

The Elevation Certificate

for Floodplain Administrators

Chuck Chase



- Certified Floodplain Manager 
- MS in Management Systems 
- BS Education 
- BS Mathematics 
- Outreach Coordinator
Nebraska DNR

The Elevation Certificate

The Elevation Certificate (EC) is an administrative tool used by the NFIP to provide elevation information necessary to

- ensure compliance with community floodplain management ordinances;
- inform mitigation actions that will lower flood risk;
- and/or support a request for a LOMA to remove a building from a high-risk area.

It shows the location of the building, lowest floor elevation as compared to base flood elevation (BFE), building characteristics, and flood zone.

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

OMB No. 1650-0008
Expiration Date: November 30, 2022

ELEVATION CERTIFICATE

Important: Follow the instructions on pages 1-8.

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="checkbox"/> NAD 1927 <input type="checkbox"/> NAD 1983						
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.						
A7. Building Diagram Number _____						
A8. For a building with a crawlspace or enclosure(s):						
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 _____						
c) Total net area of flood openings in A8.b _____ sq ft						
d) Engineered flood openings? <input type="checkbox"/> Yes <input type="checkbox"/> No						
A9. For a building with an attached garage:						
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 A9.b _____ sq ft						
d) Engineered flood openings? <input type="checkbox"/> Yes <input type="checkbox"/> No						
SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION						
B1. NFIP Community Name & Community Number			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 AC, use Base Flood Depth)	
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in item B9: <input type="checkbox"/> FIS Profile <input type="checkbox"/> FIRM <input type="checkbox"/> Community Determined <input type="checkbox"/> Other/Source: _____						
B11. Indicate elevation datum used for BFE in item B9: <input type="checkbox"/> NGVD 1929 <input type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other/Source: _____						
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? <input type="checkbox"/> Yes <input type="checkbox"/> No Designation Date: _____ <input type="checkbox"/> CBRS <input type="checkbox"/> OPA						

Elevation Certificate

- Technically FEMA Form 086-0-33
- Ensure you are using the December 2019 version
- Became effective 2/21/20
- No grace period
- You can find it on the DNR Website:
<https://dnr.nebraska.gov/floodplain/digital-desk-reference>

Elevation Certificate

- **Not** required by FEMA for permitting
 - But may be required by your community
 - Is required by the CRS program
- **Is** required by FEMA for LOMAs and LOMR-Fs

Verify the date in the lower left or upper right corner of the EC

B1. NFIP Community Name & Community Number <input type="text"/>		
B4. Map/Panel Number <input type="text"/>	B5. Suffix <input type="text"/>	B6. FIRM Index Date <input type="text"/>
B10. Indicate the source of the Base Flood Elevation <input type="checkbox"/> FIS Profile <input type="checkbox"/> FIRM <input type="checkbox"/> Community Det		
B11. Indicate elevation datum used for BFE in Item		
B12. Is the building located in a Coastal Barrier Re Designation Date: <input type="text"/>		
FEMA Form 086-0-33 (12/19) 		

	OMB No. 1660-0008 Expiration Date: November 30, 2022
CERTIFICATE ns on pages 1-9.	
ty official, (2) insurance agent/company, and (3) building owner.	
	FOR INSURANCE COMPANY USE
<input type="text"/>	Policy Number: <input type="text"/>
r P.O. Route and <input type="text"/>	Company NAIC Number: <input type="text"/>
<input type="text"/>	ZIP Code <input type="text"/>
gal Description, etc.) <input type="text"/>	
etc.) <input type="text"/>	

Section A

ELEVATION CERTIFICATE

Important: Follow the instructions on pages 1–9.

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="checkbox"/> NAD 1927 <input type="checkbox"/> NAD 1983		
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.		
A7. Building Diagram Number		
A8. For a building with a crawlspace or enclosure(s):		
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		
c) Total net area of flood openings in A8.b sq in		
d) Engineered flood openings? <input type="checkbox"/> Yes <input type="checkbox"/> No		
A9. For a building with an attached garage:		
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 A9.b sq in		
d) Engineered flood openings? <input type="checkbox"/> Yes <input type="checkbox"/> No		

Sections A2 and A3

- Either Section A2 or A3 must be filled out
- Regardless, City, State, and Zip need to be filled in and is often missed
- This address must be copied to the top of each subsequent page, and they must match

ELEVATION CERTIFICATE		
Important: Follow the instructions on pages 1–9.		
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="checkbox"/> NAD 1927 <input type="checkbox"/> NAD 1983

Section A4

ELEVATION CERTIFICATE

Important: Follow the instructions on pages 1–9.

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	A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.)	
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.)		
A5. Latitude/Longitude: Lat. _____ Long. _____ Horizontal Datum: <input type="checkbox"/> NAD 1927 <input type="checkbox"/> NAD 1983		
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.		
A7. Building Diagram Number _____		
A8. For a building with a crawlspace or enclosure(s):		
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 _____		
c) Total net area of flood openings in A8.b _____ sq in		
d) Engineered flood openings? <input type="checkbox"/> Yes <input type="checkbox"/> No		
A9. For a building with an attached garage:		
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 A9.b _____ sq in		
d) Engineered flood openings? <input type="checkbox"/> Yes <input type="checkbox"/> No		

A4 is Required

- Residential, Non-Residential, or Accessory are key since that is how the NFIP categorizes structures
- Terms like addition, commercial, industrial, housing complex are also helpful
- Something is required in this blank, and it must be enough for the reader to determine if the structure is Residential, Non-Residential, or Accessory.

Additions!

If this is for an addition, ensure that the location of the elevation shot is provided in section D!!!

Is this an EC for just the Addition?

- The lowest floor elevation for the addition may not be the lowest floor for the structure.

Is this an EC for the entire structure?

- The lowest floor for the structure may not indicate if the addition is built in compliance with your permit for the addition.



Sections A1, A5, and A6 are not required

ELEVATION CERTIFICATE

Important: Follow the instructions on pages 1–9.

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., Box No.)	
City	State
	ZIP Code

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

A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.

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

A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.

A7. Building Diagram Number _____

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

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 _____

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

d) Engineered flood openings? Yes No

A9. For a building with an attached garage:

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 A9.b _____ sq in

d) Engineered flood openings? Yes No

A1 and A5 are NOT Required for Permitting

- The owners name will be on the permit, and if the EC was provided to a prior owner and is still valid a new EC is not required.
- Lat. and Long. are not required since you have the address.

A6

- Pictures may not be required for permitting- but they are required for insurance.
- Pictures are also good evidence of what was permitted and what the status was when the EC was created.



Section A7

ELEVATION CERTIFICATE

Important: Follow the instructions on pages 1–9.

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: L	A7. Building Diagram Number	Vertical Datum: <input type="checkbox"/> NAD 1927 <input type="checkbox"/> NAD 1983
A6. Attach at least 2 photos		of flood insurance.
A7. Building Diagram Number		
A8. For a building with a crawlspace or enclosure(s):		
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 _____		
c) Total net area of flood openings in A8.b _____ sq in		
d) Engineered flood openings? <input type="checkbox"/> Yes <input type="checkbox"/> No		
A9. For a building with an attached garage:		
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 A9.b _____ sq in		
d) Engineered flood openings? <input type="checkbox"/> Yes <input type="checkbox"/> No		

A7 is Critical and Often Difficult

- We make a big deal of this, but the bottom line: The diagram should represent the building.
- Whatever is used, it must be specific: 1A or 2B - simply a 1 or 2 is an error.
- It is the Insurance Agent that needs to determine if you are correct and pick the right diagram for rating purposes

Regardless, we will cover them

DIAGRAM 1A

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.

Distinguishing Feature – The bottom floor is at or above ground level (grade) on at least 1 side.*

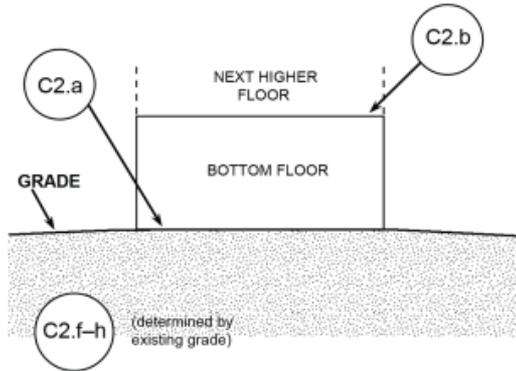


DIAGRAM 1B

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.

Distinguishing Feature – The bottom floor is at or above ground level (grade) on at least 1 side.*

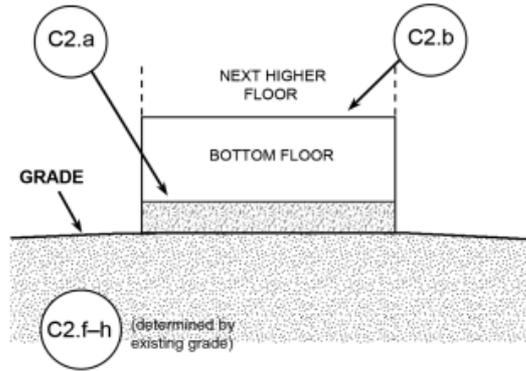


DIAGRAM 2A

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.

Distinguishing Feature – The bottom floor (basement or underground garage) is below ground level (grade) on all sides.*

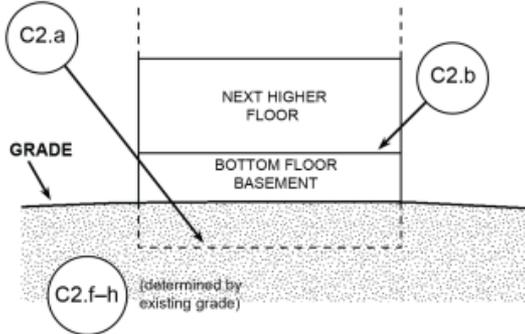
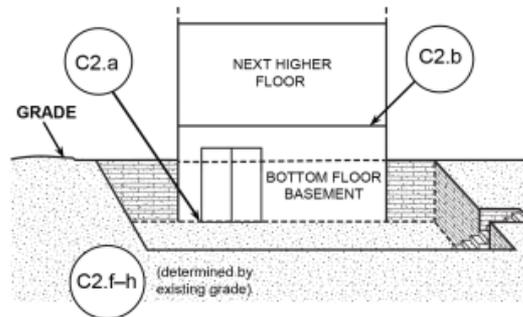


DIAGRAM 2B

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.

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.*



Split Levels

DIAGRAM 3

All split-level buildings that are slab-on-grade, either detached or row type (e.g., townhouses); with or without attached garage.

Distinguishing Feature – The bottom floor (excluding garage) is at or above ground level (grade) on at least 1 side.*

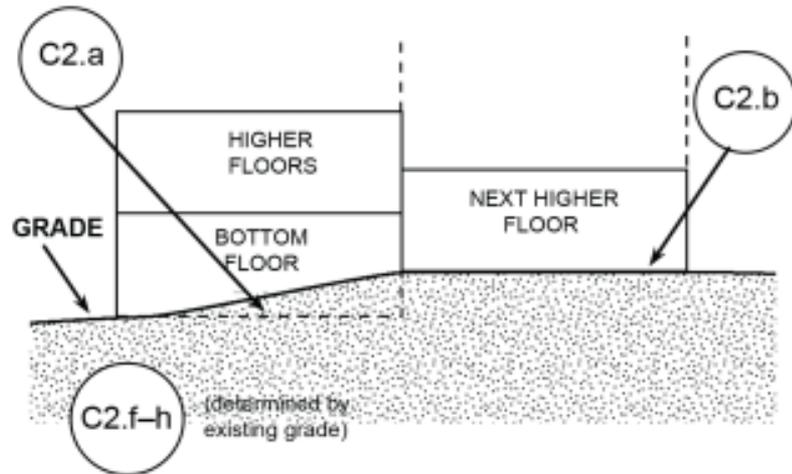
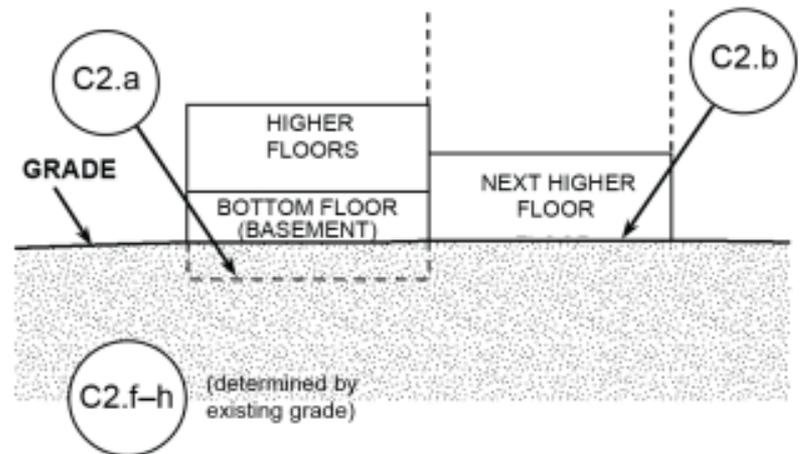


DIAGRAM 4

All split-level buildings (other than slab-on-grade), either detached or row type (e.g., townhouses); with or without attached garage.

Distinguishing Feature – The bottom floor (basement or underground garage) is below ground level (grade) on all sides.*



Elevated on Posts

DIAGRAM 5

All buildings elevated on piers, posts, piles, columns, or parallel shear walls. No obstructions below the elevated floor.

Distinguishing Feature – For all zones, the area below the elevated floor is open, with no obstruction to flow of floodwaters (open lattice work and/or insect screening is permissible).

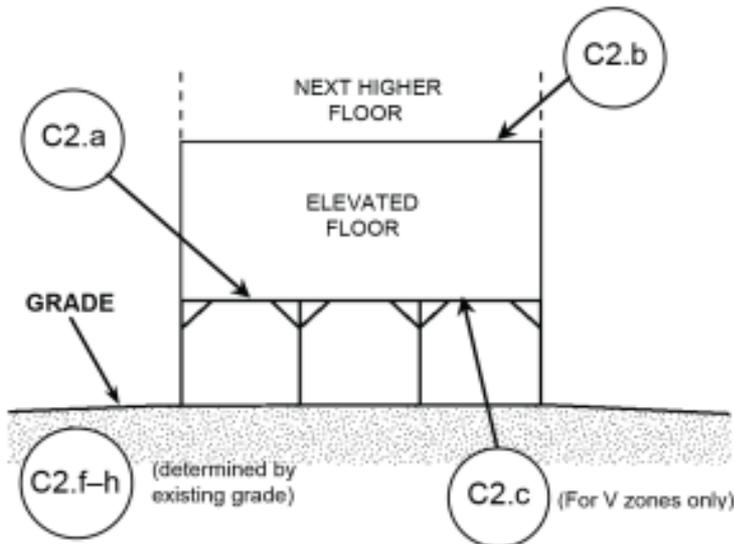
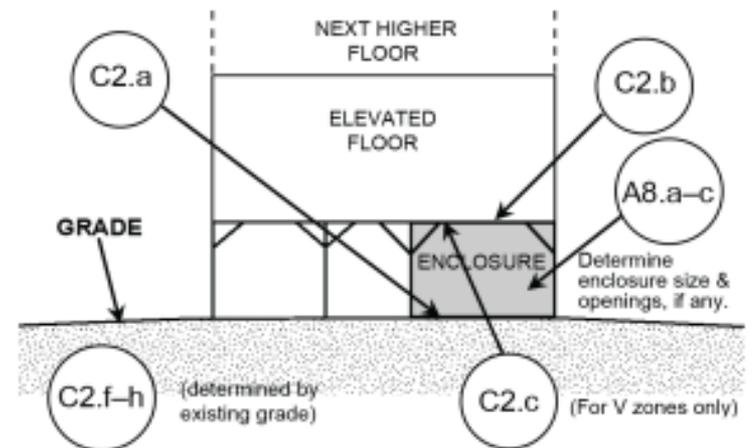


DIAGRAM 6

All buildings elevated on piers, posts, piles, columns, or parallel shear walls with full or partial enclosure below the elevated floor.

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.

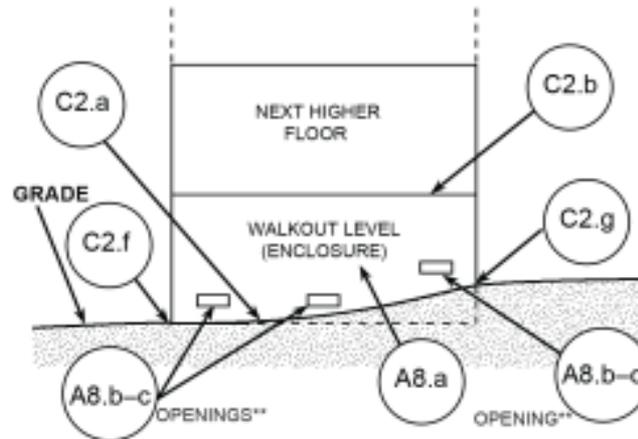


All Walkouts are Diagram 7

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.



Crawl Spaces

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.

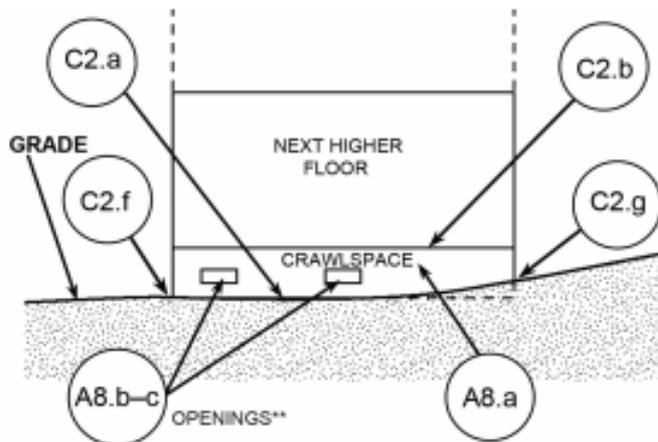
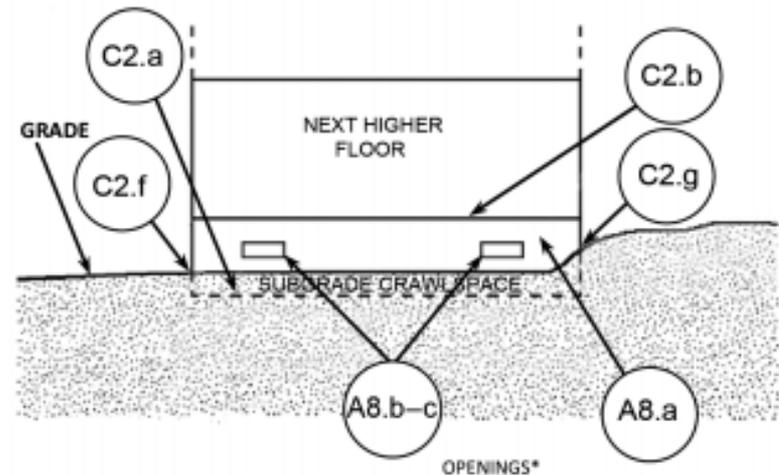


DIAGRAM 9

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.)



Sections A8 and A9

ELEVATION CERTIFICATE

Important: Follow the instructions on pages 1–9.

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

- 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
- c) Total net area of flood openings in A8.b sq in
- d) Engineered flood openings? Yes No

A9. For a building with an attached garage:

- 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 A9.b sq in
- d) Engineered flood openings? Yes No

A9. For a building with an attached garage:

- 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 A9.b sq in
- d) Engineered flood openings? Yes No

A8 and A9

- Crawlspace is a diagram 8 and 9
- An enclosure is associated with an elevated building: Diagrams 6 or 7
- A garage is attached to a non-elevated building

If you have both a garage and an enclosure both must be listed unless they are vented together as one unit

Example:

Crawlspace = 1200 sq. ft.

Garage = 600 sq. ft.

Only A8 filled out: Enclosure = 1800 sq feet with 2000 sq. in. of venting.
(properly vented)

A8 and A9 filled out: Enclosure(A8) = 1200 sq ft with 2000 sq. in. of venting.
Garage(A9) = 600 sq. ft. with no vents. (garage not properly vented)

Section A8.c

ELEVATION CERTIFICATE

Important: Follow the instructions on pages 1–9.

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:

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

- 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 _____
- c) Total net area of flood openings in A8.b _____ sq in
- d) Engineered flood openings? Yes No

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

- 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 _____
- c) Total net area of flood openings in A8.b _____ sq in
- d) Engineered flood openings? Yes No

A9. For a building with an attached garage:

- 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 A9.b _____ sq in
- d) Engineered flood openings? Yes No

Engineered Vents and A8.c

- Instructions say to list square inches
- FEMA TB-1 Says 8A.c must be filled in with the total coverage or rated area of engineered openings
- Fill it out either way, and note it in Section D
 - The Engineered Opening Certification must be attached
- The write “N/A” if no openings exist

Certification of Engineered Flood Openings

In accordance with the Code of Federal Regulations for the National Flood Insurance

I hereby certify that the **Crawl Space Door Systems flood vents 816CS, 1220CS, 1232CS, 1616CS, 1624CS, 1632CS, 2032CS**, designed in accordance with the requirements of the Code of Federal Regulations for the National Flood Insurance Program to provide automatic equalization of hydrostatic flood forces by allowing for the entry and exit of floodwaters, when properly installed, will perform as set forth below. Vent opening measurements were measured and certified by Mr. Christopher Mark Loney, Virginia P.E. calculations were prepared as outlined in "Review of certification of Engineered Flood Openings," prepared by Dr. Ge Professor of Building Construction, Virginia Tech (available upon request from Crawl Space Door Systems, Inc. billy@crawlsp.com)

Design Characteristics

Section 2.6.2.2 of ASCE/SEI 24-05 provides an equation to determine the required net area of engineered open enclosed area (A_e). This equation is based on the hydraulic formula for the flow rate across sharp edged orific equation to calculate 1) the restricted flow rate through the main frame opening in case the louver is blow event; 2) the flow rate through the individual openings between louver blades; and 3) the flow rate through between louver blades following hydraulic short-tube theory. The maximum total enclosed area (A_e) that can be vented has then been determined by utilizing the lowest flow rate of the three assessed scenarios for each vent. These values are based on the following assumptions:

- In absence of reliable data, the rates of rise and fall have been assumed at a minimum rate of 3 feet/hour;
- The (maximum) difference between the exterior and interior floodwater levels shall not exceed 1 foot during base flood conditions;
- A factor of safety of 3 has been assumed, which is consistent with design practices related to protection of life and property;
- The net area of openings (A_o) as provided by the manufacturer.

*)	Model	H x W [in]	A_o [ft ²]	A_e [ft ²]
<input type="checkbox"/>	816CS	8 x 16	105	205
<input type="checkbox"/>	1220CS	12 x 20	235	500
<input type="checkbox"/>	1232CS	12 x 32	305	645
<input type="checkbox"/>	1616CS	16 x 16	180	395
<input type="checkbox"/>	1624CS	16 x 24	310	670
<input type="checkbox"/>	1632CS	16 x 32	405	835
<input type="checkbox"/>	2032CS	20 x 32	630	1240
<input type="checkbox"/>	2424CS	24 x 24	570	1230
<input type="checkbox"/>	2436CS	24 x 36	850	1765

Installation Requirements and Limitations

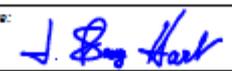
This certification will be voided if the following installation requirements and limitations are not enforced:

- There shall be a minimum of two openings on different sides of each enclosed area subject to flooding;
- The bottom of all openings shall be no higher than one foot above the higher of the interior or exterior grade that is immediately under each opening;
- No temporary (e.g. during cold weather) or permanent solid cover may be placed into or over the flood vent that would block the automatic entry or exit of floodwaters at any time;
- Where data or analyses indicate more rapid rates of rise and fall, the required number of openings shall be increased to account for those different conditions. The number or size of the openings may be decreased if data or analyses indicate rates of rise and fall are less than 3 feet per hour.

Table 1 Maximum total enclosed area (A_e) that can be serviced by each individual model based on the given net area of engineered openings (A_o)

Model	H x W [in]	A_o [ft ²]	A_e [ft ²]
816CS	8 x 16	105	205
1220CS	12 x 20	235	500
1232CS	12 x 32	305	645
1616CS	16 x 16	180	395
1624CS	16 x 24	310	670
1632CS	16 x 32	405	835
2032CS	20 x 32	630	1240
2424CS	24 x 24	570	1230
2436CS	24 x 36	850	1765

Certifying Design Professional

Name	J. Stacey Hart	Title	President	
Company	J. Stacey Hart & Associates, Inc.			
Address	P.O. Box 6, Snow Hill, MD 21863			
License	Professional Engineer	License No.	22798	
Signature:			Date: 11/27/2017	

Identification of the Building and Installed Flood Vents (By Others)

The flood vent models marked in Table 1*) are being installed at the following building:
 Building Address _____

Section B

SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number

B2. County Name

B3. State



B4. Map/Panel
Number

B5. Suffix

B6. FIRM Index
Date

B7. FIRM Panel
Effective/
Revised Date

B8. Flood
Zone(s)

B9. Base Flood Elevation(s)
(Zone AO, use Base Flood Depth)

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9:

FIS Profile FIRM Community Determined Other/Source: _____

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

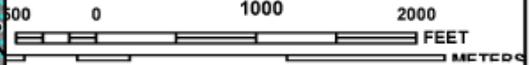
Designation Date: _____ CBRS OPA

B1, B2, and B3

B1. NFIP Community Name & Community Number						INFORMATION
B1. 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)	
<p>B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9:</p> <p><input type="checkbox"/> FIS Profile <input type="checkbox"/> FIRM <input type="checkbox"/> Community Determined <input type="checkbox"/> Other/Source: _____</p> <p>B11. Indicate elevation datum used for BFE in Item B9: <input type="checkbox"/> NGVD 1929 <input type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other/Source: _____</p> <p>B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Designation Date: _____ <input type="checkbox"/> CBRS <input type="checkbox"/> OPA</p>						



MAP SCALE 1" = 1000'



NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0560D

FIRM
 FLOOD INSURANCE RATE MAP
 KNOX COUNTY,
 NEBRASKA
 AND INCORPORATED AREAS

PANEL 560 OF 825
 (SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
BLOOMFIELD, CITY OF	310351	0560	D
KNOX COUNTY	310451	0560	D

<u>COMMUNITY</u>	<u>NUMBER</u>
BLOOMFIELD, CITY OF	310351
KNOX COUNTY	310451

City of Bloomfield
 310351

NATIONAL FLOOD INSURANCE PROGRAM



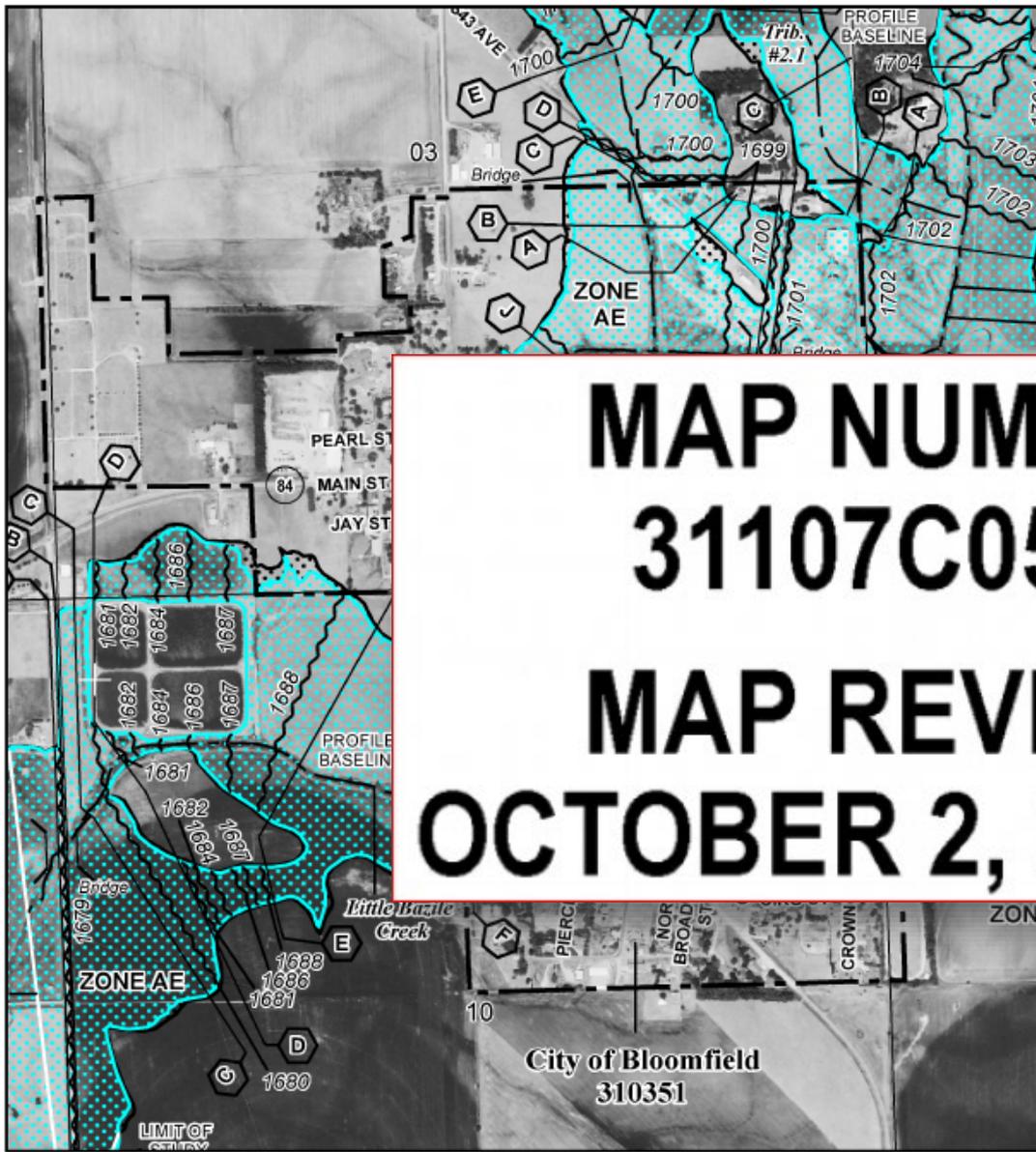
31107C0560D
 MAP REVISED
 OCTOBER 2, 2015

Federal Emergency Management Agency

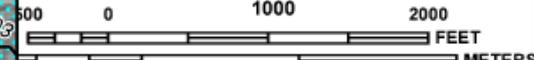
This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

B4, B5, B6, and B7

SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION					
B1. NFIP Community Name & Community Number		B2. County Name		B3. State	
<input type="text"/>		<input type="text"/>		<input type="text"/>	
B4. Map/Panel Number	B5. Suffix	B6. FIRM Index	B7. FIRM Panel	B8. Flood	B9. Base Flood Elevation(s)
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
B4. Map/Panel Number		B5. Suffix		B6. FIRM Index Date	
<input type="text"/>		<input type="text"/>		<input type="text"/>	
B7. FIRM Panel Effective/ Revised Date		<input type="text"/>		<input type="text"/>	
B10. Indicate		<input type="text"/>		<input type="text"/>	
<input type="checkbox"/> FIS Home		<input type="checkbox"/> FIRM		<input type="checkbox"/> Community Determined	
<input type="checkbox"/> Other/Source:		<input type="text"/>		<input type="text"/>	
B11. Indicate elevation datum used for BFE in Item B9: <input type="checkbox"/> NGVD 1929 <input type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other/Source: _____					
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? <input type="checkbox"/> Yes <input type="checkbox"/> No					
Designation Date: <input type="text"/>		<input type="checkbox"/> CBRS		<input type="checkbox"/> OPA	



MAP SCALE 1" = 1000'



PANEL 0560D

**MAP NUMBER
31107C0560D
MAP REVISED
OCTOBER 2, 2015**

INSURANCE RATE MAP
COUNTY, KANSAS
INCORPORATED AREAS

OF 825
(SEE INDEX FOR FIRM PANEL LAYOUT)

NUMBER	PANEL	SUFFIX
310351	0560	D
310451	0560	D

The Map Number shown below
when placing map orders; the
number shown above should be
used for applications for the subject

MAP NUMBER
31107C0560D
MAP REVISED
OCTOBER 2, 2015

Federal Emergency Management Agency



This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

City of Bloomfield
310351

B8 and B9

SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION					
B1. NFIP Community Name & Community Number <input type="text"/>		B2. County Name <input type="text"/>		B3. State <input type="text"/>	
B4. Map/Panel Number <input type="text"/>	B5. Suffix <input type="text"/>	B6. FIRM Index Date <input type="text"/>	B7. FIRM Panel Effective/ Revised Date <input type="text"/>	B8. Flood Zone(s) <input type="text"/>	B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth) <input type="text"/>
B10. Indicate the source of the Base Flood Elevation (BFE) used for BFE in item B9: <input type="checkbox"/> FIS Profile <input type="checkbox"/> FIRM <input type="checkbox"/> Other/Source: _____			B11. Indicate elevation datum used for BFE in item B9: <input type="checkbox"/> NGVD 1929 <input type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other/Source: _____		
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? <input type="checkbox"/> Yes <input type="checkbox"/> No Designation Date: <input type="text"/> <input type="checkbox"/> CBRS <input type="checkbox"/> OPA					

B10, B11 and B10

SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NEIR Community Name & Community Number

B2. County Name

B3. State

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9:

FIS Profile FIRM Community Determined Other/Source: _____

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

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

Designation Date: _____ CBRS OPA

B10

The Most Common EC Error in Nebraska

- BFEs from Zone AE come from the Flood Insurance Study (FIS)
- BFEs from Zone A come from the NeDNR (Other Source)
- If you have NO MAPS then you will determine the BFE (Community Determined)
- The ONLY time “FIRM” is the source of the BFE is in Zones AO and AH.

**Even if the permit was given
when a prior FIRM was
regulatory, the EC must be
written using the current FIRM**

**(again, a note in Section D can
explain this potential
discrepancy)**

Make sure the heading is filled out on each page and matches Section A

ELEVATION CERTIFICATE			OMB No. 1660-0008 Expiration Date: November 30, 2022
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 <input type="text"/>	Company NAIC Number
SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)			
C1 Building elevations are based on: <input type="checkbox"/> Construction Drawings* <input type="checkbox"/> Building Under Construction* <input type="checkbox"/> Finished Construction			

This is the second most common error

Section C

C1. Building elevations are based on: Construction Drawings* Building Under Construction* Finished Construction

*A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AR/AH, AR/AO. Complete Items C2.a–h below according to the building diagram specified in Item A7. 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/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="checkbox"/> feet | <input type="checkbox"/> meters |
| b) Top of the next higher floor | _____ | <input type="checkbox"/> feet | <input type="checkbox"/> meters |
| c) Bottom of the lowest horizontal structural member (V Zones only) | _____ | <input type="checkbox"/> feet | <input type="checkbox"/> meters |
| d) Attached garage (top of slab) | _____ | <input type="checkbox"/> feet | <input type="checkbox"/> meters |
| e) Lowest elevation of machinery or equipment servicing the building
(Describe type of equipment and location in Comments) | _____ | <input type="checkbox"/> feet | <input type="checkbox"/> meters |
| f) Lowest adjacent (finished) grade next to building (LAG) | _____ | <input type="checkbox"/> feet | <input type="checkbox"/> meters |
| g) Highest adjacent (finished) grade next to building (HAG) | _____ | <input type="checkbox"/> feet | <input type="checkbox"/> meters |
| h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support | _____ | <input type="checkbox"/> feet | <input type="checkbox"/> meters |

Section C

Section C is not required if for development in an AO zone.

It is not required in other states for an un-numbered A zone, but since we provide elevations for Zone A, Section C should be filled out for ECs in Nebraska.

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

C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AR/AH, AR/AO.
Complete Items C2.a–h below according to the building diagram specified in Item A7. 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/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="checkbox"/> feet	<input type="checkbox"/> meters
b) Top of the next higher floor	_____	<input type="checkbox"/> feet	<input type="checkbox"/> meters
c) Bottom of the lowest horizontal structural member (V Zones only)	_____	<input type="checkbox"/> feet	<input type="checkbox"/> meters
d) Attached garage (top of slab)	_____	<input type="checkbox"/> feet	<input type="checkbox"/> meters
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)	_____	<input type="checkbox"/> feet	<input type="checkbox"/> meters
f) Lowest adjacent (finished) grade next to building (LAG)	_____	<input type="checkbox"/> feet	<input type="checkbox"/> meters
g) Highest adjacent (finished) grade next to building (HAG)	_____	<input type="checkbox"/> feet	<input type="checkbox"/> meters
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support	_____	<input type="checkbox"/> feet	<input type="checkbox"/> meters

Section C

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.~~

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.

Benchmark Utilized: _____ Vertical Datum: _____

Indicate elevation datum used for the elevations in items a) through h) below.

NGVD 1929 NAVD 1988 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="checkbox"/> feet | <input type="checkbox"/> meters |
| b) Top of the next higher floor | _____ | <input type="checkbox"/> feet | <input type="checkbox"/> meters |
| c) Bottom of the lowest horizontal structural member (V Zones only) | _____ | <input type="checkbox"/> feet | <input type="checkbox"/> meters |
| d) Attached garage (top of slab) | _____ | <input type="checkbox"/> feet | <input type="checkbox"/> meters |
| e) Lowest elevation of machinery or equipment servicing the building
(Describe type of equipment and location in Comments) | _____ | <input type="checkbox"/> feet | <input type="checkbox"/> meters |
| f) Lowest adjacent (finished) grade next to building (LAG) | _____ | <input type="checkbox"/> feet | <input type="checkbox"/> meters |
| g) Highest adjacent (finished) grade next to building (HAG) | _____ | <input type="checkbox"/> feet | <input type="checkbox"/> meters |
| h) Lowest adjacent grade at lowest elevation of deck or stairs, including
structural support | _____ | <input type="checkbox"/> feet | <input type="checkbox"/> meters |

C2 must match B11

C1. Building elevations are based on: Construction Drawings* Building Under Construction* Finished Construction

*A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AR/AH, AR/AO. Complete Items C2.a–h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters.

Benchmark Utilized: _____ Vertical Datum: _____

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.

NGVD 1929 NAVD 1988 Other/Source: _____

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

Section C2a

C1. Building elevations are based on: Construction Drawings* Building Under Construction* Finished Construction

*A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AR/AH, AR/AO.

Complete Items C2 a–h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters.

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

Section C2e - Most common error

C1. Building elevations are based on: Construction Drawings* Building Under Construction* Finished Construction

*A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AR/AH, AR/AO. Complete Items C2.a–h below according to the building diagram specified in Item A7. 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/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) _____ feet meters
 b) Top of the next higher floor _____ feet meters

**e) Lowest elevation of machinery or equipment servicing the building
 (Describe type of equipment and location in Comments)**

e) Lowest elevation of machinery or equipment servicing the building
 (Describe type of equipment and location in Comments) _____ feet meters
 f) Lowest adjacent (finished) grade next to building (LAG) _____ feet meters
 g) Highest adjacent (finished) grade next to building (HAG) _____ feet meters
 h) Lowest adjacent grade at lowest elevation of deck or stairs, including
 structural support _____ feet meters

Section C2e

Equipment that must be included:

- Furnace
- A/C
- Hot Water Heater
- Duct Work
- Elevators
- Sump Pumps
- Generators
- Heat Pumps

Equipment not to be included:

- Meters
- Water pipes
- Electric lines
- Other municipal utilities not owned or insured by the owner

If equipment/utilities are all on the roof, the elevation still needs to be entered here.

Section C2f and C2g

C1. Building elevations are based on: Construction Drawings* Building Under Construction* Finished Construction

*A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AR/AH, AR/AO. Complete Items C2.a–h below according to the building diagram specified in Item A7. 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/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) _____ feet meters

b) Top of the next higher floor _____ feet meters

c) Bottom of the lowest horizontal structural member (V Zones only) _____ feet meters

d) Attached _____ feet meters

e) Lowest elevation of adjacent finished grade next to building (LAG) _____ feet meters

f) Highest adjacent (finished) grade next to building (HAG) _____ feet meters

f) Lowest adjacent (finished) grade next to building (LAG) _____ feet meters

g) Highest adjacent (finished) grade next to building (HAG) _____ feet meters

h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support _____ feet meters

Section C

Required Fields

Possibly Required



C1, C2

C2a

C2b, C2c, C2d, C2e

C2f, C2g

SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

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

C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AR/AH, AR/AO.
Complete items C2 a–h below according to the building diagram specified in item A7. 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/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="checkbox"/> feet	<input type="checkbox"/> meters
b) Top of the next higher floor	_____	<input type="checkbox"/> feet	<input type="checkbox"/> meters
c) Bottom of the lowest horizontal structural member (V Zones only)	_____	<input type="checkbox"/> feet	<input type="checkbox"/> meters
d) Attached garage (top of slab)	_____	<input type="checkbox"/> feet	<input type="checkbox"/> meters
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)	_____	<input type="checkbox"/> feet	<input type="checkbox"/> meters
f) Lowest adjacent (finished) grade next to building (LAG)	_____	<input type="checkbox"/> feet	<input type="checkbox"/> meters
g) Highest adjacent (finished) grade next to building (HAG)	_____	<input type="checkbox"/> feet	<input type="checkbox"/> meters
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support	_____	<input type="checkbox"/> feet	<input type="checkbox"/> meters

i) Lowest adjacent (finished) grade next to building (LAG) _____ feet meters

j) Highest adjacent (finished) grade next to building (HAG) _____ feet meters

Section D

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.

Were latitude and longitude in Section A provided by a licensed land surveyor? Yes No Check here if attachments.

Certifier's Name		License Number	Place Seal Here
Title			
Company Name			
Address			
City	State	ZIP Code	
Signature	Date	Telephone	Ext.
Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.			
Comments (including type of equipment and location, per C2(e), if applicable)			

Section E

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

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

- E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).
- a) Top of bottom floor (including basement, crawlspace, or enclosure) is feet meters above or below the HAG.
- b) Top of bottom floor (including basement, crawlspace, or enclosure) is feet meters above or below the LAG.
- E2. For Building Diagrams 6–9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 1–2 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 E and F

- For AO zones (Not for A zones in Nebraska)
- Fill out the same as C and D
- C is not required if E and F are used
- Both E1a and E1b are required
- E5 - Only required if the *community* requires it

You must check “Feet” and either “Above” or “Below”

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:
- a) Top of bottom floor (including crawlspace, or enclosure) feet meters above or below the HAG. above or below the HAG.
- b) Top of bottom floor (including crawlspace, or enclosure) feet meters above or below the LAG. above or below the LAG.
- E2. For Building Diagrams 6–9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 1–2 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.

Four ways to correct an EC

1. Send it back to the surveyor to make the corrections needed.
 2. If you have an in-house surveyor on the payroll, have them fill out a new EC with corrections. Have them stamp, sign, and complete section D.
 3. Memo of Correction Form.
 4. Notes of correction in Section G.
- 

Pictures

Pictures are only required for insurance, and as of October 1, 2021 EC are not required for insurance.

But why not have them anyway?

- Pictures paint 1000 words
- They show the venting
- They establish the permitted development.
- They are relatively free

ELEVATION CERTIFICATE		BUILDING PHOTOGRAPHS		OMB No. 1660-0008 Expiration Date: November 30, 2022	
<small>See Instructions for Item A6.</small>					
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		
<small>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 A6. If submitting more photographs than will fit on this page, use the Continuation Page.</small>					
					
Photo One Caption				Clear Photo One	
					
Photo Two Caption				Clear Photo Two	
FEMA Form 086-0-33 (12/19) Replaces all previous editions. Form Page 5 of 6					

Closing Thoughts

- Some FPAs fill out section A and B to ensure the information is correct and let the surveyor focus on C and D.
- There are some great videos on YouTube called: *CRS Elevation Certificate Training Series*.
- Keep Final Construction ECs with the Permit.



Disclaimers

- Just because I told you something is not required by FEMA, does not mean it is not a good idea to require it for your community.
- If I told you anything that disagrees with the instructions, the YouTube CRS videos, FEMA training/guidance, or any other authoritative product - follow it and send me a note.

Responsibility

The Surveyor will fill out the EC.

Yet,

It is the Floodplain Administrator's responsibility to ensure that it is filled out correctly.

Chuck Chase

chuck.chase@nebraska.gov

(402) 471-9422

