William P. Kenoi



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PLANNING DEPARTMENT

Duane Kanuha

Director

Bobby Command

Deputy Director

Fast Hawai'i Office 101 Pauahi Street, Suite 3 Hilo, Hawai'i 96720 Phone (808) 961-8288 Fax (808) 961-8742

March 4, 2015

Roy A. Vitousek III Cades Schutte, LLP 75-170 Hualālai Road, Suite B-303 Kailua-Kona, HI 96740

Dear Mr. Vitousek:

SUBJECT: VARIANCE DECISION - VAR-14-000265

Agent: ROY A. VITOUSEK III, CADES SCHUTTE LLP

Applicants: Lehu'ula Mauka, LLC
Owners: Lehu'ula Mauka, LLC

Request: Variance from Chapter 23, Subdivisions, Article 6, Division 2,

Improvements Required, Section 23-84, Water Supply; and Article 3, Division 4, Street Design, Section 23-41, Minimum Right-of way; And Article 6, Division 2, Improvements Required, Sections 23-87, -88, -89, -91, -93 & -95, Standard for Non-Dedicable Street, Non-Dedicable Street, Sidewalks, Curbs and

Gutters, Street Lights and Right-of way Improvement

Tax Map Key: 7-9-002:015 (SUB-14-001367)

Upon review of your variance application, the Planning Director certifies the **approval** of Variance VAR-14-000265 subject to variance conditions. The variance grants relief for SUB-14-001367 from constructing minimum County dedicable water supply system and roadway improvements for the 4 lots as required by Hawai'i County Code (HCC), Chapter 23 (Subdivisions).

The variance is from the proposed subdivision's minimum requirements pursuant to HCC, Chapter 23 (Subdivisions), Article 6, Division 2, Improvements Required, Section 23-84, Water Supply, (1)(2) and Article 3, Division 4, Street Design, Section 23-41, Minimum Right-of way; And Article 6, Division 2, Improvements Required, Sections 23-87, -88, -89, -91, -93 & -95, Standard for Non-dedicable Street, Non-dedicable Street, Sidewalks, Curbs and Gutters, Street Lights and Right-of way Improvement.

#### BACKGROUND

1. Location. The referenced property, being Lot A, also being a portion of Grant 1,170, containing

Roy A. Vitousek III Cades Schutte, LLP Page 2 March 4, 2015

approximately 197.091 acres, is situated in Honua'ino 2<sup>nd</sup>, 3<sup>rd</sup> & 4<sup>th</sup> and Hōkūkano 1<sup>st</sup> & 2<sup>nd</sup>, North Kona, Hawai'i.

- 2. County Zoning. Agricultural twenty acres (A-20a).
- State Land Use. Agricultural (A).
- 4. **General Plan.** Land Use Pattern Allocation Guide (LUPAG) map designates the property as Important Agricultural Lands (IAL).
- 5. Subdivision Code Requirements. The subdivision code requires that subdivisions be served by a water system meeting the minimum requirements of the County Department of Water Supply (DWS) and be provided with water mains and fire hydrants installed to and within the subdivision in accordance with the rules and regulations of the DWS.

The code also requires minimum right-of-way and paving widths of 50 feet and 20 feet, respectively, and full right-of-way improvement to include paved shoulders and swales. The code does not require, instead allowing the Planning Director discretion for the installation of curbs, gutters and sidewalks and in this instance the Director concurs that they would be inappropriate for this large-lot agricultural subdivision.

- Subdivision Request/PPM. Subdivision application SUB-14-001367 was submitted to subdivide the subject TMK property into 4 lots ranging in size from 47.438 acres to 51.399 acres. Further action on the subdivision application has been deferred pursuant to letter dated July 22, 2014 in the subdivision file.
- 7. Variance Application. The variance request from water supply and roadway improvements was acknowledged by Planning Department letter dated December 22, 2014. This variance application includes background history and circumstances and information regarding the pending subdivision application. The department requested, and the applicant granted, a time extension for the Director's decision from February 13, 2015 to February 24, 2015.
- 8. Variance Application (VAR-14-000265) Agency Comments and Requirements.
  - a. State of Hawai'i-Department of Health (DOH): See attached memorandum dated December 29, 2014.
  - b. County of Hawai'i Fire Department (HFD): As of this date, HFD did not respond to this application. However, see attached memorandum which is their standard response to water variance requests.
  - c. Department of Water Supply (DWS): See attached memoranda dated January 15, 2015. We have also attached their comments in response to the subdivision application.

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- d. Department of Public Works (DPW): the DPW did not comment on this variance application as of this date.
- 9. Notice to Surrounding Owners/Posted Sign. The applicant submitted evidence, dated January 7, 2015, regarding the posting of a public notification sign on the subject property pursuant to Section 23-17(c) of the Hawai'i County Code (HCC). Pictures of the posted sign were also submitted. Evidence dated December 30, 2014, indicates that a notice of the application was sent to the surrounding property owners as required by Section 23-17(a).
- 10. **Comments from Surrounding Property Owners or Public.** There were no written comments received from the surrounding property owners or the public.

#### **ANALYSIS OF GROUNDS FOR VARIANCE**

No variance will be granted unless it is found that:

(a) There are special or unusual circumstances applying to the subject real property which exist either to a degree which deprives the owner or applicant of substantial property rights that would otherwise be available or to a degree which obviously interferes with the best use or manner of development of that property.

The Variance application meets criterion (a) for the following reasons(s):

The subdivision request is for four (4) lots in keeping with the existing A-20a zoning. Although a dedicable water system is a requirement of the code, the subject property is not able to be supported by the present service facilities of the existing DWS system and it would be unreasonable to expect the owners to construct the required service upgrades. Therefore, it is reasonable that, in lieu of constructing water system improvements to either extend/upgrade the DWS facilities or provide a private water system to DWS standards for the pending 4-lot subdivision, a more reasonable alternative can be allowed pursuant to Planning Department Rule No. 22, Water Variance.

Therefore, for this large-lot agricultural subdivision, the best use and manner of the development allows for individual rain water catchment systems in keeping with the rural agricultural character of the surrounding area.

The Hōkūkano Ranch Road is already in use. There is no practical reason to improve the Hōkūkano Ranch Road or the jeep roads to County standards as they serve a limited number of agricultural properties and are not through streets. The cost of installing roadways, street lights, sidewalks, and curbs and gutters to County standards for the proposed lots created by subdivision would be prohibitively expensive for this four large-lot agricultural subdivision.

The existing Hōkūkano Ranch Road, with approximately 14 foot wide pavement and 20 foot

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wide gravel shoulders, traverses within 100' wide Easement 1-A-1, extending from the Mamalahoa Highway mauka for approximately 2 miles. The roadway continues mauka as an unpaved gravel road for approximately 825 feet within a 60' wide portion of Easement 1-A-1 to Easement "C." The existing unpaved gravel roadway continues over 60' wide Easement "C" within adjacent Lot A mauka to this proposed subdivision of Lot B, terminating at Easement A-1 within Lot B. This existing roadway has served the area for some time and is adequate for the purposes of agricultural type vehicular use.

The above special and unusual circumstances would deprive the applicant from developing this property and interferes with the best use of this property.

#### (b) There are no other reasonable alternatives that would resolve the difficulty.

The Variance application meets criterion (b) for the following reasons(s):

The DWS has indicated that the property is not within the service limits of their existing water system facilities. Constructing water system improvements to either extend/upgrade the DWS facilities or provide a private water system to DWS standards for the pending 4-lot subdivision would be placing excessive demands upon the applicant because of the extensive improvements and additions required to the existing DWS water system facilities. At an elevation of approximately 2,500 to 2,800 feet above sea level, the drilling of wells and construction of other water system improvements to DWS standards would also be unreasonable for a four (4) lot subdivision.

There is no practical reason to improve the Hōkūkano Ranch Road or the jeep roads to County standards as they serve a limited number of agricultural properties and are not through streets. This existing paved and graveled roadway within 100 and 60 foot wide easements has served the area for some time and is adequate for the purposes of agricultural type vehicular use.

(c) The variance will be consistent with the general purpose of the district, the intent and purpose of this chapter, and the County general plan and will not be materially detrimental to the public welfare or cause substantial, adverse impact to an area's character or to adjoining properties.

The Variance application meets criterion (c) for the following reasons(s):

Given that there is adequate rainfall (approximately 60 inches to 80 inches of rainfall annually) to support individual water catchment and this is an agricultural subdivision, the granting of this variance would be consistent with the general purpose of the agricultural district. Water catchment is consistent with the intent of the policies of the general plan in that it will further agricultural activity. Water catchment will not be materially detrimental to the public welfare as it serves only private parties.

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Subject to conditions, granting of the variance will not cause substantial, adverse impact to the area's character or to adjoining properties. The collection of rainwater could help to reduce runoff and may be a benefit to the surrounding area.

Given that the subject area receives sufficient annual rainfall, a water variance would be consistent with the general purpose of the zoning district and the intents and purposes of the Zoning Code, Subdivision Code, Rule 22 and the Hawai'i County General Plan.

The roadway variance authorizing use of the existing, privately owned roads, with paved and graveled portions as outlined above, will not be detrimental to public welfare or burden County resources. The existing Hōkūkano Ranch Road is designed for and is currently used by owners, residents, and associated ranch and farm workers having direct use of the Property and surrounding agricultural lands. Using the existing roadways, as-is, will create less impact in this area than roadways and improvements designed to County standards. Hōkūkano Ranch uses similar low-volume ranch roads in this area, as do other ranchers, kama'āina, and residents who live in the area. There are livestock operations, farm dwellings, and other appropriate agricultural uses in the area. The Owners' plans are consistent with the existing land uses and will not have any adverse impact on the area's character or on neighboring properties.

The proposed lots, the smallest of which will be 47.438 acres, exceed the minimum lot size for the Ag-20 zoning by more than two times. The project is consistent with the intent and purpose of the Zoning and Subdivision Codes. The General Plan designation for the Property is "IAL" Important Agricultural Lands. The project is designed with large lots for continued agricultural use. The Owners' plans are consistent with this designation. The Property is currently in agriculture use and the area has historically been used for agricultural purposes.

#### **DETERMINATION-VARIANCE CONDITIONS**

The variance to permit the proposed 4-lot subdivision of the subject TMK property without providing dedicable water system improvements meeting DWS standards and utilizing the existing 100-foot wide easement (14-foot wide pavement with 20' gravel shoulders) and 60-foot wide easement (gravel roadway) ranch roads as they are, is hereby **approved** subject to the following variance conditions:

- 1. The applicant, owners, their assigns, or successors shall be responsible for complying with all stated conditions of approval.
- Should the Council adopt a Unified Impact Fees Ordinance setting forth criteria for the imposition of exactions or the assessment of impact fees, conditions included herein shall be credited towards the requirements of the Unified Impact Fees Ordinance.
- The owners, their assigns, or successors shall file a written agreement document with the Planning Department within one (1) year from the issuance of tentative subdivision approval. This written

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agreement shall contain deed language, being covenants, conditions, and restrictions affecting the 4 lots created by the proposed subdivision which are not serviced by a County dedicable public water system and which are serviced by a privately-owned atternative roadway. The agreement shall be duly recorded at the Bureau of Conveyances of the State of Hawai'i by and at the cost and expense of the owners. A copy of the recorded document shall be supplied to the Planning Department for our files.

In the event that there are any amendments or changes to the subdivision after the agreement is signed, the applicant shall be responsible for informing the County Planning Department of such amendments or changes so that the agreement can be amended concomitantly. Further, the recorded agreement shall be binding upon the owner(s), their successors or assigns and shall be incorporated as an exhibit and made part of each agreement of sale, deed, lease, or similar documents affecting the title of the existing property or approved subdivided lots.

- 4. The subdivider and all grantees, successors, and assigns acknowledge that the parcels were created by a variance from the normal subdivision requirements of Hawai'i County, and that there are no longer any special or unusual circumstances applying to the property, and hence, no grounds exist or will exist for another variance from the Subdivision Code to permit further subdivision of the properties.
- The owners, grantees, successors, and assigns agree and accept the fact that a County dedicable public water system will not be extended to serve the 4 lots within proposed subdivision SUB-14-001367.
  - It is also understood that they will use and maintain the privately owned roadway on their own without any expectation of governmental assistance to maintain the improvements. They shall also indemnify and defend the State of Hawai'i or County of Hawai'i from any and all liability arising out of vehicular access to and from the subject properties utilizing the private right-of-ways.
- 6. The owners, grantees, successors, and assigns agree and accept the fact that the County will not bear the responsibility of supplying public water to the 4 proposed lots. No further subdivision of the lots created will be permitted unless County dedicable public water system requirements and other requirements of HCC Chapter 23, Subdivisions, are met.
- 7. No condominium property regime will be allowed on any lot created, nor will an Ohana Dwelling Unit be permitted or allowed.
- 8. Any dwelling constructed on any created lot not served by the DWS shall be provided with and maintain a private rainwater catchment system which includes a minimum 6000-gallon water storage capacity for domestic consumption or potable uses. This private water storage system shall adhere to the University of Hawai'i's College of Tropical Agriculture and Human Resources' "Guidelines on

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Rainwater Catchment Systems for Hawai'i" as well as the DOH requirements related to water testing and water purifying devices.

- 9. Each permitted dwelling on a lot not served by the DWS shall also be provided with a minimum 3,000 gallon water storage capacity dedicated for firefighting and emergency purposes. The location and capacity of the emergency water supply system, including the necessary compatible fire apparatus connector system, shall be as specified by the HFD in the memorandum attached to this permit for reference. The HFD also advises, as a precautionary measure for other uninhabited structures, that consideration be given to the provision of a similar water storage system for firefighting and emergency purposes.
- 10. In the event that the County notifies the owner(s) of the lot(s) created that the County water system has been upgraded or an improvement district initiated to enable service to these lots, the owner(s) of lot(s) shall participate in such improvement district or shall pay their pro-rata share of the upgrade and installation of laterals, as determined by the DWS.
  - Upon written demand of the County of Hawai'i, the applicant and/or owners, their assigns, or successors shall agree to participate and pay their fair share percentage of any improvement district adopted for the purpose of roadway improvements serving the proposed lots. Should the improvement district require acquisition of any privately owned right-of-ways fronting the lots, such right-of-ways shall be dedicated to the County without cost and the value of the dedication credited to the fair share contribution of the respective lot owner(s).
- 11. The pending subdivision application's (SUB-14-001367) final plat map shall meet all the requirements of the Hawai'i County Zoning Code and the Subdivision Code that are not covered by this variance.
- 12. The subdivider, owner(s), their assigns or successors shall pay any outstanding real property taxes and comply with all other applicable State statutes and County ordinances pertaining to building improvements and land use.

Should any of the foregoing conditions not be complied with, the Planning Director may proceed to declare this Variance Permit null and void.

Sincerely,

DUANE KANUHA Planning Director

JRH:nci

\\COH33\planning\public\Admin Permits Division\Variance\2014\VAR-14-000265LehuulaMaukaLLC Water-Road\APVL.docx

Roy A. Vitousek III Cades Schutte, LLP Page 8 March 4, 2015

Encls:

**Agency Comments** 

XC:

DWS-Engineering Branch

DPW HFD

T. Dunlap, CDP Planner (via email)

SUB-14-001367

xc w/encls:

Lehu'ula Mauka, LLC

c/o Cades Schutte LLP

75-170 Hualālai Road, Suite B-303

Kailua-Kona, HI 96740

G. Bailado, GIS Section (via email)

096095

December 29, 2014 Duane Kanaha Page 2 of 2 Protection Agency (FPA) defines human consumption to include drinking, bathing, showering, cooking. dishwashing, maintaining oral hygietse and includes hand washing.

DAVID Y. KGE SOVERHOR OF HAMAS



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KETH YAMANDTO AOTHA BRECTOR OF MEALTH

STATE OF HAWA!I DEPARTMENT OF HEALTH P.D. 80X 916 HILD: HAWAI \$572: 0815

#### MEMORANDUM

December 29, 2014 DATE Duane Kanuha Planning Director, County of Hawaii

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Frenton Induse &

FROM.

District Environmental Health Program Chief

ROY A. VITOUSEK III, CADES SCHUTTE J.I.P. Application: VARIANCE VAR 14-000265 Agent SUBJECT

LEHU ULA MACKA, LLC

LERUTULA MAUKA, LLC Applicant: Owner: Request:

Right-of way. And Article 5, Division 2, Improvements Required, Sections 25-87, -88, -89, -91, -93 & -95, Standard for Non-Variance from Chapter 23, Subdivisions, Article 6, Division 2, Dedicable Street, Non-Dedicable Street, Sidewalks, Curbs and Article 3, Division 4, Street Design, Section 23-41, Minimum Improvements Required, Section 23-84, Water Supply: And

Couters, Street Lights and Right-of way Improvement 7-9-002:015 (\$UB-14-001362). Ħ

systems are regulated by the Department of Health and shall be in compliance with the Hawaii Administrative Rules, Fide 11. Chapter 20. Recommend the subdivision lofs be connected to an The Department of Health's Safe Drinking Water Bracch authority on drinking water quality is based on the definition of a 'public water system." A 'public water system" means a system which provides water for human consumption through pipe or other constructed conveyance if twenty-five (25) individuals daily at least sixty (60) days out of the year. All public water such system has fifteen (15) service connections or regularly serves an average of at least existing public water system.

contaminations in private water systems have identified the need for self monitoring. The Department of Health does not suppor the use of these private rain cardiament systems for drinking water purposes since the quality may not meet National Primary Drinking Water Standards for potable drinking water for human consumption. The U.S. Environmental Concerns on water quality for lead, copper, algae and microbiological and chemical

WORD, VAR 14-040265 ch

Duane Kamuha August 29, 2013

18.1.1.2 Fire Hydrant Systems. Plans and specifications for fire hydrant systems shall be submitted to the fire department for review and approval prior to construction.

Exception: Fire Department personnel conducting firefighting operations, hydrant testing, and/or (~ 18.1.1.2.1 Fire Hydrans use and Restrictions. No unauthorized person shall use or operate representative of the department, or company that owns or governs that water supply or system. maintenance, and the fluxhing and acceptance of hydrams witnessed by Fire Prevention Burrau my Fire hydrant caless such person first secures permission or a permit from the owner of

# 18.2 Fire Department Access.

19.2.1 Fire department access and fire department access roads shall be provided and maintained in accordance with Section 18.2.

# 18.2.2" Access to Structures or Areas.

Exhalted in an accessible location where access to or within a structure or area is difficult because 18.2.2.1 Access Box(es). The AHJ shall have the authority to require an access boxtes) to be

require fire department access be provided to gated subdivisions or developments through the use 18.2.2.2 Access to Gated Subdivisions or Developments. The AMI shall have the authority to of an approved device or system.

18.2.2.3 Access Maintenance. The owner or occupant of a structure or area, with required fre department access as specified in 18.2.2.1 or 18.2.2.2, shall main; the AEE when the access or modified in a manner that could prevent fire department access.

18.3.3 Fire Department Access Roads. (\*may be referred as FDAR)

### 18.2.3.1 Required Access.

18.2.3.1.1 Approved fire depurtment access roads shall be provided for every facility, building, or portion of a building hereafter constructed or relocated.

18.2.3.1.2 For Department access roads shall consist of roadways, fire lanes, parking ints lanes. or a combination thereof.

Filikem P. Kenod Mos





Renwick J. Victorina Derron J. Rosario

#### HAWAI'I FIRE DEPARTMENT County of Bawai'i (2016) 932-2900 + Fax (303) 932-2938

August 29, 2013

DOANT KANUHA, PLANNING DIRECTOR Ö

DARREN J. ROSARIO, FIRE CHIEF FROME

APPLICANT: DANIEL L. BERG, DUB & ASSOCIATES VARIANCE APPLICATION (VAR 13-00) SURJECT

ARTICLE 6. DIVISION 2. IMPROVEMENTS REQUIRED, SECTION 23. REQUEST: VARIANCE FROM CHAPTER 23, SUBDIVISIONS, OWNERS

84, WATER SUPPLY TAN MAPKEY: In regards to the above mentioned Variance application, the Hawari hare Department recommends that the following shall be in accordance.

# NEPA I, UNIFORM FIRE CODE, 2006 EDITION

Note NFPA 1 Britail State Fire Code with County omendments. (nump, omendments are identified with a preceding "Co." of the reference code

Chapter 18 Fire Department Access and Water Supply

18.1 General. Fire department access and water supplies shall comply with this chapter.

unduly difficult, or areas where there is an inadequate fire flow, or madequate fire by drain spacing, and the AIII may require additions: safeguards including, but not limited to, For overspancies of ait especially bazardous nature, or where special hazards exist an addition to the normal hazard of the occupancy, or where access for fire apparatus is additional. The appliance units, more than one type of appliance, or special systems suitable for the protection of the hazard involved.

18.1.1.1 Fire Apparatus Access. Plans for fire apparatus access roads shall be submitted to the Ere department for review and approval prior to construction.



ediction of the explaints for embedding of the existing to the stay

Duane Kanuha August 29, 2013 C-182.3.4.1.2 FDAR shall have an unobstructed vertical elemance of not less then 13th 6 in.

C- 18.13.4.1.2.1 Vertical elearances may be increased or reduced by the AHJ, provided such increase or reduction does not impair access by the fire apparatus, and approved signs are installed and maintained indicating such approved changes. 18.2.3.4.1.2.2. Vertical clearances shall be uncreased when vertical elearances or widths are not adoquate to accommodate fire apparatus.

C- 18.2.3.4.2 Surface. Fire department access roads and bridges shall be designed and maintained to support the imposed loads (25 Tons) of the fire apparatus. Such FDAR and shall be comprised of an all-weather driving surface.

## 18.2.3.4.3 Turning Radius.

C~ 18.2.3.4.3.1 Fire department access roads shall have a minimum irsude turning radius of 30 feet, and a minimum outside turning radius of 60 feet.

18.2.3.4.3.2 Turns in fire department access road shall maintain the minimum road width

18.2.3.4.4 Dead Ends. Dead-end fre department access roads in excess of 150 ft (46 m) in length shell be provised with approved provisions for the fre apparatus to turn around.

#### 18.2.3.4.5 Bridges.

18.2.3.4.5.1 When a bridge is required to be used as part of a fire department access road, it shall be constructed and maintained in accordance with county requirements.

18.2.3.4.5.2 The bridge shall be designed for a live load sufficient to carry the imposed loads of fre apparatus

18.2.3.4.5.3 Vehicle load limits shall be posted at both entrances to bridges where required by the

#### 8,13.4.6 Grade.

C~ 18.2.3.4.6.1 The maximum gradient of a Fire department access road shall not exceed 12 percent for unpaved surfaces and 15 percent for paved surfaces. In areas of the FDAR where a Fire apparatus would connect to a Fire hydrant or Fire Department Connection, the maximum gradient of such area(s) shall not exceed 10 percent.

Duanc Kanuha August 29, 2013 Page 3 18.2.3.1.3\* When not more than two one- and two-family dwellings or private garages, carports, sheds, agricultural buildings, and detached buildings or structures  $400E(37~m^2)$  or less are present, the requirements of 18.2.3.1 (through 18.2.3.2.1 shall be permitted to be modified by the a  $\mu$ 

18.2.3.1.4 When fire department access roads cannot be installed due to inculsion on property, topography, waterways, nomegotable grades, or other similar conditions, the AH shall be authorized to require additional fire protection features.

## 18.2.3.2 Access to Building.

18.2.3.2.1 A fice department access road shall extend to within in 50 ft (15 m) of at least one externer door that can be opened from the outside that provides access to the interner of the building. Exception: 1 and 2 single-famply dwellings.

18.2.3.2.1.1 When buildings are protected throughout with an approved automatic sprinkler system that is instituted in accordance with NFPA 13.1 NFPA 13D, or NFPA 13R, the distance in 18.2.3.2.1 shall be permitted to be increased to 300 feet.

18.2.3.2.1 fire department access roads shall be provided such that any portion of the facility or 18.2.3.2.2. Fire department access roads shall be provided such that any portion of the facility or

18.1.3.2.2 Fire department access roads shall be provided such that any portion of the facility or any portion of an exterior wall of the first story of the building is located not more than 150 ft (46 m) from fire department access roads as measured by an approved route around the exterior of the huilding or facility.

18.1.3.2.1. When buildings are protected throughout with an approved automatic sprinkler system that is installed in accordance with NFPA 13, NFPA 12D, or NFPA 13R, the distance in 18.2.3.2.2 shall be permitted to be increased to 450 ft (137 m).

18.2.3.3 Multiple Access Roads. More than one for department access road shall be provided when it is determined by the AHJ that access by a single road could be impaired by wehald congestion, condition of terrain, climatic conditions, or other factors that could limit access.

### 18.2.3.4 Specifications.

### 18.2.3.4.1 Dimensions.

C~ 18.2.3.4.1.1 FDAR shall have an unobstructed width of not less than 20ft with an approved turn around area if the FDAR exceeds 150 foct. Exception: FDAR for one and two family divellings shall have an unobstructed width of not less than 15 fect, with an area of not less than 26 feet wide within in area of not less than 26 feet wide within in 26 feet of the structure being protected. An approved turn around area shall be provised sinke FDAR exceeds 550 feet.

Duane Kartuha Angust 29, 2013 18.2.4.2.3 Roads, traits, and other accessways that have been closed and obstructed in the manner prescribed by 18.2.4.2.1 shall not be trespassed upon or used unless authorized by the owner and the a HT.

18.2.4.2.4. Public officers acting within their scope of duty shall be permitted to access restricted property identified in 18.2.4.2.1.

18.2.4.2.5 Locks, gates, doors, barrieades, chains, enclosuces, signs, rags, or seals that have been installed by the fire department or by its order or under its control shall not be removed, unfocked, destroyed, tampered with, or otherwise vandalized in any manner.

# 18.3 Water Supplies and Fire Hydranti

19.3.1.\* A ware supply approved by the county, capable of supplying the required free flow for fire protection shall be provided to all premises upon which facilities or buildings, or portions thereof, are bereafter constructed, or moved ratio or within the county. When any portion of the facility or building is in excess of 150 feet (45.720 mm) from a water supply on a free apparatus access cost, as measured by an approved route around the exterior of the facility or building, one site for hydrants and mains capable of supplying the required fine flow shall be provided when required by the AH. For on-site fire hydrant requirements see section 18.3.3.

- When facilities or buildings, or portions thereof, are completely protected with an
  approved automatic fire sprakier system the provisions of section 18.3.1 may be modified
  by the AHJ.
- When water supply requirements cannot be installed the to topography or other conditions, the AHJ may require additional fire protection as specified in section 18.3.2 as amended in the code.
- When there are not more than two dwellogs, or two private garage, carports, sheets and agricultural. Occupancies, the requirements of section 18.3.1 may be modified by AHJ.

18.3.2\* Where no adequate or reliable water distribution system exists, approved reservoirs, pressure tanks, elevated tanks, fire department tanker shuttles, or other approved systems capable of providing the required fire flow shall be permitted.

18.3.3" The location, number and type of fire hydrans connected to a water supply capable of delivering the required fire flow shall be provided on a fire apparatus access read on the site of the premises or body, in accordance with the appropriate county water requirements.

18.3.4 fire Hydrants and connections to other approved water supplies shall be accessible to the fire department.

Duanc Kanuha August 29, 2013 Page 5 18.2.3.4.6.2\* The angle of approach and departure for any means of fire departurent access road shall not exceed 1 if drop in 20 if (0.3 in drop in 6 in) or the design limitations of the fire apparatus of the fire department, and shall be subject to approval by the AHJ.

18.2.3.4.6.3 For department access roads connecting to roadways shall be provided with curb cuts extending at least 2 ft (0.61 m) beyond each edge of the fire lane.

18.1.3.4.7 Traffic Cabring Devices. The design and use of traffic cabring devices shall be approved the AHI.

# 38.2.3.5 Marking of Fire Apparatus Access Road.

18.2.3.5.1 Where required by the AHI, approved signs or other approved notices shall be provided and manufacily to identify fire department access made or to prohibit the obstruction thereof of both.

18.2.3.5.2 A marked fire apparatus access road shall also be known as a fire lane.

# 18.2.4\* Obstruction and Control of Fire Department Access Road

#### 18,2,4,1 General.

18.2.4.1.1 The required width of a fire department access road shall not be obstructed in any manner, uncluding by the parking of vehicles.

18.2.4.1.2 Minurum required withts and clearances established under 18.2.3.4 shall be maintained at all times.

18.24.1.3\* Facilities and structures shall be maintained in a manner that does not impair or impede accessibility for fire department operations.

18.24.1.4 Entrances to the departments access roads that have been closed with gates and barriers in accordance with 18.2.4.1.4 shall not be obstructed by parked vehicles.

# 18.2.4.2 Chaure of Accessways.

18.2.4.2.1 The AHJ shall be authorized to require the installation and maintenance of gates or other approved barricades across roads, trails, or other accessivass not including public streets alleys, or highways.

18.2.4.2.2 Where required, gates and barricades shall be secured in an approved manner.

August 29, 2013 Duane Kanuha

- (2) Maintain pipe diameter sizes from the water supply to the Fire Department Connection (FDC) shall be as follows:
  - (a) 4" for C900 PVC pipe;
    - (b) 4" for C906 PE pipe;
      - (c) 3" for ductile Iron,
- (d) 3" for gahanized steel.
- (3) The Fire Department Connection (FDC) shall:
- (b) have a gated valve with 2.1/2 inch, National Standard Thread male (a) be made of galvanized steet;
  - fitting and cap:
- (c) be located between 8 ft and 16 ft from the Fire department access. The location shall be approved by the AHJ:

(d) not be located less than 24 inches, and no higher than 36 inches from

- finish grade, as measured from the center of the FDC orifice;
- (e) be secure and capable of withstanding drafting operations. Engineered
- stamped plans may be required; (f) not be located more than 150 feet of the most remote part, but not less than 20 feet, of the structure being protected;
- (4) Commercial buildings requiring a fire flow of 2000gpm shall be provided with a second FDC. Each FDC shall be independent of each other, with each FDC being capable of flowing 500gpm by engineered design standards. The second FDC shall be located in an area approved by the AHJ with the idea of multiple Fire apparatus' (g) also comply with section 13.1.3 and 18.2.3.4.6.1 of this code: conducting drafting operations at once, in mind.
  - (5) Inspection and maintenance shall be in accordance to NFPA 25.
  - (6) The owner or lesses of the property shall be responsible for maintaining the water level, quality, and appurtenances of the system

# EXCEPTIONS TO SECTION 18.3.8;

- (1) Agricultural buildings, storage sheds, and shade houses with no combustable or equipment storage.
- (2) Buildings less than 800 square feet in size that meets the manmum Fine Department Access Road requirements.
- detached gazages 800 to 2000 square feet in size, and meets the minimum Fire (3) For one and two family dwellings, agricultural buildings, storage sheds, and Department Access Road requirements, the distance to the Fire Department Councetion may be increased to 1000 feet.
  - (4) For one and two family dwellings, agricultural buildings, and storage sheds

Duane Kanuha August 29, 2013 Page 7

18.3.5 Private water supply systems shall be tested and maintained in accordance with NFPA 25 or county requirements as determined by the AHI.

18.3.6 Where required by the AHJ, fire hydrants subject to vehicular damage shall be protected unless located within a public right of way. 18.3.7 The AHJ shall be notified whenever any fire hydrant is placed our of service or returned to service. Owners of private property required to have hydrants shall maintain hydrant records of approval, testing, and maniforance, in accordance with the respective county water requirements. Records shall be made available for review by the AHJ upon request.

C~ 18.3.8 Minimum water supply for buildings that do not need the minimum County water

standards:

Firefighting

Buildings up to 2000 square feet, shall have a minimum of 3,000 gallens of water available for

Buildings 2001 - 3000 square feet, shall have a minimum of 6,000 gollons of water available for Firefighting Buildings, 3001-6000 square feet, shall have a minimum of 12,000 gallons of water available for Firefighting.

Buildings, greater than 6000 square feet, shall meet the nanimum County water and fire flow requirements. Multiple story buildings shall multiply the square feet by the amount of stories when determining the minimum water supply.

Commercial buildings requiring a minimum fire flow of 2000gpm per the Department of Water standards shall double the minimum water supply reserved for frietighting Fire Department Connections (FDC) to alternative water supplies shall comply with 18.3.3 (1)-(6) of this code.

therighting, such systems shall meet the following requirements: (1) In that a single water tank is used for both domestic and therighting water, the water for NOTE: la that water cutchment systems are being used as a mesos of water supply for

domestic use shall not be capable of being drawn from the water reserved for firefighting.



# DEPARTMENT OF WATER SUPPLY . COUNTY OF HAWAPI 145 (EKGANACA STRFET, SUITE 20 - HILC. AAMA 1947) TELEPHONE (808-1961-C) - SAX 808) 264-3641

January 15, 2015

Mr. Duate Kanuha, Director Planting Department

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Quenna Antonie E., Manager Chief Engineer FROM

VARIANCE APPLICATION (VAR 14-00026) SUBDIVISION APPLICATION NO. 14-001567 APPLICANT - LEHCTUA MATIKA, LLC TAX MAP KEY 7-9-002015 SUBJECT:

We have reviewed the variance appreading and have the following comments.

the applicant has indicated that they will utilize private rainwater saichment systems für each fet. We have no adequacy of those systems as they do act meet the requirements of the Department's Water System Standards. objection to the use of failmater calchment switchs, himeyer, we cancel approve or comment as to the

We recommend that the owners) constall with the County of Hawai's. Planning Department, the County of Hawai is Department of Puthic Works, and/or the State of Hawai's Department of Puthic Roths, and/or the State of Hawai's Department of Health, to determine any other publicates, recommendations for regulations regarding the use of rainwater catchment systems. Should here be any questions, please castact Mr. Toy Samura of our Water Resources and Planning Branch at 46-280°0 extension 255.

Sinceres yours.

Offithe Antonio, Jr. 191. Mathger - Chief Engineer

TS.4fg

... Water, Our Most Previous Resource ... Ast Whit A Agre... The Organization of Asser Supply is at Figure Objectivity provide and emphasis

Duane Kanuha August 39, 2013 Page 9

minimum Fire Department Access Road requirements, the distance to the Fire Department Connection may be mereased to 500 feet.

[5] For buildings with an approved automatic sprinklet system, the transition water greater than 2000square feet, but less than 3000 square feet and exeets the

supply required may be modified.

If there are any questions regarding these noquirements, please contact the Fire Prevention Bureau at (808) 932-2911.

DE B

DARREN J. ROSARIO Fire Chief

RP-1c

096397



# DEPARTMENT OF WATER SUPPLY . COUNTY OF HAWAIT 345 KEKUANADA STPERT SHIFE JS . HILD HAWAI BETZD TELEPHONE (808) 991-8656 . FAX 1804 381-885.

July 3, 2014

Mr. Duane Kanuba. Director Planning Department ္က်

Quirino Antomo, Jr., Manager - Chief Engineer FROM.

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SUBJECT: PREIMINARY PLAT MAPAND DEFER ACTION APPLICANT - LEHULA MAEKA LLC

NURJECT: PREMINARY PLAT MAP AND DEFER ACTION
APPLICANT - LIFEULLA MAUNA LLC
TAX MAP KEY: 3-9-902:015 (SUB-14-001367)

We have reviewed the subject application and have the following comments and conditions:

....**7** 

Please be informed that the subject property is not within the service limits of the Department's existing water system facilities. The property is also at an elevation where water cannot be delivered at adequate volume and pressure under peak-flow and fire-flow conditions from the Department's existing water system facilities. Therefore, the Organment's existing water as stem facilities cannot support the proposed subdivision at this time. Extensive improvements and additions, which may methade to a not limited to, source, storage, booster pumps, transmission, and distribution facilities. Arouid be required.

Should there he amy questions, pieces contact Mr. Troy Samura of our Water Resources and Planning. Branch at 961-8070, extension 255.

Sincerely yours.

Opring Ansonie, Jr. P.E. Manager-Chief Legeneer

copy - Wes Thornas Associates

... Water, Our Most Precious Resource... As Wei A Kane... fine Description of Water Suppose on Equal Oppose, the requirement including