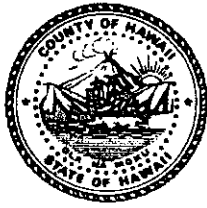


William P. Kenoi
Mayor



Duane Kanuha
Director

Bobby Command
Deputy Director

West Hawai'i Office
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County of Hawai'i PLANNING DEPARTMENT

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

September 9, 2013

Ms. Leah L. Wheeler
P.O. Box 436
Pa'auilo, HI 96776

Dear Ms. Wheeler:

SUBJECT: **Application:** **VARIANCE DECISION - VAR-13-000155**
 Applicant: **LEAH L. WHEELER, TRUSTEE OF THE LEAH L. WHEELER TRUST**
 Owner: **LEAH L. WHEELER TRUST**
 Request: **Variance from Chapter 23, Subdivisions, Article 6, Division 2,**
 Improvements Required, Section 23-84, Water Supply
 Tax Map Key: **4-3-012:004 and 4-3-012:018 (SUB-13-001232)**

Upon review of your variance application, the Planning Director certifies the **approval** of Variance VAR-13-000155 subject to variance conditions. The variance grants relief for SUB-13-001232 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

1. **Location.** The referenced TMK property, Lots A and B, being portions of Lot 26 of the Pa'auilo Homesteads, Second Series, being also portions of Grant 4421, containing approximately 19.272 acres, is situated in Pa'auilo, Hāmākua, Hawai'i.
2. **County Zoning.** Agricultural – five acres minimum (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).

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-13-001232 was submitted to consolidate Lots A and B and resubdivide the subject property into 3 lots consistent with the A-5a zoning. Further action on the subdivision application was deferred pursuant to letter dated June 5, 2013 in the subdivision file.
7. **Variance Application.** The variance request from water supply improvements was acknowledged by Planning Department letter dated July 24, 2013. This variance application requests the use of individual rainwater catchment systems in lieu of extending and/or upgrading the DWS water system or constructing a private water system conforming to DWS standards.
8. **Agency Comments and Requirements.**
 - a. State of Hawai'i-Department of Health (DOH): see attached memorandum dated July 26, 2013.
 - b. County of Hawai'i Fire Department (HFD): see attached memorandum dated August 1, 2013.
 - c. Department of Water Supply (DWS): see attached memorandum dated August 20, 2013 in response to the application indicating the public water system in the area is inadequate to serve two of the three lots.
 - d. No other agency comments were solicited and none were received.
9. **Notice to Surrounding Owners/Posted Sign.** The applicant submitted evidence, dated August 12, 2013, regarding the posting of a public notification sign on the subject property pursuant to Section 23-17(c) of the HCC. A picture of the posted sign was also submitted. Further, verification was submitted that a notice of the application was sent on August 1, 2013 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):

The subdivision request is for three (3) 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 within the service limits of the existing DWS system facilities and it would be unreasonable to expect the owners to wait for 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 3-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 remote/rural 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):

Constructing water system improvements to either extend/upgrade the DWS facilities or provide a private water system to DWS standards for the pending 3-lot subdivision would be placing excessive demands upon the applicant because of the extensive improvements required to the existing DWS water system facilities. At an elevation of over 1,900 feet above sea level, the drilling of wells and construction of other water system improvements would also be unreasonable for a three (3) 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 a rural subdivision, the granting of this variance would be consistent with the general purpose of the district. Water catchment is consistent with the intent of the policies of the general plan for this low density agricultural area. Water catchment 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. 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 3-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, as outlined in this variance, affecting the lots created by the proposed subdivision which are 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 the Planning Department at the cost and expense of the owners.

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-13-001232.
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 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 be permitted or allowed.
8. Any dwelling constructed on any created lot shall be provided with and maintain a private rainwater catchment system which includes a minimum 6,000-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 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.
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-13-001232) 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

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Ms. Leah L. Wheeler
Page 6
September 9, 2013

Encls: Agency Comments

xc: DWS-Engineering Branch
SUB-13-001232

xc w/encls: Sharon Gerrish
P.O. Box 91
Pa'aulo, HI 96776

G. Bailado, GIS Section (via email)
C. Kay, HCDP (via email)

PLANNING DEPARTMENT
WILIAM P. KIMMEL, Director

2013 AUG 13 PM 2:48



Darren J. Rosario
Fire Chief
Renwick J. Victorino
Deputy Fire Chief

County of Hawai'i
HAWAII FIRE DEPARTMENT
23 Aapaal Street • Room 2501 • Hilo, Hawaii 96720
(808) 932-2900 • Fax (808) 932-2923

August 1, 2013

TO: DUANE KANUHA, PLANNING DIRECTOR
FROM: DARREN J. ROSARIO, FIRE CHIEF
SUBJECT: VARIANCE APPLICATION (VAR 13-000155)
APPLICANT: LEAH L. WHEELER, TRUSTEE
OWNERS: LEAH L. WHEELER TRUST
REQUEST: VARIANCE FROM CHAPTER 23, SUBDIVISIONS, ARTICLE 6,
DIVISION 2, IMPROVEMENTS REQUIRED, SECTION 23-84, WATER SUPPLY
TAX MAP KEY: 4-3-012:004 AND 4-3-012:018 (SUB 13-001232)

In regards to the above-mentioned Variance application, the Hawaii Fire Department recommends that the following shall be in accordance:

NFPA 1, UNIFORM FIRE CODE, 2006 EDITION

Note: NFPA 1, Hawaii'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.

For occupancies of an especially hazardous nature, or where special hazards exist in addition to 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 may require additional safeguards including, but not limited to, additional fire appliance units, more than one type of appliance, or special systems suitable for the protection of the hazard involved.

18.1.1 Plans.

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NEIL ABERCROMBIE
GOVERNOR



LORETTA J. FUDDY, A.C.S.W., M.P.H.
PLANNING DEPARTMENT
DIRECTOR OF HEALTH

2013 JUL 31 AM 10:19

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

MEMORANDUM

DATE: July 26, 2013
TO: Duane Kanuha
Planning Director, County of Hawaii
FROM: Newton Inouye
District Environmental Health Program Chief
SUBJECT: Application: VARIANCE (VAR-13-000155)
Applicant: LEAH L. WHEELER, TRUSTEE OF THE LEAH L.
WHEELER TRUST
Owner: LEAH L. WHEELER TRUST
Request: Variance from Chapter 23, Subdivisions, Article 6, Division 2,
Improvements Required, Section 23-84, Water Supply
Tax Map Key: 4-3-012:004 and 4-3-012:018 (SUB-13-001232)

The Department of Health's Safe Drinking Water Branch 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 such system has fifteen (15) service connections or regularly serves an average of at least twenty-five (25) individuals daily at least sixty (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 Rules, Title 11, Chapter 20. Recommend the subdivision lots be connected to an existing public water system.

Concerns on water quality for lead, copper, algae and microbiological and chemical 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 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 Protection Agency (EPA) defines human consumption to include drinking, bathing, showering, cooking, dishwashing, maintaining oral hygiene and includes hand washing.

WORD: VAR-13-000155.ai

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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 400ft² (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 AHJ.

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 single-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 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 building or facility.

18.2.3.2.2.1 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 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.

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 feet. 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 wide within 150 feet of the structure being protected. An approved turn around area shall be provided if the FDAR exceeds 250 feet.

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.

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 representative 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 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.

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

18.2.3.4.6.2* 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 by 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 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.

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.

C- 18.2.3.4.1.2 FDAR shall have an unobstructed vertical clearance of not less than 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 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 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 the AHJ.

18.2.3.4.6 **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 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.

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 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 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.

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:

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

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, on-site fire hydrants and mains capable of supplying the required fire flow shall be provided when required by the AHJ. For on-site fire hydrant requirements see section 18.3.3.

EXCEPTIONS:

1. 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.
2. 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.
3. 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.

18.3.2* 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.

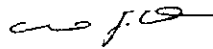
18.3.4 Fire Hydrants and connections to other approved water supplies shall be accessible to the fire department.

Duane Kanuha
August 1, 2013
Page 9

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 feet.

(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.


f DARREN J. ROSARIO
Fire Chief

RP/lc

Duane Kanuha
August 1, 2013
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:
- (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*;
- (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' 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 or equipment storage.
- (2) Buildings less than 800 square feet in size that meets the minimum Fire Department Access Road requirements.
- (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.
- (4) For one and two family dwellings, agricultural buildings, and storage sheds



DEPARTMENT OF WATER SUPPLY • COUNTY OF HAWAII

345 KĒKŪANAŌA STREET, SUITE 20 • HILO, HAWAII 96720
TELEPHONE (808) 951-8050 • FAX (808) 951-8857

August 20, 2013

TO: Mr. Duane Kanuha, Director
Planning Department

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

SUBJECT: VARIANCE (VAR 13-00155)
SUBDIVISION (SUB 13-001232)
SUBDIVIDERS - LEAH L. WHEELER TRUST
PROPOSED VARIANCE FROM CHAPTER 23 SECTION 23-84
TAX MAP KEY 4-3-012:004 AND 018

PLANNING DEPARTMENT
COUNTY OF HAWAII
2013 AUG 21 PM 2:37

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

Water availability in the area is limited to just one unit of water per Pre-Existing Lot-Of-Record (PELOR). The proposed subdivision intends to consolidate two lots and resubdivide into three lots. Therefore, even if the Planning Department determined that the two existing lots were both PELORs, DWS would not be able to support the subdivision because water is not available to the third lot.

To increase water availability, extensive improvements and additions, which may include source, storage, booster pumps, transmission, and distribution facilities, would need to be constructed. Currently, sufficient funding is not available from the Department for such improvements, no plan exists and no time schedule is set.

In addition, both of the existing lots are out-of-bounds because there are no DWS pipelines fronting the subject properties. DWS only allows one unit of water to lots that are out-of-bounds and DWS requires that the applicant to sign an "out-of-bounds" agreement in those cases. Parcel No. 18 has an existing water service with a 5/8-inch meter. A 5/8-inch meter can only serve one lot and is adequate for only one dwelling unit at an average of 400 gallons per day. Should the application be approved, the existing meter shall not be shared by more than one lot or more than one dwelling. Also, the Department requests that the applicant submit a written letter indicating which subdivided lot will be served by the existing meter.

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

Sincerely yours,

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

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