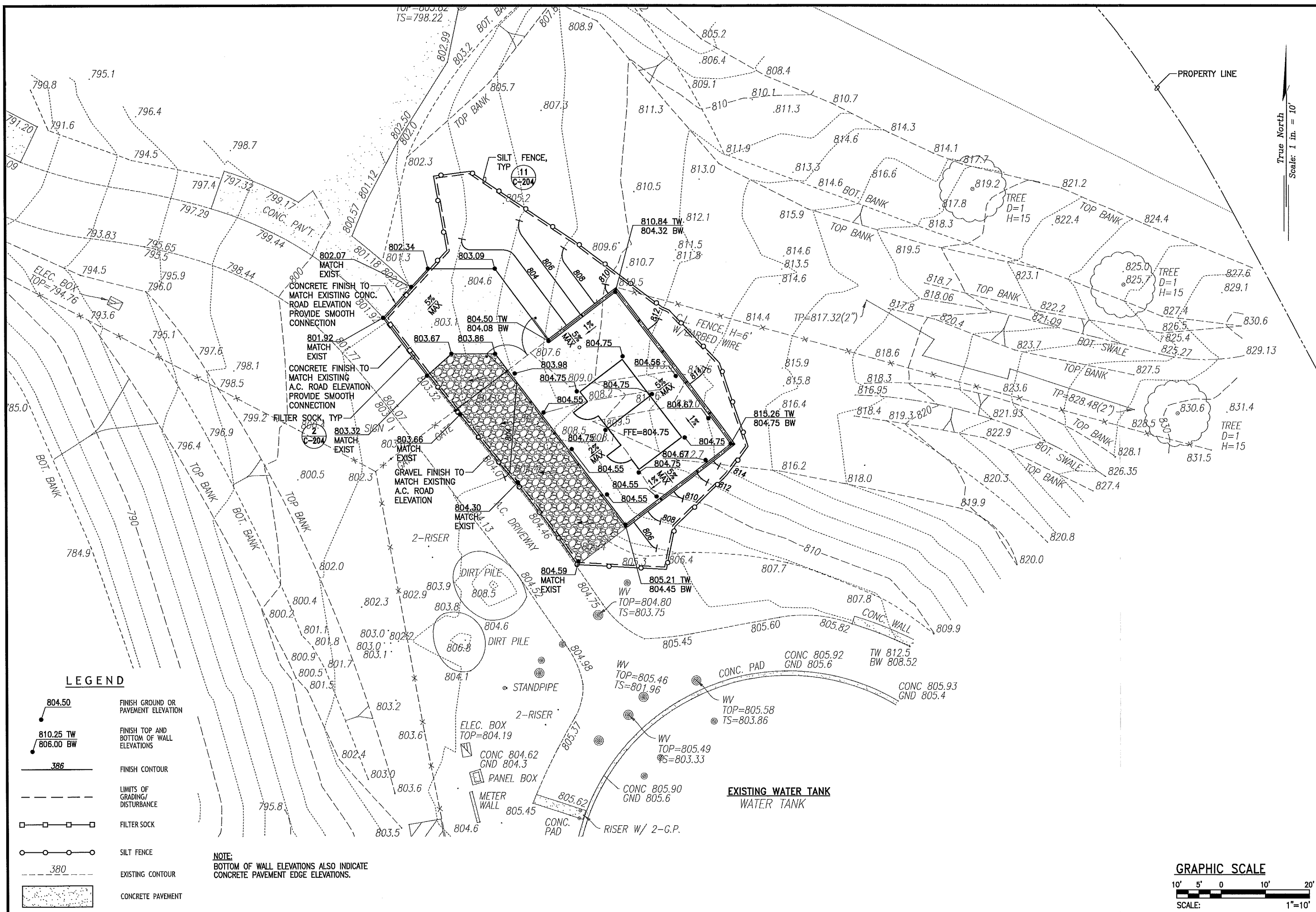
SHEET TITLE

GENERAL NOTES

DRAWING NO.

C-001

of 21 sheets



True North
Scale: 1 in. = 10'



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Signature: *Kevin T. Goto*
4/30/2014 EXP. DATE

DESIGNED BY: WOC	SUPERVISED BY: KG
DRAWN BY: WOC	CHECKED BY: KG
CAD FILE: C-104.dwg	PROJECT NO.: 8064-07
SCALE: AS NOTED	DATE: OCTOBER 2015

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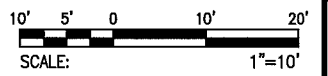
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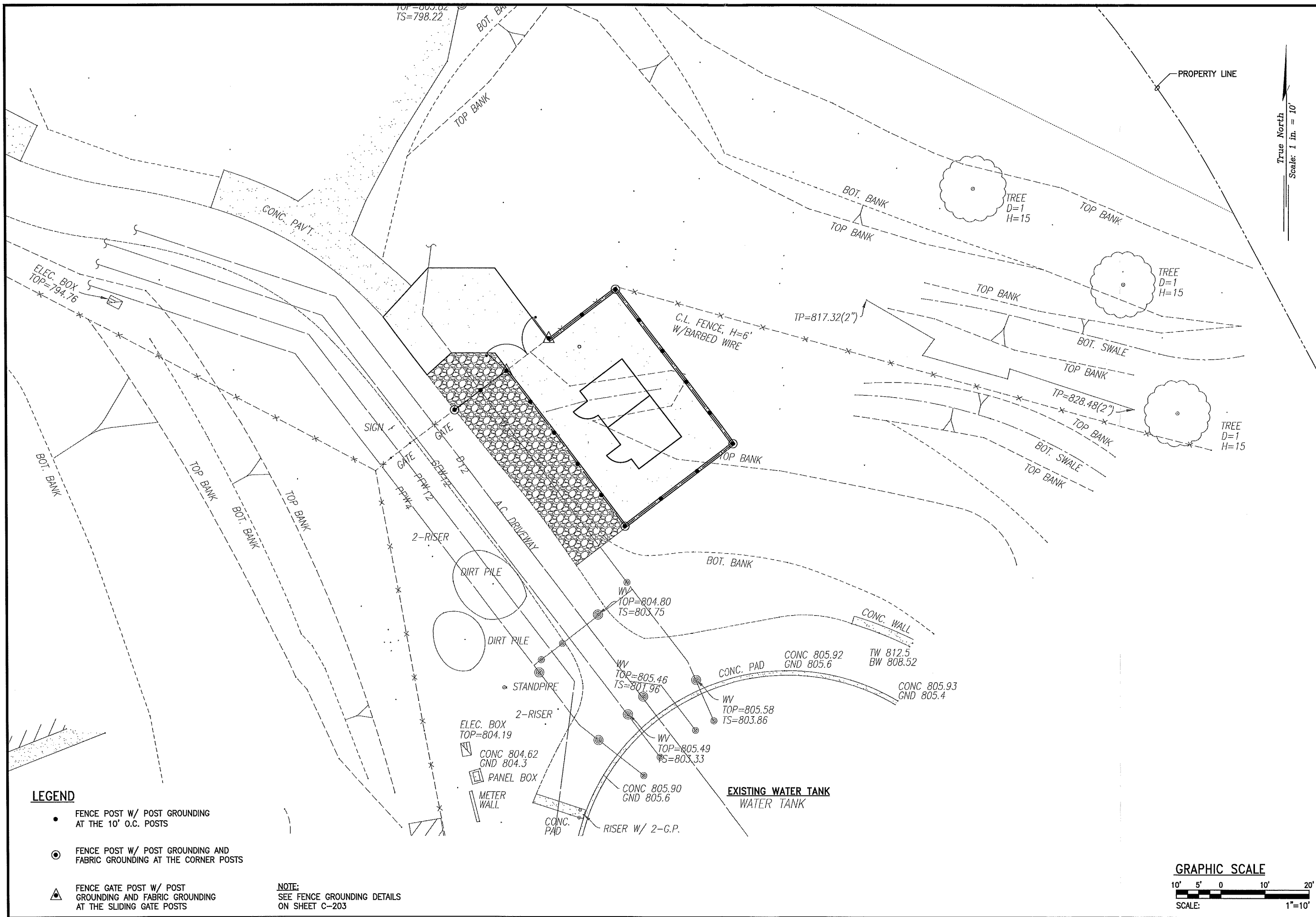
SITE GRADING AND EROSION CONTROL PLAN

DRAWING NO.
C-104

of 21 sheets

GRAPHIC SCALE





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KEVIN T. GOTO
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This work was prepared by me or under my supervision and construction of this project will be under my observation. Observation of construction will be as defined by Chapter 115 (16-115-2) in the Rules and regulations of the Board of Registrations of Professional Engineers, Architects, Land Surveyors and Landscape Architects, STATE OF HAWAII

K. Goto 4/30/2016
SIGNATURE EXP. DATE

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CAD FILE: C-105.dwg	PROJECT NO.: 8064-07
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DATE	DESCRIPTION

FENCE GROUNDING PLAN

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of 21 sheets

APPENDIX B.

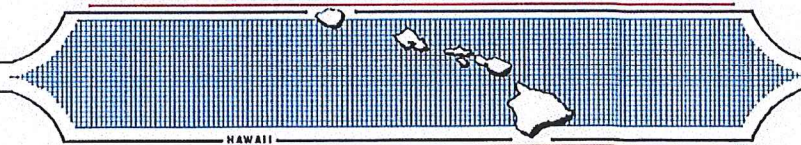
**Archaeological Field Inspection
Report**

**ARCHAEOLOGICAL FIELD INSPECTION RESULTS AND
RECOMMENDATIONS FOR THE PROPOSED
MAUI POLICE DEPARTMENT COMMUNICATIONS FACILITY AT
LAHAINALUNA WATER TREATMENT SITE
PANA'EWA AHUPUA'A, LĀHAINĀ DISTRICT
MAUI ISLAND, HAWAII
[TMK: (2) 4-6-018:012 por.]**

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August 2015
DRAFT

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INTRODUCTION

At the request of Michael Munekiyo (of Munekiyo and Hiraga, Inc.), Scientific Consultant Services, Inc. (SCS) has conducted an Archeological Evaluation, in the form of an Archaeological Field Inspection and a literature review for MPD Communications Facility proposed for the Lahainaluna Water Treatment Site, located in Pana`ewa Ahupua`a, Lāhainā District, Maui Island, Hawai`i [TMK: (2) 4-6-018:012 por.]. The approximately 2,200 square feet (sq. ft.) site use area, within the parcel, is owned by the State of Hawai`1 (Figures 1 and 2).

Based on a review of previous archaeological studies in the vicinity, and a field inspection of the project area, this report presents documentation of past land use within the project area and in the surrounding portion of the *ahupua`a* of Māhinahina and Lahaina Luna.

This report does not meet the requirements of HAR Chapter 13-276 for an archaeological inventory survey; however, through research into the archaeological, historical, and cultural background, and a field inspection of the project area, this investigation is intended to identify cultural resources that may be affected by the project.

The scope of work for this investigation includes:

- Historical and previous archaeological background research including previous archaeological reports conducted in the vicinity of the project area corridor, Land Commission Awards, and historic maps in order to determine if archaeological sites have been recorded on or near this property, and to document the history of land use in and around the project area.
- Field inspection of the project areas to identify surface archaeological sites or features and to investigate and assess the potential for impact to such sites or features.
- Preparation of a letter report which will include the results of the historical research and the fieldwork and make recommendations as to what additional work, if any, might be required.

PROJECT AREA

The project area is located on the leeward side of West Maui, approximately 2.0 miles northwest of the coastline at approximately 800 feet above mean sea level (amsl). The project area is situated in an open and grassy area and above the existing Lahainaluna High School in Lahaina, Pana`ewa Ahupua`a, Lahaina District, Maui Island, Hawaii [TMK:4-6-018:012 por.].

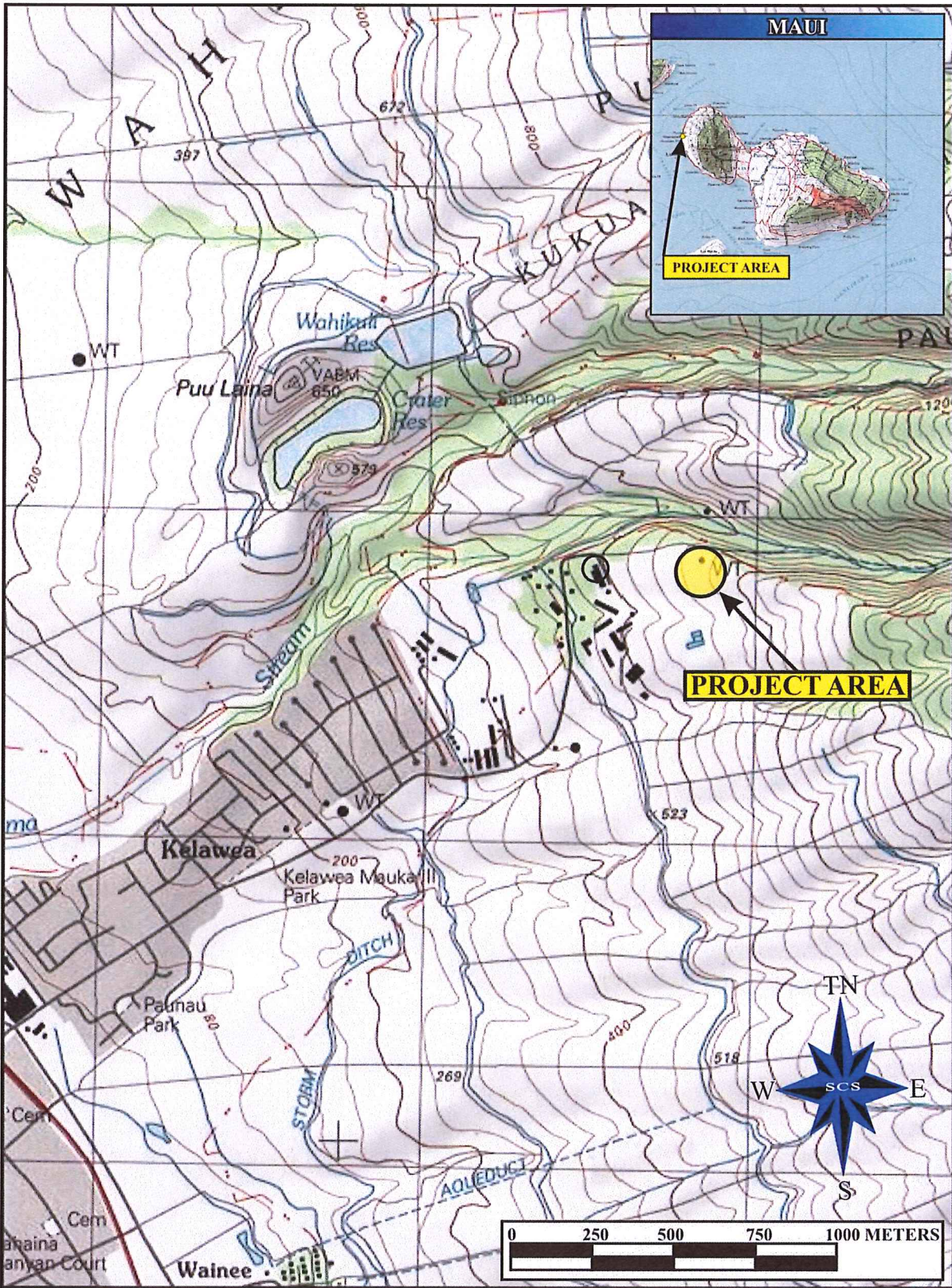


Figure 1: USGS Quadrangle (Lahaina 1992) Showing Project Area Location.

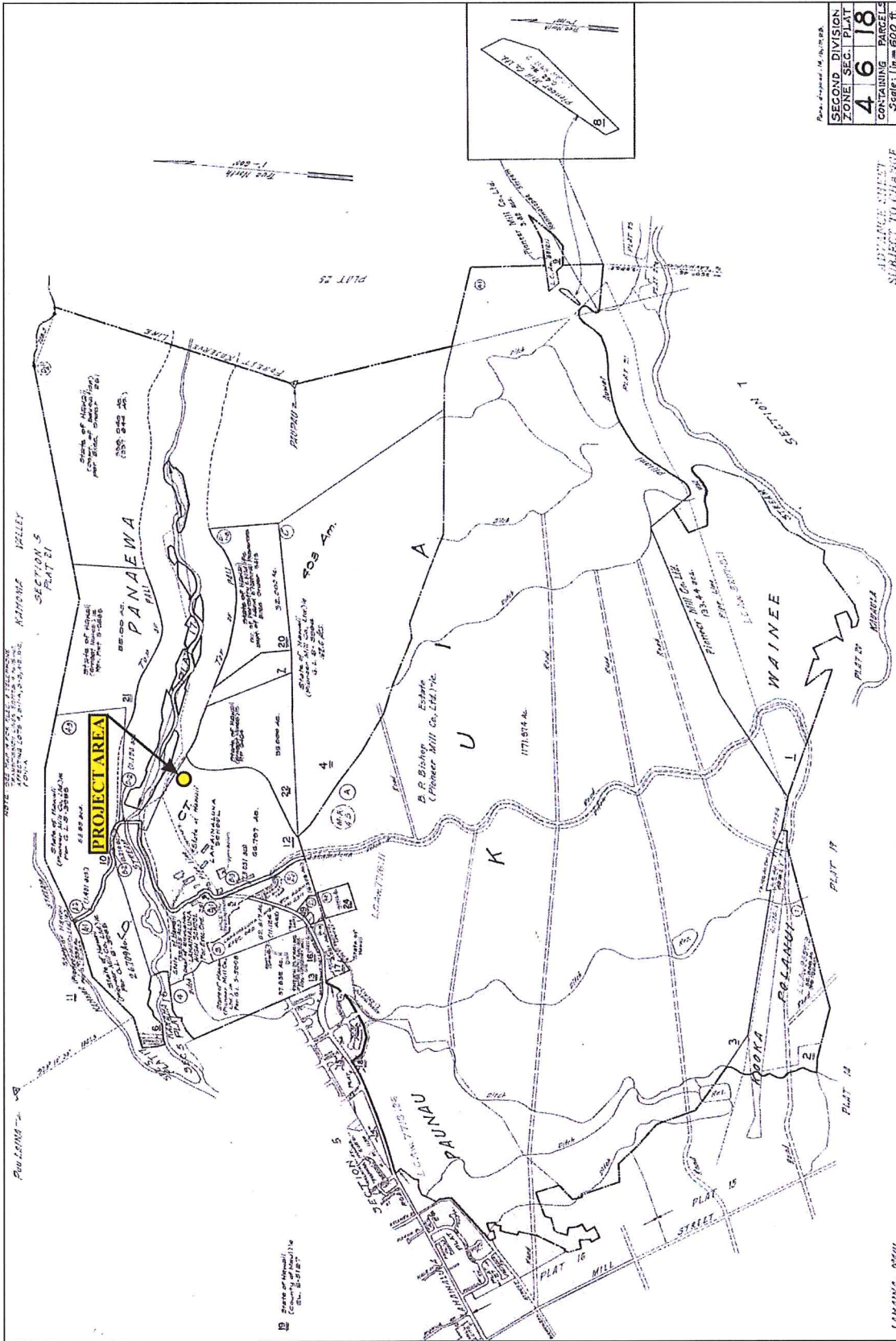


Figure 2: Tax map Key [TMK: (2) 4-6-018] Showing Project Area Location.

CLIMATE

The outstanding features of Hawai'i's climate includes mild and equable annual temperatures, moderate humidity index recordings, the persistence of northeasterly trade winds, and the infrequency of severe storms. The project area is located in the drier, leeward side of West Maui with winter temperatures ranging from the high 50s TO 80S (degrees, Fahrenheit) and summer temperatures range from the high 70s to the high 90s (degrees Fahrenheit).

According to the Giambelluca *et al.* (2015) online database, the project area has a mean annual rainfall of 515.4 mm (20.29 in.). Rainfall during the winter months ranges from 65.5 (2.58 in.) to 93 mm (3.66) and approximately 14.8 mm (0.58 in.) during the summer months.

SOILS

According to Foote *et al.* (1972:79; Sheet Map 94), the project area is comprised of soils of the Lahaina Soil Series, specifically the Lahaina silty clay (LaD). In general, soils of the Lahaina Series are well-drained volcanic soils found in the mountainous regions, from 10 to 1,500 feet above mean sea level (amsl), on four of the major Hawaiian Islands. The LaD soils exhibit 15 to 25 percent slopes, medium runoff, and a moderate erosion hazard. The LaD soils are usually used for the cultivation of sugarcane.

TRADITIONAL AND HISTORIC SETTING

The project area is located *mauka* (northwest) of Lahaina Town, within the Traditional district (*moku*) of Lāhainā. Lahaina Town was recorded as a Lahaina National Historic Landmark District and designated State Site 50-50-03-3001 in 1962 and amended to include a second district in 1967 (Belt Collins 1992:II-1). Lāhainā has a varied history ranging from the traditional fishing and cultivation of early Hawaiians, the residence and surfing grounds of various members of the *ali`i* (chiefly) class, and a period of island unification involving high ranking *ali`i* from other *mokupuni* (islands) in Hawai`i. Later, Maui became the capital of commercial whaling in the Pacific in the early to mid 1800s, and then it was later a base for sugar plantation and, eventually, tourism.

TRADITIONAL SETTING

Kalo (taro) was a food staple throughout the Hawaiian Islands, and its vitality depended largely on available water. Hawaiians developed extensive irrigated taro terraces (*lo`i*) and drainage systems (*auwai*) that provided water for these terraces. Kanaha and Kahoma (Mahoma), streams fed extensive *auwai* systems that flooded *kalo* systems throughout Waine`e

and neighboring *ahupua`a*. Water utilization was regulated through time schedules ranging from a few hours to a few days. Ownership of resources as essential as water was not sustainable in a society that depended heavily on communal accessibility. Such fragility of access and distribution, was, therefore, greatly vulnerable to the tides of conflict and warfare. Samuel Kamakau (1961:74) illustrates the conflict of 1738 by the Hawai`i Island chief Alapa`i, after a full year of war preparation:

What was the war like? It employed the unusual method in warfare of drying up the streams of Kaua`ula, Kanaha, and Mahoma. (which is the stream near Lahainaluna) The wet taro patches and the brooks were dried up so that there was no food for the forces of Ka-uhi or for the country people. Alapa`i`s men kept close watch over the brooks of Olowalu, Ukumehame, Wailuku, and Honokawai. When Pele-io-holani heard that Alapa`i was at Lahaina he gathered all his forces at Honokahua and at Honolulu. At Honokawai an engagement took place between the two armies, and the forces of Alapa`i were slaughtered and fled to Keawawa. There Alapa`i heard that Pele-io-holani had landed at Honokahua and had an army stationed at Keawawa, and he disposed his forces, some on sea and some on land. Although Pele-io-holani had but 640 men against Alapa`i`s 8,440 from the 6 districts of Hawai`i, there were among them some famous warriors, such as Hana, a warrior intimate of Pele-io-holani, Malama-kuhi`ena, Moko-kala`i, Kulepe, `Opu-hali, Kuakea, Lono-nui-akea, Pa-i-kahawai, Kawelo-iki-a-kula, and Ka-mahu-a-koai`e. Pele-io-holani intended to unite his forces with those of Ka-uhi, but Alapa`i`s men held Lahaina from Ukumehame to Mala on the north, and in attempting to aid Ka-uhi, Pele-io-holani became involved in difficulty. The hardest fighting, even compared with that at Napili and at Honokahua in Ka`anapali, took place on the day of the attack at Pu`unene. Pele-io-holani was surrounded on all sides, mauka and makai, by the forces of Alapa`i, led by Ka-lani-`opu`u and Keoua. The two ruling met there again, face to face, to end the war and became friends again, so great had the slaughter been on both sides....

Lahaina is renowned traditionally and historically for its verdant and abundant groves of breadfruit. E.S.C. Handy (in Sterling 1998:17) *Sites of Maui* references Lahaina as second only to Puna, Hawai`i as a favorable location for breadfruit culture. In the section of her book addressing the significance and meaning of the naming of Lahaina, Sterling (1998:16, 17) points to an interpretation from Thrum involving the history of the naming of the place now known as Lahaina. Thrum (1909) proposes that “others say the original name was Lele.” Here, Lele is interpreted as a “flying piece of the kuleana, that which is near the shore.” Thrum (1909) points

out that as Lahaina fronts the shoreline, this application does apply. E.S.C. Handy in Sterling (1998:17) points out that Lahaina is referred to in traditional *mele* (songs) as *ka malu ulu o Lele* (the breadfruit shade tree of Lele). In Mary Kawena Pukui's *Place Names of Hawai'i*, Lahaina is mentioned as being associated with the Kaua`ula wind (Pukui 1974:127). This Kaua`ula wind is referenced as being the cause of destruction of churches and buildings in Lahaina in 1828 and again in 1858 (Pukui 1974). Pukui also points out that the changed spelling and old pronunciation of Lahaina was Lāhainā, meaning cruel sun.

Cultural practices in the area also included the cultivation of `uala (sweet potato). `Uala was cultivated as a basic food source in the Hawaiian Islands. `Uala proved more favorable to farmers in some respects because it flourishes in more difficult climates and needs substantially less water to grow than most high-yielding crops cultivated during traditional times. `Uala is also beneficial as it matures in three to six months and requires much less labor exertion in planting as opposed to nine to eighteen months for taro (Handy and Handy 1972:127).

E.S.C. Handy (1940) in *Hawaiian Planter* discusses the proliferation of fishing settlements and isolated fishermen houses all the way from Kihei to Honokahua and mentions the cultivation of `uala in the red *lepo* (sandy soil) near the shore. Handy points out that this coast is the most favorable on Maui for fishing and that *kula* lands (uplands) were ideal for the cultivation of sweet potato (Handy 1940:159). According to Handy (1940), the *ali`i* Kaka`alaneo lived on Keka`a Hill in Lahaina District. Keka`a became the capital of Maui during his reign as well as an area of intense cultivation (*ibid*: 106). Abraham Fornander discusses how Kaka`alaneo planted *kukui* and `ulu at Lahaina village (Fornander 1916/17 Vol.5:540–41).

According to Thrum (1909) in *Hawaiian Annual* an infamous *ali`i* called Hue, who reigned prior to the 10th Century, is credited with the construction of the first temple on Maui (Thrum 1909:44). Hua, who is referred to as Hua-a-Pohukaina and as Hua-a-Kapuaimanaku names by which his father was also known, was reportedly born in Lahaina and this was the site of the first *heiau* in Maui. Hua, reported by Thrum, was known for constructing two *heiau* in Lahaina and another Hua, two generations later is credited with constructing a third. The ruins of three additional *Heiau*, reported by Thrum, are said to belong to, or just prior to, the reign of Kahekili.

Lahaina was known as a *pu`uhonua* or place of refuge in Maui. The *pu`uhonua* at Lahaina was associated with Ka`ahumanu who inherited her lands from her husband Kamehameha. Samuel Manaiakalani Kamakau (1961) in *Ruling Chiefs of Hawai'i* discusses

how Ka`ahumanu's lands Waipukua in Waihe`e, Kalua`aha in Molokai, and Pu`umau in Lahaina were declared as places where people could be saved from death (Kamakau 1961:312).

The focal point of early Lahaina was Moku`ula, translated as "sacred island." Moku`ula was an island, one acre in size, surrounded by a large pond, Loko O Mokuhinia, which was as large as 17 acres. This pond is important in the history of Lahaina because it was the mythical dwelling place of the *mo`o akua* (lizard deity) Kihawahine. Kihawahine was the daughter of Maui unifier Pi`ilani and Queen La`ieloheloheikawai (Klieger 1995). Kihawahine had a sacred lineage from both her mother and her father's lines. It is believed that upon her death, she was transformed into a *mo`o* (lizard). Kihawahine became known as the sacred being who unified the bloodlines of people throughout the Hawaiian Islands. In *The Legend of Ke-ao-melemele, Ka Nupepa Kuokoa*, Manu Moses (cited in Sterling 1998:39) states:

This was the lizard that had the greatest number of caretakers and many worshippers to deify it. Chiefs and commoners worshipped it all over Maui, Molokai and Lanai in ancient times and to it belonged the pit in the pond of Mokuhinia in Lahaina. Look at the story of Kiha-a-Piilani. Under this lizard were Kalamainu`u and Kilioeikapua---both were bad lizards. It was said in this legend that Kihawahine made a circuit of Maui and also of Hawaii, Oahu, and Kauai. In this journey there were many worshippers from Hawaii to Niihau. It was the only lizard that went around the islands of the group and this is the tale concerning the people of this lizard, Kihawahine.

King Kamehameha I was known to evoke the image of Kihawahine, in his conquest of the Hawaiian Islands. By the time he took up residence in Lahaina, Moku`ula and Kihawahine were a legendary importance to the Hawaiian people (Klieger 1995).

In addition to being the home of the sacred deity Kihawahine, Moku`ula was used for royal residence, religious ritual, and a known burial location. The land on the beach side of Moku`ula is speculated to be the site where Maui ruler Pi`ilani resided in the 16th Century (Klieger 1995). Kahekili, who ruled on Maui before the arrival of Kamehameha, also presided in Lahaina. He lived there with his royal court until his death in 1794.

When King Kamehameha II took up residence in Lahaina, he established his home on Moku`ula. This ensured he was close to Kihawahine, the source of his family's power. In the 1830s and 1840s, King Kamehameha and his court made Moku`ula their private residence.

From 1837 to 1884, Moku`ula held a tomb for the king's mother, sister, children, and other royal family members (Klieger 1995). Moku`ula had become well established as a sacred island that stood as the religious and political center of the Hawaiian kingdom.

In 1845, the capital was moved to Honolulu. King Kamehameha III remained in Lahaina until that time. Despite the move of the capital, Lahaina remained home to various royal family members throughout the 19th Century. King David Kalakaua held title to property that existed just north of Loko O Mokuhinia, and his heirs retained that land well into the 20th Century (Fredericksen and Fredericksen 2001).

Sugar plantations began to dominate the mountain landscapes of Lahaina in the late 1800s, tapping existing water resources. This drastically interrupted the natural water flow to Loko O Mokuhinia, and the ponds were severely altered. What were once ponds became marshlands. In 1913, a public project was initiated to fill in the remaining wetland areas of Loko o Mokuhinia for developmental as well as "hygienic" reasons (Klieger 1995). In 1918, Executive Order 52 established that the newly filled in wetlands would become Malu`ulu o Ie Ie Park. In 1969, a section of the park was turned over to the Buddhist Hongwanji Mission.

LAND TENURE

The land tenure system in pre-Contact (pre-1778) Hawai`i was rooted in a different framework than the subsequent colonial system that is understood today as land ownership. The idea of holding land was not synonymous with owning it, but is described as closer to a trusteeship between the *ali`i nui* (ruling chiefs) of the island and the traditional Hawaiian *akua* (gods) Lono and Kane (Handy and Handy 1972:41). Each island was divided into *moku* (districts) that were solely geographical subdivisions. The number of these *moku* depended upon the size of each island. *Moku* were partitioned into smaller landholding units known as *ahupua`a* that were governed by *ali`i* or designated *konohiki*. The *ahupua`a* varied in size, but ideally encompassed land from the mountain to the sea. This division of land provided the chiefs and *maka`ainana* (people who cultivated the land) with the opportunity to recover both terrestrial and marine resources. All persons, from chiefs to commoners, were entitled to portions of these resources (Chinen 1961:5).

THE MĀHELE

The pre-Contact Period (pre-1778) in the Hawaiian Islands came to an end with the arrival of Captain Cook on Kaua`i in 1778. The years to follow would drastically change the political, agricultural, and social relationships and patterns of the Hawaiian Kingdom.

Destabilization of Hawaiian society was further intensified by the profound reformation of traditional land systems. In 1848, the Māhele curtailed communal access to land. The Māhele system led to the introduction and implementation of privatization that required both chiefs and commoners to retain private land title (Kame`eleihiwa 1992). If properly informed of the procedures, Hawaiians were permitted to claim lands on which they had worked or lived.

In the 1840s, traditional land tenure shifted drastically with the introduction of private land ownership based on western law. While it is a complex issue, many scholars believe that in order to protect Hawaiian sovereignty from foreign powers, Kamehameha III was forced to establish laws changing the traditional Hawaiian economy to that of a market economy (Kuykendall 1938, Vol. I: 145; Daws 1977:111; Kelly 1983:45; Kelly 1998:4; Kame`eleihiwa 1992:169-70, 176). The Māhele of 1848 divided Hawaiian lands between the king, the chiefs, the government, and began the process of private ownership of lands. The subsequently awarded parcels were called Land Commission Awards (LCAs). Once lands were thus made available and private ownership was instituted, the *maka`āinana* (commoners), if they had been made aware of the procedures, were able to claim the plots on which they had been cultivating and living. These claims did not include any previously cultivated but presently fallow land, *`okipu`u* (forest clearing), stream fisheries, or many other resources necessary for traditional survival (Kelly 1983; Kame`eleihiwa 1992:295; Kirch and Sahlins 1992). If occupation could be established through the testimony of two witnesses, the petitioners were awarded the claimed LCA and issued a Royal Patent after which they could take possession of the property (Chinen 1961:16).

For natives that had been cultivating and living on the lands, lengthy and costly procedures enabled them to (possibly) claim some of the plots. The first Land Commission was formed in 1845, during which time all individuals holding land were required to submit their claims or forfeit their lands. Once lands were made available and private ownership was instituted the *maka`āinana* were able to claim the plots on which they had been cultivating and living, if they had been made aware of the foreign procedures (*kuleana* lands, Land Commission Awards, LCA). These claims could not include any previously cultivated or presently fallow land, *`okipū* (on O`ahu), stream fisheries or many other resources necessary for traditional survival (Kelly 1983; Kame`eleihiwa 1992:295; Kirch and Sahlins 1992). If occupation could be established through the testimony of two witnesses, the petitioners were awarded the claimed Land Commission Award (LCA), issued a Royal Patent number (RP), and could then take possession of the property (Chinen 1961:16).

The land that *maka`āinana* received was less than one percent of total lands, all of which needed to be surveyed. A total of 88,000 people submitted 14,195 requests for land and of these only 8,421 were awarded (Kame`eleihiwa 1992:295). In 1850, it became legal for foreigners to purchase land and they received large portions for diminutive prices. At this time, many Native Hawaiians lost access to their lands. The real reason(s) Native Hawaiians did not come forward to claim their lands may never be known. Kamakau (1961:410 in Kame`eleihiwa 1992:296) suggests the *maka`āinana* may have been reluctant to claim lands that had traditionally been under the control of the *ali`i nui* as this would have been perceived to be “very rude and inappropriate behavior.” Additional reasons may have included some may have preferred to remain under the protective power of the *ali`i*. While others may have thought it was too much trouble to “filing the papers, presentation of the witnesses, and surveying the *`aina* (Kame`eleihiwa 1992:296).

HISTORIC LAND USE

After the Māhele land use in the present study area in Lahaina continued generally as habitation. Nearby, the Lahainaluna School was constructed in 1831 and is the oldest school west of the Mississippi River. On the current TMK parcel, the presence of an historic cemetery was re-identified in 1995 (Hibbard, D. SHPD Letter; Log No:15784; Doc No:9510KD19), which contained approximately nine (two were unmarked) graves with surface designations. The seven marked graves included reverends and school teachers who died in the late nineteenth to early twentieth century, as well as one infant (Baby Mo`okini-1913). The letter further stated that there might be additional unmarked burials within the boundary of the cemetery and beyond the limits of the cemetery fencing. Please note that the above-mentioned cemetery and burials are not in close proximity to the current project area.

PREVIOUS ARCHAEOLOGY

A literature search indicated that three archaeological studies (Pantaleo 1991; Hill *et al.* 2008; Perzinski and Dega 2009) have previously been conducted in close proximity to the current project area. The selected previous archaeological studies are intended to reflect the previous uses of the area through time in order to provide an indication of the previous use of the current project area. The studies selected for the Previous Archaeology discussion were based on report availability at the State Historic Preservation Division (SHPD), Kapolei, library. Figure 3 shows the location of archaeological studies in the vicinity of the project area.

William Barrera (1988) conducted an archaeological reconnaissance for alternative route C for the Honoapiʻilani Highway, to the west of the current project area. During the survey Barrera (1988) identified three archaeological sites (State Sites 50-50-03-1203, -1775, and -1776) in the vicinity of the current project area. All three sites consisted of agricultural complexes along Kahoma Stream; Site -1203 also included a rockshelter and 38 petroglyphs.

Paul H. Rosendahl, Inc, (Jensen 1989) conducted an archaeological inventory survey of the 1,200-acre parcel of the Lahaina Master Planned Project Site. During the survey eleven previously un-documented pre-Contact archaeological sites were newly identified. This work consisted of full pedestrian survey of the entire parcel, but, as the majority of the area was actively being cultivated in sugar, the sites were concentrated in areas that have seen minimal impacts during the Historic Period. State Sites 50-50-03-2478 through 2482 were identified along the edge of Hanakea Gulch. These sites consisted collectively of six agricultural terraces and two walled enclosures. The remaining sites are concentrated around two reservoirs in the southeast corner of the parcel. These sites consist of eight agricultural terraces (Site -2483) four walled enclosures (State Sites 2483, 2484, 2485, 2488), one possible burial platform (Site -2486), thirteen grave markers (Site -2486), and a historic agricultural road (Site -2487). In addition to these, Jensen re-identified a previously documented rockshelter and petroglyph (Site -1203).

The Public Archaeological Research Group, Applied Research Group, of the Bishop Museum (Pantaleo 1991) conducted an archaeological surface survey of the proposed reservoir and water treatment facility in Lahaina. During the survey, an historic (c. 1930s) foundation constructed of stone masonry was identified. This feature was interpreted as a foundation associated with ranching activities or with the teachers' cottages associated with the Lahainaluna School. In addition, "recent and old" barbed wire fences were observed, as were modern water-related structures." Pantaleo (1991) notes that "previous historical study" conducted by Hurst (1990) indicated intensive land use of the area began as early as 1831.

Subsequently, International Archaeological Research Institute Inc. (Goodwin and Leineweber 1997) re-surveyed the 1,200-acre parcel of the Lahaina Master Planned Project,

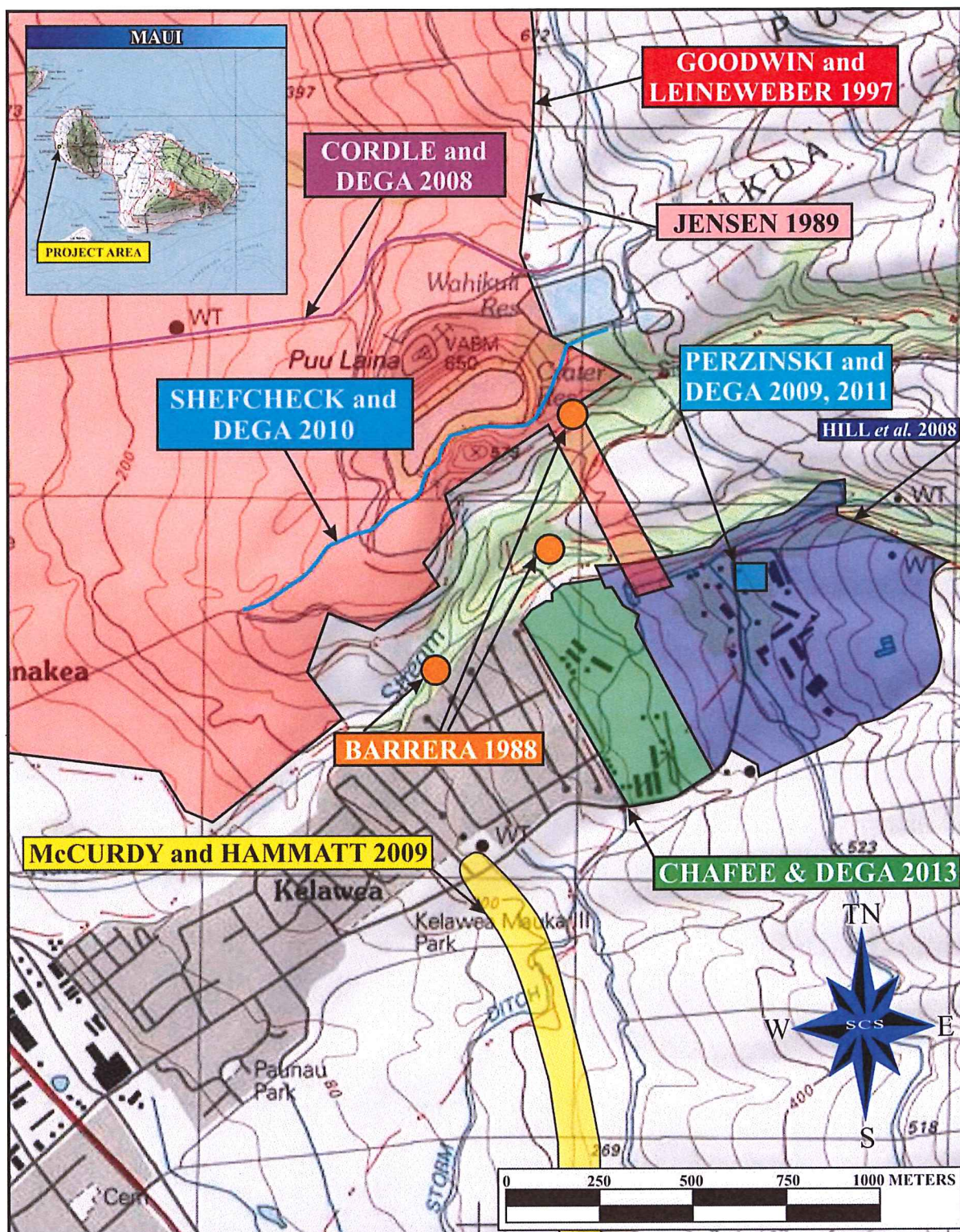


Figure 3: USGS Quadrangle (Lahaina 1992) Showing Previous Archaeological Projects in the Vicinity of the Project Area.

previously surveyed by Jensen (1989). The findings from this work consisted entirely of Historic agricultural structures and features relating to sugar cane cultivation. Six buildings were collectively designated under State Site 50-50-03-4420. Goodwin and Leineweber (1997) reported six Historic Plantation-Era structures relating to agricultural operations. These included a water tank, a booster pump, the Wahikuli Reservoir, two electric power buildings, and a stone cistern. In addition, several access roads were recorded, including Cane Haul Road, Wahikuli Reservoir Road, Wahikuli and Honokohau Ditch Roads, and Crater Reservoir Road. Honokohau and Wahikuli Ditches were documented in this report, as well as several associated bridges, flumes, intakes and sluice gates. Also included in this document were an airstrip near Crater Reservoir and the 31-gauge railroad track skirting the *makai* end of the project area. Finally, six historic midden dumps were documented at various locations around the parcel.

In 2008, SCS (Shefcheck and Dega 2010) conducted an archaeological inventory survey of two easement corridors. Three new archaeological features were identified as additional features of State Site 50-50-03-4420, including a cement bridge and associated stone-and-cement mortared ditch (Feature 7), an agricultural clearing mound (Feature 8), and a stone-and-cement mortared culvert (Feature 9). Previously documented State Sites 50-50-03-2485 (walled enclosure) and -2488 (walled enclosure) were also identified within the survey area.

In 2008, SCS (Cordle and Dega 2008) conducted an archaeological inventory survey of four easement corridors [TMK: (2) 4-5-021: por. 003, por. 022, por. 023; and (2) 4-5-22: por. 002]. Five new archaeological features were identified as additional features of State Site 50-50-03-4420, including a concrete-lined *`auwai* ditch (Feature 11), two reservoirs (Features 10 and 12), and two earthen furrows or ditches occurring along two of the existing dirt roads (Features 13 and 14).

Cultural Surveys Hawai'i, Inc, (Hill *et al.* 2008) conducted an archaeological inventory survey of the 77,580 sq. ft. Hawai'i State Department of Education cesspool project area [TMK: (2) 4-6-018;005, 007, 012]. During the survey 6 archaeological sites associated with the Historic Period, were newly identified: two irrigation ditches, State Sites 50-50-03-6494 and -6498; three retaining walls, State Sites 50-50-03-6495, -6497, -6499; and one terrace wall, State Site 50-50-30-6496. The previously identified State Site 50-50-03-1596, Hale Pa'i'o, Lahainalua Protestant Missionary-Era building was relocated during the survey.

Scientific Consultant Services, Inc. (Perzinski and Dega 2009, 2011) conducted an archaeological field inspection and archaeological monitoring during development of the

Lahainaluna School Cafeteria in 2009 and 2010. During the field inspection (Perzinski and Dega 2009) two historic structures, a rock staircase and a historic-period basalt terrace were identified. Subsequently, archaeological monitoring (Perzinski and Dega 2010) was conducted during footing work, mass excavation for a terrace, sewer, drainage, and building pad construction. A massive pile of backfill from the excavations was stored on the parcel and was to be used later for backfill behind the terrace wall. All exposed trench sidewalls and exposed stratigraphic profiles were examined for the presence of cultural materials or historic sites. However, the results were negative.

Cultural Surveys Hawai'i, Inc, (McCurdy and Hammatt *et al.* 2009) conducted archaeological inventory survey-level documentation of inadvertent finds encountered during construction of the Honoapi'ilani Highway Realignment (Lāhainā Bypass), Phase 1B [TMK: (2) 4-6-014:001, 002; (2) 4-6-018: 002, 003; (2) 4-7-001:00 and 4-003:001]. During the survey two previously identified archaeological sites (State Site 50-50-03-5950 and State Site 50-50-03-4787) were relocated. Ten newly identified features were added to Site -5950 and five newly identified features were added to Site -4787.

FIELD INSPECTION

A field inspection of the area of potential effect/project area was conducted on April 30, 2015, by SCS Senior Archaeologist, Michael Dega, Ph.D., and multiple County of Maui personnel. The project area (see Figures 1 and 2) is located above Lahainaluna High School in an area with existing infrastructure. This includes an existing water tank (1 million gallon tank) (Figure 4), water treatment facility, etc.

Former agricultural lands bound the project area to the east; Lahainaluna High School bounds the project area to the school to south (Figure 5); undeveloped (Conservation?) lands bound the project area to the north; and the Kanaha Stream Valley bounds the project area to the west. The project site sits high atop the Kahana Stream Valley, with only very steep cliffs overlooking the stream bed (Figure 6). Exposed soil is red silty clay (typically utilized for pineapple cultivation) and rocky (Figure 7). The erosion level is slight. Abundant evidence of former sugar cane cultivation remnants was observed on the ground surface, such as the black plastic covering, PVC pipe, etc. No formal architecture (*i.e.*, ditches, etc) were observed. Large milled logs are piled near the water tank (Figure 8). No evidence for any trails going in any direction from the project area was observed. No evidence of historic properties was observed on the ground surface which was previously modified or built. Nor was there evidence of historic



Figure 4: Photographic Overview of the Existing Water Tank.



Figure 5: Photographic Overview of Lahainaluna High School and Water Treatment Facilities. View to South.

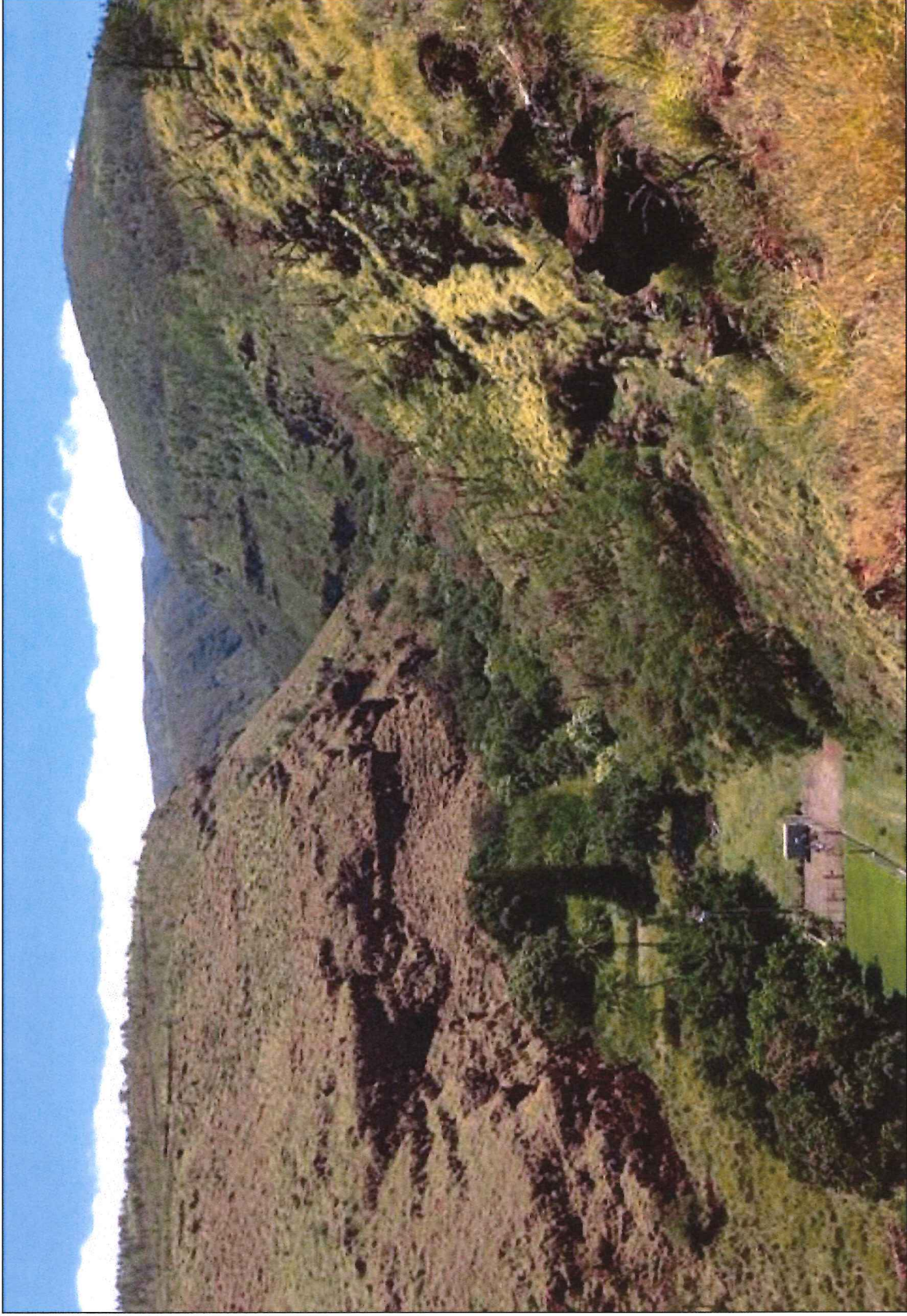


Figure 6: Photographic Overview of the Kahana Stream Valley. View to West.

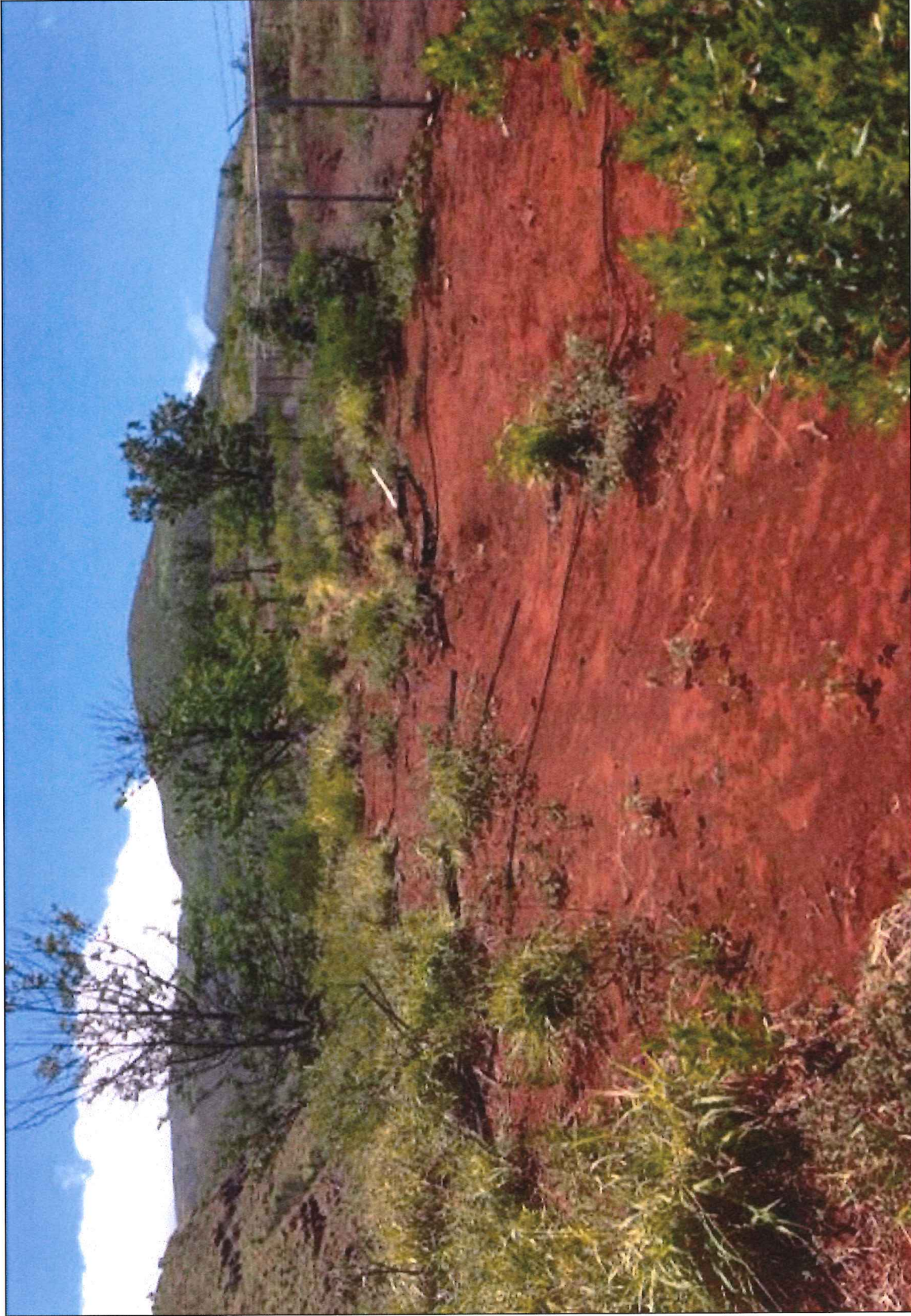


Figure 7: Photographic Overview of Exposed Shallow Soil Comprised of Red Silty Clay.



Figure 8: Photograph of Large Milled Logs Piled Near the Water Tank.

properties in subsurface context, as the project area is located high on ridge, exhibited shallow soils, and evidence of previous, and current, ground alterations.

RECOMMENDATIONS

No historic properties were identified during the archaeological field inspection. The findings indicated that the project area had been subjected to extensive prior ground disturbance. Based on the absence of historic properties and the extensive previous ground disturbance to the project area, no further archaeological work is recommended.

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APPENDIX C.

**2015 Seabird Radar Studies
Field Summary**



TO: John Sakaguchi, Wilson Okamoto
FROM: Peter M. Sanzenbacher and Brian Cooper, ABR, Inc.
RE: Field summary for the summer 2015 seabird radar surveys at the proposed Maui Police Department
Communication Towers
DATE: 24 July 2015

Hello John:

We successfully completed the field data collection for seabird radar studies at the two proposed County of Maui, Police Department communication tower sites at the Mahinahina and Lahainaluna Water Treatment Facilities. As anticipated, we conducted surveys for a total of 10 days at each proposed site during the period 2–21 June, 2015. At the Mahinahina site we conducted surveys from a single radar station located ~400 m to the west of the proposed communication tower site, and at the Lahainaluna site we conducted surveys from a single radar station located ~950 m to the north of the proposed communication tower site. The radar stations provided good radar coverage of the proposed tower sites and surrounding area.

Each survey day consisted of concurrent surveillance and vertical radar sampling and audiovisual (AV) sampling during the evening (~1900–2200 h) and morning (~0345–0545 h) peaks of Hawaiian Petrel and Newell's Shearwater activity. We used standard survey methods and techniques that we have developed for the study of petrels and shearwaters throughout the Hawaiian Islands. There was minimal loss of sampling time (<2% total survey time) due to logistics and passing rain showers.

We did not have any audio-visual observations of Hawaiian Petrels or Newell's Shearwaters during sampling. Species of interest observed during the audio-visual sampling included Black-crowned Night Heron, Black-necked Stilt, Hawaiian Goose, Short-eared Owl, and White-tailed Tropicbird (Table 1). Note that a flock of 10–22 Hawaiian Geese were observed foraging and loafing on the lower slopes of the Lahainaluna site on most nights.

For those radar targets meeting the criteria for petrel/shearwater targets, we used flight directions relative to the location of potential breeding sites in the west Maui Mountains, to categorize targets as heading in a landward direction (i.e., mauka, from the ocean toward potential breeding habitat in the west Maui mountains), a seaward direction (i.e., makai, away from potential breeding habitat), or "other" directions. Targets heading in "other" directions were assumed not to be Hawaiian Petrels or Newell's Shearwaters, because these targets were not heading towards or away from potential breeding habitat. At the Mahinahina site we observed 0–2 petrel/shearwater targets per night with 1 petrel/shearwater radar target heading in a landward direction and 12 petrel/shearwater targets with a seaward heading (Table 1). At the Lahainaluna site we observed 0-3 targets per night with 3 petrel/shearwater radar targets heading in a landward direction and 10 petrel/shearwater targets with a seaward heading (Table 1). We also collected vertical radar data on flight altitudes of petrel/shearwater radar targets, and we are still in the process of analyzing the flight altitude data.

We look forward to finalizing the data analysis and preparing a full report with results for the surveys. In the meantime, please contact us if you have any questions or need further information.

Best Regards,
Peter Sanzenbacher
Senior Scientist

Brian Cooper
Vice President/Senior Scientist



Table 1. Sampling dates and preliminary summary of the number of seabird radar targets and audio-visual observations of avian and bat species of interest in the vicinity of the Mahinahina and Lahainaluna Water Treatment Facilities on the island of Maui, during summer 2015. **Results should be considered draft** and subject to change pending full analysis.

Site/Date	Number of petrel/shearwater radar targets		“Other” radar targets ³	Audio-visual observations ⁴
	Landward ¹	Seaward ²		
Mahinahina				
2 June	1	1	0	≥1 BNST, 5 NENE, 2 SEOW
3 June	0	2	0	
4 June	0	1	1	
5 June	0	2	0	≥1 BNST
6 June	0	1	0	
7 June	0	2	0	1 SEOW
8 June	0	1	0	
9 June	0	1	1	
10 June	0	0	0	1 BCNH, 10 NENE
11 June	0	1	1	1 SEOW
<i>Radar totals</i>	<i>1</i>	<i>12</i>	<i>3</i>	
Lahainaluna				
12 June	0	3	1	
13 June	0	1	1	1 SEOW
14 June	0	1	0	1 WTTB
15 June	1	1	1	
16 June	0	2	1	
17 June	1	1	0	
18 June	1	0	1	1 WTTB
19 June	0	0	0	
20 June	0	0	1	
21 June	0	1	1	
<i>Radar totals:</i>	<i>3</i>	<i>10</i>	<i>7</i>	

¹ Landward directions = 55–175°.

² Seaward directions = 225–345°.

³ Other directions = 176–224° and 346–54°. Presumably not petrel/shearwater targets based on flight directions.

⁴ Audio-visual observations listed include species of conservation concern and also species that in some cases can resemble seabird targets on radar. BCNH = Black-crowned Night Heron; BNST = Black-necked Stilt; NENE = Hawaiian Goose; SEOW = Short-eared Owl; WTTB = White-tailed Tropicbird.