William P. Kenoi Mayor

West Hawai'i Office

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

74-5044 Ane Keohokalole Hwy Kailua-Kona, Hawai'i 96740 Phone (808) 323-4770 Fax (808) 327-3563

July 8, 2015

Sidney M. Fuke Planning Consultant 100 Pauahi Street, Suite 212 Hilo, HI 96720

Dear Mr. Fuke:

SUBJECT: VARIANCE DECISION - VAR-15-000287

Applicant:

SIDNEY FUKE, PLANNING CONSULTANT

Owners:

**GREGORY & JULIE BROWN** 

Request:

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

Improvements Required, Section 23-84, Water Supply

<u>Tax Map Key: 4-3-01</u>1:018 (S

(SUB-15-001481)

Upon review of your variance application, the Planning Director certifies the **approval** of Variance VAR-15-000287 subject to variance conditions. The variance grants relief for SUB-15-001481 from constructing minimum County dedicable water supply system improvements for the 2 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).

### **BACKGROUND**

- 1. **Location.** The referenced property, Lot 12-A, being all of Grant 6,099 and a portion of Grant 5,145, containing approximately 86.3021 acres, is situated in Pa'auilo Homesteads, Second Series, Hāmākua, Hawai'i.
- 2. **County Zoning.** Agricultural five acres (A-5a).
- 3. **State Land Use.** Agricultural (A).
- 4. **General Plan.** Land Use Pattern Allocation Guide (LUPAG) map designates the property as Important Agricultural Lands (ial).

Sidney M. Fuke Planning Consultant Page 2 July 8, 2015

- 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-15-001481 was submitted to subdivide the subject TMK property into 6 lots. Further action on the subdivision application has been deferred pursuant to letter dated April 30, 2015 in the subdivision file.
- 7. **Variance Application.** The variance request from water supply improvements was acknowledged by Planning Department letter dated May 20, 2015. This variance application includes background history and circumstances and information regarding the pending subdivision application.
- 8. Variance Application (VAR-15-000287) Agency Comments and Requirements.
  - a. State of Hawai'i-Department of Health (DOH): See attached memorandum dated May 27, 2015.
  - b. County of Hawai'i Fire Department (HFD): See attached memorandum dated June 8, 2015.
  - c. Department of Water Supply (DWS): See attached memoranda dated June 5, 2015. We have also attached their comments in response to the subdivision application.
  - d. No other agency comments were solicited and none were received.
- 9. **Notice to Surrounding Owners/Posted Sign.** The applicant submitted evidence on June 19, 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). A picture of the posted sign was also submitted. Evidence received June 3, 2015 and June 12, 2015 and mailing verification forms indicate 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.

Sidney M. Fuke Planning Consultant Page 3 July 8, 2015

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

The subdivision request is for six (6) lots in keeping with the existing A-5a 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 6-lot subdivision, a more reasonable alternative can be allowed pursuant to Planning Department Rule No. 22, Water Variance.

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 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.

### (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 6-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 2,400 feet above sea level, the drilling of wells and construction of other water system improvements to DWS standards would also be unreasonable for a six (6) lot subdivision.

(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 80 inches to 120 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

Sidney M. Fuke Planning Consultant Page 4 July 8, 2015

agricultural activity. Water catchment will not be materially detrimental to the public welfare as it serves only private parties.

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.

### **DETERMINATION-VARIANCE CONDITIONS**

The variance to permit the proposed 6-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.
- 2. 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 affecting the 6 lots created by the proposed subdivision which is not serviced by a County dedicable public water system. 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

Sidney M. Fuke Planning Consultant Page 5 July 8, 2015

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 6 lots within proposed subdivision SUB-15-001481.
- 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 6 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 either 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 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.
- 11. The pending subdivision application's (SUB-15-001481) 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.

Sidney M. Fuke Planning Consultant Page 6 July 8, 2015

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

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Encls:

**Agency Comments** 

XC:

**DWS-Engineering Branch** 

**HFD** 

L. Gloor, CDP Planner (via email)

SUB-15-001481

xc w/encls:

Thomas G. Pattison, LPLS

Pattison Land Surveying, Inc.

68-1125 North Kaniku Drive, Unit 906

Kamuela, HI 96743

Gregory & Julie Brown

P.O. Box 1060 Lahaina, HI 96767

G. Bailado, GIS Section (via email)

William P. Kenoi



Renwick J. Victorino Manual action with Darren J. Rosario

HAWAI'I FIRE DEPARTMENT 25 Aupuni Street • Suite 2501 • Hilo, Hawai'i 96720 (898) 932-2900 • Fax (808) 932-2928 County of Hawai'i

June 8, 2015

DUANE KANUHA, PLANNING DIRECTOR 20

DARREN J. ROSARIO, FIRE CHIEF FROM

Variance - VAR-15-000287 SUBJECT:

Sydney Fuke, Planning Consultant Applicant:

Variance from Chapter 23, Subdivisions, Article 6, Division 2, Gregory & Julie Brown Request: Owners:

Improvements Required, Section 23-84, Water Supply

Tax Map Key: 4-3-011:018 (SUB-13-001481)

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

NEPA 1, UNIFORM FIRE CODE, 2006 EDITION
Note: Howai'i State Fire Code, National Fire Protection Association 2006 version, with County of Hawai'i 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.

For occupancies of an especially hazardous nature, or where special hazards exist in addition to may require additional safeguards including, but not limited to, additional fire appliance units, the normal hazard of the occupancy, or where access for fire apparatus is unduly difficult, or areas where there is an inadequate fire flow, or inadequate fire hydrant spacing, and the AHJ more than one type of appliance, or special systems suitable for the protection of the hazard involved.

099203

DAVID Y. IGE COYERAGE OF PAWA

PLANTER OFFICE TO CONTROL OFFICE OF FERTH 60 20 10 10

DEPARTMENT OF HEALTH STATE OF HAWAII P.O. BOX 916 HILO, HAWAII 96721-0916

### MEMORANDUM

May 27, 2015 DATE:

Mr. Doane Kanuha

Ö

Planning Director, County of Hawaii

Newton Inouye +> FROM:

District Environmental Health Program Chief

VARIANCE - VAR-15-000287 Application: SUBJECT:

SIDNEY FUKE, PLANNING CONSULTANT GREGORY & JULIE BROWN Applicant: Owners:

Variance from Chapter 23, Subdivisions, Article 6, Division 2, Improvements Required. Section 23-84, Water Supply Request:

Fax Map Key: 4-3-011:018 (SUB-13-001481)

Administrative Rules. Title 11, Chapter 20. Recommend the subdivision lots be connected to an The Department of Health's Safe Drinking Water Branch authority on drinking water quality is systems are regulated by the Department of Health and shall be in compliance with the Hawaii 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" incans a system 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.

Protection Agency (EPA) defines human consumption to include drinking, bathing, showering, drinking water purposes since the quality may not meet National Primary Drinking Water 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 Standards for potable drinking water for human consumption. The U.S. Environmental Concerns on water quality for lead, copper, algae and microbiological and chemical cooking, dishwashing, maintaining oral hygiene and includes hand washing

VORD: VAR-15-000287.ni

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Duane Kanuha

June 8, 2015 Page 3

18.2.3.1.2 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 400ft<sup>2</sup> (37 m<sup>2</sup>) 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

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 (15 m) of at least one exterior door that can be opened from the outside that provides access to the interior of the building. Exception: 1 and 2 family dwellings. 18.2.3.2.1.1 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 18.2.3.2.1 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 (46 m) from fire department access roads as measured by an approved route around the exterior any portion of an exterior wall of the first story of the building is located not more than 150 ft of the building or facility.

system that is installed in accordance with NFPA 13, NFPA 13D, or NFPA 13R, the distance in 18.2.3.2.2.1 When buildings are protected throughout with an approved automatic sprinkler 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 vehicle congestion, condition of terrain, climatic conditions, or other factors that could limit access.

### 18.2.3.4 Specifications.

18.2.3.4.1 Dimensions.

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Duane Kanuha June 8, 2015 Page 2

### 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

Exception: Fire Department personnel conducting firefighting operations, hydrant testing, and/or maintenance, and the flushing and acceptance of hydrants witnessed by Fire Prevention Bureau C 18.1.1.2.1 Fire Hydrant 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. any Fire hydrant unless such person first secures permission or a permit from the owner or 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 security. 18.2.2.2 Access to Gated Subdivisions 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.

Duane Kanuha June 8, 2015

### 18.2.3.4.6 Grade.

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 C 18.2.3.4.6.1 The maximum gradient of a Fire department access road shall not exceed 12 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 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 Fire 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.

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

# 18.2.3.5 Marking of Fire Apparatus Access Road.

provided and maintained to identify fire department access roads or to prohibit the obstruction 18.2.3.5.1 Where required by the AHJ, approved signs or other approved notices shall be 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, 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

Duane Kanuha June 8, 2015 Page 4

dwellings shall have an unobstructed width of not less than 15 feet, with an area of not less than 20 feet wide within 150 feet of the structure being protected. An approved turn around area shall C 18.2.3.4.1.1 FDAR shall have an unobstructed width of not less than 20st with an approved turn around area if the FDAR exceeds 150 feet. Exception: FDAR for one and two family 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 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 increased when vertical clearances or widths are not adequate 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 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  $150~\mathrm{fl}$  ( $46~\mathrm{m}$ ) in length shall be provided with approved provisions for the fire apparatus to turn around.

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 fire apparatus.

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

Duane Kanuha

June 8, 2015 Page 7 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 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.

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

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 out of service or returned to service. Owners of private property required to have hydrants shall maintain hydrant records of approval, testing, and maintenance, 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 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 Firefishing 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 minimum 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.

Duane Kanuha June 8, 2015 Page 6

## 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 approved barricades across roads, trails, or other accessways not including public streets, alleys, or highways.

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

18.2.4.2.3 Roads, trails, 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 AHJ.

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, tampered 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 fire flow for fire protection shall be provided to all premises 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 apparatus access road, as measured by an approved route around the exterior of the facility or building, onsite fire hydraus and mains capable of supplying the required fire flow shall be provided when required the 18.3.3.

### EXCEPTIONS:

- 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.

Duane Kanuha June 8, 2015 Page 9

# **EXCEPTIONS TO SECTION 18.3.8:**

- 1) Agricultural buildings, storage sheds, and shade houses with no combustible or equipment
- 2) Buildings less than 800 square feet in size that meets the minimum Fire Department Access Road requirements.
- Road requirements, the distance to the Fire Department Connection may be increased to 1000 garages 800 to 2000 square feet in size, and meets the minimum Fire Department Access 3) For one and two family dwellings, agricultural buildings, storage sheds, and detached
- 4) For one and two family dwellings, agricultural buildings, and storage sheds greater than 2000 square 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
- 5) For buildings with an approved automatic sprinkler system, the minimum water supply required may be modified.

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

DARREN J. ROSARIO Fire Chief

RP:nac

Duane Kanuha June 8, 2015 Page 8 Commercial buildings requiring a minimum fire flow of 2000gpm per the Department of Water 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)- (6) of this code.

# NOTE: In that water catchment systems are being used as a means of water supply for firefighting, such systems shall meet the following requirements:

- domestic use shall not be capable of being drawn from the water reserved for frefighting.
  2) Minimum pipe diameter sizes from the water supply to the Fire Department Connection 1) In that a single water tank is used for both domestic and firefighting water, the water for
  - (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:
  - (a) be made of galvanized steel;
- (b) have a gated valve with 2-1/2 inch, National Standard Thread male 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;
    - (g) also comply with section 13.1.3 and 18.2.3.4.6.1 of this code;
- FDC. Each FDC shall be independent of each other, with each FDC being capable of flowing approved by the AHJ with the idea of multiple Fire apparatus' conducting drafting operations 4) Commercial buildings requiring a fire flow of 2000gpm shall be provided with a second 500gpm by engineered design standards. The second FDC shall be located in an area at once, in mind.

  - 5) Inspection and maintenance shall be in accordance to the conner or lessee of the property shall be responsible for maintaining the water level,



## DEPARTMENT OF WATER SUPPLY . COUNTY OF HAWAI'I 345 KEKÜANAÖ'A STREET, SUITE 20 + HILO, HAWAI'I 96720 TELEPHONE (808) 961-8050 . FAX (808) 961-8657

May 22, 2015

Mr. Duane Kanuha, Director Planning Department Ò

PRELIMINARY PLAT MAP AND DEFER ACTION SUBDIVISION APPLICATION NO. 15-001481 APPLICANT – BROWN, GREGORY AND JULIE TAX MAP KEY 4-3-011:018 SUBJECT:

Quirino Antonio, Jr., Manager-Chief Engineer

FROM:

#5 25 24 Hi 3-52

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

adequate for only one dwelling unit at an average of 400 gallons per day. A portion of the subject parcel is not within the Department's existing pressure zone and an Elevation Agreement with a Backflow Prevention Assembly has been approved for the subject parcel. Parcels that are now within the Department's pressure zone Please be informed that there is an existing service to the subject parcel (Account No. 680-38300) and is are limited to one (1) unit of water, served through a 5/8-inch meter.

only allow for one (1) unit of water, or one (1) 5/8-inch meter, per existing lot of record. Each unit of water is equal to an average of 400 gallons per day which is switable for only one single-family dwelling. Furthermore, the current water availability conditions in this area, which are subject to change without notice,

Therefore, the Department's existing water system facilities cannot support the proposed subdivision at this time. We request that the plat map be revised to show the existing meter with the meter number.

writing, which lot within the proposed subdivision will be assigned the existing meter. The applicant shall be informed that the existing meter shall not be shared with the other proposed lots and the water system piping Should the subdivision be allowed by the Planning Department, we request that the applicant designate, in between the lots shall not be interconnected in any way. Should there be any questions, please contact Mr. Troy Samura of our Water Resources and Planning Branch at 961-8070, extension 255.

Sincerely yours.

TS:dfg

copy - Mr. Sidney M. Fuke, Planning Consultant

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DEPARTMENT OF WATER SUPPLY . COUNTY OF HAWAI'I 345 KEKŰANAÓ'N STREET, SUITE 20 • HILO, HAWAI'I 96720 TELEPHONE (808) 961-8050 • FAX (808) 961-8657

June 5, 2015

Mr. Duane Kanuha, Director ATJENIJON: MR. JONATHAN HOLMES Planning Department

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Quirino Antonio, Jr., Manager-Chief Engineer FROM:

APPLICANT – SIDNEY FUKE, PLANNING CONSULTANT TAX MAP KEY 4-3-011:018 (SUB-13-001481) VARIANCE APPLICATION - (VAR 15-000287) SUBJECT:

SALANDAR MANAGATA 7°5 2 ° - 2 31 2: 10

We have reviewed the variance application and have the following comments. Our comments from our memorandum to you of May 22, 2015, regarding the subject subdivision still stand. The applicant has indicated that they may will be private rainwater catchment systems for each additional for. M have no objection to the use of rainwater catchment system; however, we cannot approve or comment as to the adequacy of those systems as they do not meet the requirements of the Department's Water System Standards.

Hawai'i, Department of Public Works, and/or the State of Hawai'i, Department of Health, to determine any other We recommend that the owner(s) consult with the County of Hawai'i, Planning Department, the County of guidelines, recommendations, or regulations regarding the use of rainwater catchment systems. Should there be any questions, please contact Mr. Troy Samura of our Water Resources and Planning Branch at 961-8070, extension 255.

Quirino Antonio, Jr., P.E. Manager/Chief Engineer

TS:dfg

copy - Mr. Sidney Fuke, Planning Consultant

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