

**DEPARTMENT OF PUBLIC WORKS
COUNTY OF HAWAI'I**

NOTICE regarding ELEVATION CERTIFICATE (FEMA Form 81-31)

The ELEVATION CERTIFICATE shall be certified (with signature and seal) twice:

1. Before construction (proposed elevation) at the building permit approval stage.
2. Finished Construction (Section C1 of the Form) to verify the actual as-built elevation.

Upon request for Final Inspection of a structure with an ELEVATION CERTIFICATE, the applicant shall submit a certified ELEVATION CERTIFICATE (Finished Construction) to the Engineering Division (Hilo: 961-8327 or Kona: 327-3530) for further processing with the Building Division.

Note: Section C3 of the Elevation Certificate

e) Lowest elevation of machinery and/or equipment servicing the building

This section must be completed. Include the elevation of the Water Heater, Washer and/or Dryer, AC Unit, Electrical Panel, etc. -Whichever is lowest.

Building above the minimum base flood elevation (BFE) may reduce your flood insurance premium (if required by your mortgage company). Consult with your insurance agent.

Attachments: Special Flood Hazard Area Certification Form
Elevation Certificate (2 copies)
Elevation Notation of Building Permit Plans

(ZONE V or VE)

CHAPTER 27 - FLOOD CONTROL
HAWAI'I COUNTY CODE

Project Description

Address

City

State Hawai'i Zip Code

TMK (3)

Section I -Flood Insurance Rate Map Information

Community No	Panel No.	Suffix	Date of FIRM	FIRM Zone	Base Flood Elevation
155166					

Section II -Elevation Information

1 Bottom of Lowest Horizontal Structural Member	ft.
2 Base Flood Elevation (BFE)	ft.
3 Highest Natural Ground Elevation Adjacent to Proposed Walls	ft.
4 Lowest Natural Ground Elevation Adjacent to Proposed Walls	ft.

Section 111 -Zone V Certification Statement

I certify that based upon development and/or review of structural design, specifications, and plans for construction including consideration of flood hazard forces, that the design and methods of construction are in accordance with accepted standards of practice for meeting the following provisions.

- 1) are in compliance with the standards and requirements of the Hawaii County Code, Chapter 27, Flood Control;
- 2) the bottom of the lowest horizontal structural member of the lowest floor is elevated to or above the BFE;
- 3) are designed and constructed to not adversely affect the flooding of surrounding properties;
- 4) fill is not used for structural support of buildings;
- 5) new construction and other development are located on the landward side of the reach of mean high tide.

Project plans and specifications include.

- 1) certification of building plans by a structural engineer or architect,
- 2) certification of the lowest reference floor elevation on each set of construction plans,
- 3) the location of flood hazard boundaries as determined from the latest FEMA Flood Insurance Rate Map;
- 4) the base flood elevations, velocity and other data from the Federal Flood Maps and/or other studies;
- 5) existing and proposed elevations of the property grade,
- 6) existing and proposed structures, utilities and improvements.

Section IV -Breakaway Wall Certification Statement

(For breakaway walls with a design safe loading resistance of not less than 10 and no more than 20 psf)

I certify that based upon development and/or review of structural design, specifications, and plans for construction that the design and methods of construction of the breakaway walls are in accordance with accepted standards of practice for meeting the following provisions.

- 1) Breakaway collapse shall result from a water load less than that which would occur during the base flood,
- 2) The elevated portion of the building and supporting foundation system shall not be subject to collapse, displacement, or other structural damage due to the effects of wind and water loads acting simultaneously on all building components;
- 3) The space below the lowest floor is useable solely for parking of vehicles, building access or storage.

Section V -Certification

This certification is conditioned upon the actual construction of the project being in strict accordance with the plans and specifications as stamped and signed by me.

Check one: Section III Sections III and IV

Affix Seal Below
(Structural Engineer or Architect)

Signature

Name (print or type)

Title

Company

Address

Date

Elevation Certification of Building Permit Plans

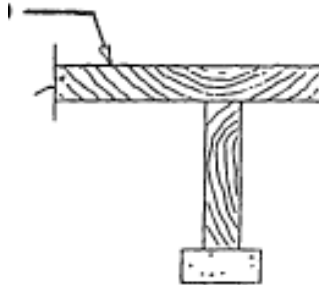
Each set of the building permit plans shall include the elevation of the "lowest floor" or the bottom of the lowest horizontal structural member, whichever is applicable.

The applicable elevation notation, along with the Base Flood Elevation (BFE), shall be indicated on the plans' appropriate cross section. Refer to the examples shown below.

For Flood Zones A, AE, and AH :

Base Flood Elevation = NGVD

Finish Floor Elevation = NGVD

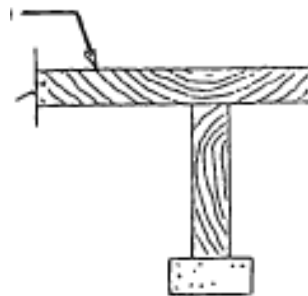


For Flood Zone AO :

Highest Adjacent Grade = NGVD

FIRM Flood Depth = Feet

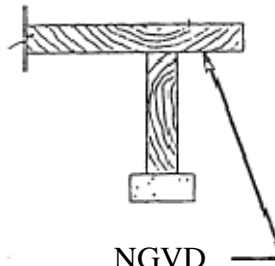
Finish Floor Elevation = NGVD



For Flood Zone VE :

Lowest Horizontal Structure Member = NGVD

Base Flood Elevation = NGVD



ELEVATION CERTIFICATE

OMB No. 1660-0008
 Expires March 31, 2012

Important: Read the instructions on pages 1-9.

SECTION A - PROPERTY INFORMATION

SECTION A - PROPERTY INFORMATION			For Insurance Company Use:
A1. Building Owner's Name _____			Policy Number _____
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. _____			Company NAIC Number _____
City _____	State _____	ZIP Code _____	
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) _____			
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) _____			
A5. Latitude/Longitude: Lat. _____ Long. _____ Horizontal Datum: <input type="checkbox"/> NAD 1927 <input type="checkbox"/> NAD 1983			
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.			
A7. Building Diagram Number _____			
A8. For a building with a crawlspace or enclosure(s):		A9. For a building with an attached garage:	
a) Square footage of crawlspace or enclosure(s) _____ sq ft		a) Square footage of attached garage _____ sq ft	
b) No. of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade _____		b) No. of permanent flood openings in the attached garage within 1.0 foot above adjacent grade _____	
c) Total net area of flood openings in A8.b _____ sq in		c) Total net area of flood openings in A9.b _____ sq in	
d) Engineered flood openings? <input type="checkbox"/> Yes <input type="checkbox"/> No		d) Engineered flood openings? <input type="checkbox"/> Yes <input type="checkbox"/> No	

SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number Hawaii County 155166		B2. County Name Hawaii County		B3. State Hawaii	
B4. Map/Panel Number 155166	B5. Suffix	B6. FIRM Index Date 04/02/2004	B7. FIRM Panel Effective/Revised Date	B8. Flood Zone(s)	B9. Base Flood Elevation(s) (Zone AO, use base flood depth)
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9. <input type="checkbox"/> FIS Profile <input type="checkbox"/> FIRM <input type="checkbox"/> Community Determined <input type="checkbox"/> Other (Describe) _____					
B11. Indicate elevation datum used for BFE in Item B9: <input type="checkbox"/> NGVD 1929 <input type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other (Describe) _____					
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Designation Date _____ <input type="checkbox"/> CBRS <input type="checkbox"/> OPA					

SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: Construction Drawings* Building Under Construction* Finished Construction
 *A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations – Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO. Complete Items C2.a-h below according to the building diagram specified in Item A7. Use the same datum as the BFE.
 Benchmark Utilized _____ Vertical Datum _____
 Conversion/Comments _____

Check the measurement used.

a) Top of bottom floor (including basement, crawlspace, or enclosure floor) _____	<input type="checkbox"/> feet	<input type="checkbox"/> meters (Puerto Rico only)
b) Top of the next higher floor _____	<input type="checkbox"/> feet	<input type="checkbox"/> meters (Puerto Rico only)
c) Bottom of the lowest horizontal structural member (V Zones only) _____	<input type="checkbox"/> feet	<input type="checkbox"/> meters (Puerto Rico only)
d) Attached garage (top of slab) _____	<input type="checkbox"/> feet	<input type="checkbox"/> meters (Puerto Rico only)
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments) _____	<input type="checkbox"/> feet	<input type="checkbox"/> meters (Puerto Rico only)
f) Lowest adjacent (finished) grade next to building (LAG) _____	<input type="checkbox"/> feet	<input type="checkbox"/> meters (Puerto Rico only)
g) Highest adjacent (finished) grade next to building (HAG) _____	<input type="checkbox"/> feet	<input type="checkbox"/> meters (Puerto Rico only)
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support _____	<input type="checkbox"/> feet	<input type="checkbox"/> meters (Puerto Rico only)

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. *I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.*
 Check here if comments are provided on back of form. Were latitude and longitude in Section A provided by a licensed land surveyor? Yes No

Certifier's Name _____		License Number _____	
Title _____	Company Name _____		
Address _____	City _____	State _____	ZIP Code _____
Signature _____	Date _____	Telephone _____	



IMPORTANT: In these spaces, copy the corresponding information from Section A.	For Insurance Company Use:
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.	Policy Number
City State ZIP Code	Company NAIC Number

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)

Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.

Comments

Signature	Date	<input type="checkbox"/> Check here if attachments
-----------	------	--

SECTION E - BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)

For Zones AO and A (without BFE), complete Items E1-E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1-E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.

- E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).
a) Top of bottom floor (including basement, crawlspace, or enclosure) is _____. feet meters above or below the HAG.
b) Top of bottom floor (including basement, crawlspace, or enclosure) is _____. feet meters above or below the LAG.
- E2. For Building Diagrams 6-9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 8-9 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is _____. feet meters above or below the HAG.
- E3. Attached garage (top of slab) is _____. feet meters above or below the HAG.
- E4. Top of platform of machinery and/or equipment servicing the building is _____. feet meters above or below the HAG.
- E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? Yes No Unknown. The local official must certify this information in Section G.

SECTION F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. *The statements in Sections A, B, and E are correct to the best of my knowledge.*

Property Owner's or Owner's Authorized Representative's Name

Address	City	State	ZIP Code
Signature	Date	Telephone	

Comments

Check here if attachments

SECTION G - COMMUNITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8 and G9.

- G1. The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)
- G2. A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.
- G3. The following information (Items G4-G9) is provided for community floodplain management purposes.

G4. Permit Number	G5. Date Permit Issued	G6. Date Certificate Of Compliance/Occupancy Issued
-------------------	------------------------	---

- G7. This permit has been issued for: New Construction Substantial Improvement
- G8. Elevation of as-built lowest floor (including basement) of the building: _____. feet meters (PR) Datum _____
- G9. BFE or (in Zone AO) depth of flooding at the building site: _____. feet meters (PR) Datum _____
- G10. Community's design flood elevation: _____. feet meters (PR) Datum _____

Local Official's Name	Title
Community Name	Telephone
Signature	Date

Comments

Check here if attachments

Building Photographs

See Instructions for Item A6.

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.	For Insurance Company Use:
City State ZIP Code	Policy Number
If using the Elevation Certificate to obtain NFIP flood insurance, affix at least two building photographs below according to the instructions for Item A6. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." If submitting more photographs than will fit on this page, use the Continuation Page, following.	Company NAIC Number

Building Photographs

Continuation Page

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.	For Insurance Company Use:
City State ZIP Code	Policy Number
	Company NAIC Number

If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View."