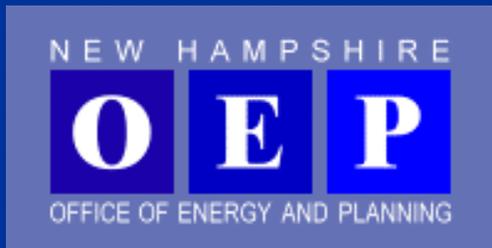




Estimating and Determining Base Flood Elevations in Zone A

Jennifer Gilbert, CFM
NH Floodplain
Management Coordinator

Thor Smith, P.G.
Hydrologist
NH/VT Water Science Center



Overview of Presentation

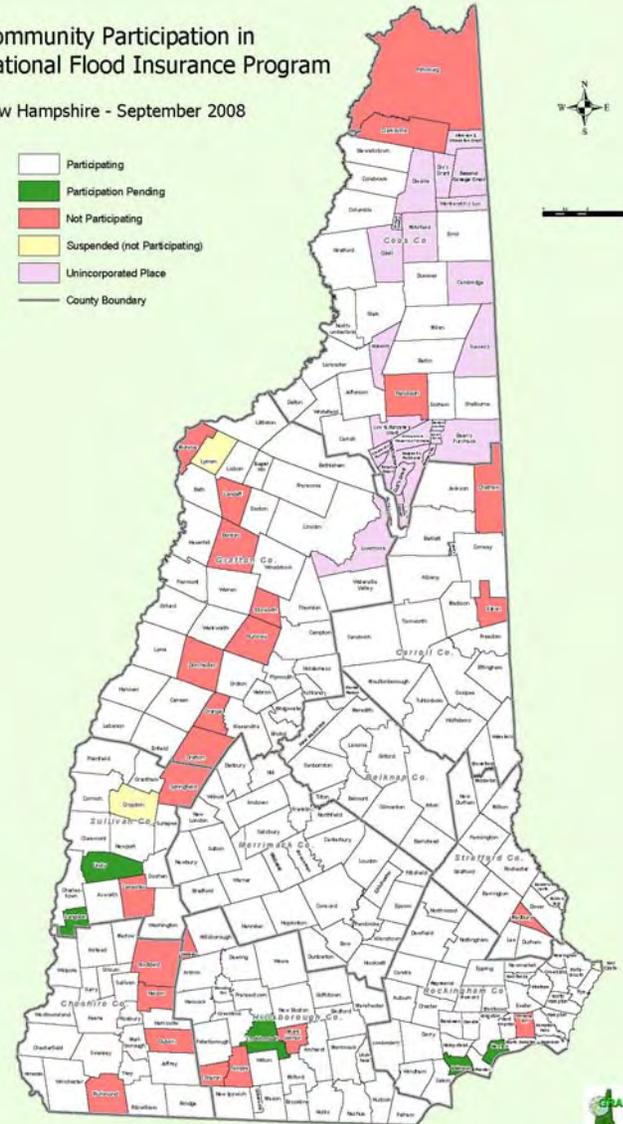
- NFIP Overview
- Zone A Regulations, Elevation Certificate, Letter of Map Amendment
- Sources of Flood & Watershed Info
- Determining BFEs - Simplified Methods
- Determining BFEs - Detailed Methods
- Question & Answer Session

National Flood Insurance Program Program in New Hampshire

- 203 communities (86%) participate
- 32 communities (14%) do not participate

Community Participation in
National Flood Insurance Program

New Hampshire - September 2008



National Flood Insurance Program – The 3 Parts

- Floodplain Regulations
- Floodplain Mapping
- Flood Insurance



Map Mod in New Hampshire

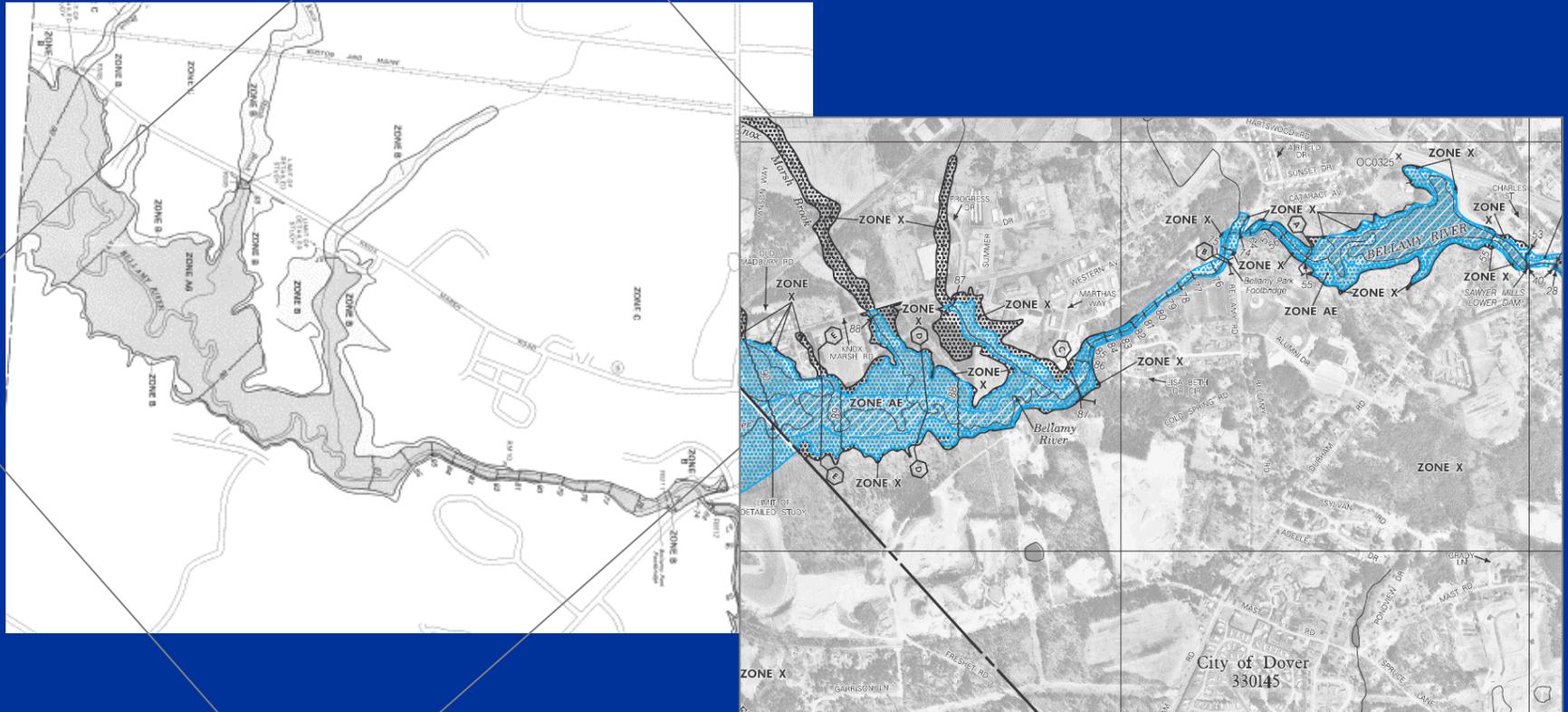
Status as of
Jan '08



- **Effective** DFIRMs and FIS
 - Rockingham - May 17, 2005
 - Strafford - May 17, 2005
 - Cheshire - May 23, 2006
 - Sullivan - May 23, 2006
 - Grafton – February 20, 2008
- **Preliminary** DFIRMs and FIS
 - Merrimack final in 2009
 - Hillsborough final in 2009

Differences between FIRM and DFIRM

Dover



Where Can I get a Map or Study?



FEMA

Map Service Center



NEW HAMPSHIRE

O

E

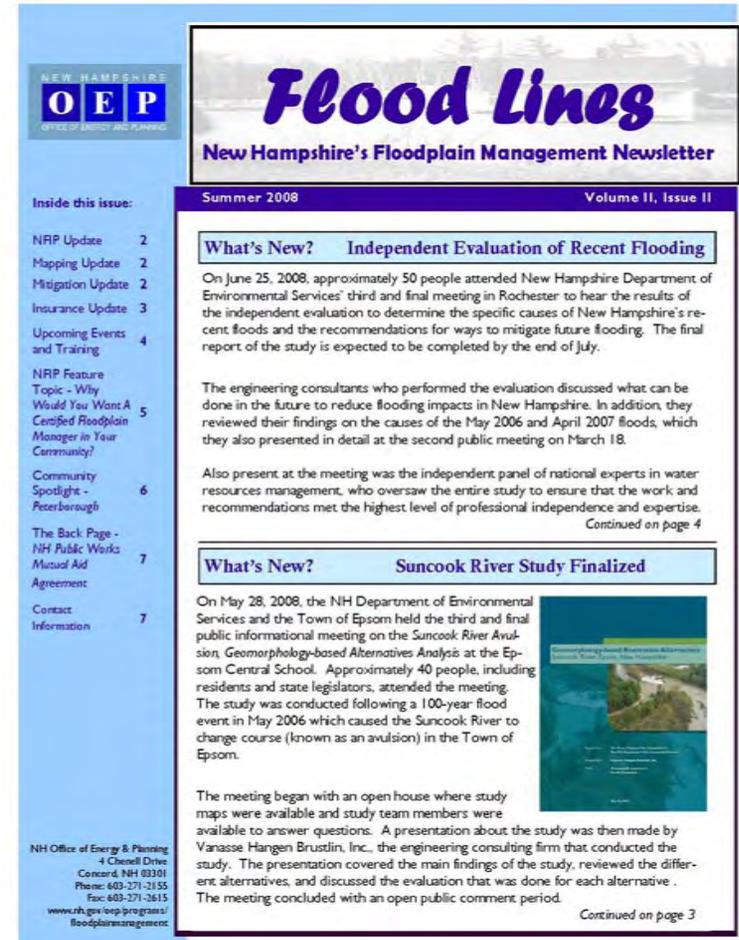
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OFFICE OF ENERGY AND PLANNING

[www.nh.gov/oep/programs/
floodplainmanagement/maps.htm](http://www.nh.gov/oep/programs/floodplainmanagement/maps.htm)

Flood Lines Newsletter

- NH NFIP newsletter
- Email distribution list
- To be added go to:
www.nh.gov/oep/newsletters.htm



NEW HAMPSHIRE
OEP
OFFICE OF ENERGY AND PLANNING

Flood Lines

New Hampshire's Floodplain Management Newsletter

Summer 2008 Volume II, Issue II

Inside this issue:

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NRP Feature Topic - Why Would You Want A Certified Floodplain Manager in Your Community?	5
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The Back Page - NH Public Works Mutual Aid Agreement	7
Contact Information	7

What's New? Independent Evaluation of Recent Flooding

On June 25, 2008, approximately 50 people attended New Hampshire Department of Environmental Services' third and final meeting in Rochester to hear the results of the independent evaluation to determine the specific causes of New Hampshire's recent floods and the recommendations for ways to mitigate future flooding. The final report of the study is expected to be completed by the end of July.

The engineering consultants who performed the evaluation discussed what can be done in the future to reduce flooding impacts in New Hampshire. In addition, they reviewed their findings on the causes of the May 2006 and April 2007 floods, which they also presented in detail at the second public meeting on March 18.

Also present at the meeting was the independent panel of national experts in water resources management, who oversaw the entire study to ensure that the work and recommendations met the highest level of professional independence and expertise.

Continued on page 4

What's New? Suncook River Study Finalized

On May 28, 2008, the NH Department of Environmental Services and the Town of Epsom held the third and final public informational meeting on the Suncook River Avulsion: Geomorphology-based Alternatives Analysis at the Epsom Central School. Approximately 40 people, including residents and state legislators, attended the meeting. The study was conducted following a 100-year flood event in May 2006 which caused the Suncook River to change course (known as an avulsion) in the Town of Epsom.



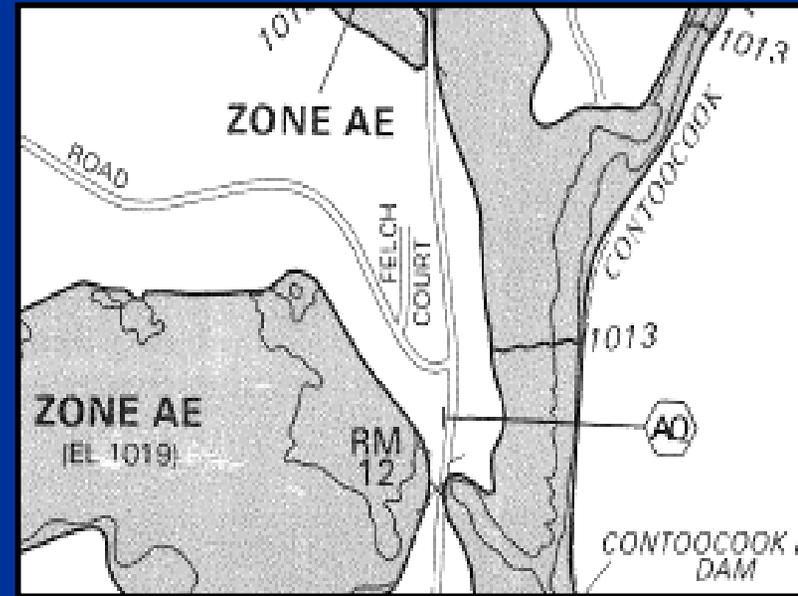
The meeting began with an open house where study maps were available and study team members were available to answer questions. A presentation about the study was then made by Vanasse Hangen Brustlin, Inc., the engineering consulting firm that conducted the study. The presentation covered the main findings of the study, reviewed the different alternatives, and discussed the evaluation that was done for each alternative. The meeting concluded with an open public comment period.

Continued on page 3

NH Office of Energy & Planning
4 Chase Drive
Concord, NH 03301
Phone: 603-271-2155
Fax: 603-271-3615
www.nh.gov/oep/programs/floodplanning/

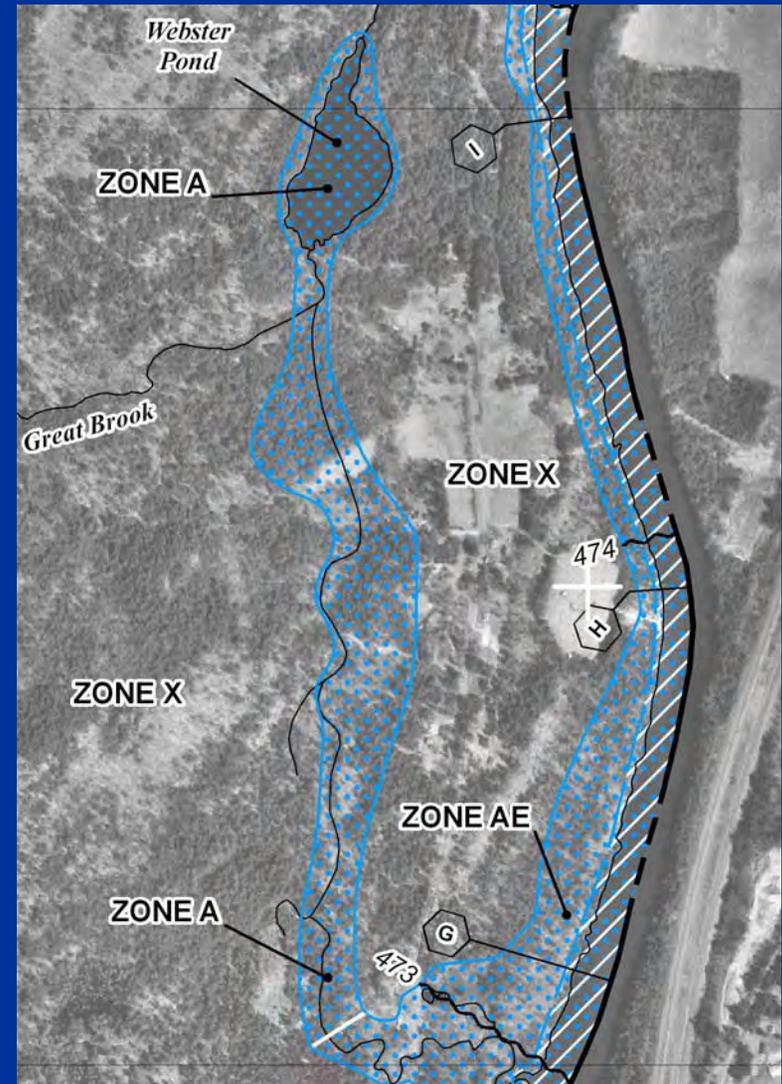
What is a Base Flood Elevation?

The height above sea level to which flood water would be expected to rise in a base, 1% chance, or 100-year flood event.



Why are there Zone As with no BFE?

- Not cost effective in areas where there is no or little development
- Zone A Floodplain areas based on approximate methods or historical flood data

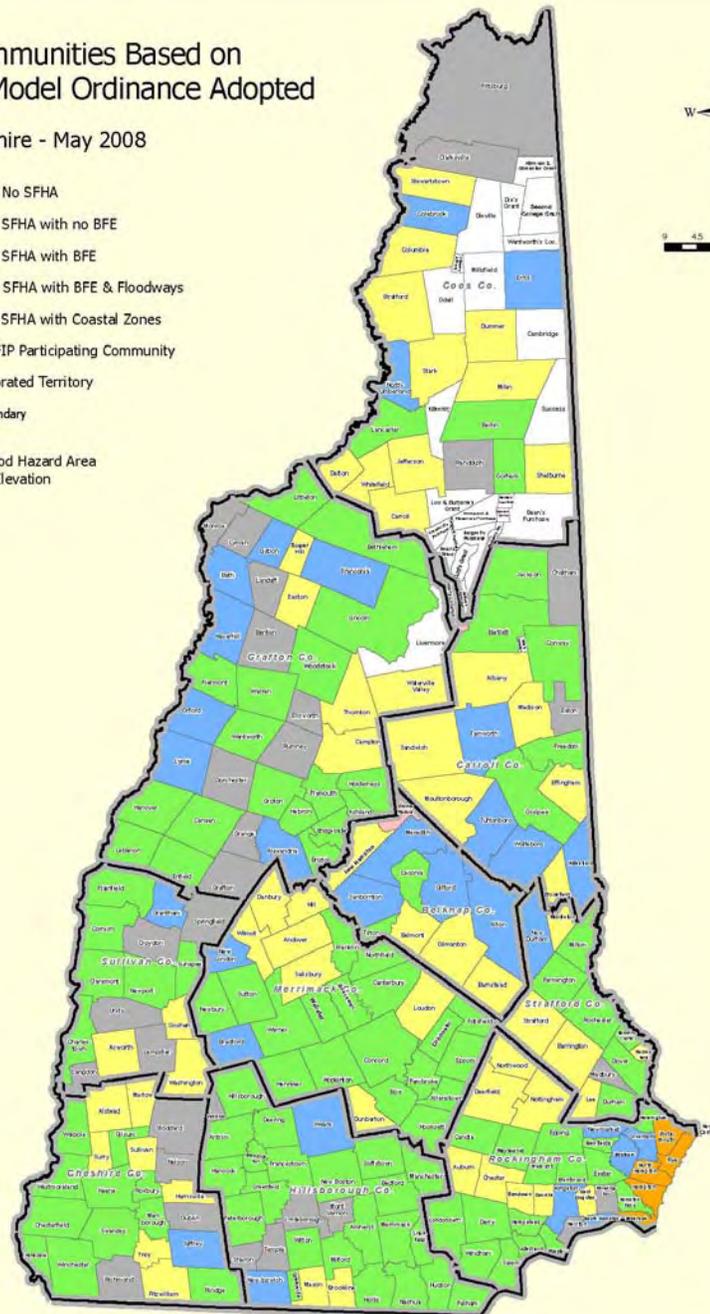


NFIP Communities Based on Type of Model Ordinance Adopted

New Hampshire - May 2008

- Model A - No SFHA
- Model B - SFHA with no BFE
- Model C - SFHA with BFE
- Model D - SFHA with BFE & Floodways
- Model E - SFHA with Coastal Zones
- Not an NFIP Participating Community
- Unincorporated Territory
- County Boundary

SFHA - Special Flood Hazard Area
BFE - Base Flood Elevation





FEMA Guidance Document

Managing Floodplain Development in Approximate Zone A Areas

[www.fema.gov/plan/prevent/fhm/
dl_zone_a.shtm](http://www.fema.gov/plan/prevent/fhm/dl_zone_a.shtm)



BFE Sources

- Community shall obtain, review, and reasonably utilize any 100-year flood elevation data available from any federal, state, or other source including data submitted for development proposals submitted to the community (i.e. subdivisions, site plan approvals)

If no source of BFE, now what?

- Development $>$ or $=$ to 50 lots or 5 acres
- Development $<$ 50 lots or 5 acres
- Elevation Certificate
- Letter of Map Amendment

Development Greater Than 50 Lots or 5 Acres

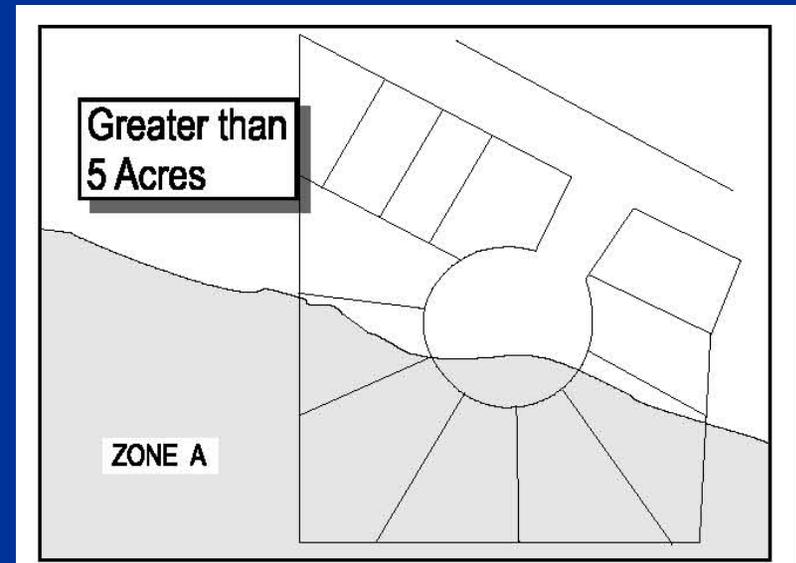
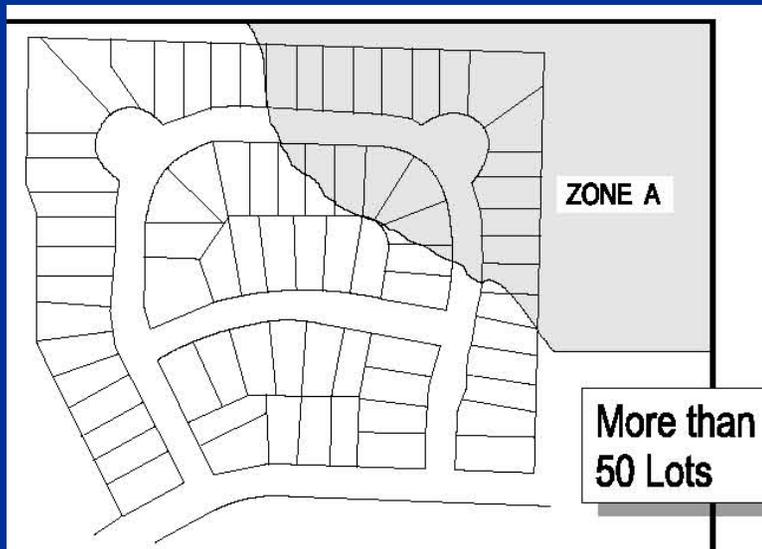
- NFIP language in a Community's Subdivision & Site Plan Review Regulations:

The Planning Board shall require that all proposals for development greater than 50 lots or 5 acres, whichever is the lesser, include Base Flood Elevation (BFE) data within such proposals (i.e. floodplain boundary and 100-year flood elevation).

- Detailed Study Needed

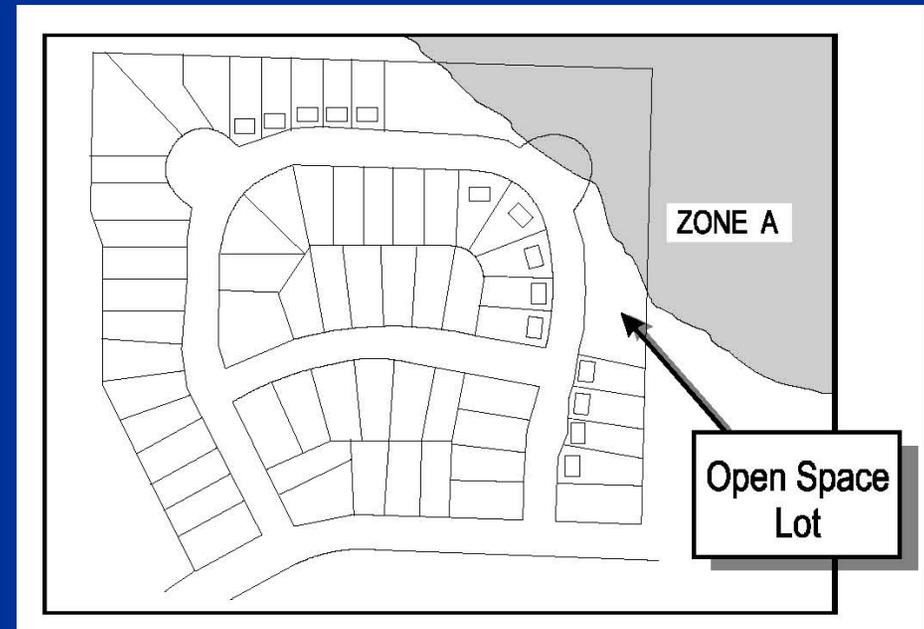
Development Greater Than 50 Lots or 5 Acres (*cont.*)

- Proposed 76-lot subdivision
- BFE data required for affected lots
- Proposed 12 lot/ 6.7 acre subdivision
- BFE data required for affected lots



Development Greater Than 50 Lots or 5 Acres *(cont.)*

- Proposed 76-lot subdivision
- Entire Zone A contained entirely in open space lot
- BFE data may not be necessary



NH Community Initiative



Town of Bedford

Requires that all subdivision and site plan development proposals include the BFE. The town defines a methodology for a floodplain determination if a BFE is not defined on the FIRM.

Advantages of Developing BFEs

- Minimizes and reduces future flood losses
- Less burden on community officials
- Significant reduction on flood insurance
- Eligible for sizable credits under the Community Rating System

Development Greater Than 50 Lots or 5 Acres *(cont.)*

- When a developer prepares a detailed flood study to determine a BFE, community is responsible for submitting new flood data to FEMA within 6 months
- Community can require developer to submit a request for a Letter of Map Revision as a condition of approving the development

Development Less Than 50 Lots or 5 Acres

- Community shall review all building permit applications for new construction or substantial improvements to determine whether proposed building sites will be **reasonably safe from flooding**.

Development Less Than 50 Lots or 5 Acres *(cont.)*

- Use **Simple Method** to Estimate BFE
- Lowest floor elevated 1 to 2 ft above the experienced flood event
- Lowest floor elevated 2 to 5 ft above highest adjacent grade

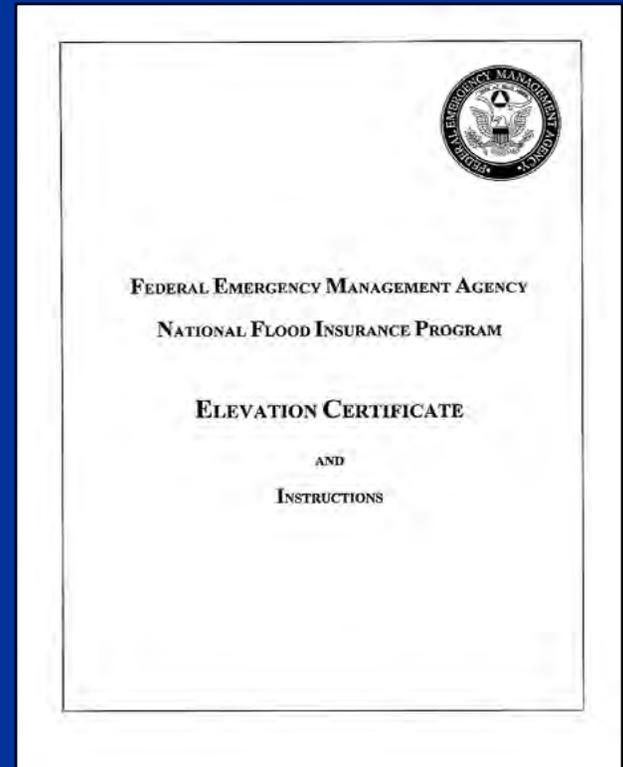


Post-FIRM Zone A - No Basement/Enclosure \$100,000 Bldg Coverage Estimated Annual Cost

<u>Elevation Difference</u>	<u>No Estimated BFE</u>	<u>Estimated BFE</u>
+5 feet or More	\$230	\$245
+2 to +4 feet	\$610	\$245
+1 feet	\$1,345	\$560
0	Submit for Rate	\$560

Elevation Certificate

- Rate a Flood Insurance Policy
- Assist a community's floodplain management program
- Support a FEMA Letter of Map Amendment application



Elevation Certificate *(cont.)*

U.S. DEPARTMENT OF HOMELAND SECURITY
Federal Emergency Management Agency
National Flood Insurance Program

ELEVATION CERTIFICATE

OMB No. 1660-0008
Expires February 28, 2009

Important: Read the instructions on pages 1-8.

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: NAD 1927 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 crawl space or enclosure(s), provide:

- a) Square footage of crawl space or enclosure(s) _____ sq ft
 b) No. of permanent flood openings in the crawl space or enclosure(s) walls within 1.0 foot above adjacent grade _____
 c) Total net area of flood openings in A8.b _____ sq in

A9. For a building with an attached garage, provide:

- a) Square footage of attached garage _____ sq ft
 b) No. of permanent flood openings in the attached garage walls within 1.0 foot above adjacent grade _____
 c) Total net area of flood openings in A9.b _____ sq in

SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number		B2. County Name		B3. State	
B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	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.

FIS Profile FIRM Community Determined Other (Describe) _____

B11. Indicate elevation datum used for BFE in Item B9: NGVD 1929 NAVD 1988 Other (Describe) _____

B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)?
 Designation Date _____ CBRS OPA Yes No

Elevation Certificate (cont.)

U.S. DEPARTMENT OF HOMELAND SECURITY
 Federal Emergency Management Agency
 National Flood Insurance Program

ELEVATION CERTIFICATE

OMB No. 1660-0008
 Expires February 28, 2009

Important: Read the instructions on pages 1-8.

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: NAD 1927 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 crawl space or enclosure(s), provide:

a) Square footage of crawl space or enclosure(s) _____ sq ft

b) No. of permanent flood openings in the crawl space or enclosure(s) walls within 1.0 foot above adjacent grade _____

c) Total net area of flood openings in A8.b _____ sq in

A9. For a building with an attached garage, provide:

a) Square footage of attached garage _____ sq ft

b) No. of permanent flood openings in the attached garage walls within 1.0 foot above adjacent grade _____

c) Total net area of flood openings in A9.b _____ sq in

SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number		B2. County Name		B3. State	
B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	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.

FIS Profile FIRM Community Determined Other (Describe) _____

B11. Indicate elevation datum used for BFE in Item B9: NGVD 1929 NAVD 1988 Other (Describe) _____

B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)?

Designation Date _____ CBRS OPA Yes No

Elevation Certificate *(cont.)*

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, crawl space, or enclosure) is _____ feet meters above or below the HAG.
- b) Top of bottom floor (including basement, crawl space, or enclosure) is _____ feet meters above or below the LAG.
- E2. For Building Diagrams 6-8 with permanent flood openings provided in Section A Items 8 and/or 9 (see page 8 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

Elevation Certificate *(cont.)*

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 _____

Local Official's Name _____ Title _____

Community Name _____ Telephone _____

Signature _____ Date _____

Comments _____

Check here if attachments

Letter of Map Amendment

A letter from FEMA stating an existing structure or parcel of land that has not been elevated by fill would not be inundated by the base flood.



Federal Emergency Management Agency
Washington, D.C. 20472

LETTER OF MAP AMENDMENT DETERMINATION DOCUMENT (REMOVAL)

COMMUNITY AND MAP PANEL INFORMATION		LEGAL PROPERTY DESCRIPTION
COMMUNITY	TOWN OF MIDDLETON, STRAFFORD COUNTY, NEW HAMPSHIRE	Lot 15-W, Sunrise Lake Lands, as described in the Deed recorded as Instrument No.035584, in Book 2872, Pages 0386 and 0387, in the Office of the Registry of Deeds, Strafford County, New Hampshire
	COMMUNITY NO.: 330222	
AFFECTED MAP PANEL	NUMBER: 33017C0110D	
	NAME: TOWN OF MIDDLETON, STRAFFORD COUNTY, NEW HAMPSHIRE	
	DATE: 5/17/2005	
FLOODING SOURCE: SUNRISE LAKE		APPROXIMATE LATITUDE & LONGITUDE OF PROPERTY: 43.455, -71.081 SOURCE OF LAT & LONG: PRECISION MAPPING STREETS 7.0 DATUM: NAD 83

DETERMINATION

LOT	BLOCK/SECTION	SUBDIVISION	STREET	OUTCOME WHAT IS REMOVED FROM THE SFHA	FLOOD ZONE	1% ANNUAL CHANCE FLOOD ELEVATION (NGVD 29)	LOWEST ADJACENT GRADE ELEVATION (NGVD 29)	LOWEST LOT ELEVATION (NGVD 29)
15-W	—	Sunrise Lake Lands	120 Lakeshore Drive	Structure (Residence)	C	667.2 feet	674.0 feet	—

Special Flood Hazard Area (SFHA) - The SFHA is an area that would be inundated by the flood having a 1-percent chance of being equaled or exceeded in any given year (base flood).

This document provides the Federal Emergency Management Agency's determination regarding a request for a Letter of Map Amendment for the property described above. Using the information submitted and the effective National Flood Insurance Program (NFIP) map, we have determined that the structure(s) on the property(ies) is/are not located in the SFHA, an area inundated by the flood having a 1-percent chance of being equaled or exceeded in any given year (base flood). This document amends the effective NFIP map to remove the subject property from the SFHA located on the effective NFIP map; therefore, the Federal mandatory flood insurance requirement does not apply. However, the lender has the option to continue the flood insurance requirement to protect its financial risk on the loan. A Preferred Risk Policy (PRP) is available for buildings located outside the SFHA. Information about the PRP and how one can apply is enclosed.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Assistance Center toll free at (877) 336-2627 (877-FEMA MAP) or by letter addressed to the Federal Emergency Management Agency, 3601 Eisenhower Avenue, Suite 130, Alexandria, VA 22304-6439.

Doug Bellomo, P.E., Chief
Hazard Identification Section, Mitigation Division
Emergency Preparedness and Response Directorate

Letter of Map Amendment (*cont.*)

- MT-EZ Application Form
 - Section A – Property Information
 - Section B – Elevation Data

- An Elevation Certificate can be submitted in lieu of Section B

MT-EZ

Amendments to National Flood Insurance Program Maps

Application Form for Single Residential Structure or Lot

FEMA Form 81-92 Series
September 2007



Letter of Map Amendment (cont.)

**U.S. DEPARTMENT OF HOMELAND SECURITY - FEDERAL EMERGENCY MANAGEMENT AGENCY
APPLICATION FORM FOR SINGLE RESIDENTIAL LOT OR STRUCTURE AMENDMENTS TO
NATIONAL FLOOD INSURANCE PROGRAM MAPS**

OMB NO. 1666-0637
Expires September 30, 2008

PAPERWORK REDUCTION ACT

Public reporting burden for this form is estimated to average 24 hours per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the needed data, and completing, reviewing, and submitting the form. You are not required to respond to this collection of information unless it bears a valid OMB control number as displayed in the upper right corner of this form. Send comments regarding this accuracy of the burden estimate and any suggestions for reducing the burden to: Information Collection Management, U.S. Department of Homeland Security, Federal Emergency Management Agency, 530 C Street, S.W., Washington DC 20472, Paperwork Reduction Project (1666-0637). Submission of this form is required to obtain or retain benefits under the National Flood Insurance Program.

This form should be used to request that the Department of Homeland Security's Federal Emergency Management Agency (FEMA) remove a single structure or legally recorded parcel of land or portions thereof, described by metes and bounds, certified by a registered professional engineer or licensed land surveyor, from a designated Special Flood Hazard Area (SFHA), an area that would be inundated by the flood having a 1% chance of being equaled or exceeded in any year (base flood), via Letter of Map Amendment (LOMA). It shall not be used for requests submitted by developers, for requests involving multiple structures or lots, for property in alluvial fan areas or coastal high hazard areas (V zones), or requests involving the placement of fill. (NOTE: Use MT-1 forms for such requests). Fill is defined as material from any source (including the subject property) placed that raises the grade to or above the Base Flood Elevation (BFE). The common construction practice of raising a wall above existing ground (topsoil) and building with board structural material is not considered the placement of fill if the practice does not raise the existing (natural grade) elevation, which is at or above the BFE. Also, fill that is placed before the date of the first National Flood Insurance Program (NFIP) map showing the area in an SFHA is considered natural grade.

LOMA:

A letter from DHS-FEMA stating that an existing structure or parcel of land that has not been elevated by fill would not be inundated by the base flood.

A - This section may be completed by the property owner or by the property owner's agent. In order to process your request, all information on this form must be completed in its entirety. Incomplete submissions may result in processing delays.

1. Has fill been placed on your property to raise ground that was previously below the BFE?

- No Yes - If Yes, STOP! - You must complete the MT-1 application form; visit <http://www.fema.gov/national-flood-insurance-program/loa> or call the FEMA Map Assistance Center toll free: (877-FEMA-MAP) (877-368-2627)

2. Legal description of Property (Lot, Block, Subdivision); complete description as it appears in the Deed (is not necessary) and street address of the Property:

3. Are you requesting that the flood zone designation be removed from (check one):

- Your entire legally recorded property?
 A portion of your legally recorded property? (A certified metes and bounds description and map of the area to be removed, certified by a registered professional engineer or licensed land surveyor are required. For the preferred format of metes and bounds descriptions, please refer to the MT-12 Instructions.)
 A structure on your property? What is the date of construction?

All documents submitted in support of this request are correct to the best of my knowledge. I understand that any false statements are punishable by fine or imprisonment under Title 18 of the United States Code, Section 1001.

Applicant's Name:	Email Address:
Mailing Address (include Company name if applicable):	Daytime Telephone No.:
	Fax No.:
Signature of Applicant (required):	Date:

B - This section must be completed by a registered professional engineer or licensed land surveyor.

NOTE: If the request is to remove the structure, and an Elevation Certificate has been completed for this property, it may be submitted in lieu of Section B. If the request is to remove the entire legally recorded property, or a portion thereof, the lowest elevation on the lot or described portion must be provided by Section B.

Applicable Regulations

The regulations pertaining to LOMAs are presented in the National Flood Insurance Program (NFIP) regulations under Code of Federal Regulations. The purpose of Part 70 is to provide an administrative procedure whereby DHS-FEMA will review information submitted by an owner or holder of property who desires that his or her property has been inadvertently included in a designated SFHA. The necessity of Part 70 is due in part to the technical difficulty of accurately delineating the SFHA boundary on an NFIP map. Part 70 procedures shall not apply if the topography has been altered to raise the original ground to or above the BFE, except the effective date of the first NFIP map (e.g., a Flood Insurance Rate Map (FIRM) or Flood Hazard Boundary Map (FHBM)) showing the property to be within the SFHA.

Basis of Determination

DHS-FEMA's determination as to whether a structure or legally recorded parcel of land, by portions thereof, described by metes and bounds, may be removed from the SFHA will be based upon a comparison of the Base (1%-annual-chance) Flood Elevation (BFE) with certain elevation elevations. For Zone A, with no BFE delineated, risk to Existing Structures Development in Approximate Zone A Areas, A Study for Existing and Developing Base (100-Year) Flood Elevations. The elevation information required is dependent on whether a structure, or a legally recorded parcel of land, is to be removed from the SFHA.

Area to be Removed from the SFHA (check one)

- | | |
|---|---|
| <input type="checkbox"/> Structure located on natural grade (LOMA) | Elevation Information Required (complete item 3) |
| <input type="checkbox"/> Legally recorded parcel of land, or portion thereof (LOMA) | Elevation of the lowest ground on the parcel or within the portion of land to be removed from the SFHA. |

1. PROPERTY DESCRIPTION (Lot and Block Number, Tax Parcel Number, Legal Description, etc.)			
2. BUILDING INFORMATION			
Building Street Address (including Apt. Unit, Suite, and/or Bldg. No.):			
What is the type of construction? (check one) <input type="checkbox"/> masonry <input type="checkbox"/> wood frame <input type="checkbox"/> steel <input type="checkbox"/> other (specify):			
3. GEOGRAPHIC COORDINATE DATA			
Please provide the Latitude and Longitude of the most upstream edge of the structure (in decimal degrees)			
Latitude Data:	<input type="checkbox"/> NAD83 <input type="checkbox"/> NAD83	Lat	Long
Please provide the Latitude and Longitude of the most upstream edge of the property (in decimal degrees)			
Latitude Data:	<input type="checkbox"/> NAD83 <input type="checkbox"/> NAD83	Lat	Long
4. FLOOD INSURANCE RATE MAP (FIRM) INFORMATION			
NFIP Community Number:	Map Sheet Number:	Base Flood Elevation (BFE):	Source of BFE:
5. ELEVATION INFORMATION (SURVEY REQUIRED)			
<input type="checkbox"/> Lowest Adjacent Grade (LAC) to the structure (to the nearest 0.1 foot or miller) <input type="checkbox"/> E (m) <input type="checkbox"/> Elevation of the lowest grade on the property, as metes and bounds area (to the nearest 0.1 foot or miller) <input type="checkbox"/> E (m) <input type="checkbox"/> Indicate the datum (and datum conversion if derived from NAVD 83 or NAD 83) <input type="checkbox"/> NAVD 83 <input type="checkbox"/> NAD 83 <input type="checkbox"/> Other (Describe) <input type="checkbox"/> Has FEMA identified this area as subject to land subsidence or uplift? <input type="checkbox"/> No <input type="checkbox"/> Yes (provide date of survey/recovery)			
This certification is to be signed and dated by a licensed land surveyor, registered professional engineer, or architect authorized by law to certify elevation information. All documents submitted in support of this request are correct to the best of my knowledge. I understand that any false statements are punishable by fine or imprisonment under Title 18 of the United States Code, Section 1001.			
Certifier's Name:	License No.:	Expiration Date:	Firm (required)
Company Name:	Telephone No.:	Fax No.:	
Signature:	Date:		

Letter of Map Amendment (cont.)

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-g below according to the building diagram specified in Item A7.

Benchmark Utilized _____ Vertical Datum _____

Conversion/Comments _____

Check the measurement used.

- | | | | |
|--|-------|-------------------------------|--|
| a) Top of bottom floor (including basement, crawl space, 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 in Comments) | _____ | <input type="checkbox"/> feet | <input type="checkbox"/> meters (Puerto Rico only) |
| f) Lowest adjacent (finished) grade (LAG) | _____ | <input type="checkbox"/> feet | <input type="checkbox"/> meters (Puerto Rico only) |
| g) Highest adjacent (finished) grade (HAG) | _____ | <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.

Certifier's Name _____ License Number _____

Title _____ Company Name _____

Address _____ City _____ State _____ ZIP Code _____

Signature _____ Date _____ Telephone _____



Submitting a LOMA without a BFE

- FEMA will determine the BFE in Zone A
- Additional survey data may be needed to make determination
- Vermont guidance on Surveying for a LOMA in "Zone A"



Questions?

Contact Information

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[www.nh.gov/oep/programs/
floodplainmanagement/](http://www.nh.gov/oep/programs/floodplainmanagement/)