
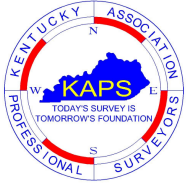


F.E.M.A.
LETTER OF
MAP CHANGE

One Surveyor's Foray Into
The Process





Presented by: Jonathan Payne, PLS

1

Course Areas of Discussion

- Program History
- Initial Client Call
- Sources of Information
- Forms and Paperwork Needed
- Methods of Submitting Applications

} These 3 are Intertwined

2

Historical Context for National Flood Insurance Program and Flood Insurance Rate Maps

Mid 1800s through Early 1900s

Various flood control laws and legislation aimed at controlling flood waters by way of levees.

1922

Private insurers stop covering flood losses

1930s

TVA created (1933)

Flood Control Act of 1936

Disaster relief in the form of loans from the federal government

Source cited can be downloaded from Google Drive here: <https://drive.google.com/file/d/1H578/view?usp=sharing>

3

We won't watch it as part of the seminar, but here is a link to an interesting YouTube video, from the channel Practical Engineering, that discusses the trouble with the idea of controlling a river. If you are interested in that discussion, please follow the link.

<https://youtu.be/vLZEIIYHmAI>

4

Historical Context for National Flood Insurance Program and Flood Insurance Rate Maps

1950s

Disaster Relief Act of 1950 allows for disaster relief response without need for congress to act.

Requires formal declaration of a "major disaster" by POTUS at behest of a State

Truman:

"The lack of a national system of flood insurance is now a major gap in the means by which a man can make his home, his farm, or his business secure against events beyond his control."

Various Acts for flood studies and flood control

5

Historical Context for National Flood Insurance Program and Flood Insurance Rate Maps

1950s

The Federal Flood Insurance Act of 1956

- Up to \$10,000 insurance per dwelling
- Encourage private insurers to provide coverage over that amount
- Cost the same no matter location

Lack of data leads to lack of appropriations which means the program losses traction

More studies and reports developed to round out the decade

6

Historical Context for National Flood Insurance Program and Flood Insurance Rate Maps

1960s

Amendments to the Flood Control Act allow C.O.E. to provide information to state and local agencies (beginnings of Flood Plain Management)

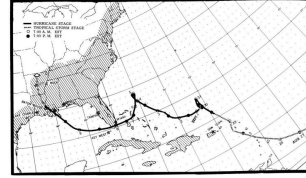
Variety of additional studies and relief acts

TVA aids communities in incorporating floodplain regulations in zoning and subdivision regulations. California is encouraging local governments to do the same.

7

Historical Context for National Flood Insurance Program and Flood Insurance Rate Maps

HURRICANE Betsy Track Aug. 27 – Sept. 12, 1965



1965

- Hurricane Betsy
 - Reached Category 4
- 1st 1 Billion Dollar damage hurricane (\$1.42 B)
- Wind damage reached as far as Kentucky and Illinois
 - 81 deaths
- Betsy name retired from list of tropical cyclone names



8

Historical Context for National Flood Insurance Program and Flood Insurance Rate Maps

1960s

(1966) "A Unified National Program for Managing Flood Losses", developed by The Task Force on Federal Flood Control Policy, examines means of addressing flood losses other than by flood control.

- Federally subsidized insurance to incentivize "participating communities"
- Limited test run before going national
- Warns if not done correctly could exacerbate problems
- Expects subsidies for existing high-risk properties to last only 25-years

9

Historical Context for National Flood Insurance Program and Flood Insurance Rate Maps

1960s

(1966) Executive Order No. 11296 (Johnson): *Evaluation of Flood Hazard in Locating Federally Owned or Financed Buildings, Roads, and Other Facilities, and in Disposing of Federal Lands and Properties*

- Requires heads of departments involved in federally backed development to consider potential flood risks on projects before funds are used to mitigate actions in a flood plain

10

Historical Context for National Flood Insurance Program and Flood Insurance Rate Maps

1960s

(1966) A feasibility study titled *Insurance and Other Programs for Financial Assistance to Flood Victims*, is submitted to Congress by Johnson.

- Aid individuals with flood insurance
- Discourage 'unwise' use of flood plain
- Subsidies for premiums
- Encourage widespread participation

"...lending institutions entrusted with savings or deposits and under any form of Federal supervision...shall require in high-risk areas flood insurance at unsubsidized rates on all new mortgages based on new residences..."

11

Historical Context for National Flood Insurance Program and Flood Insurance Rate Maps

1960s

Agencies ramp up for the coming insurance program and the flood plain management (versus flood control) which is to be implemented.

Some states begin early adoption of implementing flood plain management requirements.

Use of Bulletin No. 15 "A Uniform Technique for Determining Flood Flow Frequency", is adopted for federal planning and recommended for state and local governments.

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Historical Context for National Flood Insurance Program and Flood Insurance Rate Maps

1960s

National Flood Insurance Act of 1968

- Creates the National Flood Insurance Program
- Provide flood insurance option for participating communities
- Identify flood hazards and establish insurance rates based on the existing hazard
- Existing structures subsidized, new structure to pay actuarial premiums
- Flood zones to be determined in all flood prone areas within 15 years

Sad Side Note

From the same session, we can see that the phrase "going postal" which gained infamy in the 1980s and 1990s was already a developing matter within the United States Postal Service:

Public Law 90-449

AN ACT

August 2, 1968

To amend title 39, United States Code, to provide for disciplinary action against employees in the postal field service who assault other employees in such service in the performance of official duties, and for other purposes.

[H. R. 15387]

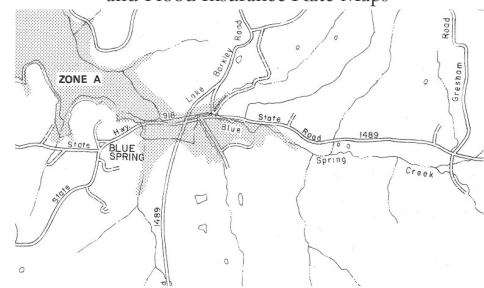
Historical Context for National Flood Insurance Program and Flood Insurance Rate Maps

1970s

1969/70 – First Flood Insurance Policies through the NFIP are purchased (4 participating communities and 16 policies in place)

1972 – Subsidized rates lowered to incentivize increased participation

1973 – Mapping demand is large enough that outside consultants are hired to develop Flood Hazard Boundary Maps



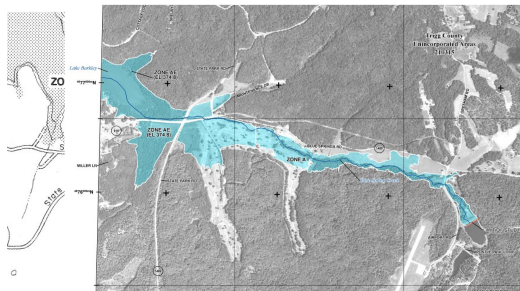
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Historical Context for National Flood Insurance Program and Flood Insurance Rate Maps

1970s

Flood Disaster Protection Act of 1973 (purpose)

- Increase limits of coverage authorized under the NFIP;
- Provide expeditious identification of and dissemination of information concerning flood-prone areas;
- Require States or local communities, as a condition of future Federal financial assistance, to participate in the flood insurance program and to adopt adequate flood plain ordinances with effective enforcement provisions consistent with Federal standards to reduce or avoid future flood losses; and
- Require the purchase of flood insurance by property owners who are being assisted by Federal programs or by federally supervised, regulated, or insured agencies or institutions in the acquisition or improvement of land or facilities located or to be located in identified areas having special flood hazards

Historical Context for National Flood Insurance Program and Flood Insurance Rate Maps

1970s

January 1974 – rates lowered to encourage participation

July 1974 – rates further reduced

1978 – *Texas Landowners Rights Association v. Harris* challenges the policy of withholding federal financial assistance (including FHA and VA loans). It fails.

1979 – FIA and NFIP moved from Department of Housing and Urban Development to newly created FEMA

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Historical Context for National Flood Insurance Program and Flood Insurance Rate Maps

1980s

1981 – rates on pre-FIRM structures raised twice in this year (leads to decline in policy purchase by 1983)

1982 – “*National Flood Insurance: Marginal Impact on Flood Plain Development, Administrative Improvements Needed*”, posits concerns over premiums based on incorrectly rated flood zones and recommends better monitoring to ensure flood plain regulation compliance in participating communities.

1983 – intended private insurance participation begins to take place

20

Historical Context for National Flood Insurance Program and Flood Insurance Rate Maps

1980s

October 1987 – NFIP is first defined as self-supporting with premiums covering “historical average loss year”. December of that year, net operating deficit of \$652 million.

November 1988 – Robert T. Stafford Disaster Relief and Emergency Assistance Act proposes more “buyout” funds to discourage rebuilding in SFHAs

September 1989 – Hurricane Hugo hits. Buildings up to NFIP levels performed better than those not up to standard.

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Historical Context for National Flood Insurance Program and Flood Insurance Rate Maps

1990s

1993 should be the 25 years after the National Flood Insurance Act of 1968, so subsidized flood insurance was expected to no longer be in place

June 1993 – Flooding all along the Mississippi covering much of the mid-west. \$16 billion in damages. Only 1 in 10 affected structures have flood insurance.

June 1994 – *Sharing the Challenge: Floodplain Management Into the 21st Century* (a.k.a the Galloway Report) notes overly generous federal disaster assistance may reduce individual responsibility. Also states 5 day waiting period was too short and allowed for an additional \$82 million in claims – recommended 15 day wait for policy to take effect.

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Historical Context for National Flood Insurance Program and Flood Insurance Rate Maps

1990s

National Flood Insurance Reform Act of 1994

- requires banks to obtain flood insurance if borrower does not have proof of insurance
- impose penalties for failure to require flood insurance, fees for flood determination
- increase coverage limit
- increases waiting period for policy to 30 days
- Require review and assessment of need to update FIRM every 5 years

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Historical Context for National Flood Insurance Program and Flood Insurance Rate Maps

1990s

Variety of studies on mitigation and insurance rates

1994 – *Florida Key Deer v. Stickney* decision made that FEMA must comply with the Endangered Species Act

1995 – *Audit of the Accuracy of Flood Zone Ratings* indicates incorrect zone in ¼ of flood insurance policies, premiums incorrect for 10% of policies, notes flood maps are difficult to read and rules for writing policies are too complex. No change from FEMA until 1999.

25

Historical Context for National Flood Insurance Program and Flood Insurance Rate Maps

1990s

1995 – Due to extensive flooding in the preceding 12 months, NFIP must borrow \$265 million from the Treasury

1996 – Due to extensive flooding during the past 12 months, NFIP must borrow additional funds from the Treasury reaching \$626 million and adding an additional \$192 million in the ensuing six months

1997 – Continued flood related losses leads to loan value from the Treasury totaling \$917 million

1998 – FIA estimates 38% of homes with a mortgage in a SFHA don't have flood insurance

1999 – FEMA asks Congress to allow a \$15 fee on every federally insured mortgage to fund map modernization. FEMA instructed to look for alternatives.

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Historical Context for National Flood Insurance Program and Flood Insurance Rate Maps

1990s

1999 – A recurring theme from the past is addressed in a hearing at the U.S. House of Representatives: multiple claims on the same property.

Over 100 million acres of SFHAs have been mapped and designated as such at a cost of ±\$1.3 billion dollars.

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Historical Context for National Flood Insurance Program and Flood Insurance Rate Maps

2000s

2000 – International Building Code published including NFIP construction requirements.

2000 – *Opportunities to Enhance Compliance with Homeowner Flood Insurance Purchase Requirements* finds that of mortgages with federally regulated lending institutions which should require flood insurance, 10% do not have the required coverage

October 2000 – Use of FEMA elevation certificate becomes mandatory; the Disaster Mitigation and Cost Recovery Act requires states to prepare a comprehensive state program for emergencies in order to be eligible for receive funds from FEMA.

28

Historical Context for National Flood Insurance Program and Flood Insurance Rate Maps

2000s

2001 – NFIP 'eliminates' its debt to the Treasury

2002 – NFIP pays off \$650 million borrowed to cover \$1 billion in claims due to Hurricane Allison

2004 – *Actions to Address Repetitive Loss Properties* notes that about 38% of claim costs have been the result of repetitive loss properties costing \$4.6 billion dollars since 1978. June of that year, Bush signs Bunning-Bereuter-Blumenauer Flood Insurance Reform Act of 2004 to address repetitive loss

2004 – Hurricane season leads to \$225 million in borrowing to pay claims

29

Historical Context for National Flood Insurance Program and Flood Insurance Rate Maps

2000s

2005 – Hurricane Katrina. NFIP borrowing limit raised from \$1.5 billion to \$3.5 billion. Funds borrowed not expected to be repaid before at least 10 years. Katrina and Rita claims will exceed \$22 billion and the entire preceding history of payments from NFIP was only \$15 billion. So, borrowing limit was raised to \$18.5 billion to be able to settle claims.

2005 (also) – Tropical Storm Tammy drops 12 inches of rain in 30 hours in New Hampshire. Considered a once in 500-year event.

2006 – Mount Rainier National Park closed due to heavy flooding in Washington states

2006 – Online LOMA submissions and e-LOMA processes made available through the map modernization program "Mapping Information Platform"

30



Flooded I-10/I-410 West End Blvd interchange and surrounding area of northwest New Orleans and Metairie, Louisiana
AP Photo/US Coast Guard, Petty Officer 2nd Class Kyle Niemi

New Hampshire Flooding in a town called Surry, NH just a short 11 miles from where a dam was breached in Alstead, NH.
Lt Joel Huntley - Surry Police Dept
<https://www.cbs2.com/cbsbook/SurryFlood/2005/Flood05.htm>



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Historical Context for National Flood Insurance Program and Flood Insurance Rate Maps

2000s

2007 - (repeated more widely in 2008) Midwest flooding. 18-inches of rain during the week in some places. \$100M in damages in Minnesota and Wisconsin.

2009 - Flooding in Alabama, Georgia, Tennessee, and North Carolina.

2010 - Flooding in New England. 12 inches of rain on top of an already wet season led to flooding in Rhode Island that saw the Pawtuxet River crest at a record setting 12 feet above flood stage. A sewage treatment plant fails and contaminates surrounding waters.

2010 - Tennessee flooding. In May of 2010, Tennessee sees a 1000-year flooding event. This affects Middle and West Tennessee as well as Western Kentucky. 31 deaths and \$2.3B in damages.

32



A goose swims by a 23-foot figure of William Clark that is surrounded by the waters of the Mississippi River along the St. Louis riverfront. Credit: Peter Newcomb for The New York Times

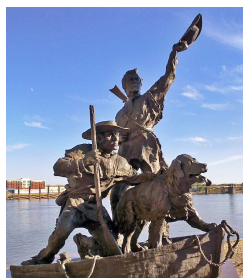


Photo from FOURSQUARE CITY GUIDE
By User "Charles"
<https://foursquare.com/v/the-captains-return/4d8c992b376d431a3d7a>

33

Historical Context for National Flood Insurance Program and Flood Insurance Rate Maps

2010s

2011 - Missouri River flooding. With more than double the annual snowpack in the Rocky Mtns and a year's worth of rain falling in one half of the month of May, this event is estimated to have caused \$2.8B in economic damages

2011 - Mississippi River flooding affects Missouri, Illinois, Tennessee, Arkansas, Mississippi, Louisiana, Kentucky. Birds Point-New Madrid Floodway used for the first time since 1937. An estimated \$2.8B in economic damages

2011 - Mid Atlantic flooding due to Tropical Storm Lee which had tracked across much of the south. An estimated \$1B in damages to the mid-Atlantic area.

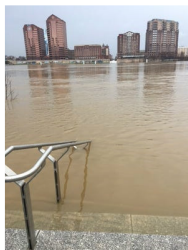
2012 - Hurricane Sandy spanning 1150 miles caused approx. \$70 billion in damages from the Caribbean up to Canada.

34

Historical Context for National Flood Insurance Program and Flood Insurance Rate Maps

2010s

2018 - Ohio River flooding. We may have some in attendance that will recall that flooding. But, according to the National Weather Service, that flooding was only the 22nd worst in Cincinnati since NWS started keeping records. The water crested at 60.53 feet compared to 1937 when it hit 80.00 feet!



Smale Riverfront Park in Cincinnati.
Photo by:
Jeanne Houck / The Enquirer.

35

Historical Context for National Flood Insurance Program and Flood Insurance Rate Maps

2020s so far

2021 - Tennessee flooding covering Western Middle Tennessee and Western Kentucky. McEwen Tennessee faced a recording breaking 20 inches of rain in a 24-hour period. Five counties received 1/4th of their normal ANNUAL rainfall in a 12-hour period!



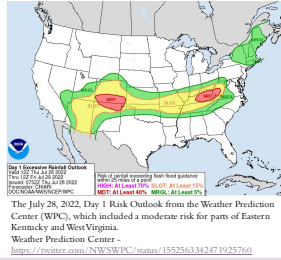
Pinewood Church of Christ along the Piney River north of Nunnally
Photo by:
NWS Nashville - U.S. National Weather Service

36

Historical Context for National Flood Insurance Program and Flood Insurance Rate Maps

2020s so far

2022 – Eastern Kentucky flooding where the North Fork of the Kentucky River swelled to 21 feet before gauge failure, which was well above the prior record of 14.7 feet set in 1957. This was brought about by between 14 to 16 inches of rainfall in a 5-day period. With some areas experiencing rainfall at a rate of 4 inches per hour.



Ring, Ring.
The Initial Client Call

37

38



I need an elevation thingy



39



I need an elevation thingy
My realtor told me you could help
me get my property out of a flood
zone



40



I need an elevation thingy
My realtor told me you could help
me get my property out of a flood
zone
I just got a letter from my bank telling
me I'm in a flood zone and I know
I'm not



41



I need an elevation thingy
My realtor told me you could help
me get my property out of a flood
zone
I just got a letter from my bank telling
me I'm in a flood zone and I know
I'm not
I'm trying to sell my house and
they're (?) telling me I'm in a flood
zone. I looked it up and according to
the elevation from my iPhone, I'm
not.



42



I need an elevation thingy
My realtor told me you could help
me get my property out of a flood
zone

I just got a letter from my bank telling
me I'm in a flood zone and I know
I'm not

I'm trying to sell my house and
they're (?) telling me I'm in a flood
zone. I looked it up and according to
the elevation on my iPhone, I'm not.
I need an Elevation Certificate.

43

Hopefully Discussed Points From the Preceding "Ring, Ring." Scenarios

The caller may not know what they really need



44

Hopefully Discussed Points From the Preceding "Ring, Ring." Scenarios

The caller may not know what they really need
The caller will most likely not understand why they
need what they need



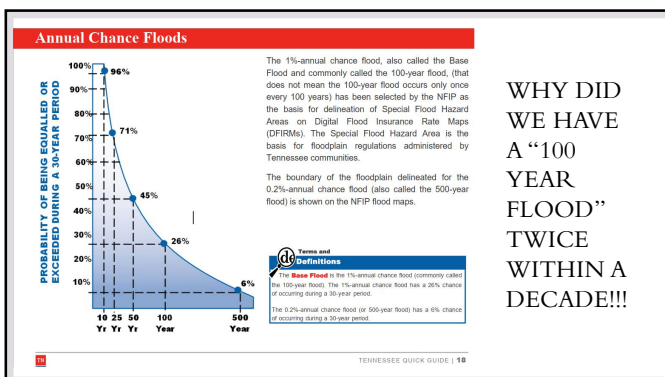
45

Hopefully Discussed Points From the Preceding "Ring, Ring." Scenarios

The caller may not know what they really need
The caller will most likely not understand why they
need what they need
The caller may think they aren't in a flood zone
because of the facts they are aware of



46



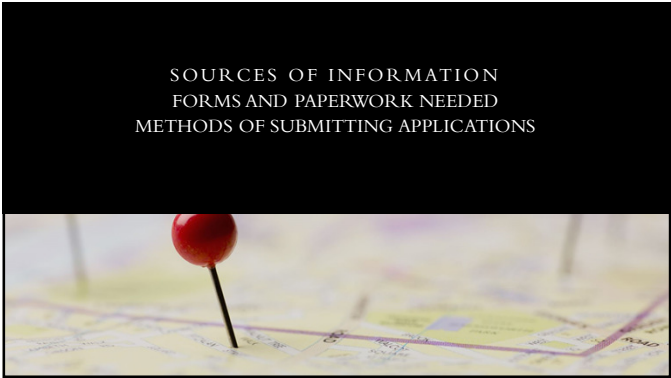
47

Hopefully Discussed Points From the Preceding "Ring, Ring." Scenarios

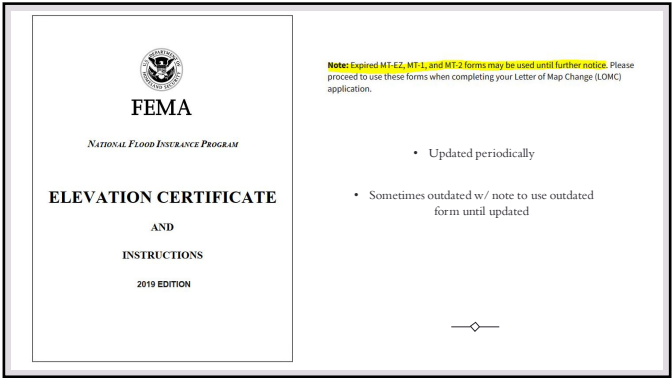
The caller may not know what they really need
The caller will most likely not understand why they
need what they need
The caller may think they aren't in a flood zone
because of the facts they are aware of
The caller may want a particular product (i.e.,
Elevation Certificate), but could also use further
PROFESSIONAL assistance



48



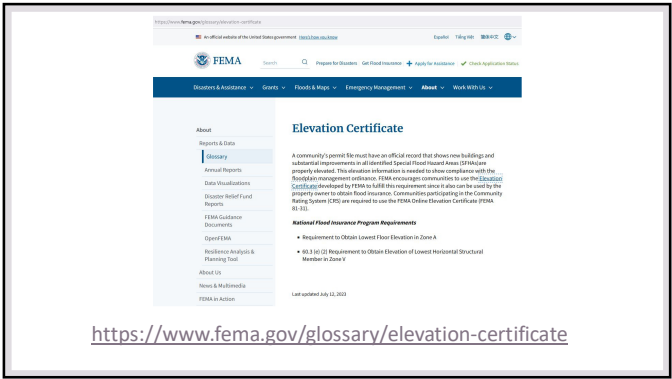
49



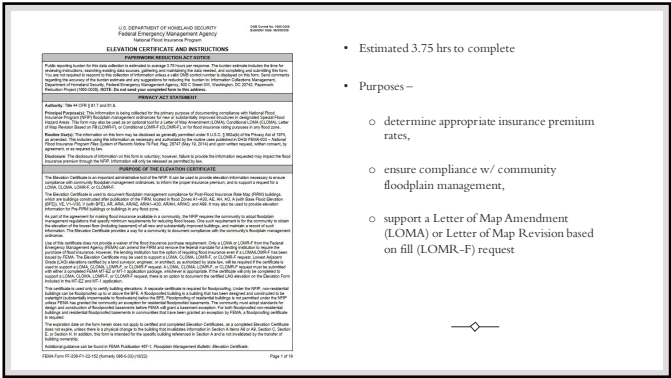
50



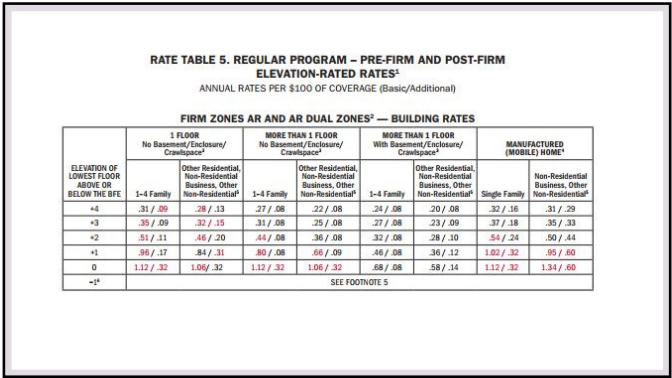
51



52



53



54

INSTRUCTIONS FOR COMPLETING THE ELEVATION CERTIFICATE

The Elevation Certificate is to be completed by a land surveyor, engineer, or architect who is authorized by state law to certify elevation information when elevation information is required or used for Zones A1–A30, AE, AH, AO, A (with Base Flood Elevation (BFE)), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AR/AH, AR/AO, or A99.

Community officials who are authorized by law or ordinance to provide floodplain management information (herein referred to as "local floodplain management official") may also complete this form. For Zones AO, AR/AO, and A (without BFE), a local floodplain management official, a property owner, or an owner's authorized representative may provide floodplain management compliance information on this certificate in Section E, unless the elevations are intended for use in supporting a request for a LOMA, CLOMA, LOMR-F, or CLOMR-F. Certified elevations must be included if the purpose of completing the Elevation Certificate is to obtain a LOMA, CLOMA, LOMR-F, or CLOMR-F.

The property owner, the owner's authorized representative, or local floodplain management official 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.

For insurance purposes only, a local floodplain management official, a property owner, or an owner's authorized representative may provide First Floor Height details in Section H for any zone.

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

Note: Section C can be used for insurance and compliance in any zone; however, Section E can be used only for compliance in Zone AO and Zone A.

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U.S. DEPARTMENT OF HOMELAND SECURITY

Federal Emergency Management Agency

National Flood Insurance Program

OMB Control No. 1660-0008

Expiration Date: 09/30/2026

ELEVATION CERTIFICATE

IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON PAGES 9-19

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

A1. Building Owner's Name: _____

A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.: _____

City: _____ State: _____ ZIP Code: _____

A3. Property Description (e.g., Lot and Block Numbers or Legal Description) and/or Tax Parcel Number: _____

A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.): _____

A5. Latitude/Longitude: Lat. _____ Long. _____ Horizontal Datum: ☐ NAD 1927 ☐ NAD 1983 ☐ WGS 84

A6. Attach at least two and when possible four clear photographs (one for each side) of the building (see Form pages 7 and 8).

A7. Building Diagram Number: _____

FOR INSURANCE COMPANY USE

Policy Number: _____

Company NAIC Number: _____

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A8. For a building with a crawlspace or enclosure(s):

a) Square footage of crawlspace or enclosure(s): _____ sq. ft.

b) Is there at least one permanent flood opening on two different sides of each enclosed area? ☐ Yes ☐ No ☐ N/A

c) Enter number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade:
Non-engineered flood openings: _____ Engineered flood openings: _____

d) Total net open area of non-engineered flood openings in A8.c: _____ sq. in.

e) Total rated area of engineered flood openings in A8.c (attach documentation – see Instructions): _____ sq. ft.

f) Sum of A8.d and A8.e rated area (if applicable – see Instructions): _____ sq. ft.

A9. For a building with an attached garage:

a) Square footage of attached garage: _____ sq. ft.

b) Is there at least one permanent flood opening on two different sides of the attached garage? ☐ Yes ☐ No ☐ N/A

c) Enter number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade:
Non-engineered flood openings: _____ Engineered flood openings: _____

d) Total net open area of non-engineered flood openings in A9.c: _____ sq. in.

e) Total rated area of engineered flood openings in A9.c (attach documentation – see Instructions): _____ sq. ft.

f) Sum of A9.d and A9.e rated area (if applicable – see Instructions): _____ sq. ft.

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SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1.a. NFIP Community Name: _____ B1.b. NFIP Community Identification Number: _____

B2. County Name: _____ B3. State: _____ B4. Map/Panel No.: _____ B5. Suffix: _____

B6. FIRM Index Date: _____ B7. FIRM Panel Effective/Revised Date: _____

B8. Flood Zone(s): _____ B9. Base Flood Elevation(s) (BFE) (Zone AO, use Base Flood Depth): _____

B10. Indicate the source of the BFE data or Base Flood Depth entered in Item B9:
☐ FIS ☐ FIRM ☐ Community Determined ☐ Other: _____

B11. Indicate elevation datum used for BFE in Item B9: ☐ NGVD 1929 ☐ NAVD 1988 ☐ Other/Source: _____

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

B13. Is the building located seaward of the Limit of Moderate Wave Action (LiMWA)? ☐ Yes ☐ No

FEMA Form FF-206-FY-22-152 (formerly 086-0-33) (10/22) Page 2 of 19

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FEMA

Navigation

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MSC Search All Products

MSC Products and Tools

Help

LOMC Batch Files

Product Availability

MSC Frequently Asked Questions (FAQs)

MSC Email Subscriptions

Contact MSC Help

FEMA Flood Map Service Center: Welcome!

Looking for a Flood Map? [?](#)

Enter an address, a place, or longitude/latitude coordinates:
Enter an address, a place, or longitude/latitude coordinates: [Search](#)

Looking for more than just a current flood map?
Visit [Search All Products](#) to access the full range of flood risk products for your community.

About Flood Map Service Center

The FEMA Flood Map Service Center (MSC) is the official public source for flood hazard information produced in support of the National Flood Insurance Program (NFIP). Use the MSC to find your official flood map, access a range of other hazard products, and take advantage of tools for better understanding flood risk.

FEMA flood maps are continually updated through a variety of processes. Effective information that you download or print from this site may change or become superseded by new maps over time. For additional information, please see the [Flood Hazard Mapping Updates Overview Fact Sheet](#).

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FEMA

Navigation

Search

MSC Home

MSC Search by Address

MSC Search All Products

MSC Products and Tools

Help

LOMC Batch Files

Product Availability

MSC Frequently Asked Questions (FAQs)

MSC Email Subscriptions

Contact MSC Help

FEMA Flood Map Service Center: Search By Address

Enter an address, place, or coordinates: [permon place vado kentucky](#) [Search](#)

[Learn more about how you can take to reduce flood risk damage.](#)

Search Results—Products for TRIGG COUNTY UNINCORPORATED AREAS [Show All Products](#)

The flood map for the selected area is number **21221C0205D** effective on **4/9/2019**

DYNAMIC MAP

MAP IMAGE

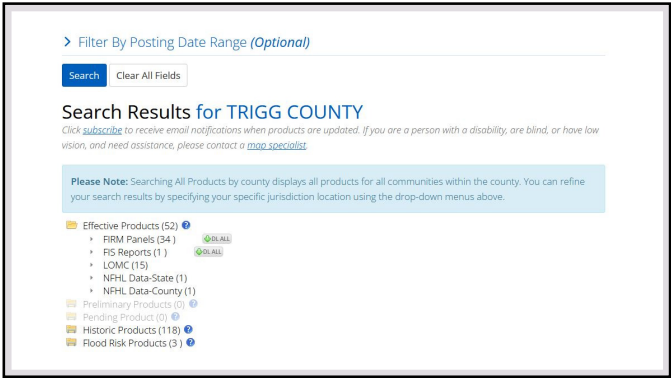
Changes to this FIRM [?](#)

- B1. Sections (5)
- B2. Amendments (5)
- B3. Revalidations (7)

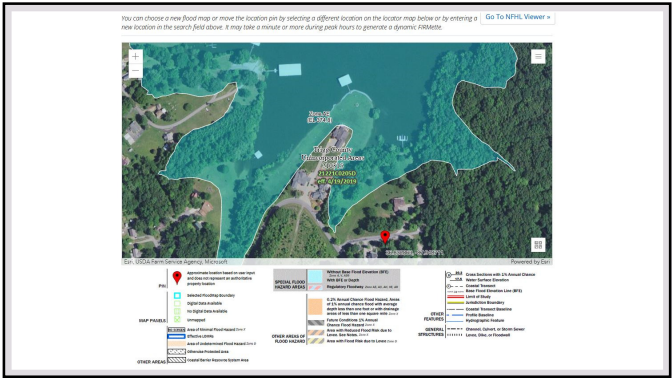
You can choose a new flood map or reuse the location pin by selecting a different location on the locator map below or by entering a new location in the search field above. It may take a minute or more during peak hours to generate a dynamic FIRM.

60

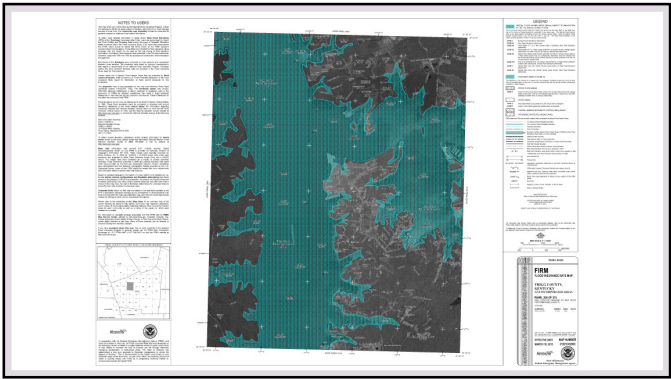
10



61



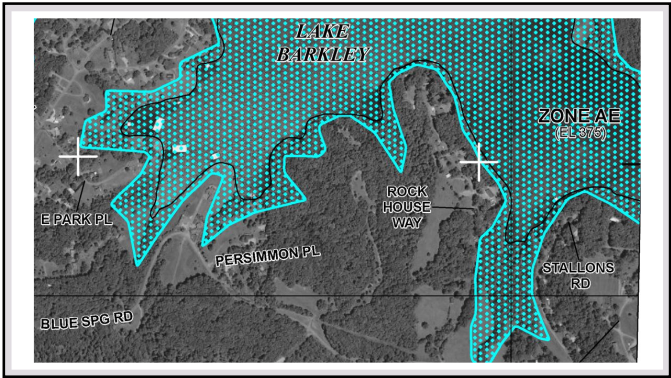
62



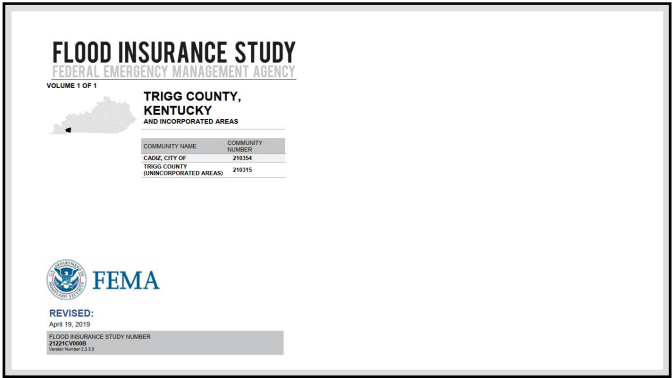
63



64



65

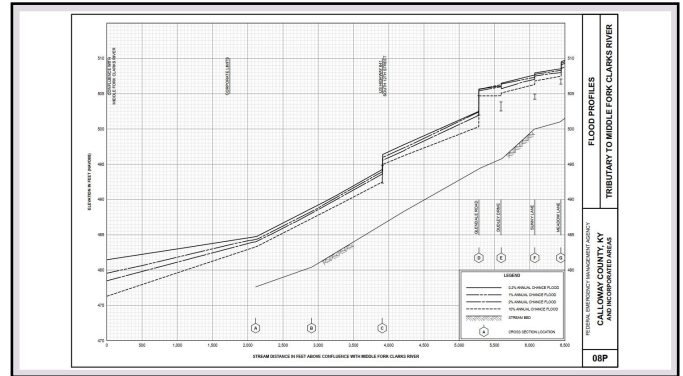


66

Table 11: Summary of Non-Coastal Stillwater Elevations

Flooding Source	Location	Elevations (feet NAVD88)				
		10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Kentucky Lake	Trigg County Unincorporated Areas	*	*	*	374.8	*
Lake Barkley	Trigg County Unincorporated Areas	*	*	*	374.8	*

*Not calculated for this Flood Risk Project



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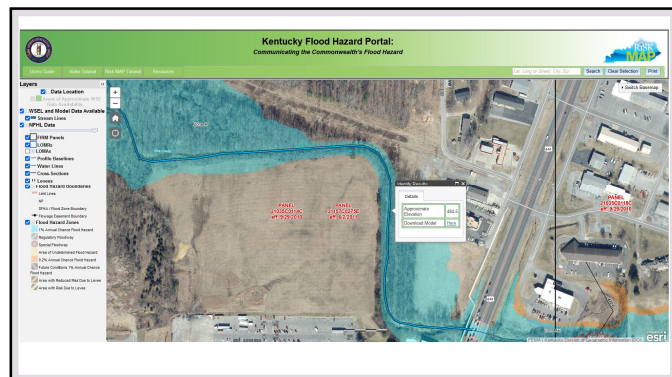
LETTER OF MAP AMENDMENT DETERMINATION DOCUMENT (NON-REMOVAL)

COMMUNITY AND MAP PANEL INFORMATION				LEGAL PROPERTY DESCRIPTION				
COMMUNITY	TRIGG COUNTY, KENTUCKY (Unincorporated Areas)			A parcel of land, as described in the Deed recorded as Document No. 200746, Book D305, Pages 238, 239, and 240, in the Office of the County Clerk, Trigg County, Kentucky				
	COMMUNITY NO.: 210315							
AFFECTED MAP PANEL	NUMBER: 21221C02050							
	DATE: 4/19/2019							
FLOODING SOURCE: LAKE BARKLEY				APPROXIMATE LATITUDE & LONGITUDE OF PROPERTY: 36.833546, -87.948845 SOURCE OF LAT & LONG: LOMA LOGIC DATUM: NAD 83				
DETERMINATION								
LOT	BLOCK/ SECTION	SUBDIVISION	STREET	OUTCOME WHAT IS NOT REMOVED FROM THE SFHA	FLOOD ZONE	1% ANNUAL CHANCE FLOOD ELEVATION (NAVD 88)	LOWEST ADJACENT GRADE ELEVATION (NAVD 88)	LOWEST LOT ELEVATION (NAVD 88)
--	--	--	4544 Blue Springs Road	Structure (Residence)	AE	374.8 feet	373.5 feet	--
Special Flood Hazard Area (SFHA) - The SFHA is an area that would be inundated by the flood having a 1-percent chance of being equalled or exceeded in any given year (base flood).								

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User Guide Introduction

The Flood Hazard Portal User Guide is intended to provide information regarding how to use the mapping application portion of the portal and download data supporting the floodplain boundaries shown on the maps. If you require additional assistance, or have questions about the intended purpose or functionality of this portal site that are not answered by this user guide, please contact the Division of Water, by email at KYriskMAP@ky.gov or by phone at (502) 564-3410.

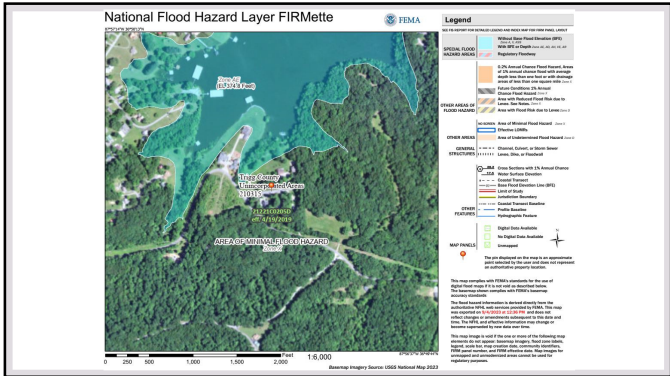
****NOTE**** All counties have been populated with data on this portal as of February 2019. The exception to this is Jefferson County as Louisville MSD provides BFE determinations at the following website: <https://apps.lojic.org/msdflooddetermination/>

Some Zone A areas are not yet available on the portal, such as sinkhole elevations. If your area of interest is not yet populated with data, please email KYriskMAP@ky.gov to obtain the information you need.

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ELEVATION CERTIFICATE
IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON PAGES 9-19

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.: _____

City: _____ State: _____ ZIP Code: _____

FOR INSURANCE COMPANY USE
Policy Number: _____
Company NAIC Number: _____

SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

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

C2. Elevations – Zones A1-A30, AE, AH, AO, A (with BFE), VE, V1-V30, V (with BFE), AR, ARIA, ARIAE, ARIA1-A30, ARIAH, ARIAG, ARIH. Complete items C2a-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:
☐ NGVD 1959 ☐ NAVD 1988 ☐ Other: _____

Datum used for building elevations must be the same as that used for the BFE. Conversion factor used? ☐ Yes ☐ No
If Yes, describe the source of the conversion factor in the Section D Comments area.

a) Top of bottom floor (including basement, crawlspace, or enclosure floor): _____ feet ☐ meters
b) Top of the next higher floor (see Instructions): _____ feet ☐ meters
c) Bottom of the lowest horizontal structural member (see Instructions): _____ feet ☐ meters
d) Attached garage (top of slab): _____ feet ☐ meters
e) Lowest elevation of Machinery and Equipment (M&E) servicing the building (describe type of M&E and location in Section D Comments area): _____ feet ☐ meters
f) Lowest Adjacent Grade (LAG) next to building: ☐ Natural ☐ Finished _____ feet ☐ meters
g) Highest Adjacent Grade (HAG) next to building: ☐ Natural ☐ Finished _____ feet ☐ meters
h) Finished LAG at lowest elevation of attached deck or stairs, including structural support: _____ feet ☐ meters

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Z: 3772925.000(m) 0.012(m) 3772924.875(m) 0.012(m)

LAT: 36 29 58.19653 0.018(m) 36 29 58.22093 0.018(m)

E LON: 270 36 32.09263 0.022(m) 270 36 32.06173 0.022(m)

W LON: 89 23 27.90737 0.022(m) 89 23 27.93827 0.022(m)

EL HGT: 59.077(m) 0.007(m) 57.850(m) 0.007(m)

ORTHO HGT: 87.398(m) 0.017(m) [NAVD88 (Computed using GEOID12A)]

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2:57 Mon, Sep 4

← Projects NEW PROJECT

SCHOLARRD : Distance Unit
US Survey Feet

ROCKCASTLE32A : Scale Factor
1.0000000000

MELANIE : Angle Unit
Degrees

ESTATES2_194 : Coordinate System
KY83-S

WHIPPOORWILL27 : Vertical System
g2018u7 bin

JOEYCUNNINHAM : Last Modified Date
2023-09-04 14:51:34 -05:00

AMBER :
PEN44 :
OPEN PROJECT

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Figure 2. FIRM Notes to Users

PROJECTION INFORMATION: The projection used in the preparation of the map was Lambert Conformal Conic, Kentucky Zone 1600. The horizontal datum was NAD83. Differences in datum, spheroid, projection or State Plane zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of the FIRM.

ELEVATION DATUM: Flood elevations on the FIRM are referenced to the **North American Vertical Datum of 1988**. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at www.ngs.noaa.gov/ or contact the National Geodetic Survey at the following address:

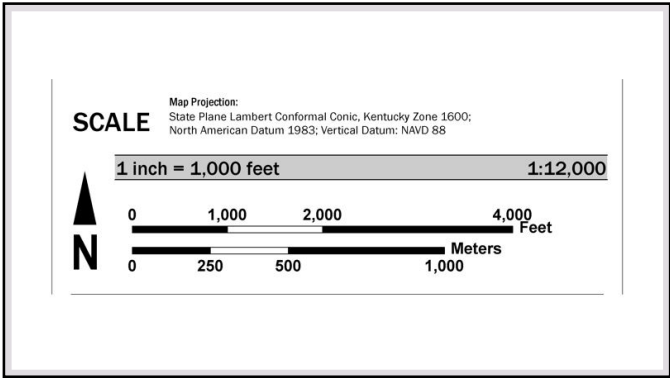
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Table 11: Summary of Non-Coastal Stillwater Elevations

Flooding Source	Location	Elevations (feet NAVD88)				
		10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Kentucky Lake	Trigg County Unincorporated Areas	*	*	*	374.8	*
Lake Barkley	Trigg County Unincorporated Areas	*	*	*	374.8	*

*Not calculated for this Flood Risk Project

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Estimated Water Surface Elevations

Produce Estimated Water Surface Elevation

Zoom in until aerial photography and stream centerlines are visible as seen in the screen capture above. Left Click on the stream centerline at the point of interest to produce an estimated flood elevation of that location in the **Identify Results** window. Results are returned in feet above mean sea level, North American Vertical Datum 1988 (MSL-NAVD88).

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ELEVATION CERTIFICATE
IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON PAGES 9-19

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.: _____

City: _____ State: _____ ZIP Code: _____

FOR INSURANCE COMPANY USE
Policy Number: _____
Company NAIC Number: _____

SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

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

C2. Elevations – Zones A1–A30, AE, AH, AO, A (with BFE), VE, V1–V30, V (with BFE), AR, ARIA, ARIAE, ARIA1–A30, ARIAH, ARIAQ, A99. 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.
☐ NGVD 1929 ☐ NAVD 1988 ☐ Other: _____

Datum used for building elevations must be the same as that used for the BFE. Conversion factor used? ☐ Yes ☐ No
If Yes, describe the source of the conversion factor in the Section D Comments area.

a) Top of bottom floor (including basement, crawlspace, or enclosure floor): _____ ☐ feet ☐ meters
b) Top of the next higher floor (see Instructions): _____ ☐ feet ☐ meters
c) Bottom of the lowest horizontal structural member (see Instructions): _____ ☐ feet ☐ meters
d) Attached garage (top of slab): _____ ☐ feet ☐ meters
e) Lowest elevation of Machinery and Equipment (MAE) servicing the building (describe type of MAE and location in Section D Comments area): _____ ☐ feet ☐ meters
f) Lowest Adjacent Grade (LAG) next to building: ☐ Natural ☐ Finished _____ ☐ feet ☐ meters
g) Highest Adjacent Grade (HAG) next to building: ☐ Natural ☐ Finished _____ ☐ feet ☐ meters
h) Finished LAG at lowest elevation of attached deck or stairs, including structural support: _____ ☐ feet ☐ meters

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SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by state 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.

Were latitude and longitude in Section A provided by a licensed land surveyor? ☐ Yes ☐ No

☐ Check here if attachments and describe in the Comments area.

Certifier's Name: _____ License Number: _____

Title: _____

Company Name: _____

Address: _____

City: _____ State: ☐ ZIP Code: _____

Signature: _____ Date: _____

Telephone: _____ Ext.: _____ Email: _____

Place Seal Here

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

Comments (including source of conversion factor in C2; type of equipment and location per C2 e; and description of any attachments): _____

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ELEVATION CERTIFICATE
IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON PAGES 9-19

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.: _____

City: _____ State: _____ ZIP Code: _____

FOR INSURANCE COMPANY USE
Policy Number: _____
Company NAIC Number: _____

SECTION E – BUILDING MEASUREMENT INFORMATION (SURVEY NOT REQUIRED)
FOR ZONE AO, ZONE ARIAQ, AND ZONE A (WITHOUT BFE)

For Zones AO, ARIAQ, and A (without BFE), complete items E1–E5. For items E1–E4, use natural grade, if available. If the Certificate is intended to support a Letter of Map Change request, complete Sections A, B, and C. Check the measurement used. In Puerto Rico only, enter meters.

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

E1. Provide measurements (C2.a in applicable Building Diagram) for the following and check the appropriate boxes to show whether the measurement is above or below the natural HAG and the 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 8–9 with permanent flood openings provided in Section A items 8 and/or 9 (see pages 1–2 of Instructions), the next higher floor (C2.b) is applicable.
Building Diagram 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.

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SECTION F – PROPERTY OWNER (OR OWNER'S AUTHORIZED REPRESENTATIVE) CERTIFICATION

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

☐ Check here if attachments and describe in the Comments area.

Property Owner or Owner's Authorized Representative Name: _____

Address: _____

City: _____ State: ZIP Code: _____

Signature: _____ Date: _____

Telephone: _____ Ext.: _____ Email: _____

Comments: _____

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ELEVATION CERTIFICATE

IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON PAGES 9-19

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.: _____

City: _____ State: _____ ZIP Code: _____

FOR INSURANCE COMPANY USE

Policy Number: _____

Company NAIC Number: _____

SECTION G – COMMUNITY INFORMATION (RECOMMENDED FOR COMMUNITY OFFICIAL COMPLETION)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Section A, B, C, E, G, or H of this Elevation Certificate. Complete the applicable item(s) and sign below when:

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 state law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)

G2.a. ☐ A local official completed Section E for a building located in Zone A (without a BFE), Zone AO, or Zone ARAO, or when item E5 is completed for a building located in Zone AO.

G2.b. ☐ A local official completed Section H for insurance purposes.

G3. ☐ In the Comments area of Section G, the local official describes specific corrections to the information in Sections A, B, E and H.

G4. ☐ The following information (Items G5–G11) is provided for community floodplain management purposes.

G5. Permit Number: _____ G6. Date Permit Issued: _____

G7. Date Certificate of Compliance/Occupancy Issued: _____

G8. This permit has been issued for: ☐ New Construction ☐ Substantial Improvement

G9.a. Elevation of as-built lowest floor (including basement) of the building: _____ feet _____ meters Datum: _____

G9.b. Elevation of bottom of as-built lowest horizontal structural member: _____ feet _____ meters Datum: _____

G10.a. BFE (or depth in Zone AO) of flooding at the building site: _____ feet _____ meters Datum: _____

G10.b. Community's minimum elevation (or depth in Zone AO) requirement for the lowest floor or lowest horizontal structural member: _____ feet _____ meters Datum: _____

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member: _____ feet _____ meters Datum: _____

G10.a. BFE (or depth in Zone AO) of flooding at the building site: _____ feet _____ meters Datum: _____

G10.b. Community's minimum elevation (or depth in Zone AO) requirement for the lowest floor or lowest horizontal structural member: _____ feet _____ meters Datum: _____

G11. Variance issued? ☐ Yes ☐ No If yes, attach documentation and describe in the Comments area.

The local official who provides information in Section G must sign here. I have completed the information in Section G and certify that it is correct to the best of my knowledge. If applicable, I have also provided specific corrections in the Comments area of this section.

Local Official's Name: _____ Title: _____

NFIP Community Name: _____

Telephone: _____ Ext.: _____ Email: _____

Address: _____

City: _____ State: ZIP Code: _____

Signature: _____ Date: _____

Comments (including type of equipment and location, per C2.e; description of any attachments, and corrections to specific information in Sections A, B, D, E, or H): _____

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ELEVATION CERTIFICATE

IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON PAGES 9-19

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.: _____

City: _____ State: _____ ZIP Code: _____

FOR INSURANCE COMPANY USE

Policy Number: _____

Company NAIC Number: _____

SECTION H – BUILDING'S FIRST FLOOR HEIGHT INFORMATION FOR ALL ZONES (SURVEY NOT REQUIRED) (FOR INSURANCE PURPOSES ONLY)

The property owner, owner's authorized representative, or local floodplain management official may complete Section H for all flood zones to determine the building's first floor height for insurance purposes. Sections A, B, and I must also be completed. Enter heights to the nearest tenth of a foot (nearest tenth of a meter in Puerto Rico). **Reference the Foundation Type Diagrams (at the end of Section H Instructions) and the appropriate Building Diagrams (at the end of Section I Instructions) to complete this section.**

H1. Provide the height of the top of the floor (as indicated in Foundation Type Diagrams) above the Lowest Adjacent Grade (LAG):

a) **For Building Diagrams 1A, 1B, 3, and 5–9.** Top of bottom floor (include above-grade floors only for buildings with subgrade crawlspaces or enclosure floors) is: _____ feet _____ meters ☐ above the LAG

b) **For Building Diagrams 2A, 2B, 4, and 6–9.** Top of next higher floor (i.e., the floor above basement, crawlspace, or enclosure floor) is: _____ feet _____ meters ☐ above the LAG

H2. Is all Machinery and Equipment servicing the building (as listed in Item H2 instructions) elevated to or above the floor indicated by the H2 arrow (shown in the Foundation Type Diagrams at end of Section H instructions) for the appropriate Building Diagram?

☐ Yes ☐ No

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SECTION I – PROPERTY OWNER (OR OWNER'S AUTHORIZED REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and H must sign here. The statements in Sections A, B, and H are correct to the best of my knowledge. **Note:** If the local floodplain management official completed Section H, they should indicate in Item G2.b and sign Section G5.

☐ Check here if attachments are provided (including required photos) and describe each attachment in the Comments area.

Property Owner or Owner's Authorized Representative Name: _____

Address: _____

City: _____ State: ZIP Code: _____

Signature: _____ Date: _____

Telephone: _____ Ext.: _____ Email: _____

Comments: _____

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ELEVATION CERTIFICATE

IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON PAGES 9-19

BUILDING PHOTOGRAPHS

See Instructions for Item A6.

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.: _____

City: _____ State: _____ ZIP Code: _____

FOR INSURANCE COMPANY USE

Policy Number: _____

Company NAIC Number: _____

Instructions. Insert below at least two and when possible four photographs showing each side of the building (for example, may only be able to take front and back pictures of bowerhouses/bowhouses). Identify all photographs with the date taken and "Front View," "Rear View," "Right Side View," or "Left Side View." Photographs must show the foundation. When flood openings are present, include at least one close-up photograph of representative flood openings or vents, as indicated in Sections A6 and A8.

Photo One _____

Photo One Caption: _____ Clear Photo One

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DEPARTMENT OF HOMELAND SECURITY - FEDERAL EMERGENCY MANAGEMENT AGENCY APPLICATION FORM FOR SINGLE RESIDENTIAL LOT OR STRUCTURE AMENDMENTS TO NATIONAL FLOOD INSURANCE PROGRAM MAPS		O.M.B. NO. 1660-0015 Expires February 28, 2014		
PAPERWORK BURDEN DISCLOSURE NOTICE Public reporting burden for this data collection is estimated to average 2.4 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 reviewing this 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 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 (1660-0015) NOTE: Do not send your completed form to this address. This form should be used to request that the Department of Homeland Security's Federal Emergency Management Agency (FEMA) remove a single structure or legally recorded parcel of land or portion thereof, described by metes and bounds, certified by a registered professional engineer or licensed land surveyor, from a designated Special Flood Hazard Area (SFHA), an area that would be inundated by the flood having a 1% chance of being equalled or exceeded in any given year (base flood), via Letter of Map Amendment (LOMA). It shall not be used for requests submitted by developers, for requests involving multiple structures or lots, for property in alluvial fan areas, for property located within the regulatory floodway, or requests involving the placement of fill. (NOTE: Use MT-1 forms for such requests). Fill is defined as material from any source (including the subject property) placed that raises the grade to or above the Base Flood Elevation (BFE). The common construction practice of removing unsuitable existing material (topsoil) and backfilling with select structural material is not considered the placement of fill if the practice does not alter the existing (natural grade) elevation, which is at or above the BFE. Also, fill that is placed before the date of the first National Flood Insurance Program (NFIP) map showing the area in an SFHA is considered natural grade. <table border="1"><tr><td>LOMA:</td><td>A letter from DHS-FEMA stating that an existing structure or parcel of land that has not been elevated by fill would not be inundated by the base flood.</td></tr></table>			LOMA:	A letter from DHS-FEMA stating that an existing structure or parcel of land that has not been elevated by fill would not be inundated by the base flood.
LOMA:	A letter from DHS-FEMA stating that an existing structure or parcel of land that has not been elevated by fill would not be inundated by the base flood.			

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

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

☐ No ☐ Yes - If Yes, **STOP!! - You must complete the MT-1 application forms; visit http://www.fema.gov/plan/prevent/fhm/dl_mt-1.shtm or call the FEMA Map Information eXchange toll free: (877-FEMA MAP) (877-336-2627)**

2. Legal description of Property (Lot, Block, Subdivision or abbreviated description from the Deed) **and** street address of the Property (required):

3. Are you requesting that a flood zone determination be completed for (check one):

☐ A structure on your property? What is the date of construction? (MM/YYYY)

☐ A portion of your legally recorded property? (A certified metes and bounds description and map of the area to be removed, certified by a registered professional engineer or licensed land surveyor, are **required**. For the preferred format of metes and bounds descriptions, please refer to the MT-EZ Instructions.)

☐ Your entire legally recorded property?

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

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

Applicant's Name (required):	E-mail address (optional) <input type="checkbox"/> By checking here you may receive correspondence electronically at the email address provided:
Mailing Address (include Company name if applicable) (required):	Daytime Telephone No. (required):
	Fax No. (optional):
Signature of Applicant (required)	Date (required)

End of Section A

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B - This section **must** be completed by a registered professional engineer or licensed land surveyor. Incomplete submissions will result in processing delays.

NOTE: If the request is to have a flood zone determination completed for the structure, and an Elevation Certificate has been completed for this property, it may be submitted in lieu of Section B. If the request is to have a flood zone determination completed for the entire legally recorded property, or a portion thereof, the lowest elevation on the lot or described portion must be provided in Section 5.

Applicable Regulations
The regulations pertaining to LOMAs are presented in the National Flood Insurance Program (NFIP) regulations under Title 44, Chapter I, Parts 70 and 72, Code of Federal Regulations. The purpose of Part 70 is to provide an administrative procedure whereby DHS-FEMA will review information submitted by an owner or lessee of property who believes that his or her property has been inadvertently included in a designated SFHA. The necessity of Part 70 is due in part to the technical difficulty of accurately delineating the SFHA boundary on an NFIP map. Part 70 procedures shall not apply if the topography has been altered to raise the original ground to or above the BFE since the effective date of the first NFIP map (e.g., a Flood Insurance Rate Map (FIRM) or Flood Hazard Boundary Map (FHBM)) showing the property to be within the SFHA.

Basis of Determination
DHS-FEMA's determination as to whether a structure or legally recorded parcel of land, or portion thereof, described by metes and bounds, may be removed from the SFHA will be based upon a comparison of the Base (1%-annual-chance) Flood Elevation (BFE) with certain elevation information. The elevation information required is dependent upon what is to be removed from the SFHA. For Zones A and AO, please refer to Page 7 of the MT-EZ Form Instructions for information regarding BFE development in those areas and supporting data requirements.

Determination Requested For: (check one)	Elevation Information Required: (complete Item 5)
<input type="checkbox"/> Structure located on natural grade (LOMA)	Lowest Adjacent Grade to the structure (the elevation of the lowest ground touching the structure including attached patios, stairs, deck supports or garages)
<input type="checkbox"/> Legally recorded parcel of land, or portion thereof (LOMA)	Elevation of the lowest ground on the parcel or within the portion of land to be removed from the SFHA

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1. PROPERTY INFORMATION			
Property Description (Lot and Block Number, Tax Parcel Number, or Abbreviated Description from the Deed, etc.):			
2. STRUCTURE INFORMATION			
Street Address (including Apt. Unit, Suite, and/or Bldg. No.):			
What is the type of construction? (check one) <input type="checkbox"/> crawl space <input type="checkbox"/> slab on grade <input type="checkbox"/> basement/enclosure			
<input type="checkbox"/> other (explain):			
3. GEOGRAPHIC COORDINATE DATA			
Please provide the Latitude and Longitude of the most upstream edge of the structure (in decimal degrees to nearest fifth decimal place)			
Indicate Datum: <input type="checkbox"/> WGS84 <input type="checkbox"/> NAD83 <input type="checkbox"/> NAD27 Lat. Long.			
Please provide the Latitude and Longitude of the most upstream edge of the property (in decimal degrees to nearest fifth decimal place)			
Indicate Datum: <input type="checkbox"/> WGS84 <input type="checkbox"/> NAD83 <input type="checkbox"/> NAD27 Lat. Long.			
4. FLOOD INSURANCE RATE MAP (FIRM) INFORMATION			
NFIP Community Number:	Map Panel Number:	Base Flood Elevation (BFE):	Source of BFE:

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5. ELEVATION INFORMATION (SURVEY REQUIRED)

- Lowest Adjacent Grade (LAG) to the structure (to the nearest 0.1 foot or meter) ft. (m)
- Elevation of the lowest grade on the property, or within metes and bounds area (to the nearest 0.1 foot or meter) ft. (m)
- Indicate the datum (if different from NGVD 29 or NAVD 88 attach datum conversion) ☐ NGVD 29 ☐ NAVD 88 ☐ Other (add attachment)
- Has FEMA identified this area as subject to land subsidence or uplift? ☐ No ☐ Yes (provide date of current releveling:)

This certification is to be signed and sealed by a licensed land surveyor, registered professional engineer, or architect authorized by law to certify elevation information. All documents submitted in support of this request are correct to the best of my knowledge. I understand that any false statement may be punishable by fine or imprisonment under Title 18 of the United States Code, Section 1001.

Certifier's Name: License No.: Expiration Date:
 Company Name: Telephone No.: Fax No.:
 Email:
 Signature: Date:

Seal (optional)

DHS - FEMA Form 086-0-22, FEB 11 MT-EZ Form Page 2 of 3

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In addition to this form (MT-EZ), please complete the checklist below. **ALL** requests must include one copy of the following:

- ☐ Copy of the effective FIRM panel on which the structure and/or property location has been accurately plotted
- ☐ Copy of the Subdivision Plat Map (with recordation data and stamp of the Recorder's Office) **OR**
- ☐ Copy of the Property Deed (with recordation data and stamp of the Recorder's Office), accompanied by a tax assessor's map or other certified map showing the surveyed location of the property relative to local streets and watercourses. The map should include at least one street intersection that is shown on the FIRM panel.
- ☐ Please include a map scale and North arrow on all maps submitted.

Please do **not** submit original documents. Please retain a copy of all submitted documents for your records.

DHS-FEMA encourages the submission of all required data in a digital format (e.g. scanned documents and images on Compact Disc [CD]). Digital submissions help to further DHS-FEMA's Digital Vision and also may facilitate the processing of your request.

Incomplete submissions will result in processing delays. For additional information regarding this form, including where to obtain the supporting documents listed above, please refer to the MT-EZ Form Instructions located at http://www.fema.gov/plan/prevent/fhm/dl_mt-ez.shtml.

Mail your request to:

LOMC CLEARINGHOUSE
 847 SOUTH PICKETT STREET
 ALEXANDRIA, VA 22304-4605
 Attn: LOMA Manager

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1. NFIP Community Number: Property Name or Address:

2. Are the elevations listed below based on ☐ existing or ☐ proposed conditions? (Check one)

3. For the existing or proposed structures listed below, what are the types of construction? (check all that apply)
☐ crawl space ☐ slab on grade ☐ basement/enclosure ☐ other (explain)

4. Has DHS - FEMA identified this area as subject to land subsidence or uplift? (see instructions) ☐ Yes ☐ No
 If yes, what is the date of the current re-leveling? (month/year)

5. What is the elevation datum? ☐ NGVD 29 ☐ NAVD 88 ☐ Other (explain)
 If any of the elevations listed below were computed using a datum different than the datum used for the effective Flood Insurance Rate Map (FIRM) (e.g., NGVD 29 or NAVD 88), what was the conversion factor?
 Local Elevation +/- ft. = FIRM Datum

6. Please provide the Latitude and Longitude of the most upstream edge of the structure (in decimal degrees to the nearest fifth decimal place):
 Indicate Datum: ☐ WGS84 ☐ NAD83 ☐ NAD27 Lat. Long.
 Please provide the Latitude and Longitude of the most upstream edge of the property (in decimal degrees to the nearest fifth decimal place):
 Indicate Datum: ☐ WGS84 ☐ NAD83 ☐ NAD27 Lat. Long.

Address	Lot Number	Block Number	Lowest Lot Elevation*	Lowest Adjacent Grade To Structure	Base Flood Elevation	BFE Source
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

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MT-2 REVISION REQUEST SUBMITTAL CHECKLIST

PART A: GENERAL REQUIREMENTS

ELEMENTS	Yes	N/A
NARRATIVE: Please provide a written description of the purpose of the request, the scope of the proposed/as-built project, and the methodology used to analyze the project effects.	<input type="checkbox"/>	<input type="checkbox"/>
MT-2 APPLICATION FORMS: Please provide completed forms applicable to your request. Ensure that MT-2 Form 1 was signed by the requester, certifying engineer, and each community affected by the revision.	<input type="checkbox"/>	<input type="checkbox"/>
HYDROLOGIC ANALYSIS: If applicable, please provide a FEMA-acceptable hydrologic analysis in digital format, a drainage area map, and associated backup information (e.g., calculations used to determine lag time, CN, and loss values, as well as land use and soil maps). FEMA-acceptable models can be accessed at https://www.fema.gov/flood-maps/products-tools/numerical-models/hydrologic .	<input type="checkbox"/>	<input type="checkbox"/>
HYDRAULIC ANALYSIS: Please provide a FEMA-acceptable hydraulic analysis in digital format. Information on FEMA-acceptable models can be accessed at on their website.	<input type="checkbox"/>	<input type="checkbox"/>
CERTIFIED TOPOGRAPHIC WORK MAP: Please provide a certified topographic work map that meets the mapping requirements outlined in MT-2 Form 2. If available, please provide spatially referenced Geographic Information System (GIS) data. If GIS data are not available, you may submit digital Computer-Aided Design (CAD) data.	<input type="checkbox"/>	<input type="checkbox"/>

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ANNOTATED FIRM: Please submit a revised Flood Insurance Rate Map (FIRM), at the scale of the effective FIRM, which shows the revised boundary delineation of the base (1-percent-annual-chance) floodplain, 0.2-percent-annual-chance floodplain, and regulatory floodway and how it ties into the boundary delineation shown on the effective FIRM at the downstream and upstream ends of the revised reach.

REVIEW FEE PAYMENT: Please include the appropriate review fee payment. The current fee schedule is available on the FEMA website at <https://www.fema.gov/flood-maps/change-your-flood-zone/status/flood-map-related-fees>.

MEET 65.10 REQUIREMENT: If you intend to show that a berm/levee/floodwall reduces the flood hazard, please submit all the NFIP data requirements outlined in Title 44, Chapter 1, Section 65.10 of the Code of Federal Regulations (44 CFR 65.10).

OPERATION AND MAINTENANCE PLAN: If the request involves a berm, levee, floodwall, dam, and/or detention basin project, please submit an officially adopted operation and maintenance plan.

PROPOSED/AS-BUILT PLANS: Please submit proposed/as-built plans, certified by a registered Professional Engineer, for all project elements for which this applies.

FLOODWAY NOTICE: If the revision results in changing or establishing regulatory floodway boundaries, please provide a floodway public notice or a statement by your community that it has notified all affected property owners, in compliance with the National Flood Insurance Program (NFIP) regulations at 44 CFR 65.7(b)(1).

PROPERTY OWNER NOTIFICATION: If the revision results in any widening/shifting/establishing of a base floodplain and/or any increasing/establishing of Base Flood Elevations (BFEs), please provide copies of the individual legal notices sent to all property owners affected by increased flood hazards.

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Submitting the Package to DHS-FEMA

In addition to the completed MT-EZ form, all requests must include one copy of the subdivision plat map (with recordation data and stamp of the Recorder's Office) or a copy of the property deed (with recordation data and stamp of the Recorder's Office), accompanied by a tax assessor's map or other suitable map showing the surveyed location of the property with respect to local streets and watercourses; a copy of the effective FIRM panel; and a map scale and North arrow for all maps submitted. Please do not submit original documents. Please retain a copy of all submitted documents for your records.

DHS-FEMA encourages electronic submissions through the Online LOMC Tool at <https://hazards.fema.gov>. This new tool is a convenient way for applicants to upload all information and supporting documentation and check the status of their request online. Users can submit requests through this tool instead of filing the paper form via mail.

However, for requests submitted via mail, DHS-FEMA encourages the submission of all required data in digital format (e.g., scanned documents on a CD). Please submit all application forms and data to support a request for a flood zone determination to the address listed below. **Incomplete submissions will result in processing delays.**

LOMC CLEARINGHOUSE
3601 EISENHOWER AVENUE, SUITE 500
ALEXANDRIA, VA 22304-6426

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eLOMA Registration Information

Registration Information

*Username

*Company Name

*Last Name

*First Name

Address

Address

*Email Address

*Phone Number

Alternative Phone Number

eLOMA License Information

*Issuing State

*License Number

Expiration Date

ADD LICENSE

Issuing State

VA

DC

Remove License

fate Agency

Log the tool

Print & Sign

Close Account

Cancel

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Lot 1, The Estates, Western Shores Subdivision as recorded in Plat Book 1, Page 1, Slide 1 in the office of the Calloway County Clerk, Kentucky

Lot 1, the Estates, Western Shores subdivision as shown on Plat recorded in Book 1, Page 1, Slide 1 in the Office of the Clerk, Calloway County, Kentucky

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Online Letter of Map Change

What is a Letter of Map Change (LOMC)?

A Letter of Map Change (LOMC) is a letter which reflects an official change to an effective Flood Insurance Rate Map (FIRM). LOMCS are issued in response to a request of FEMA to revise or amend its effective flood map to remove a property or reflect changed flooding conditions on the effective map.

Read More

What is the Online LOMC site?

The Online LOMC web application allows home owners or their designated representatives to easily request a Letter of Map Change (LOMC). Use this site if your property was inadvertently included in a flood zone, or if the addition of fill elevated your property so that it is above the flood zone.

Read More

Sign In to Online LOMC

Email Address

Password (Forgot Password?)

Sign In

New User? Click here to Sign Up!

All information is protected and encrypted from unauthorized disclosure

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Online Letter of Map Change

Application ID

Property Description

FEMA Case Number

FEMA Case Created Date

Status

Action

11695449824	677 Commerce Landing Road	13-04-1872A	12/19/2012	COMPLETED (01/15/2013)	
111352523743	140 Crane Lane	13-04-5777A	06/07/2013	COMPLETED (01/26/2014)	
180828597494	204 Hatchee Trace	13-04-7370A	08/05/2013	COMPLETED (08/13/2013)	
240336275107	175 Rhett Blvd	13-04-8441A	09/17/2013	COMPLETED (01/26/2014)	
440326439848	229 Arrowhead Trail	14-04-3535A	02/12/2014	COMPLETED (03/28/2014)	
440890913605	320 Arrowhead Trail	14-04-3536A	02/12/2014	COMPLETED (03/07/2014)	
549884587942	190 Wharton Road	14-04-5759A	04/27/2014	COMPLETED (06/10/2014)	
720570979573	116 Noel Drive	14-04-9801A	08/21/2014	COMPLETED (10/10/2014)	
911371009784	211 Cherokee Court	15-04-2630A	12/19/2014	COMPLETED (01/03/2015)	
1158315062873	233 Birdsong Drive	15-04-8069A	07/02/2015	COMPLETED (08/06/2015)	

Showing 1 to 10 of 32 entries

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LOMC Application

Application ID: None (Generated upon save)

Amendment

All (*) indicate a required field

Flood Zone Information (page 1 of 1)

The Online LOMC web application is designed to assist requesters (community officials, individual property owners, and others) in gathering the information DHS-FEMA needs to determine whether property (parcel of land or structure) requires flood insurance. The information provided below will aid in determining the LOMC type and processing fee.

Flood Determination Details

*Are you requesting that a flood determination be completed for:

Structures on your property

A portion of land within the bounds of the property

The entire legally recorded property

*Lot Type:

Single structure

Single lot

Multiple structures

Multiple lots

Cancel

Save

Save And Close

Continue

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Online Letter of Map Change

Application ID: 4762573642936 Amendment All (*) indicate a required field.

Community Information Page 3 of 10

Please select the Community Details and click "Add Community". Repeat the step for each community and click "Continue".

Community Details

* State, District or Territory

* County

* Community

Add Community

Previous Save Save And Close Continue

Certain documents require a plug-in. To download plug-in for Adobe Acrobat Reader click here and/or Microsoft Word click here.

HOME FEMA.gov Ready Policy Accessibility Site Map Contact Us

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Online Letter of Map Change

Application ID: 4762573642936 Amendment All (*) indicate a required field.

Property Address Page 4 of 10

Enter the street address for the property in which you are requesting a LOMC. First, enter the legal description of the property by entering one of the following: Lot, Block/Block, Subdivision or Property Description. If you are not sure of the legal description, type "unknown" in the Property Description field. After completion, click "Add Property". Repeat the steps for each property and click "Continue".

Street Address of the Property

* Address 1

Address 2

* City

* State, District or Territory

* ZIP Code

Legal Description of Property

Lot

Block/Block

Subdivision

Property Description

Add Property

Previous Save Save And Close Continue

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Online Letter of Map Change

Application ID: 4762573642936 Amendment All (*) indicate a required field.

Fill Information Page 5 of 10

Fill is defined as material placed from any source (including the subject property) that raises the ground to or above the Base Flood Elevation (BFE). The common construction practice of removing undesirable existing material (deposits) and backfilling with select structural material is not considered the placement of fill. This practice does not alter the existing (natural grade) elevation, which is at or above the BFE. Fill that is placed before the date of the first National Flood Insurance Program (NFIP) map showing the area in a Special Flood Hazard Area (SFHA) is considered natural grade.

Base Flood Elevation Details

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

☐ Yes

☐ No

* Will fill be placed on your property to raise ground that is below the BFE?

☐ Yes

☐ No

Previous Save Save And Close Continue

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Online Letter of Map Change

Application ID: 4762573642936 Amendment All (*) indicate a required field.

Processing Fee Information Page 6 of 10

The LOMC Type and Processing Fee are system generated based on your previous responses. The type and fee are subject to change upon FEMA's review of your application.

LOMC Type

☐ LOMA

☐ CLOMA

☐ LOMR-F

☐ CLOMR-F

Processing Fee

☐ No Fee Required

☐ \$125.00 (Single Substructure LOMR-F following a CLOMR-F)

☐ \$425.00 (Single Substructure LOMR-F)

☐ \$550.00 (Single Substructure CLOMA or CLOMR-F)

☐ \$750.00 (Multiple Substructures LOMR-F following a CLOMR-F, or multiple Substructures CLOMA)

☐ \$950.00 (Multiple Substructures LOMR-F or CLOMR-F)

Previous Save Save And Close Continue

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Online Letter of Map Change

Application ID: 4762573642936 Amendment All (*) indicate a required field.

Applicant Information Page 7 of 10

Please enter the information of the person who is applying for a LOMC. The address entered should be the mailing address of the applicant, not the address of the property requesting a LOMC. Contact information is the same. The email address provided in the Contact Information section will be the primary means of communication between FEMA and the applicant.

Applicant Name

* Applicant Name

* Title

* Address

* City

* State, District or Territory

* ZIP Code

Contact Information

* Email Address

* Company

* Phone (area, 100-455-5555)

* Fax (area, 100-455-5555)

Previous Save Save And Close Continue

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Online Letter of Map Change

Application ID: 4762573642936 Amendment All (*) indicate a required field.

Applicant Information Page 7 of 10

Please enter the information of the person who is applying for a LOMC. The address entered should be the mailing address of the applicant, not the address of the property requesting a LOMC. Contact information is the same. The email address provided in the Contact Information section will be the primary means of communication between FEMA and the applicant.

Applicant Name

* Applicant Name

* Title

* Address

* City

* State, District or Territory

* ZIP Code

Contact Information

* Email Address

* Company

* Phone (area, 100-455-5555)

* Fax (area, 100-455-5555)

Previous Save Save And Close Continue

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Online Letter of Map Change

Welcome, Jonathan Payne LOMC Home Contact FEMA FAQ Help Sign Out

LOMC Application

Application ID: 4762573642936 Amendment All (*) indicate a required field.

Additional Form(s) (Page 9 of 11)

If your property or structure is clearly outside of a Special Flood Hazard Area, you may not have to submit the Elevation Form or Elevation Certificate. Please be aware, by not submitting this form the processing of your request may be delayed. [\(Need Help?\)](#)

Should you need to provide an Elevation form or Elevation Certificate, please click the corresponding link to access and download the [Elevation Form](#)

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Online Letter of Map Change

Welcome, Jonathan Payne LOMC Home Contact FEMA FAQ Help Sign Out

LOMC Application

Application ID: 4762573642936 Amendment All (*) indicate a required field.

Supporting Documents and Upload (Page 10 of 11)

You must select and upload a Tax Assessor's Map or other suitable map document. In addition, please select and upload either a Copy of the Property Deed (with recordation data and stamp of the Recorder's Office) OR a Copy of the Subdivision Plat Map for property (with recordation data and stamp of the Recorder's Office) as separate files. Additional supporting documents may aid in the application process. If you do not upload the appropriate supporting documents, you will not be able to continue the LOMC application process.

Supporting Documents

- ☐ Copy of the effective FEMA panel on which the structure and/or property location has been accurately plotted
- ☐ Copy of the Subdivision Plat Map for property (with recordation data and stamp of the Recorder's Office)
- ☐ Copy of the Property Deed (with recordation data and stamp of the Recorder's Office)
- ☐ Tax Assessor's Map or other suitable map document
- ☐ Form 3 - Elevation Form
- ☐ Form 3 - Community Acknowledgment Form (required for CLOMR-F, LOMR-F, or LOMAs with a structure in the floodway)
- ☐ Documented ESA compliance (required for CLOMR-F) [\(Need Help?\)](#)
- ☐ A map and bounds description and map of the area to be removed, certified by a licensed land surveyor or registered professional engineer (required when a portion of the property is requested)
- ☐ Additional Supporting Data

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Upload Supporting Documents

Upload all supporting documents. Please retain a copy of all submitted documents for your records.

DHS-FEMA encourages the submission of all required data in a digital format (e.g. scanned and images). Digital submissions help to further DHS-FEMA's Digital Vision and also may facilitate the processing of your request.

An incomplete submission will result in processing delays. For additional information regarding this form, including where to obtain supporting documents listed above, please refer to <http://www.fema.gov/LOMC-application-forms-instructions>

Click "Upload" to add supporting documents.

Is your physical document too large to scan? (e.g. oversized map) [Click Here](#)

Upload

Previous Save Save And Close Continue

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Online Letter of Map Change

Welcome, Jonathan Payne LOMC Home Contact FEMA FAQ Help Sign Out

LOMC Application

Application ID: 4762573642936 Amendment All (*) indicate a required field.

Upload Supporting Documents (Page 11 of 11)

Please browse to your file. Add a description to identify your file(s) for future reference. Click "Upload" to upload your supporting documents. Repeat the steps to add/upload additional documents. To delete or review a list of your uploads, click "Back to Supporting Documents" to navigate to the previous page.

Select file to upload: [Browse...](#) A152_Labelview Shores.pdf

Description:

Upload

Back to Supporting Documents

Previous Save Save And Close Continue

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Online Letter of Map Change

Welcome, Jonathan Payne LOMC Home Contact FEMA FAQ Help Sign Out

LOMC Application

Application ID: 4762573642936 Amendment All (*) indicate a required field.

Upload Supporting Documents (Page 11 of 11)

Your file has been uploaded successfully.

Please browse to your file. Add a description to identify your file(s) for future reference. Click "Upload" to upload your supporting documents. Repeat the steps to add/upload additional documents. To delete or review a list of your uploads, click "Back to Supporting Documents" to navigate to the previous page.

Select file to upload: [Browse...](#) No file selected.

Description:

Upload

Files Uploaded

File Name	Description	Date Uploaded
A152_Labelview Shores.pdf	Subdivision Plat Map	09/06/2023 2:53:32 PM

Back to Supporting Documents

Previous Save Save And Close Continue

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Online Letter of Map Change

Welcome, Jonathan Payne LOMC Home Contact FEMA FAQ Help Sign Out

LOMC Application

Application ID: 4762573642936 Amendment All (*) indicate a required field.

Certify (Page 12 of 11)

PENALTY CLAUSE: All data and documents supporting this request are being kept on file in case they need to be referenced in the future. All data entered for this application and any required documents submitted in support of this request are correct to the best of my knowledge. I understand that any false statement may be punishable by fine or imprisonment under Title 18 of the United States Code, Section 1001.

☐ I, Jonathan Payne, certify that I have provided truthful information, I acknowledge that the status of my application may be viewed on the Online LOMC home page and I understand that I will need to check the email that I provided for future FEMA correspondence.

Signature Date: 09/06/2023

Previous Save Save And Close Continue

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