William P. Kenoi Mayor

West Hawai'i Office

Phone (808) 323-4770

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Kailua-Kona, Hawai'i 96740

County of Hawai'i

PLANNING DEPARTMENT

Duane Kanuha Director

Bobby Command

Deputy Director

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

May 5, 2014

Joseph M. Okuna 228 Laula Road Hilo, HI 96720

Dear Mr. Okuna:

SUBJECT:

Application:

VARIANCE DECISION VAR-14-000198

Owner:

JOSEPH M. OKUNA, et. al.

Request:

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

Improvements Required, Section 23-84, Water Supply

Tax Map Key:

2-4-004:072

(SUB-12-001204)

Upon review of your variance application, the Planning Director certifies the **approval** of Variance VAR-14-000198 subject to variance conditions. The variance grants relief for SUB-12-001204 from constructing minimum County dedicable water supply system improvements 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).

BACKGROUND

- Location. The referenced TMK property, Lot 3-A-1, being a Portion Lot 909, Waiākea Homesteads, First Series, Being also a Portion of Grant10,518:2, containing approximately 2.960acres, is situated in Waiākea Homesteads, Waiākea, South Hilo, Hawai'i.
- 2. County Zoning. Family Agricultural one acre minimum (FA-1a).
- 3. State Land Use. Agricultural (A).
- 4. **General Plan.** Land Use Pattern Allocation Guide (LUPAG) map designates the property as Low Density Urban (Idu).

- 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.
- 6. **Subdivision Request/PPM.** Subdivision application SUB-12-001204 was submitted to subdivide Lot 24-B into 2 lots consistent with the FA-1a zoning. Further action on the subdivision application was deferred pursuant to this application received March 4, 2014.
- 7. Variance Application. The variance request from water supply improvements was acknowledged by Planning Department letter dated March 14, 2014. This variance application requests the use of the existing water services in lieu of extending and/or upgrading the DWS water system or constructing a private water system conforming to DWS standards. The existing two (2) water services are located "out of bounds" as they do not front the lots as they are located some 500 feet distant.
- 8. Agency Comments and Requirements.
 - a. State of Hawai'i-Department of Health (DOH): see attached memorandum dated March 18, 2014.
 - b. County of Hawai'i Fire Department (HFD): see attached memorandum dated March 27, 2014.
 - c. Department of Water Supply (DWS): see attached memorandum dated April 24, 2014.
 - d. No other agency comments were solicited and none were received.
- 9. Notice to Surrounding Owners/Posted Sign. The applicant submitted evidence, dated March 30, 2014, regarding the posting of a public notification sign on the subject property pursuant to Section 23-17(c) of the HCC. Pictures of the posted sign were also submitted. Further, verification was submitted that a notice of the application was sent on March 27, 2014 to the surrounding property owners as required by Section 23-17(a).
- 10. Comments from Surrounding Property Owners or Public. No written objections to this application were 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):

Joseph M. Okuna Page 3 May 5, 2014

The subdivision request is for two (2) lots in keeping with the existing FA-1a zoning. Although a dedicable water system is a requirement of the code, the subject property is not adequately served by the existing DWS system facilities and it would be unreasonable to expect the owners to upgrade the existing two (2) substandard water services. 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 2-lot subdivision, a more reasonable alternative can be allowed pursuant to the filing of "out of bounds" agreements with the DWS.

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

Therefore, for this rural subdivision, the best use and manner of the development allows for the filing of the above mentioned agreements in keeping with DWS rules and regulations.

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

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

Constructing water system improvements to either extend/upgrade the DWS facilities or provide a private water system to DWS standards for the pending 2-lot subdivision which does have existing, substandard water services would be placing excessive demands upon the applicant because of the extensive improvements required to the existing DWS water system facilities.

Therefore, there are no reasonable alternatives that would resolve the difficulty.

(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 are two (2) existing, substandard services to the lots and the filing of "out of bounds" agreements with the DWS for this rural agricultural subdivision, the granting of this variance would be consistent with the general purpose of the district. Execution of said agreements pursuant to DWS rules and regulations is consistent with the intent of the policies of the general plan for this low density agricultural area. This will not be materially detrimental to the public welfare as it serves only private parties. Granting of the variance will not cause substantial, adverse impact to the area's character or to adjoining properties as the water services have existed for some 20 years.

Given that the subject property has, albeit, substandard water services, 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 and the Hawai'i County General Plan.

DETERMINATION-VARIANCE CONDITIONS

The variance to permit the proposed 2-lot subdivision of the subject TMK property without providing dedicable water system improvements meeting DWS standards 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.
- 3. 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 agreement shall contain deed language, being covenants, conditions, and restrictions, as outlined in this variance, affecting the lots created by the proposed subdivision which are serviced by a substandard County non-dedicable public water system. The agreement shall be duly recorded at the Bureau of Conveyances of the State of Hawai'i by the applicant. A copy of the recorded declaration document shall be submitted to the Planning Department.

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.
- 5. 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 lots within proposed subdivision SUB-12-001204.
- 6. The owners, grantees, successors, and assigns agree and accept the fact that the County will not bear the responsibility of supplying dedicable public water improvements to the 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 shall be allowed on any lot created, nor shall an Ohana Dwelling Unit

Joseph M. Okuna Page 5 May 5, 2014

be permitted or allowed.

- 8. Each permitted dwelling shall also be provided with a minimum 3,000 gallon water storage capacity dedicated for fire fighting and emergency purposes. The location and capacity of the emergency water supply system, including the necessary compatible fire apparatus connector system, shall be as required by the HFD. 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 fire fighting and emergency purposes.
- 9. 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 dedicable 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.
- 10. The pending subdivision application's (SUB-12-001204) 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.
- 11. 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

P:\Admin Permits Division\Variance\2014\VAR-14-000198Okuna Water\APVL.doc

Encis:

Agency Comments

XC:

DWS-Engineering Branch

SUB-12-001204

xc w/encls:

G. Bailado, GIS Section (via email)

Willem R. Mondell Strategie (1988)



Renwick J. Victoriao Darren J. Romerio

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March 27, 2014

HAWAI'I FIRE DEPARTMENT 25 August Street - Room 2501 - Filia, Hwari 18728 (ED) 152-2903 - Fax (188) 932-2928

County of Bawai'i

DUANE KANUHA, PLANNING DIRECTOR ë

DARREN J. ROSARIO, FIRE CHIEF FROM:

VARIANCE APPLICATION (VAR 14-0001898) SUBJECT

ARTICLE 6, DIVISION 2, IMPROVEMENTS REQUIRED, SECTION 23-OWNER: JOSEPH M. OKUNA, ET. AL. REQUEST: VARIANCE FROM CHAPTER 23, SUBDIVISIONS,

FAX MAP KEY: 2-4-004:072 (SUB 12-001204) 84 WATER SUPPLY

ደ In regards to the above-mentioned Variance application, the following shall accordance:

NFPA I, UNIFORM FIRE CODE, 2006 EDITION
Note: NFPA I, Havai's State Fire Code with County amendments. County amendments are identified with a preceding "C-" 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 inadequate fire hydrant spacing, and the AHI may require additional safeguards including, but not limited to, addition to the normal hazard of the occupancy, or where access for fire apparatus is For occupancies of an especially hazardous nature, or where special hazards exist in additional fire appliance units, more than one type of appliance, or special systems suitable for the protection of the bazard involved.

18.1.1 Plans.

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

Hausel's County is an Equal Opportunity Protect and Employer.

18060



82.2

LINDA ROSEN, M.D., M.P.H. DMECTOR OF MIN,TH

STATE OF HAWA!!
DEPARTMENT OF HEALTH
P.O. BOX 918
PILO, HAWA!! 86721-0916

MEMORANDUM

March 18, 2014 DATE: Duane Kanuha ö

Planning Director, County of Hawaii

Newton Incure wa FROM

District Environmental Health Program Chief

VARIANCE (VAR-14-000198) Application; SUBJECT:

Request: Owner:

JOSEPH M. OKUNA, et al Variance from Chapter 23, Subdivisions, Article 6, Division 2, Improvements Required, Section 22, 44, Water supply

(SUB-12-001204) Tax Map Key: 2-4-004:072

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

Protection Agency (EPA) defines human consumption to include drinking, bathing, showering, drinking water purposes since the quality may not meet National Primary Drinking Water Standards for potable drinking water for burnan consumption. The U.S. Environmental contaminations in private water systems have identified the need for self monitoring. The Department of Health does not support the use of these private rain catchment systems for Concerns on water quality for lead, copper, algae and microbiological and chemical cooking, dishwashing, maintaining oral hygiene and includes hand washing. 090638

VORD: VAR-14-000198.ni

THE STATE OF THE S

Duane Kanuha March 27, 2014 Page 3 18.2.3.1.4 When fire department access roads cannot be installed due to location on property, topography, waterways, nonnegotiable grades, or other similar conditions, the AHJ shall be authorized to require additional fire protection features.

18.2.3.2 Access to Building.

18.2.3.2.1 A fire department access road shall extend to within in 50 ft (1.5 m) of at least one extensor door that can be opened from the outside that provides axcess to the interior of the building. Exception: 1 and 2 single-family dwellings.

18.23.2.1.1 When buildings are protected throughout with an approved automatic sprinkler system that is installed in accordance with NFPA 13. NFPA 13D, or NFPA 13R, the distance in 18.23.2.1 shall be permitted to be increased to 300 feet.

18.2.3.2.2 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 (45 m) from the obstance at access roads as measured by an approved route around the exterior of the building or facility.

18.2.3.2.1. When buildings are protected throughout with an approved automatic sprinkler system that is installed in accordance with NFPA 13, NFPA 13D, 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 fire department access road shall be provided when it is determined by the AHJ that access by a single road could be impaired by wehicle 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 (eet. Exception: FDAR for one and two family dwellings shall have an unobstructed width of not less than 15 feet, with an area of not less than 20 feet uside within 150 feet of the structure bring protected. An approved turn around area shall be provided if the FDAR exceeds 250 feet.

C~ 18.2.3.4.1.2 FDAR shall have an unobstructed vertical clearance of not less then 13ft 6 in.

C~ 18.2.3.4.1.2.1 Vertical clearances may be increased or reduced by the AHI, provided such increase or reduction does not impair access by the fire apparatus, and approved signs are installed and maintained indicating such approved changes.

Duane Kanuha March 27, 2014 Page 2 C~18.1.1.2.1 Fire Hydrant use and Restrictions. No unauthorized person shall use or operate any Fire hydrant unless such person first secures permission or a permit from the owner or personative of the department, or company that owns or governs that water supply or system. Exception: Fire Department personnel conducting firefighting operations, hydrant testing, and/or maintenance, and the flushing and acceptance of hydrants witnessed by Fire Prevention Bureau personnel.

18.2 Fire Department Access.

18.2.1 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.

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

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

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

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

18.2.3.1 Required Access.

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

18.1.3.1.2 Fire Department access roads shall consist of roadways, fire lanes, parking lots lanes, or a combination thereof.

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 400ff* (37 m²) 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 AH.

Duane Kanuha March 27, 2014 Page 5 18.2.3.4.6.3 Fire department access roads connecting to roadways shall be provided with curb cure extending at least 2 ft (0.61 m) beyond each edge of the fire lane.

18.2.3.4.7 Traffic Calming Bevices. The design and use of traffic calming devices shall be approved the AHJ.

18.2.3.5 Marking of Fire Apparatus Access Road.

18.2.3.5.1 Where required by the AHJ, approved signs or other approved notices shall be provided and maintained to identify fire department access roads 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 mad shall not be obstructed in any manner, including by the parking of vehicles.

18.2.4.1.2 Minimum required widths and clearances established under 18.2.3.4 shall be maintained at all times.

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

18.2.4.1.4 Entrances to fire departments access roads that have been closed with gates and barriers in accordance with 18.2.4.2.1 shall not be obstructed by parked vehicles.

18.2.4.2 Closure of Accessways.

18.2.4.2.1 The AHJ shall be authorized to require the installation and maintenance of gates or other agone barricades across roads, trails, or other accessways not including public streets,

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

Duane Kanuha March 27, 2014 Page 4 18.2.3.4.1.2.2 Vertical clearances shall be increased when vertical clearances or widths are not adequate to accommodate fire apparatus. C~18.2.3.4.2 Surface. Fire department access made 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 inside 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 fire department access roads in excess of 150 ft (46 m) in length shall be provided with approved provisions for the fire 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 earry the imposed loads of fire apparatus. 18.2.3.4.5.3 Vehicle load limits shall be posted at both entraces to bridges where required by the AHJ.

182,3.4.6 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, 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.

18.2.3.4.6.2.* The angle of approach and departure for any means of fire department access road shall not exceed 1 ft drop in 20 ft (0.3 m drop in 6 m) or the desaign limitations of the fire apparatus of the fire department, and shall be subject to approval by the AHJ.

Duane Kanuha March 27, 2014 183.5 Private water supply systems shall be tested and maintained in accordance with NFPA 25 or county requirements as determined by the Ai-II.

18.3.6 Where required by the AHL 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 hydraut is placed out of service or returned to service. Owners of private property required to have hydrants shall maintain hydraut records of approval, testing, and maintenance, in accordance with the respective county warer requirements. Records shall be made avoilable for review by the AHJ upon request.

C~18.3.8 Minimum water supply for buildings that do not meet the minimum County water standards:

Buildings up to 2000 square feet, shall have a minimum of 3,000 gallons of water available for Firefighting. Buildings 2001 - 3000 square feet, shall have a minimum of 6.000 gallons of water available for Firefighting. Ruildings, 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 minimum County water and fire flow

Mukiple 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 Wester standards shall double the minimum water supply reserved for firefighting.

Fire Department Connections (FDC) to alternative water supplies shall comply with 18.3.8 (1)-

NOTE: In that water catchment systems are being used as a means of water supply for

forefighting, such syntems that uses the following requirements:

(1) In that a single water tank is used for both domestic and forefighting water, the water for domestic use shall not be easable of being drawn from the water reserved for firefighting.

Duane Kanuha March 27, 2014 Page 6 18.2.4.2.3 Roads, units, 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 AFL.

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, barricades, chains, enclosures, signs, tags, or seals that have been installed by the fire department or by its order or under its control shall not be removed, unlocked, destroyed, lampered with, or otherwise vandalized in any manner.

18.3 Water Supplies and Fire Hydrants

18.3.1* A water supply approved by the county, capable of supplying the required fine flow for fire protection shall be provided to all prentises upon which facilities or buildings, or portions thereof, are hereafter constructed, or moved into 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 fire apparants excess road, as measured by an approved toute around the exterior of the facility or building, onsite fire fire hydrants and mains capable of supplying the required fire flow shall be provided when required by the AHI. For on-site fire hydrant requirements see section 18.3.3.

EXCEPTIONS:
1. When facilities or hulldings

- When facilities or buildings, or portions thereof, are completely protected with an approved automatic fire sprinkler system the provisions of section 18.3.1 may be modified by the AHJ.
- When water supply requirements cannot be installed due 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 dwellings, or two private garage, carports, sheds and agricultural. Occupancies, the requirements of section 18.3.1 may be modified by AHJ.

18.3.24 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 hydrants connected to a water supply capable of delivering the required fire flow shall be provided on a fire apparatus access road on the site of the premises or both, 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.

Duane Kanuha March 27, 2014 Page 9

greater than 2000square feet, but less than 3000 square feet and meets the minimum Fire Department Access Road requirements, the distance to the Fire Department Connection may be increased to 500 feet.

(5) For buildings with an approved automatic sprinkler system, the minimum water supply required may be modified.

Alternatively, if there is an accessible fire hydrant within in 600 feet of the property frontage that may be used in lieu of the above described water supply requirements. If there are any questions regarding these requirements, please contact the Fire Prevention Bureau at (808) 932-2912.

Fire Chief

KV/lc

Duane Kanuha March 27, 2014 Page 8

(2) Minimum 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 galvanized 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 steel;

(c) be located between 8 ft and 16 ft from the Fire department access. fitting and cap;

(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; The location shall be approved by the AHJ;

(e) be secure and capable of withstanding drafting operations. Engineered stamped plens 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;
(g) also comply with section 13.1.3 and 18.2.3.4.6.1 of this code:
(4) Commercial buildings requiring a free 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' conducting drafting operations at once, in mind.

(5) Inspection and maintenance shall be in accordance to NFPA 25.
(6) The owner or lessee 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 combustible

(2) Buildings less than 800 square feet in size that meets the minimum Fire or equipment storage.

(3) For one and two family dwellings, agricultural buildings, storage sheds, and detached garages 800 to 2000 square feet in size, and meets the minimum Fire Department Access Road requirements, the distance to the Fire Department Connection may be increased to 1000 feet. Department Access Road requirements.

(4) For one and two family dwellings, agricultural buildings, and storage sheds



PLANTING DEPARTMENT CONTRACTOR RAPEM

Mr. Duane Kanulta, Director

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Quirino Antonio Jr., P.E. Manuger-Chief Engineer Planning Department

FROME

April 24, 2014

2014 FFR 25 PH 3: 35

SUBJECT: VARIANCE (VAR-14-000198)
SUBDIVISION APPLICATION NO. 12-001204
APPLICANT - JOSEPH M. OKUNA
TAN MAP NEW 2-4-004-001 (nka 2-4-083-011)

We have reviewed the subject variance application for the proposed subdivision and have no comment regarding the Variance. However, we request that once the new Tax Map Key numbers are assigned that the applicant worlfy DWS in writing as to which meter serves which new TMK so that we can update our records.

Should there be any questions, please contact Mr. Lawrence Heck of our Water Resources and Planuing Branch at 961-8070, extension 260.

Quirido Antonio Jr., P.E. Manayer-Chief Engineer

LBAK

copy - Juseph Okuna

The Independent Hawaii Surveyors, LLC

091415

... Mater, Our Mart Precious Resource ... No this A Kine ...