



CITY OF TUALATIN
 1888o SW Martinazzi Ave
 Tualatin, OR 97062
 Phone: (503) 692-2000
 Fax: (503) 692-0147

**FLOOD HAZARD
 AREA DEVELOPMENT
 PERMIT: APPLICATION**

FHADP # _____

Project Number: _____

Project Name: _____

Project Address: _____

Project Tax Map Number: _____ Tax Lot Number(s): _____

Property Owner(s): _____

Property Owner's Address: _____

Property Owner's Phone Number: _____

Engineer's Name: _____

Engineer's Address: _____

Engineer's Phone Number: _____

Proposed development is in the: Floodplain and/or Floodway

Existing ground elevation at site: _____ Feet (based on FIRM datum)

FIRM date: _____

Base Flood Elevation at site: _____ Feet (from FEMA maps)

(If Base Flood Elevation is determined by historic data, attach references and documentation.)

Signature of Owner: _____ Date: _____

Special conditions of permit *(to be completed by City)*:

Permit issued by: _____ Date: _____

c: Address File, Building Official



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**FLOOD HAZARD
 AREA DEVELOPMENT:
 CHECKLIST**

Submit **three** copies of the proposed site plan showing the following (TDC 70.120):

✓	ITEMS TO BE SHOWN ON SITE PLAN
	Elevations on site before and after development
	Vicinity Map (scale of 1" = 400' or other suitable scale)
	Proposed project name
	Date and north point
	Names, widths, grades and curvature of all existing and proposed streets within and adjacent to the site
	All adjacent lots or parcels to the site
	All existing or proposed easements, and right-of-way within the site
	Section lines, corners, city limits or other monuments adjacent to the site
	Special purposes, such as open spaces, parks, etc.
	Contour lines and location of all water courses
	Natural features, such as marches, wooded areas, or isolated trees
	Proposed building and/or structures, and existing buildings and/or structures which are to remain
	Preliminary plans for water, sewer and drainage facilities and connections to existing lines
	Proposed cut and/or fill areas, and storage area of materials
	Elevation of the lower floor (including basement) of all structures
	Description of the extent to which any water course will be altered or relocated as a result of the proposed development

PRIOR TO ISSUANCE OF A BUILDING PERMIT, THE FOLLOWING MUST BE DONE:

1ST SURVEY Complete Sections A, B and D; submit copy to Engineering Division.

PRIOR TO A FRAMING INSPECTION, THE FOLLOWING MUST BE DONE:

2ND SURVEY Certification by a registered engineer or surveyor that the floor elevations are as required (see the FEMA Flood Elevation Certificate form which must be submitted to the City). Complete Sections C1, C2, and D; submit copy to Engineering Division.

PRIOR TO OCCUPANCY OF THE BUILDING, THE FOLLOWING MUST BE DONE:

3RD SURVEY Certification by a registered professional engineer or surveyor that all on-site grading conforms to the elevations shown on the site plan and certification of adjacent grades (see attached form which must be submitted to the City). Complete Section C1 and any remaining required information; submit original with wet seal to Engineering Division.



FEMA

US Department of Homeland Security
Region X
130 228th Street, SW
Bothell, WA 98021

Procedures for “No-Rise” Certification **For Proposed Developments in the Regulatory Floodway**

Section 60.3 (d) (3) of the National Flood Insurance Program (NFIP) regulations states that a community shall "prohibit encroachments, including fill, new construction, substantial improvements and other development within the adopted regulatory floodway unless it has been demonstrated through hydrologic and hydraulic analyses performed in accordance with standard engineering practice that the proposed encroachment would not result in any increase in flood levels within the community during the occurrence of the base (100-year) flood discharge."

Prior to issuing any building, grading or development permits involving activities in a regulatory floodway the community must obtain a certification stating the proposed development will not impact the pre-project base flood elevations, floodway elevations, or floodway data widths. The certification should be obtained from the applicant and be signed and sealed by a professional engineer.

The engineering or "no-rise" certification must be supported by technical data.

The supporting technical data should be based upon hydraulic analyses that utilize the same model used to prepare the effective Flood Insurance Study (FIS) report and Flood Insurance Rate Map (FIRM) unless it is demonstrated that the 'effective' hydraulic model is unavailable or its use is inappropriate. If an alternative hydraulic model is used, the new model must be calibrated to reproduce the FIS profiles within 0.5 feet. Hydraulic model used in the analysis must be on FEMA's accepted models list, or documentation must be provided showing the model meets the requirements of NFIP regulation 65.6(a)(6).

Although communities are required to review and approve the "no-rise" submittals, they may request, in writing, technical assistance and review from the FEMA regional office. However, if this alternative is chosen, the community must review the technical submittal package and verify that all supporting data, listed in the following paragraphs, are included in the package before forwarding to FEMA.

To support a "no-rise" certification for proposed developments encroaching into the regulatory floodway, a community will require that the following procedures be followed:

1. Current Effective Model: Submit a written request for the effective model for the specified stream and community, identifying the limits of the requested data. A fee will be assessed for providing the data. Data request forms and instructions can be obtained at:

<http://www.fema.gov/national-flood-insurance-program-flood-hazard-mapping/how-order-technical-administrative-support>

or by writing to:

FEMA Engineering Library
847 S. Pickett Street
Alexandria, VA 22304
Phone: 1-877-336-2627
Facsimile: 1-703-212-4090

2. Duplicate Effective Model: Upon receipt of the effective computer model, the engineer should run the original model to duplicate the output in the effective (FIS).
3. Corrected Effective Model: The model that corrects any errors that occur in the Duplicate Effective model, adds any additional cross sections, or incorporates more detailed topographic information than that used in the current effective model. Floodway limits should be manually set at the new cross-section locations by measuring from the effective FIRM or FBFM. The cumulative reach lengths of the stream should also remain unchanged. The Corrected Effective model must not reflect any man-made physical changes since the date of the effective model.
4. Existing, or Pre-Project Conditions Model: Revise the Duplicate Effective or the Corrected Effective model to reflect any modifications that have occurred within the floodplain since the date of the Effective model but prior to the construction of the project. If no modifications have occurred since the date of the effective model, then the model would be identical to the Duplicate Effective or Corrected Effective model. The results of this

Existing Conditions analysis will indicate the 100-yr elevations at the project site.

5. Proposed, or Post-Project Conditions Model: Modify the Existing Condition or Pre-Project Conditions Model (or Duplicate Effective model or Corrected Effective model, as appropriate) to reflect revised or post-project conditions. The overbank roughness coefficients should remain the same unless a reasonable explanation of how the proposed development will impact Manning's "n" values is included with the supporting data. The results of this analysis will indicate the 100-year elevation for proposed conditions at the project site. These results must indicate NO impact on the 100-year floodway elevations when compared to the Existing Conditions or Pre-Project Conditions model. If an increase results the project will require the submittal of a CLOMR prior to the start of the project.

The "no-rise" supporting data and a copy of the engineering certification must be submitted to and reviewed by the appropriate community official prior to issuing a permit.

The "no-rise" supporting data should include, but may not be limited to:

- 1) Copy of the Duplicate Effective model;
- 2) Copy of the Corrected Effective model;
- 3) Existing conditions, or Pre-Project conditions model
- 4) Proposed conditions or Post-Project conditions model.
- 5) FIRM and topographic map, showing floodplain and floodway, the additional cross-sections, the site location with the proposed topographic modification superimposed onto the maps, and a copy of the effective FIRM or FBFM showing the current regulatory floodway.
- 6) Documentation clearly stating analysis procedures. All modifications made to the original FIS model to represent revised existing conditions, as well as those made to the revised existing conditions model to represent proposed conditions, should be well documented and submitted with all supporting data.
- 7) Copy of effective Floodway Data Table copied from the (FIS) report.
- 8) Statement defining source of additional cross-section topographic data and supporting information.
- 9) Cross-section plots, of the added cross sections, for revised existing and proposed conditions.

- 10) Certified planimetric (boundary survey) information indicating the location of structures on the property.
- 11) Copy of the source from which input for original FIS model was taken.
- 12) CD with all input and output files.
- 13) Printout of output files from EDIT runs for all three floodway models.

The engineering "no-rise" certification and-supporting technical data must stipulate NO impact on the 100-year flood or floodway elevations at the new cross-sections and at all existing cross-sections anywhere in the model. Therefore, the revised computer model should be run for a sufficient distance (usually one mile, depending on hydraulic slope of the stream) upstream and downstream of the development site to insure proper "no-rise" certification.

Attached is a sample "no-rise" certification form that can be completed by a registered professional engineer and supplied to the community along with the supporting technical data when applying for a development permit.

ENGINEERING "NO-RISE" CERTIFICATION

This is to certify that I am a duly qualified engineer licensed to practice in the State of _____.

It is to further certify that the attached technical data supports the fact that proposed _____ will

(Name of Development)

not impact the 100-year flood elevations, floodway elevations and floodway widths on _____ at published sections

(Name of Stream)

in the Flood Insurance Study for _____,

(Name of Community)

dated _____ and will not impact the 100-year flood elevations, floodway elevations, and floodway widths at unpublished cross-sections in the vicinity of the proposed development.

Attached are the following documents that support my findings:

(Date) _____

(Signature)

(Title)

(Address)

(Seal)

SPECIAL CERTIFICATIONS

This section presents detailed instructions for the completion of the National Flood Insurance Program (NFIP) Elevation Certificate (EC) and the NFIP Floodproofing Certificates.

NOTE: When determining the lowest floor for rating, refer to the Lowest Floor Guide section of this manual.

I. NFIP ELEVATION CERTIFICATE

The EC is an important administrative tool of the NFIP. It is to be used to provide elevation information necessary to ensure compliance with community floodplain management ordinances, to determine the proper insurance premium rate, and to support a request for a Letter of Map Amendment (LOMA) or Letter of Map Revision based on Fill (LOMR-F).

The surveyor, engineer, architect, property owner, or owner's representative is required to provide the square footage of any crawlspace or enclosure(s) below the lowest elevated floor (including an attached garage) plus information about any permanent flood openings in the crawlspace or enclosure(s). When the EC is being submitted to obtain flood insurance through the NFIP, generally at least 2 photographs of the building must accompany it. This additional information will significantly enhance the agent's/producer's and company underwriter's ability to properly rate elevation-rated risks. Current photograph requirements, and exceptions to them, are described in Section II. below.

The revised NFIP EC form and instructions that will expire on November 30, 2018, replaces all previous editions. Non-NFIP elevation certification forms certified on or after October 1, 2000, do not satisfy NFIP requirements and cannot be used for rating policies.

When 2 or more ECs are submitted for the same building, use the EC with the latest certified date when rating the policy.

The EC is required on Post-FIRM and full-risk, elevation-rated Pre-FIRM buildings constructed in an SFHA, but is optional on Post-FIRM buildings constructed in a non-SFHA. For Post-FIRM buildings constructed in a non-SFHA and remapped to an SFHA and that are eligible for grandfathering or the Newly Mapped procedure, the insured has the option of obtaining an EC or continuing with the non-SFHA rates without an EC. The EC is required by the NFIP to certify the lowest floor elevation of a building so that the policy can be properly rated, as follows (also see the Lowest Floor Guide section in this manual):

- All Post-FIRM Buildings

The EC is to be completed by a land surveyor, an engineer, or an architect who is authorized by state or local law to certify elevation information when it is required for zones A1–A30, AE, AH, AO, A (with or without Base Flood Elevations [BFEs]), V1–V30, VE, and V (with BFEs). Community officials who are authorized by local law or ordinance to provide floodplain management information may also complete this form. For zones AO and A (without BFEs), a building official, a property owner, or an owner's representative may also provide the information on this certification. Building elevation information may be available through the community official if the community is a Community Rating System (CRS) participating community.

The lowest adjacent grade and diagram number are required for all new business applications effective on or after October 1, 1997, if the elevation certification date is on or after October 1, 1997.

- Pre-FIRM Buildings Rated Using Full-Risk Rates

Pre-FIRM buildings can be rated using full-risk rates if more favorable to the insured. The decision to obtain an EC and to request full-risk rating of a Pre-FIRM building eligible for subsidized premium rates is an option of the insured. Subsidized rates will continue to be used until the full-risk rates are more favorable. Subsidized premium rates will be phased out over time through annual premium increases. Once it is determined that full-risk rating will provide a lower premium, a policy may be endorsed for the current policy year only to obtain a lower rate.

- AR and AR Dual Zones

The EC is optional on all Post- and Pre-FIRM construction located in AR and AR Dual Zones. The decision to obtain an EC and to request Post-FIRM rating is at the discretion of the insured. The EC includes the AR and AR Dual Zone elevation requirements.

The agent/producer is to attach a copy of the completed and signed EC to the Application. The certifier's seal or license number must be legible on the copy of the EC. The agent/producer and the policyholder should retain a copy.

II. PHOTOGRAPH REQUIREMENTS

Generally, all new business applications for elevation-rated risks with a policy effective date of January 1, 2007, or later must be submitted with at least 2 photographs that show the front and back of the building and were taken and dated within 90 days of submission (not the certification date, if that date

was earlier). For buildings with flood openings (flood vents), 1 or more photographs must clearly show the openings. If the building is a split level or has multi-level areas at ground level, at least 2 additional photographs showing views of both sides of the building must be submitted.

When an agent/producer moves his or her book of business from 1 insurer to another, photographs are required.

When a Flood Insurance Application and an EC are submitted for a building in the course of construction, photographs are not required and proposed elevations will be used for rating. When the building is completed, a revised EC with required photographs and as-built elevations must be submitted for use in rating the policy.

These requirements also apply to all renewal and endorsement transactions adding elevation rating effective on or after January 1, 2007.

For the convenience of users, 2 Building Photographs pages are included with the EC and instructions. However, photographs may be attached to any sheet(s) of blank paper or business letterhead. All photographs must measure at least 3"× 3", provide a clear image of the building's distinguishing features, and include date taken. Analog or digital photographs are acceptable; color photographs are preferred.

An EC submitted without the required photographs is not considered valid for rating, unless the building is in the course of construction. Each Write Your Own (WYO) Company may use its current business practices in handling ECs without photographs, whether that is tentative rating, provisional rating, or rejection of the Application.

III. USING THE ELEVATION CERTIFICATE: SPECIAL CONSIDERATIONS

A. Section A – Property Information

- Section A of the EC includes the building use. This information is helpful in validating the data collected by the insurance agent/producer, and the Flood Insurance Application information.
- On the EC, latitude, longitude, and related information are optional only if the document is being certified by other than a licensed surveyor, engineer, or architect.
- If the EC is being used to obtain flood insurance, and the certification date is on or after January 1, 2007, the EC must be accompanied by at least 2 current photographs of the building. (See "II. Photograph Requirements.")
- For any crawlspace, enclosure(s), or attached garage, the EC collects square footage, number

of flood openings within 1.0 foot above the higher of the exterior or interior grade (adjacent) or floor immediately below the openings, and total area of flood openings in square inches. (A parking area located beneath an elevated floor is not considered an attached garage.)

The information found in Section A of the EC is critical, as it relates to the insured property. Should information be missing from Section A (except latitude, longitude, and related information), the certificate must be returned to the surveyor, engineer, architect, or community official who executed the form. These individuals should be encouraged to fully complete Section A to avoid any delay in the issuance of the flood insurance policy.

B. Section B – Flood Insurance Rate Map (FIRM) Information

The Flood Insurance Rate Map (FIRM) information includes the following:

- FIRM panel effective date and revision date;
- Source of the BFE or base flood depth;
NOTE: The same elevation datum should be used in determining all certification elevations as was used in determining the BFE (i.e., NGVD 1929 or NAVD 1988).
- Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA).
NOTE: Refer to the CBRS section of this manual for flood insurance coverage eligibility.

C. Section C – Building Elevation Information (Survey Required)

Responsibilities for building elevation information are as follows:

- The surveyor, engineer, or architect is required to provide a number of elevations based on the building type selected.
- From the elevations gathered, the insurance agent/producer is required to determine the lowest floor for rating flood insurance.

As it relates to Section C, information found not to be applicable to the property being certified should be marked N/A (not applicable) by the surveyor, engineer, or architect. If any part of Section C is left blank, critically review it and contact the surveyor, engineer, or architect who completed the form and your company underwriter with any questions.

Elevation(s) of machinery and equipment servicing the building (e.g., water heater, furnace, A/C compressor, heat pump, water pump) must be provided, regardless

of its location, whether inside or outside of the building, elevated on a platform, or non-elevated.

The surveyor, engineer, or architect may not be able to gain access to some crawlspaces to obtain the elevation of the crawlspace floor. In this instance, Item C2.a on the EC may be left blank and the estimated measurements entered in the Comments area of Section D.

Elevations in Section C are based on feet, except in Puerto Rico, where the metric system is used. The agent/producer must convert any metric elevation readings into feet before calculating the flood insurance premium.

D. Section D – Surveyor, Engineer, or Architect Certification

Section D is the surveyor's, engineer's, or architect's certification that the information provided in Sections A, B, and C is representative of the certifier's best efforts to interpret the data available. The surveyor's, engineer's, or architect's signature and identification number are required fields; some states also may require a seal.

E. Section E – Building Elevation Information (Survey Not Required) for Zone AO and Zone A (Without BFE)

The elevation differences between the lowest floor and the lowest adjacent grade and highest adjacent grade are required.

For Zone A (without a FEMA-issued or community-issued BFE) and Zone AO, a property owner or owner's authorized representative may complete Sections A, B, and E.

F. Section F – Property Owner (or Owner's Representative) Certification

Address and other contact information about the property owner are requested in Section F. The party completing Sections A, B, and E must execute Section F as well.

G. Section G – Community Information (Optional)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance may transfer elevation information found on existing documentation (i.e., an older Elevation Certification form, or surveyor letterhead) to Section C of the EC. The local official must then certify this information by fully completing Section G. A statement advising FEMA of this transfer of information must be made in the Comments area. Section G may also be used to certify Item E5.

IV. FLOODPROOFING CERTIFICATE

A. Purpose and Eligibility

- In certain circumstances, floodproofing may be permitted as an alternative to elevating to or above the BFE; however, a floodproofing design certification is required. Certified floodproofing may result in lower rates. Floodproofing credit cannot be applied to buildings under construction.
- Non-residential buildings in any community, in all locations except in V Zones, may be floodproofed in lieu of elevating.
- Residential buildings may be floodproofed only if they have basements, are located in zones A1–A30, AE, AR, AR Dual, AO, AH, and A with BFE, and only if they are located in communities specifically approved and authorized by FEMA. A current list of approved communities appears on pages CERT 5–6.
- The allowable methods of floodproofing for non-residential buildings differ from those allowed for residential buildings. The specific requirements should be available from the local government.

B. Specifications

The specifications for floodproofing ensure that the building is watertight, its floodproofed walls will not collapse, and the floor at the base of the floodproofed walls will resist flotation during flooding conditions. For residential buildings, the building must be watertight without human intervention.

C. Rating

In order to be eligible for lower rates, the insured must have a registered professional engineer or architect certify that the building has been floodproofed to at least 1 foot above the BFE.

This certification must be submitted with the Flood Insurance Application, and must be accompanied by at least 2 photographs. For non-residential buildings, the photographs must show the floodproofing measures in place.

NOTE: All non-residential floodproofed buildings must follow submit-for-rate procedures.

D. Certification

1. Residential Buildings (With Basements)

The Residential Basement Floodproofing Certificate is available for residential buildings with basements located in zones A1–A30, AE, AR, AR Dual, AO, AH, and A with BFE and located in a FEMA-approved community that is listed in

the table in this section. To receive credit for floodproofing, the completed certificate must be submitted. The Residential Floodproofing Rating Credit may be grandfathered for those residential buildings with a valid Residential Basement Floodproofing Certificate that were constructed between the effective date and rescission date, but not on or after the rescission date.

2. Non-Residential Buildings

A completed Floodproofing Certificate for Non-Residential Structures is required for all such buildings in Regular Program communities, located in zones A1–A30, AE, AR, AR Dual, AO, AH, and A with BFE, in order to receive credit for floodproofing. In order to ensure compliance and provide reasonable assurance that due diligence had been applied in designing and constructing floodproofing measures, the following information must be provided and submitted to FEMA through the NFIP Bureau and Statistical Agent:

- Completed Flood Insurance Application
- Completed Floodproofing Certificate
 - Photographs of shields, gates, barriers, or components designed to provide floodproofing protection to the structure
- Written certification from a licensed professional engineer that all portions of the structure below the BFE are made watertight or substantially impermeable to the passage of water and must perform in accordance with Title 44 Code of Federal Regulations (44 CFR 60.3 (c)(3))
- A comprehensive Maintenance Plan for the entire structure to include but not limited to:
 - Exterior envelope of structure
 - All penetrations to the exterior of the structure
 - All shields, gates, barriers, or components designed to provide floodproofing protection to the structure
 - All seals or gaskets for shields, gates, barriers, or components
 - Location of all shields, gates, barriers, and components as well as all associated hardware, and any materials or specialized tools necessary to seal the structure.

**APPROVED COMMUNITIES FOR RESIDENTIAL BASEMENT
FLOODPROOFING RATING CREDIT**

COMMUNITY NUMBER	STATE/ COMMUNITY NAME	EFFECTIVE DATE¹	STATUS²
	Alaska		
025009	Fairbanks N. Star Borough	2/28/73	Current
	Idaho		
160028	Ammon, City of	6/8/90	Current
	Iowa		
190488	Clive, City of	4/24/81	Current
190031	Independence, City of	9/7/89	Current
190309	La Porte City, City of	6/12/89	Current
	Kansas		
200484	Colwich, City of	1/17/86	Current
200323	Derby, City of	2/15/83 ³	Current
200019	Great Bend, City of	8/10/83	Current
200131	Halstead, City of	7/8/83	Current
200215	Lindsborg, City of	11/7/94	Current
200334	Rossville, City of	2/18/92	Current
200319	Salina, City of	3/6/86	Current
200316	Saline County	1/14/86	Current
200134	Sedgwick, City of	5/19/86 ³	Current
	Minnesota		
270267	Alvarado, City of	2/28/85	Current
275235	Clay County	3/28/75	Current
270080	Dilworth, City of	8/29/83	Current
275236	East Grand Forks, City of	5/15/86 ³	Current
275244	Moorhead, City of	2/12/76	Current
270414	Roseau, City of	7/14/92	Current
270273	Stephen, City of	5/10/83	Current
270274	Warren, City of	9/24/82	Current
	Nebraska		
310069	Fremont, City of	1/25/79	Current
310103	Grand Island, City of	7/29/80	Current
310100	Hall County	2/10/80	Current
310001	Hastings, City of	7/8/83	Current
310239	North Bend, City of	10/15/98	Rescinded 11/1/08
310046	Schuyler, City of	9/17/91	Current
310039	Sidney, City of	12/4/84	Current
310104	Wood River, City of	1/12/82	Current
	New York		
360226	Amherst, Town of	11/20/78	Current
360232	Clarence, Town of	8/1/00	Current

1 Effective date corresponds to the date of the letter from FEMA that granted the community's exception request.

2 The Residential Floodproofing Rating Credit may be grandfathered for those residential buildings with a valid Residential Basement Floodproofing Certificate that were constructed between the effective date and rescission date, but not on or after the rescission date.

3 The date the community adopted floodproofing ordinances.

**APPROVED COMMUNITIES FOR RESIDENTIAL BASEMENT
FLOODPROOFING RATING CREDIT** *continued*

COMMUNITY NUMBER	STATE/ COMMUNITY NAME	EFFECTIVE DATE¹	STATUS²
North Dakota			
380256	Barnes, Township of	1/22/82	Current
380020	Casselton, City of	6/18/81	Current
385364	Fargo, City of	3/26/75 ³	Current
380137	Grafton, City of	5/21/81	Current
380338	Harwood, City of	12/19/85	Current
380259	Harwood, Township of	1/22/82	Current
380022	Horace, City of	1/22/82	Current
380023	Mapleton, City of	1/22/82 ³	Current
380681	Oxbow, City of	6/1/92 ³	Current
380263	Pleasant, Township of	5/5/83	Current
380257	Reed, Township of	1/22/82	Current
380324	Reiles Acres, City of	8/23/82	Current
380258	Stanley, Township of	2/8/82	Current
380024	West Fargo, City of	6/5/78	Current
South Dakota			
460044	Madison, City of	8/30/83	Current
Wisconsin			
550612	Allouez, Village of	1/11/93 ³	Current
550600	Ashwaubenon, Village of	10/27/78	Current
550020	Brown County	2/21/79 ³	Current
550021	Depere, City of	10/27/78	Current
550022	Green Bay, City of	10/27/78	Current
550023	Howard, Village of	10/27/78	Current
550309	Shiocton, Village of	8/1/98	Current

1 Effective date corresponds to the date of the letter from FEMA that granted the community's exception request.

2 The Residential Floodproofing Rating Credit may be grandfathered for those residential buildings with a valid Residential Basement Floodproofing Certificate that were constructed between the effective date and rescission date, but not on or after the rescission date.

3 The date the community adopted floodproofing ordinances.

**RESIDENTIAL BASEMENT
 FLOODPROOFING CERTIFICATE**

OMB No. 1660-0033
 Expiration Date: November 30, 2016

For use ONLY in communities that have been granted an exception by FEMA to allow the construction of floodproofed residential basements in Special Flood Hazard Areas.

BUILDING OWNER'S NAME	FOR INSURANCE COMPANY USE
STREET ADDRESS (Including Apt., Unit Number)	
OTHER DESCRIPTION (Lot and Block Numbers, etc.)	
CITY	STATE ZIP CODE

SECTION I – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

Provide the following from the FIRM and flood profile (from Flood Insurance Study)

COMMUNITY NUMBER	PANEL NUMBER	SUFFIX	DATE OF FIRM	ZONE	BASE FLOOD ELEVATION (In AO Zones, Use Depth)	NAME OF FLOODING SOURCE(S) AFFECTING BUILDING
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Indicate elevation datum used for Base Flood Elevation shown above: NGVD 1929 NAVD 1988 Other/Source: _____

SECTION II – FLOODPROOFING INFORMATION (By a Registered Professional Engineer or Architect)

Elevations are based on: Construction Drawings Building Under Construction Finished Construction

Floodproofing Design Elevation Information for Zones A1-30, AE, AH, AO:

Building is floodproofed to an elevation of ____ . ____ feet. (In Puerto Rico only: ____ . ____ meters)
 (Elevation datum used must be the same as that on the FIRM.)

Elevation of the top of the basement floor is ____ . ____ feet. (In Puerto Rico only: ____ . ____ meters)

Lowest adjacent (finished) grade next to the building (LAG): ____ . ____ feet (In Puerto Rico only: ____ . ____ meters)

Highest adjacent (finished) grade next to the building (HAG): ____ . ____ feet (In Puerto Rico only: ____ . ____ meters)

Indicate elevation datum used for Section II: NGVD 1929 NAVD 1988 Other/Source: _____

(NOTE: For insurance rating purposes, the building's floodproofed design elevation must be at least 1 foot above the Base Flood Elevation to receive rating credit. If the building is floodproofed only to the Base Flood Elevation, then the building's insurance rating will result in a higher premium.)

SECTION III – CERTIFICATION (By a Registered Professional Engineer or Architect)

Residential Floodproofed Basement Construction Certification:

I certify that, based upon development and/or review of structural design specifications, and plans for construction, including consideration of the depth, velocity, and duration of flooding and the type and permeability of soils at the site, the design and methods of construction of the floodproofed basement to be used are in accordance with accepted standards of practice for meeting the following provisions:

- Basement area, together with attendant utilities and sanitary facilities, is watertight to the floodproofing design elevation with walls that are impermeable to the passage of water without human intervention; and
- Basement walls and floor are capable of resisting hydrostatic and hydrodynamic loads and the effects of buoyancy resulting from flooding to the floodproofing design elevation; and have been designed so that minimal damage will occur from floods that exceed the floodproofing design elevation; and
- Building design, including the floodproofing design elevation, complies with community requirements.

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.

CERTIFIER'S NAME	LICENSE NUMBER (or Affix Seal)		
TITLE	COMPANY NAME		
ADDRESS	CITY	STATE	ZIP
SIGNATURE	PHONE NO.	DATE	

Copies of this certificate must be given to: 1) the community official; 2) the insurance agent; and 3) the building owner.

RESIDENTIAL BASEMENT FLOODPROOFING CERTIFICATE

FEMA Form 086-0-24

Paperwork Reduction Act Notice

GENERAL

This information is provided pursuant to Public Law 96-511 (the Paperwork Reduction Act of 1980, as amended), dated December 11, 1980, to allow the public to participate more fully and meaningfully in the Federal paperwork review process.

AUTHORITY

Public Law 96-511, amended; 44 U.S.C. 3507; and 5 CFR 1320.

PAPERWORK BURDEN DISCLOSURE NOTICE

Public reporting burden for this form is estimated to average 3.25 hours per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and submitting the form. This collection of information is required to obtain or retain benefits. You are not required to respond to this collection of information unless a valid OMB control number is displayed in the upper right corner of this form. Send comments regarding the accuracy of the burden estimate and any suggestions for reducing the burden to: Information Collections Management, Department of Homeland Security, Federal Emergency Management Agency, 1800 South Bell Street, Arlington VA 20598-3005, Paperwork Reduction Project (1660-0033).

NOTE: Do not send your completed form to this address.

Privacy Act Statement

AUTHORITY

Title 44 CFR § 61.7 and 61.8.

PRINCIPAL PURPOSE(S)

This information is being collected for the primary purpose of estimate the risk premium rates necessary to provide flood insurance for new or substantially improved structures in designated Special Flood Hazard Areas.

ROUTINE USE(S)

The information on this form may be disclosed as generally permitted under 5 U.S.C. § 552a(b) of the Privacy Act of 1974, as amended. This includes using this information as necessary and authorized by the routine uses published in DHS/FEMA-003 – National Flood Insurance Program Files System or Records Notice 73 Fed. Reg. 77747 (December 19, 2008); DHS/FEMA/NFIP/LOMA-1 – National Flood Insurance Program (NFIP) Letter of Map Amendment (LOMA) System of Records Notice 71 Fed. Reg. 7990 (February 15, 2006); and upon written request, written consent, by agreement, or as required by law.

DISCLOSURE

The disclosure of information on this form is voluntary; however, failure to provide the information requested may result in the inability to obtain flood insurance through the National Flood Insurance Program or may be subject to higher premium rates for flood insurance. Information will only be released as permitted by law.

U.S. DEPARTMENT OF HOMELAND SECURITY
FEDERAL EMERGENCY MANAGEMENT AGENCY
NATIONAL FLOOD INSURANCE PROGRAM
**FLOODPROOFING CERTIFICATE
FOR NON-RESIDENTIAL STRUCTURES**

OMB Control Number. 1660-0008
Expiration: 11/30/2018

Paperwork Burden Disclosure Notice

Public reporting burden for this data collection is estimated to average 3.25 hours per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and submitting this form. You are not required to respond to this collection of information unless a valid OMB control number is displayed on this form. Send comments regarding the accuracy of the burden estimate and any suggestions for reducing the burden to: Information Collections Management, Department of Homeland Security, Federal Emergency Management Agency, 1800 South Bell Street, Arlington, VA 20598-3005, Paperwork Reduction Project (1660-0008). **NOTE: Do not send your completed form to this address.**

General: This information is provided pursuant to Public Law 96-511 (the Paperwork Reduction Act of 1980, as amended), dated December 11, 1980, to allow the public to participate more fully and meaningfully in the Federal paperwork review process.

Authority: Public Law 96-511, amended; 44 U.S.C. 3507; and 5 CFR 1320.

Privacy Act Statement

Authority: Title 44 CFR § 61.7 and 61.8.

Principal Purpose(s): This information is being collected for the primary purpose of estimating the risk premium rates necessary to provide flood insurance for new or substantially improved structures in designated Special Flood Hazard Areas.

Routine Use(s): The information on this form may be disclosed as generally permitted under 5 U.S.C. § 552a(b) of the Privacy Act of 1974, as amended. This includes using this information as necessary and authorized by the routine uses published in DHS/FEMA-003 – National Flood Insurance Program Files System or Records Notice 73 Fed. Reg. 77747 (December 19, 2008); DHS/FEMA/NFIP/LOMA-1 – National Flood Insurance Program (NFIP) Letter of Map Amendment (LOMA) System of Records Notice 71 Fed. Reg. 7990 (February 15, 2006); and upon written request, written consent, by agreement, or as required by law.

Disclosure: The disclosure of information on this form is voluntary; however, failure to provide the information requested may result in the inability to obtain flood insurance through the National Flood Insurance Program or being subject to higher premium rates for flood insurance. Information will only be released as permitted by law.

**Purpose of the Floodproofing Certificate
for Non-Residential Structures**

Under the National Flood Insurance Program (NFIP), the floodproofing of non-residential buildings may be permitted as an alternative to elevating to or above the Base Flood Elevation (BFE). A floodproofing design certification is required for non-residential structures that are floodproofed. This form is to be used for that certification.

A floodproofed building is a building that has been designed and constructed to be watertight (substantially impermeable to floodwaters) below the BFE and with structural components having the capability of resisting hydrostatic and hydrodynamic loads and effects of buoyancy. Before a floodproofed building is designed, numerous planning considerations, including flood warning time, uses of the building, mode of entry to and exit from the building and the site in general, floodwater velocities, flood depths, debris impact potential, and flood frequency, must be addressed to ensure that dry floodproofing will be a viable floodplain management measure.

The minimum NFIP requirement is to floodproof a building to the BFE. However, when it is rated for flood insurance one-foot is subtracted from the floodproofed elevation. Therefore, a building has to be floodproofed to one foot above the BFE to receive the same favorable flood insurance rates as a building elevated to the BFE.

Additional guidance can be found in FEMA Publication 936, Floodproofing Non-Residential Buildings (2013), available on FEMA's website at <https://www.fema.gov/media-library/assets/documents/34270>.

U.S. DEPARTMENT OF HOMELAND SECURITY
 FEDERAL EMERGENCY MANAGEMENT AGENCY
National Flood Insurance Program
**FLOODPROOFING CERTIFICATE
 FOR NON-RESIDENTIAL STRUCTURES**

OMB Control Number: 1660-0008
 Expiration: 11/30/2018

The floodproofing of non-residential buildings may be permitted as an alternative to elevating to or above the Base Flood Elevation; however, a floodproofing design certification is required. This form is to be used for that certification. Floodproofing of a residential building does not alter a community's floodplain management elevation requirements or affect the insurance rating unless the community has been issued an exception by FEMA to allow floodproofed residential basements. The permitting of a floodproofed residential basement requires a separate certification specifying that the design complies with the local floodplain management ordinance.

BUILDING OWNER'S NAME			FOR INSURANCE COMPANY USE		
BUILDING STREET ADDRESS (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.					
OTHER DESCRIPTION (Lot and Block Numbers, etc.)			COMPANY NAIC NUMBER		
CITY	STATE	Zip Code			

SECTION I – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

Provide the following from the proper FIRM:

COMMUNITY NUMBER	PANEL NUMBER	SUFFIX	DATE OF FIRM INDEX	FIRM ZONE	BASE FLOOD ELEVATION (in AO Zones, Use Depth)

Indicate elevation datum used for Base Flood Elevation shown above: NGVD 1929 NAVD 1988 Other/Source: _____

SECTION II – FLOODPROOFED ELEVATION CERTIFICATION (By a Registered Professional Land Surveyor, Engineer, or Architect)

All elevations must be based on finished construction.

Floodproofing Elevation Information:

Building is floodproofed to an elevation of _____ . _____ feet (In Puerto Rico only: _____ . _____ meters).

NGVD 1929 NAVD 1988 Other/Source: _____

(Elevation datum used must be the same as that used for the Base Flood Elevation.)

Height of floodproofing on the building above the lowest adjacent grade is _____ feet (In Puerto Rico only: _____ meters).

For Unnumbered A Zones Only:

Highest adjacent (finished) grade next to the building (HAG) _____ . _____ feet (In Puerto Rico only: _____ . _____ meters).

NGVD 1929 NAVD 1988 Other/Source: _____

(NOTE: For insurance rating purposes, the building's floodproofed design elevation must be at least 1 foot above the Base Flood Elevation to receive rating credit. If the building is floodproofed only to the Base Flood Elevation, then the building's insurance rating will result in a higher premium. See the Instructions section for information on documentation that must accompany this certificate if being submitted for flood insurance rating purposes.)

**FLOODPROOFING CERTIFICATE
FOR NON-RESIDENTIAL STRUCTURES (Continued)**

OMB Control Number: 1660-0008
Expiration: 11/30/2018

IMPORTANT: In these spaces, copy the corresponding information from page 2.			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 II – FLOODPROOFED ELEVATION CERTIFICATION Continued

Non-Residential Floodproofed Elevation Information Certification:

Section II 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 in Section II on this Certificate represents a true and accurate interpretation and determination by the undersigned using the available information and data. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.

CERTIFIER'S NAME	LICENSE NUMBER (or Affix Seal)			PLACE SEAL HERE
TITLE	COMPANY NAME			
ADDRESS	CITY	STATE	ZIP CODE	
SIGNATURE	DATE	PHONE		

SECTION III – FLOODPROOFED CERTIFICATION (By a Registered Professional Engineer or Architect)

Non-Residential Floodproofed Construction Certification:

I certify the structure, based upon development and/or review of the design, specifications, as-built drawings for construction and physical inspection, has been designed and constructed in accordance with the accepted standards of practice (ASCE 24-05, ASCE 24-14 or their equivalent) and any alterations also meet those standards and the following provisions.

The structure, together with attendant utilities and sanitary facilities is watertight to the floodproofed design elevation indicated above, is substantially impermeable to the passage of water, and shall perform in accordance with Title 44 Code of Federal Regulations (44 CFR 60.3(c)(3)).

All structural components are capable of resisting hydrostatic and hydrodynamic flood forces, including the effects of buoyancy, and anticipated debris impact forces.

I certify that the information in Section III on this certificate represents a true and accurate determination by the undersigned using the available information and data. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.

CERTIFIER'S NAME	LICENSE NUMBER (or Affix Seal)			PLACE SEAL HERE
TITLE	COMPANY NAME			
ADDRESS	CITY	STATE	ZIP CODE	
SIGNATURE	DATE	PHONE		

Copy all pages of this Floodproofing Certificate and all attachments for 1) community official, 2) insurance agent/company, and 3) building owner.

FLOODPROOFING CERTIFICATE FOR NON-RESIDENTIAL STRUCTURES (Continued)

Instructions for Completing the Floodproofing Certificate for Non-Residential Structures

To receive credit for floodproofing, a completed Floodproofing Certificate for Non-Residential Structures is required for non-residential and business buildings in the Regular Program communities, located in zones A1–A30, AE, AR, AR Dual, AO, AH, and A with BFE.

In order to ensure compliance and provide reasonable assurance that due diligence had been applied in designing and constructing floodproofing measures, the following information must be provided with the completed Floodproofing Certificate:

- Photographs of shields, gates, barriers, or components designed to provide floodproofing protection to the structure
- Written certification from a licensed professional engineer that all portions of the structure below the BFE are made watertight or substantially impermeable to the passage of water and must perform in accordance with Title 44 Code of Federal Regulations (44 CFR 60.3 (c)(3))
- A comprehensive Maintenance Plan for the entire structure to include but not limited to:
 - Exterior envelope of the structure
 - All penetrations to the exterior of the structure
 - All shields, gates, barriers, or components designed to provide floodproofing protection to the structure
 - All seals or gaskets for shields, gates, barriers, or components
 - Location of all shields, gates, barriers, and components as well as all associated hardware, and any materials or specialized tools necessary to seal the structure.



FEMA

National Flood Insurance Program

ELEVATION CERTIFICATE

AND

INSTRUCTIONS

U.S. DEPARTMENT OF HOMELAND SECURITY
FEDERAL EMERGENCY MANAGEMENT AGENCY
**NATIONAL FLOOD INSURANCE PROGRAM
ELEVATION CERTIFICATE AND INSTRUCTIONS**

OMB Control Number: 1660-0008
Expiration: 11/30/2018

Paperwork Reduction Act Notice

Public reporting burden for this data collection is estimated to average 3.75 hours per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and submitting this form. You are not required to respond to this collection of information unless a valid OMB control number is displayed on this form. Send comments regarding the accuracy of the burden estimate and any suggestions for reducing the burden to: Information Collections Management, Department of Homeland Security, Federal Emergency Management Agency, 1800 South Bell Street, Arlington, VA 20598-3005, Paperwork Reduction Project (1660-0008). **NOTE: Do not send your completed form to this address.**

Privacy Act Statement

Authority: Title 44 CFR § 61.7 and 61.8.

Principal Purpose(s): This information is being collected for the primary purpose of estimating the risk premium rates necessary to provide flood insurance for new or substantially improved structures in designated Special Flood Hazard Areas.

Routine Use(s): The information on this form may be disclosed as generally permitted under 5 U.S.C. § 552a(b) of the Privacy Act of 1974, as amended. This includes using this information as necessary and authorized by the routine uses published in DHS/FEMA-003 - National Flood Insurance Program Files System or Records Notice 73 Fed. Reg. 77747 (December 19, 2008); DHS/FEMA/NFIP/LOMA-1 - National Flood Insurance Program (NFIP) Letter of Map Amendment (LOMA) System of Records Notice 71 Fed. Reg. 7990 (February 15, 2006); and upon written request, written consent, by agreement, or as required by law.

Disclosure: The disclosure of information on this form is voluntary; however, failure to provide the information requested may result in the inability to obtain flood insurance through the National Flood Insurance Program or the applicant may be subject to higher premium rates for flood insurance. Information will only be released as permitted by law.

Purpose of the Elevation Certificate

The Elevation Certificate is an important administrative tool of the National Flood Insurance Program (NFIP). It is to be used to provide elevation information necessary to ensure compliance with community floodplain management ordinances, to determine the proper insurance premium rate, and to support a request for a Letter of Map Amendment (LOMA) or Letter of Map Revision based on fill (LOMR-F).

The Elevation Certificate is required in order to properly rate Post-FIRM buildings, which are buildings constructed after publication of the Flood Insurance Rate Map (FIRM), located in flood insurance Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, and AR/AO. The Elevation Certificate is not required for Pre-FIRM buildings unless the building is being rated under the optional Post-FIRM flood insurance rules.

As part of the agreement for making flood insurance available in a community, the NFIP requires the community to adopt floodplain management regulations that specify minimum requirements for reducing flood losses. One such requirement is for the community to obtain the elevation of the lowest floor (including basement) of all new and substantially improved buildings, and maintain a record of such information. The Elevation Certificate provides a way for a community to document compliance with the community's floodplain management ordinance.

Use of this certificate does not provide a waiver of the flood insurance purchase requirement. Only a LOMA or LOMR-F from the Federal Emergency Management Agency (FEMA) can amend the FIRM and remove the Federal mandate for a lending institution to require the purchase of flood insurance. However, the lending institution has the option of requiring flood insurance even if a LOMA/LOMR-F has been issued by FEMA. The Elevation Certificate may be used to support a LOMA or LOMR-F request. Lowest floor and lowest adjacent grade elevations certified by a surveyor or engineer will be required if the certificate is used to support a LOMA or LOMR-F request. A LOMA or LOMR-F request must be submitted with either a completed FEMA MT-EZ or MT-1 package, whichever is appropriate.

This certificate is used only to certify building elevations. A separate certificate is required for floodproofing. Under the NFIP, non-residential buildings can be floodproofed up to or above the Base Flood Elevation (BFE). A floodproofed building is a building that has been designed and constructed to be watertight (substantially impermeable to floodwaters) below the BFE. Floodproofing of residential buildings is not permitted under the NFIP unless FEMA has granted the community an exception for residential floodproofed basements. The community must adopt standards for design and construction of floodproofed basements before FEMA will grant a basement exception. For both floodproofed non-residential buildings and residential floodproofed basements in communities that have been granted an exception by FEMA, a floodproofing certificate is required.

Additional guidance can be found in FEMA Publication 467-1, Floodplain Management Bulletin: Elevation Certificate, available on FEMA's website at <https://www.fema.gov/media-library/assets/documents/3539?d=1727>.

U.S. DEPARTMENT OF HOMELAND SECURITY
 FEDERAL EMERGENCY MANAGEMENT AGENCY
 National Flood Insurance Program

ELEVATION CERTIFICATE

IMPORTANT: FOLLOW THE INSTRUCTIONS ON PAGES 8-15

OMB Control Number: 1660-0008
 Expiration: 11/30/2018

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

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="radio"/> NAD 1927 <input type="radio"/> 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		b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade _____		a) Square footage of attached garage _____ sq ft		b) Number 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		d) Engineered flood openings? <input type="radio"/> Yes <input type="radio"/> No		c) Total net area of flood openings in A9.b _____ sq in		d) Engineered flood openings? <input type="radio"/> Yes <input type="radio"/> No
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: <input type="radio"/> FIS Profile <input type="radio"/> FIRM <input type="radio"/> Community Determined <input type="radio"/> Other/Source: _____						
B11. Indicate elevation datum used for BFE in Item B9: <input type="radio"/> NGVD 1929 <input type="radio"/> NAVD 1988 <input type="radio"/> Other/Source: _____						
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? <input type="radio"/> Yes <input type="radio"/> No Designation Date: <input type="radio"/> CBRS <input type="radio"/> OPA						
SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)						
C1. Building elevations are based on: <input type="radio"/> Construction Drawings* <input type="radio"/> Building Under Construction* <input type="radio"/> 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. In Puerto Rico only, enter meters.						
Benchmark Utilized: _____ Vertical Datum: _____						
Indicate elevation datum used for the elevations in items a) through h) below. <input type="radio"/> NGVD 1929 <input type="radio"/> NAVD 1988 <input type="radio"/> Other/Source: _____						
Datum used for building elevations must be the same as that used for the BFE.				Check the measurement used.		
a) Top of bottom floor (including basement, crawlspace, or enclosure floor)	_____ . _____			<input type="radio"/> feet	<input type="radio"/> meters	
b) Top of the next higher floor	_____ . _____			<input type="radio"/> feet	<input type="radio"/> meters	
c) Bottom of the lowest horizontal structural member (V Zones only)	_____ . _____			<input type="radio"/> feet	<input type="radio"/> meters	
d) Attached garage (top of slab)	_____ . _____			<input type="radio"/> feet	<input type="radio"/> meters	
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)	_____ . _____			<input type="radio"/> feet	<input type="radio"/> meters	
f) Lowest adjacent (finished) grade next to building (LAG)	_____ . _____			<input type="radio"/> feet	<input type="radio"/> meters	
g) Highest adjacent (finished) grade next to building (HAG)	_____ . _____			<input type="radio"/> feet	<input type="radio"/> meters	
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support	_____ . _____			<input type="radio"/> feet	<input type="radio"/> meters	

ELEVATION CERTIFICATE, page 2

OMB Control Number: 1660-0008
Expiration: 11/30/2018

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

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 attachments. 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	

PLACE
SEAL
HERE

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

Comments (including type of equipment and location, per C2(e), if applicable)

Signature _____ Date _____

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 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 or Owner's Authorized Representative's Name _____

Address _____ City _____ State _____ ZIP Code _____

Signature _____ Date _____ Telephone _____

Comments _____

Check here if attachments.

ELEVATION CERTIFICATE, page 3

OMB Control Number: 1660-0008
Expiration: 11/30/2018

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 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-G10. In Puerto Rico only, enter meters.

- 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-G10) 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 Datum _____

G9. BFE or (in Zone AO) depth of flooding at the building site: _____ . _____ feet meters Datum _____

G10. Community's design flood elevation: _____ . _____ feet meters Datum _____

Local Official's Name	Title
-----------------------	-------

Community Name	Telephone
----------------	-----------

Signature	Date
-----------	------

Comments (including type of equipment and location, per C2(e), if applicable)

Check here if attachments.

BUILDING PHOTOGRAPHS

See instructions for Item A6.

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:

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 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." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8. If submitting more photographs than will fit on this page, use the Continuation Page.

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:

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." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8.

Instructions for Completing the Elevation Certificate

The Elevation Certificate is to be completed by a land surveyor, engineer, or architect who is authorized by law to certify elevation information when elevation information is required for Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, or AR/AO. Community officials who are authorized by law or ordinance to provide floodplain management information may also complete this form. For Zones AO and A (without BFE), a community official, a property owner, or an owner's representative may provide information on this certificate, unless the elevations are intended for use in supporting a request for a LOMA or LOMR-F. Certified elevations must be included if the purpose of completing the Elevation Certificate is to obtain a LOMA or LOMR-F.

The property owner, the owner's representative, or local official who is authorized by law to administer the community floodplain ordinance can complete Section A and Section B. The partially completed form can then be given to the land surveyor, engineer, or architect to complete Section C. The land surveyor, engineer, or architect should verify the information provided by the property owner or owner's representative to ensure that this certificate is complete.

In Puerto Rico only, elevations for building information and flood hazard information may be entered in meters.

SECTION A - PROPERTY INFORMATION

Items A1-A4. This section identifies the building, its location, and its owner. Enter the name(s) of the building owner(s), the building's complete street address, and the lot and block numbers. If the building's address is different from the owner's address, enter the address of the building being certified. If the address is a rural route or a Post Office box number, enter the lot and block numbers, the tax parcel number, the legal description, or an abbreviated location description based on distance and direction from a fixed point of reference. For the purposes of this certificate, "building" means both a building and a manufactured (mobile) home.

A map may be attached to this certificate to show the location of the building on the property. A tax map, FIRM, or detailed community map is appropriate. If no map is available, provide a sketch of the property location, and the location of the building on the property. Include appropriate landmarks such as nearby roads, intersections, and bodies of water. For building use, indicate whether the building is residential, non-residential, an addition to an existing residential or non-residential building, an accessory building (e.g., garage), or other type of structure. Use the Comments area of the appropriate section if needed, or attach additional comments.

Item A5. Provide latitude and longitude coordinates for the center of the front of the building. Use either decimal degrees (e.g., 39.5043°, -110.7585°) or degrees, minutes, seconds (e.g., 39° 30' 15.5", -110° 45' 30.7") format. If decimal degrees are used, provide coordinates to at least 5 decimal places or better. When using degrees, minutes, seconds, provide seconds to at least 1 decimal place or better. The latitude and longitude coordinates must be accurate within 66 feet. When the latitude and longitude are provided by a surveyor, check the "Yes" box in Section D and indicate the method used to determine the latitude and longitude in the Comments area of Section D. If the Elevation Certificate is being certified by other than a licensed surveyor, engineer, or architect, this information is not required. Provide the type of datum used to obtain the latitude and longitude. FEMA prefers the use of NAD 1983.

Item A6. If the Elevation Certificate is being used to obtain flood insurance through the NFIP, the certifier must provide at least 2 photographs showing the front and rear of the building taken within 90 days from the date of certification. The photographs must be taken with views confirming the building description and diagram number provided in Section A. To the extent possible, these photographs should show the entire building including foundation. If the building has split-level or multi-level areas, provide at least 2 additional photographs showing side views of the building. In addition, when applicable, provide a photograph of the foundation showing a representative example of the flood openings or vents. All photographs must be in color and measure at least 3" x 3". Digital photographs are acceptable.

Item A7. Select the diagram on pages 13-15 that best represents the building. Then enter the diagram number and use the diagram to identify and determine the appropriate elevations requested in Items C2.a-h. If you are unsure of the correct diagram, select the diagram that most closely resembles the building being certified.

Item A8.a Provide the square footage of the crawlspace or enclosure(s) below the lowest elevated floor of an elevated building with or without permanent flood openings. Take the measurement from the outside of the crawlspace or enclosure(s). Examples of elevated buildings constructed with crawlspace and enclosure(s) are shown in Diagrams 6-9 on pages 14-15. Diagrams 2A, 2B, 4, and 9 should be used for a building constructed with a crawlspace floor that is below the exterior grade on all sides.

Items A8.b-d Enter in Item A8.b the number of permanent flood openings in the crawlspace or enclosure(s) that are no higher than 1.0 foot above the higher of the exterior or interior grade or floor immediately below the opening. (A permanent flood opening is a flood vent or other opening that allows the free passage of water automatically in both directions without human intervention.) If the interior grade elevation is used, note this in the Comments area of Section D. Estimate the total net area of all such permanent flood openings in square inches, excluding any bars, louvers, or other covers of the permanent flood openings, and enter the total in Item A8.c. If the net area cannot be reasonably estimated, provide the size of the flood openings without consideration of any covers and indicate in the Comments area the type of cover that exists in the flood openings. Indicate in Item A8.d whether the flood openings are engineered. If applicable, attach a copy of the Individual Engineered Flood Openings Certification or an Evaluation Report issued by the International Code Council Evaluation Service (ICC ES), if you have it. If the crawlspace or enclosure(s) have no permanent flood openings, or if the openings are not within 1.0 foot above adjacent grade, enter "0" (zero) in Items A8.b-c.

Item A9.a Provide the square footage of the attached garage with or without permanent flood openings. Take the measurement from the outside of the garage.

Items A9.b-d Enter in Item A9.b the number of permanent flood openings in the attached garage that are no higher than 1.0 foot above the higher of the exterior or interior grade or floor immediately below the opening. (A permanent flood opening is a flood vent or other opening that allows the free passage of water automatically in both directions without human intervention.) If the interior grade elevation is used, note this in the Comments area of Section D. This includes any openings that are in the garage door that are no higher than 1.0 foot above the adjacent grade. Estimate the total net area of all such permanent flood openings in square inches and enter the total in Item A9.c. If the net area cannot be reasonably estimated, provide the size of the flood openings without consideration of any covers and indicate in the Comments area the type of cover that exists in the flood openings. Indicate in Item A9.d whether the flood openings are engineered. If applicable, attach a copy of the Individual Engineered Flood Openings Certification or an Evaluation Report issued by the International Code Council Evaluation Service (ICC ES), if you have it. If the garage has no permanent flood openings, or if the openings are not within 1.0 foot above adjacent grade, enter "0" (zero) in Items A9.b-c.

**Instructions for Completing
the Elevation Certificate (Continued)**

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SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

Complete the Elevation Certificate on the basis of the FIRM in effect at the time of the certification.

The information for Section B is obtained by reviewing the FIRM panel that includes the building's location. Information about the current FIRM is available from the Federal Emergency Management Agency (FEMA) by calling 1-800-358-9616. If a Letter of Map Amendment (LOMA) or Letter of Map Revision (LOMR-F) has been issued by FEMA, please provide the letter date and case number in the Comments area of Section D or Section G, as appropriate.

For a building in an area that has been annexed by one community but is shown on another community's FIRM, enter the community name and 6-digit number of the annexing community in Item B1, the name of the county or new county, if necessary, in Item B2, and the FIRM index date for the annexing community in Item B6. Enter information from the actual FIRM panel that shows the building location, even if it is the FIRM for the previous jurisdiction, in Items B4, B5, B7, B8, and B9.

If the map in effect at the time of the building's construction was other than the current FIRM, and you have the past map information pertaining to the building, provide the information in the Comments area of Section D.

Item B1. NFIP Community Name & Community Number. Enter the complete name of the community in which the building is located and the associated 6-digit community number. For a newly incorporated community, use the name and 6-digit number of the new community. Under the NFIP, a "community" is any State or area or political subdivision thereof, or any Indian tribe or authorized native organization, that has authority to adopt and enforce floodplain management regulations for the areas within its jurisdiction. To determine the current community number, see the *NFIP Community Status Book*, available on FEMA's web site at <https://www.fema.gov/national-flood-insurance-program/national-flood-insurance-program-community-status-book>, or call 1-800-358-9616.

Item B2. County Name. Enter the name of the county or counties in which the community is located. For an unincorporated area of a county, enter "unincorporated area." For an independent city, enter "independent city."

Item B3. State. Enter the 2-letter state abbreviation (for example, VA, TX, CA).

Items B4-B5. Map/Panel Number and Suffix. Enter the 10-character "Map Number" or "Community Panel Number" shown on the FIRM where the building or manufactured (mobile) home is located. For maps in a county-wide format, the sixth character of the "Map Number" is the letter "C" followed by a 4-digit map number. For maps not in a county-wide format, enter the "Community Panel Number" shown on the FIRM.

Item B6. FIRM Index Date. Enter the effective date or the map revised date shown on the FIRM Index.

Item B7. FIRM Panel Effective/Revised Date. Enter the map effective date or the map revised date shown on the FIRM panel. This will be the latest of all dates shown on the map. The current FIRM panel effective date can be determined by calling 1-800-358-9616.

Item B8. Flood Zone(s). Enter the flood zone, or flood zones, in which the building is located. All flood zones containing the letter "A" or "V" are considered Special Flood Hazard Areas. The flood zones are A, AE, A1-A30, V, VE, V1-V30, AH, AO, AR, AR/A, AR/AE, AR/A1-A30, AR/AH, and AR/AO. Each flood zone is defined in the legend of the FIRM panel on which it appears.

Item B9. Base Flood Elevation(s). Using the appropriate Flood Insurance Study (FIS) Profile, Floodway Data Table, or FIRM panel, locate the property and enter the BFE (or base flood depth) of the building site. If the building is located in more than 1 flood zone in Item B8, list all appropriate BFEs in Item B9. BFEs are shown on a FIRM or FIS Profile for Zones A1-A30, AE, AH, V1-V30, VE, AR, AR/A, AR/AE, AR/A1-A30, AR/AH, and AR/AO; flood depth numbers are shown for Zone AO. Use the AR BFE if the building is located in any of Zones AR/A, AR/AE, AR/A1-A30, AR/AH, or AR/AO. In A or V zones where BFEs are not provided on the FIRM, BFEs may be available from another source. For example, the community may have established BFEs or obtained BFE data from other sources for the building site. For subdivisions and other developments of more than 50 lots or 5 acres, establishment of BFEs is required by the community's floodplain management ordinance. If a BFE is obtained from another source, enter the BFE in Item B9. In an A Zone where BFEs are not available, complete Section E and enter N/A for Section B, Item B9. Enter the BFE to the nearest tenth of a foot (nearest tenth of a meter, in Puerto Rico).

Item B10. Indicate the source of the BFE that you entered in Item B9. If the BFE is from a source other than FIS Profile, FIRM, or community, describe the source of the BFE.

Item B11. Indicate the elevation datum to which the elevations on the applicable FIRM are referenced as shown on the map legend. The vertical datum is shown in the Map Legend and/or the Notes to Users on the FIRM.

Item B12. Indicate whether the building is located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA). (OPAs are portions of coastal barriers that are owned by Federal, State, or local governments or by certain non-profit organizations and used primarily for natural resources protection.) Federal flood insurance is prohibited in designated CBRS areas or OPAs for buildings or manufactured (mobile) homes built or substantially improved after the date of the CBRS or OPA designation. For the first CBRS designations, that date is October 1, 1983. Information about CBRS areas and OPAs may be obtained on the FEMA web site at <https://www.fema.gov/national-flood-insurance-program/coastal-barrier-resources-system>.

Instructions for Completing the Elevation Certificate (Continued)

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SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

Complete Section C if the building is located in any of Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, or AR/AO, or if this certificate is being used to support a request for a LOMA or LOMR-F. If the building is located in Zone AO or Zone A (without BFE), complete Section E instead. To ensure that all required elevations are obtained, it may be necessary to enter the building (for instance, if the building has a basement or sunken living room, split-level construction, or machinery and equipment).

Surveyors may not be able to gain access to some crawlspaces to shoot the elevation of the crawlspace floor. If access to the crawlspace is limited or cannot be gained, follow one of these procedures.

- Use a yardstick or tape measure to measure the height from the floor of the crawlspace to the "next higher floor," and then subtract the crawlspace height from the elevation of the "next higher floor." If there is no access to the crawlspace, use the exterior grade next to the structure to measure the height of the crawlspace to the "next higher floor."
- Contact the local floodplain administrator of the community in which the building is located. The community may have documentation of the elevation of the crawlspace floor as part of the permit issued for the building.
- If the property owner has documentation or knows the height of the crawlspace floor to the next higher floor, try to verify this by looking inside the crawlspace through any openings or vents.

In all 3 cases, provide the elevation in the Comments area of Section D on the back of the form and a brief description of how the elevation was obtained.

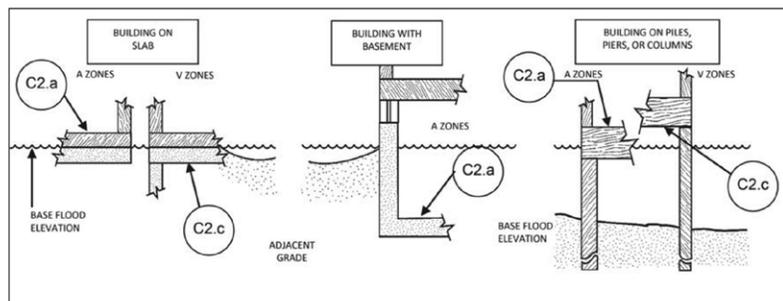
Item C1. Indicate whether the elevations to be entered in this section are based on construction drawings, a building under construction, or finished construction. For either of the first 2 choices, a post-construction Elevation Certificate will be required when construction is complete. If the building is under construction, include only those elevations that can be surveyed in Items C2.a-h. Use the Comments area of Section D to provide elevations obtained from the construction plans or drawings. Select "Finished Construction" only when all machinery and/or equipment such as furnaces, hot water heaters, heat pumps, air conditioners, and elevators and their associated equipment have been installed and the grading around the building is completed.

Item C2. A field survey is required for Items C2.a-h. Most control networks will assign a unique identifier for each benchmark. For example, the National Geodetic Survey uses the Permanent Identifier (PID). For the benchmark utilized, provide the PID or other unique identifier assigned by the maintainer of the benchmark. For GPS survey, indicate the benchmark used for the base station, the Continuously Operating Reference Stations (CORS) sites used for an On-line Positioning User Service (OPUS) solution (also attach the OPUS report), or the name of the Real Time Network used.

Also provide the vertical datum for the benchmark elevation. All elevations for the certificate, including the elevations for Items C2.a-h, must use the same datum on which the BFE is based. Show the conversion from the field survey datum used if it differs from the datum used for the BFE entered in Item B9 and indicate the conversion software used. Show the datum conversion, if applicable, in the Comments area of Section D.

For property experiencing ground subsidence, the most recent reference mark elevations must be used for determining building elevations. However, when subsidence is involved, the BFE should not be adjusted. Enter elevations in Items C2.a-h to the nearest tenth of a foot (nearest tenth of a meter, in Puerto Rico).

Items C2.a-d Enter the building elevations (excluding the attached garage) indicated by the selected building diagram (Item A7) in Items C2.a-c. If there is an attached garage, enter the elevation for top of attached garage slab in Item C2.d. (Because elevation for top of attached garage slab is self-explanatory, attached garages are not illustrated in the diagrams.) If the building is located in a V zone on the FIRMS, complete Item C2.c. If the flood zone cannot be determined, enter elevations for all of Items C2.a-h. For buildings in A zones, elevations a, b, d, and e should be measured at the top of the floor. For buildings in V zones, elevation c must be measured at the bottom of the lowest horizontal structural member of the floor (see drawing below). For buildings elevated on a crawlspace, Diagrams 8 and 9, enter the elevation of the top of the crawlspace floor in Item C2.a, whether or not the crawlspace has permanent flood openings (flood vents). *If any item does not apply to the building, enter "N/A" for not applicable.*



**Instructions for Completing
the Elevation Certificate (Continued)**

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Item C2.e Enter the lowest platform elevation of at least 1 of the following machinery and equipment items: elevators and their associated equipment, furnaces, hot water heaters, heat pumps, and air conditioners in an attached garage or enclosure or on an open utility platform that provides utility services for the building. Note that elevations for these specific machinery and equipment items are required in order to rate the building for flood insurance. Local floodplain management officials are required to ensure that all machinery and equipment servicing the building are protected from flooding. Thus, local officials may require that elevation information for all machinery and equipment, including ductwork, be documented on the Elevation Certificate. If the machinery and/or equipment is mounted to a wall, pile, etc., enter the platform elevation of the machinery and/or equipment. Indicate machinery/equipment type and its general location, e.g., on floor inside garage or on platform affixed to exterior wall, in the Comments area of Section D or Section G, as appropriate. *If this item does not apply to the building, enter "N/A" for not applicable.*

Items C2.f-g Enter the elevation of the ground, sidewalk, or patio slab immediately next to the building. For Zone AO, use the natural grade elevation, if available. This measurement must be to the nearest tenth of a foot (nearest tenth of a meter, in Puerto Rico) if this certificate is being used to support a request for a LOMA or LOMR-F.

Item C2.h Enter the lowest grade elevation at the deck support or stairs. For Zone AO, use the natural grade elevation, if available. This measurement must be to the nearest tenth of a foot (nearest tenth of a meter, in Puerto Rico) if this certificate is being used to support a request for a LOMA or LOMR-F.

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

Complete as indicated. This section of the Elevation Certificate may be signed by only a land surveyor, engineer, or architect who is authorized by law to certify elevation information. Place your license number, your seal (as allowed by the State licensing board), your signature, and the date in the box in Section D. You are certifying that the information on this certificate represents your best efforts to interpret the data available and that you understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001. Use the Comments area of Section D to provide datum, elevation, openings, or other relevant information not specified elsewhere on the certificate.

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

Complete Section E if the building is located in Zone AO or Zone A (without BFE). Otherwise, complete Section C instead. Explain in the Section F Comments area if the measurement provided under Items E1-E4 is based on the "natural grade."

Items E1.a and b Enter in Item E1.a the height to the nearest tenth of a foot (tenth of a meter in Puerto Rico) of the top of the bottom floor (as indicated in the applicable diagram) above or below the highest adjacent grade (HAG). Enter in Item E1.b the height to the nearest tenth of a foot (tenth of a meter in Puerto Rico) of the top of the bottom floor (as indicated in the applicable diagram) above or below the lowest adjacent grade (LAG). For buildings in Zone AO, the community's floodplain management ordinance requires the lowest floor of the building be elevated above the highest adjacent grade at least as high as the depth number on the FIRM. Buildings in Zone A (without BFE) may qualify for a lower insurance rate if an engineered BFE is developed at the site.

Item E2. For Building Diagrams 6-9 with permanent flood openings (see pages 14-15), enter the height to the nearest tenth of a foot (tenth of a meter in Puerto Rico) of the next higher floor or elevated floor (as indicated in the applicable diagram) above or below the highest adjacent grade (HAG).

Item E3. Enter the height to the nearest tenth of a foot (tenth of a meter in Puerto Rico), in relation to the highest adjacent grade next to the building, for the top of attached garage slab. (Because elevation for top of attached garage slab is self-explanatory, attached garages are not illustrated in the diagrams.) *If this item does not apply to the building, enter "N/A" for not applicable.*

Item E4. Enter the height to the nearest tenth of a foot (tenth of a meter in Puerto Rico), in relation to the highest adjacent grade next to the building, of the platform elevation that supports the machinery and/or equipment servicing the building. Indicate machinery/equipment type in the Comments area of Section F. *If this item does not apply to the building, enter "N/A" for not applicable.*

Item E5. For those communities where this base flood depth is not available, the community will need to determine whether the top of the bottom floor is elevated in accordance with the community's floodplain management ordinance.

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

Complete as indicated. This section is provided for certification of measurements taken by a property owner or property owner's representative when responding to Sections A, B, and E. The address entered in this section must be the actual mailing address of the property owner or property owner's representative who provided the information on the certificate.

SECTION G - COMMUNITY INFORMATION (OPTIONAL)

Complete as indicated. The community 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. Section C may be filled in by the local official as provided in the instructions below for Item G1. If the authorized community official completes Sections C, E, or G, complete the appropriate item(s) and sign this section.

Check **Item G1** if Section C is completed with elevation data 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 of the elevation data and the date obtained in the Comments area of Section G. If you are both a community official and a licensed land surveyor, engineer, or architect authorized by law to certify elevation information, and you performed the actual survey for a building in Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/A1-A30, AR/AE, AR/AH, or AR/AO, you must also complete Section D.

Check **Item G2** if information is entered in Section E by the community for a building in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.

Check **Item G3** if the information in Items G4-G10 has been completed for community floodplain management purposes to document the as-built lowest floor elevation of the building. Section C of the Elevation Certificate records the elevation of various building components but does not determine the lowest floor of the building or whether the building, as constructed, complies with the community's floodplain management ordinance. This must be done by the community. Items G4-G10 provide a way to document these determinations.

**Instructions for Completing
the Elevation Certificate (Continued)**

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Item G4. Permit Number. Enter the permit number or other identifier to key the Elevation Certificate to the permit issued for the building.

Item G5. Date Permit Issued. Enter the date the permit was issued for the building.

Item G6. Date Certificate of Compliance/Occupancy Issued. Enter the date that the Certificate of Compliance or Occupancy or similar written official documentation of as-built lowest floor elevation was issued by the community as evidence that all work authorized by the floodplain development permit has been completed in accordance with the community's floodplain management laws or ordinances.

Item G7. New Construction or Substantial Improvement. Check the applicable box. "Substantial Improvement" means any reconstruction, rehabilitation, addition, or other improvement of a building, the cost of which equals or exceeds 50 percent of the market value of the building before the start of construction of the improvement. The term includes buildings that have incurred substantial damage, regardless of the actual repair work performed.

Item G8. As-built lowest floor elevation. Enter the elevation of the lowest floor (including basement) when the construction of the building is completed and a final inspection has been made to confirm that the building is built in accordance with the permit, the approved plans, and the community's floodplain management laws or ordinances. Indicate the elevation datum used.

Item G9. BFE. Using the appropriate FIRM panel, FIS Profile, or other data source, locate the property and enter the BFE (or base flood depth) of the building site. Indicate the elevation datum used.

Item G10. Community's design flood elevation. Enter the elevation (including freeboard above the BFE) to which the community requires the lowest floor to be elevated. Indicate the elevation datum used.

Enter your name, title, and telephone number, and the name of the community. Sign and enter the date in the appropriate blanks.

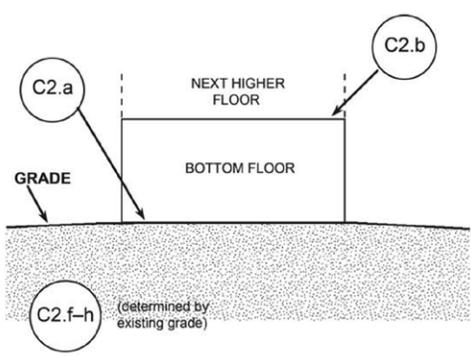
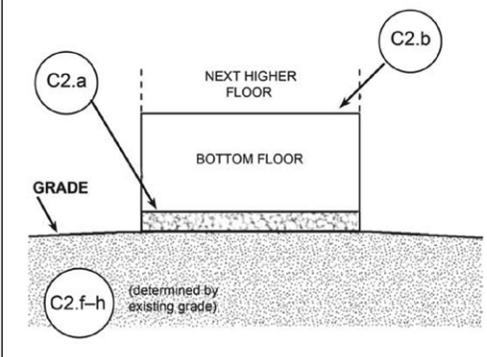
Instructions for Completing the Elevation Certificate (Continued)

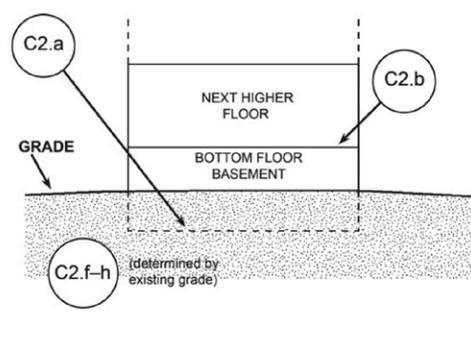
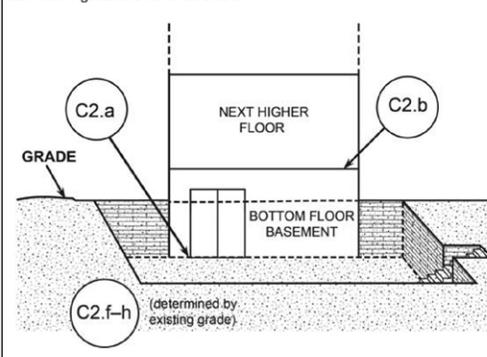
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Building Diagrams

The following diagrams illustrate various types of buildings. Compare the features of the building being certified with the features shown in the diagrams and select the diagram most applicable. Enter the diagram number in Item A7, the square footage of crawlspace or enclosure(s) and the area of flood openings in square inches in Items A8.a-c, the square footage of attached garage and the area of flood openings in square inches in Items A9.a-c, and the elevations in Items C2.a-h.

In A zones, the floor elevation is taken at the top finished surface of the floor indicated; in V zones, the floor elevation is taken at the bottom of the lowest horizontal structural member (see drawing in instructions for Section C).

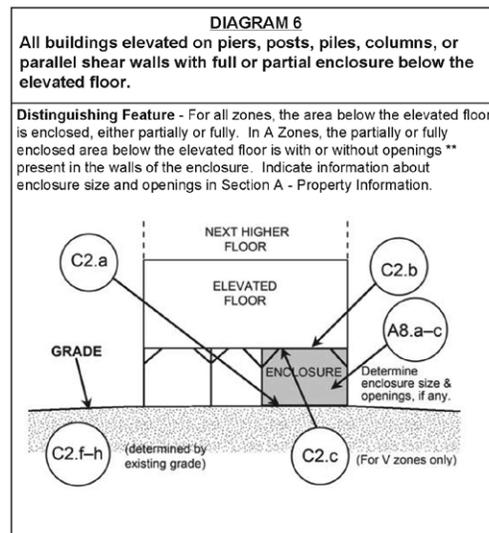
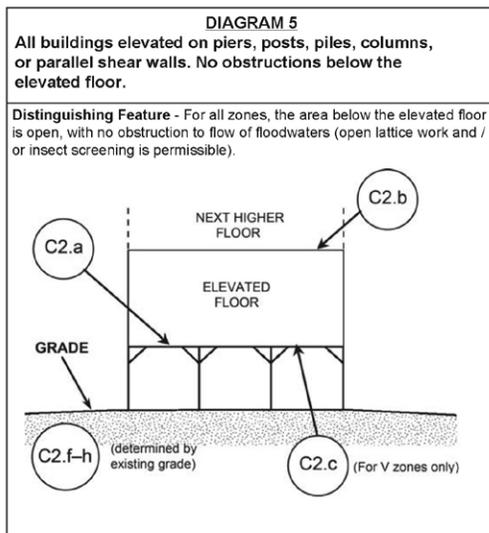
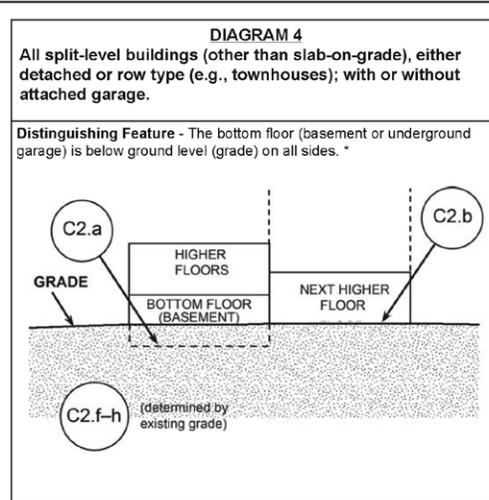
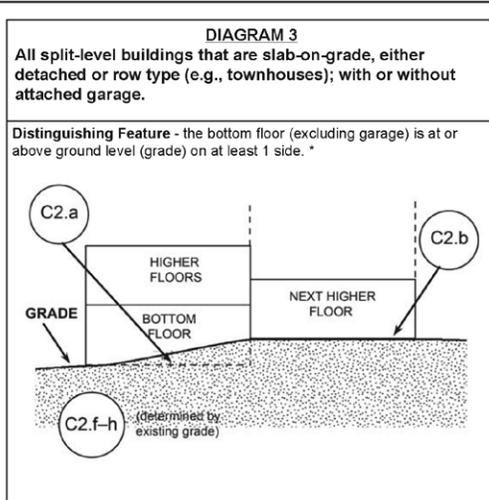
<p style="text-align: center;">DIAGRAM 1A</p> <p>All slab-on-grade single- and multiple-floor buildings (other than split-level) and high-rise buildings, either detached or row type (e.g., townhouses); with or without attached garage.</p> <p>Distinguishing Feature - The bottom floor is at or above ground level (grade) on at least 1 side.*</p> 	<p style="text-align: center;">DIAGRAM 1B</p> <p>All raised-slab-on-grade or slab-on-stem-wall-with-fill single and multiple-floor buildings (other than split-level), either detached or row type (e.g., townhouses); with or without attached garage.</p> <p>Distinguishing Feature - The bottom floor is at or above ground level (grade) on at least 1 side.*</p> 
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<p style="text-align: center;">DIAGRAM 2A</p> <p>All single- and multiple-floor buildings with basement (other than split-level) and high-rise buildings with basement, either detached or row type (e.g., townhouses); with or without attached garage.</p> <p>Distinguishing Feature - The bottom floor (basement or underground garage) is below ground level (grade) on all sides.*</p> 	<p style="text-align: center;">DIAGRAM 2B</p> <p>All single- and multiple-floor buildings with basement (other than split-level) and high-rise buildings with basement, either detached or row type (e.g., townhouses); with or without attached garage.</p> <p>Distinguishing Feature - The bottom floor (basement or underground garage) is below ground level (grade) on all sides; most of the height of the walls is below ground level on all sides; and the door and area of egress are also below ground level on all sides.*</p> 
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* A floor that is below ground level (grade) on all sides is considered a basement even if the floor is used for living purposes, or as an office, garage, workshop, etc.

Instructions for Completing the Elevation Certificate (Continued)

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Expiration: 11/30/2018



* A floor that is below ground level (grade) on all sides is considered a basement even if the floor is used for living purposes, or as an office, garage, workshop, etc.

** An "opening" is a permanent opening that allows for the free passage of water automatically in both directions without human intervention. Under the NFIP, a minimum of 2 openings is required for enclosures or crawlspaces. The openings shall provide a total net area of not less than 1 square inch for every square foot of area enclosed, excluding any bars, louvers, or other covers of the opening. Alternatively, an Individual Engineered Flood Openings Certification or an Evaluation Report issued by the International Code Council Evaluation Service (ICC ES) must be submitted to document that the design of the openings will allow for the automatic equalization of hydrostatic flood forces on exterior walls. A window, a door, or a garage door is not considered an opening, openings may be installed in doors. Openings shall be on at least 2 sides of the enclosed area. If a building has more than 1 enclosed area, each area must have openings to allow floodwater to directly enter. The bottom of the openings must be no higher than 1.0 foot above the higher of the exterior or interior grade or floor immediately below the opening. For more guidance on openings, see NFIP Technical Bulletin 1.

**Instructions for Completing
the Elevation Certificate (Continued)**

OMB Control Number: 1660-0008
Expiration: 11/30/2018

DIAGRAM 7

All buildings elevated on full-story foundation walls with a partially or fully enclosed area below the elevated floor. This includes walkout levels, where at least 1 side is at or above grade. The principal use of this building is located in the elevated floors of the building.

Distinguishing Feature - For all zones, the area below the elevated floor is enclosed, either partially or fully. In A Zones, the partially or fully enclosed area below the elevated floor is with or without openings** present in the walls of the enclosure. Indicate information about enclosure size and openings in Section A - Property Information.

DIAGRAM 8

All buildings elevated on a crawlspace with the floor of the crawlspace at or above grade on at least 1 side, with or without an attached garage.

Distinguishing Feature - For all zones, the area below the first floor is enclosed by solid or partial perimeter walls. In all A zones, the crawlspace is with or without openings** present in the walls of the crawlspace. Indicate information about crawlspace size and openings in Section A - Property Information.

DIAGRAM 9

All buildings (other than split-level) elevated on a sub-grade crawlspace, with or without attached garage.

Distinguishing Feature - The bottom (crawlspace) floor is below ground level (grade) on all sides. * (If the distance from the crawlspace floor to the top of the next higher floor is more than 5 feet, or the crawlspace floor is more than 2 feet below the grade (LAG) on all sides, use Diagram 2A or 2B.)

* A floor that is below ground level (grade) on all sides is considered a basement even if the floor is used for living purposes, or as an office, garage, workshop, etc.

** An "opening" is a permanent opening that allows for the free passage of water automatically in both directions without human intervention. Under the NFIP, a minimum of 2 openings is required for enclosures or crawlspaces. The openings shall provide a total net area of not less than 1 square inch for every square foot of area enclosed, excluding any bars, louvers, or other covers of the opening. Alternatively, an Individual Engineered Flood Openings Certification or an Evaluation Report issued by the International Code Council Evaluation Service (ICC ES) must be submitted to document that the design of the openings will allow for the automatic equalization of hydrostatic flood forces on exterior walls. A window, a door, or a garage door is not considered an opening; openings may be installed in doors. Openings shall be on at least 2 sides of the enclosed area. If a building has more than 1 enclosed area, each area must have openings to allow floodwater to directly enter. The bottom of the openings must be no higher than 1.0 foot above the higher of the exterior or interior grade or floor immediately below the opening. For more guidance on openings, see NFIP Technical Bulletin 1.