

RICHARD NAIWIEHA WURDEMAN 6015-0
Attorney at Law, A Law Corporation
Pauahi Tower, Suite 720
1003 Bishop Street
Honolulu, Hawaii 96813
Telephone: (808) 536-0633
Facsimile: (808) 536-0634
email: RNWurdeman@RNWLaw.com

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DEPT. OF LAND &
NATURAL RESOURCES
STATE OF HAWAII

Attorney for Petitioners

MAUNA KEA ANAINA HOU and KEALOHA PISCIOTTA;
CLARENCE KUKAUAKAHI CHING; FLORES-CASE
OHANA; DEBORAH J. WARD; PAUL K. NEVES; and
KAHEA: THE ENVIRONMENTAL ALLIANCE,
a domestic non-profit Corporation

BOARD OF LAND AND NATURAL RESOURCES

STATE OF HAWAII

IN THE MATTER OF) Case No. BLNR-CC-16-002
)
) PETITIONERS MAUNA KEA
A Contested Case Hearing Re) ANAINA HOU, ET AL.'S
Conservation District Use Permit) SITE VISIT
(CDUP) HA-3568 for the Thirty Meter) RECOMMENDATIONS; and
Telescope at the Mauna Kea Science) CERTIFICATE OF SERVICE
Reserve, Kahohe Mauka, Hamakua)
District, Island of Hawaii,)
TMK (3) 4-4-015:009)
_____)

PETITIONERS MAUNA KEA ANAINA HOU, ET AL.'S
SITE VISIT RECOMMENDATIONS

COME NOW Petitioners MAUNA KEA ANAINA HOU and KEALOHA PISCIOTTA; CLARENCE KUKAUAKAHI CHING; FLORES-CASE OHANA; DEBORAH J. WARD; PAUL K. NEVES; and KAHEA: THE HAWAIIAN ENVIRONMENTAL ALLIANCE, a domestic non-profit corporation (collectively referred to also as "Mauna Kea Anaina Hou Petitioners" or "Mauna Kea Anaina Hou, Et Al."), by and through their undersigned counsel, and hereby submit their recommendations for the proposed Mauna Kea site visit that was set by the Hearing Officer for September 26, 2016.

The following parties intend to attend the site visit along with counsel: (1) Kealoha Pisciotta, (2) Keomailani Van Gogh of Mauna Kea Anaina Hou, (3) Clarence Kukauakahi Ching, (4) E. Kalani Flores, (5) Pualani Case, (6) Hawane Rios of Flores-Case Ohana, (7) Deborah Ward, (8) Candace Fujikane of KAHEA, and (9) Nelson Ho (Non-Party Driver).

The Mauna Kea Anaina Hou Petitioners recommend that UH/TMT mark with colored tape the following sites affected by the proposed construction.

- Hale Pohaku Substation
- Electrical boxes through the Natural Area Reserve
- Batch plant
- Roadway
- Thirty Meter Telescope (TMT) site

The TMT site should be taped out to separately demonstrate demarcate the footprints of 1) the anticipated construction area, 2) dome, and 3) any support structures. To help demonstrate the expected height of the TMT, Petitioners suggest UH/TMT tie helium balloons to the end of 187-foot long strings that are anchored to the ground at the middle of the anticipated dome location as well as helium balloons/poles at the four corners of the proposed observatory building site.

In addition, the Petitioners also request visits to the following sites (see attachment w/ map) Historic Properties: SIHP No. 16164, 16165, 16166, 16167, 16169, 16170, 16171, 16172, 21200, 21449; Cultural Resources/Find Spots: 2005.06, 2005.07, 2005.08.

As for extended visit and/or subsequent site visits, Mauna Kea Anaina Hou Petitioners would like to follow the traditional route to the summit observed by many cultural practitioners. This route begins at Puhi Bay in Keaukaha and stops for observances at the Naha Stone in Hilo, the ahu for Kūpuna at the crossroad of Saddle Road and the road to the summit, Ms. Pisciotta's family shrine at 11,000 feet, and then proceeds to the summit region. Each stop represents a sacred lewa (realm), which are concentric circles that encompass the entire mountain. The Hearing Officer and all interested parties are welcome to join us for this ceremonial journey to see the mountain from this perspective.

The view planes of Mauna Kea are enjoyed mauka to makai, as well as Makai to mauka. Thus it will be important to assess the visual impacts of the proposal from the mountain looking out, as well as from the lower elevations looking towards the mountain.

To understand the potential visual impacts of the proposed TMT from the mountain looking outwards, Petitioners recommend visiting Puu Poliahu, as well as the puu where the Canada-France-Hawaii Telescope, the Subaru Telescope, and the Keck Telescopes are now located. These locations will provide important perspective on the size of the TMT, in addition to important views of the northern plateau of the mountain.

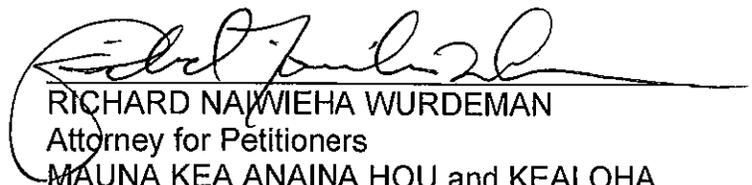
Equally important are the view planes of the mountain from the lower elevations on the north side of the island. The Petitioners recommend visiting two sites on the north side the Heiau at Puu Kohala near Kawaiahae and a stop along Puukapu Street, which is between Waimea and Honokaa.

From the Wailoa River State Park, near the Hilo airport, the famous story of Poliahu and Kukahauul is visible in Mauna Kea's profile. It would be possible to see this important view plane while in route to or from the airport.

To accommodate the length of this site visit, Petitioners offer that perhaps two days be set aside for the site visit, one day on the mountain and one on the north side of the island.

Also, Pu'u Poliahu and Pu'u Lilinoe, Lake Waiau and Pu'u Kanakaleonui.

DATED: Honolulu, Hawaii, August 17, 2016.



RICHARD NAWIEHA WURDEMAN
Attorney for Petitioners
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PISCIOTTA; CLARENCE KUKAUAKAHI
CHING; FLORES-CASE OHANA; DEBORAH
J. WARD; PAUL K. NEVES; and KAHEA: THE
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4 Cultural Resources

4.1 DESCRIPTION OF HISTORIC PROPERTIES AND TRADITIONAL & CUSTOMARY PRACTICES

This section describes the historic properties found in the areas of the Proposed Action. Section 3.2 of the *Final EIS* for the TMT project provided information on traditional and customary practices carried out at or associated with Mauna Kea. Section 3.3 of the *Final EIS* provided data on currently known historic and cultural resources on Mauna Kea, including the areas of the Proposed Action. Additional information has been drawn from the recently completed report documenting the archaeological inventory survey of the Mauna Kea Science Reserve (McCoy & Nees 2010).¹⁸

4.1.1 DESCRIPTION OF HISTORIC PROPERTIES IN THE VICINITY OF THE TMT OBSERVATORY SITE AND THE ACCESS WAY

The TMT Observatory site, the Access Way, and the Batch Plant Staging Area are all within the Mauna Kea Summit Region Historic District -- Statewide Inventory of Historic Places (SIHP No. 50-10-23-26869) -- as defined in the SHPD's *Mauna Kea Historic Preservation Plan Management Components* (SHPD 2000).¹⁹ The District includes a concentration of significant historic properties that are linked through their setting, historic use, traditional associations, and ongoing cultural practices. The properties include shrines, adze quarry complexes and workshops, burials, stone markers/memorials, temporary shelters, historic campsites, traditional cultural properties (TCPs), a historic trail, and sites of unknown function. All of these types of historic sites are contributing properties to the Historic District (McCoy & Nees 2010). The Historic District has been determined by the State Historic Preservation Division (SHPD) to be significant under all five criteria (A, B, C, D and E), as defined in Hawaii Administrative Rules §13-275-6.

Figure 4.1 shows the historic properties that have been identified in the vicinity of the TMT project areas. There are several archaeological sites in the vicinity of Area E, where the TMT Observatory would be constructed, and where the Access Way for the Observatory would be located. Three historic shrines, first identified during a 1982 survey, are in the vicinity and are described as follows:

- SIHP No. -16172 is located about 225 feet north of the proposed TMT Observatory site and consists of a single upright with several support stones. A Bishop Museum entomologist also reported seeing a crude C-shaped structure and other walls in this general area in 1982. None of these walls were observed during the 1995 or 2005 field inspections of the site.
- SIHP No. -16167 is located approximately 500 feet east of the Access Road and about 1,300 feet southeast of the proposed TMT Observatory site and consists of one, possibly two, uprights placed in a bedrock crack. In 1995, the site was revisited and both stones were found in a vertical position.

¹⁸ McCoy, Patrick, Nees, Richard, et.al., (August 2010) Final Report, *Archaeological Inventory Survey of the Mauna Kea Science Reserve*.

¹⁹ Historic Preservation Division, Department of Land and Natural Resources, State of Hawai'i (2000) *Mauna Kea Historic Preservation Plan Management Components*, (Appendix F).

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CERTIFICATE OF SERVICE

The undersigned hereby certifies that on the date set forth below, a true and correct copy of the foregoing document was served on the following parties by the means indicated:

Michael Cain
Office of Conservation and Coastal
Lands
1151 Punchbowl, Room 131
Honolulu, HI 96813
michael.cain@hawaii.gov
Custodian of the Records
(original + digital copy)

Ian Sandison, Esq.
Timothy Lui-Kwan, Esq.
isandison@carlsmith.com
tluikwan@carlsmith.com
Counsel for the Applicant University
Of Hawai'i at Hilo

J. Douglas Ing, Esq.
Ross T. Shinyama, Esq.
douging@wik.com
rshinyama@wik.com
Counsel for TMT International
Observatory, LLC

Lincoln S.T. Ashida, Esq.
Newton J. Chu, Esq.
isa@torkildson.com
njc@torkildson.com
Counsel for Perpetuating Unique
Educational
Opportunities (P.U.E.O)

Harry Fergerstrom
P.O. Box 951
Kurtistown, HI 96760
hankhawaiian@yahoo.com

Richard L. DeLeon
kekaukike@msn.com

Mehana Kihoi
uhiwai@live.com

C.M. Kaho'okahi Kanuha
kahookahi@gmail.com

Joseph Kualii Lindsey Camara
kualiic@hotmail.com

J. Leina'ala Sleightholm
leina.ala.s808@gmail.com

Stephanie-Malia Tabbada
s.tabbada@hawaiiantel.net

William Freitas
pohaku7@yahoo.com

Tiffnie Kakalia
tiffniekakalia@gmail.com

Tiffnie Kakalia
Glen Kila
makakila@gmail.com

Brannon Kamahana Kealoha
brannonk@hawaii.edu

Maelani Lee
maelanilee@yahoo.com

Lanny Alan Sinkin
lanny.sinkin@gmail.com
Representative for The Temple of Lono

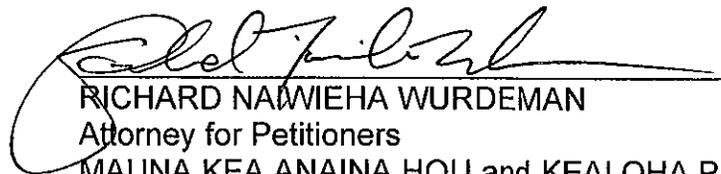
Kalikolehua Kanaele
akulele@yahoo.com

Cindy Freitas
hanahanai@hawaii.rr.com

Dwight J. Vincente
2608 Ainaloa Drive
Hilo, HI 96720-3538

Julie.H.China, Esq.
Julie.H.China@hawaii.gov
William J. Wynhoff, Esq
Bill.J.Wynhoff@hawaii.gov
Department of the Attorney General

DATED: Honolulu, Hawaii, August 17, 2016.



RICHARD NAWIEHA WURDEMAN
Attorney for Petitioners
MAUNA KEA ANAINA HOU and KEALOHA PISCIOTTA;
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OHANA; DEBORAH J. WARD; PAUL K NEVES; and
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