

# **Elevation Certificates Brad Loar FEMA Region IV**

## What is the purpose of the Elevation Certificate?



The Elevation Certificate is an important administrative tool of the National Flood Insurance Program (NFIP). It is used to:

- 1. Document compliance with the NFIP's floodplain management regulations
- 2. Determine the proper flood insurance rate
- 3. Support map amendments and revisions



## Who certifies building elevations? Surveyor Engineer Architect



 In order to be rated properly, the insured needs a Statelicensed professional to certify the elevation information.



# Current Version Expires March 31, 2012 <u>New Version: Pending</u>

- •Continue using March 31, 2012 version
- •Transition period when new version is released
- •Use new version at end of transition period

Download from:

www.fema.gov/business/nfip/elvinst.shtm



Available in Word or PDF formats



# New Version

- •Pending OMB approval
- •Differences:
  - •Section A requires one photo showing flood openings in A Zones
  - •Section C adding question about whether the same datum system is shown in Section B and C; if not, is conversion provided? Yes or no



## Community Rating System & Elevation Certificates

The NFIP recognizes community efforts that go beyond the floodplain management requirements of the NFIP through the CRS Program by reducing insurance premiums for the community's policyholders

- Community Rating System (CRS) communities are required to obtain and maintain Elevation Certificates
- This requirement applies to all new construction and substantial improvements located in SFHAs



# **CRS Gig List**

| S. DEPARTMENT OF HO<br>ederal Emergency Manage<br>ational Flood Insurance Pr  | MELAND SECUP<br>ement Agency<br>rogram   | CRS  | EC "  | Gig" L  | .ist   |  | Expires March 31, 2   |
|---|--|--|---|---|--|--|---|
|   |  | SECTI  | ON A - PRO  | PERTY INFOR   |  |  | For insurance Company Lise:   |
| A1. Building Owner's Nan  | ne   |  |   |   |  |  | Policy Number   |
| A2. Building Street Addre   | ss (including Apt.   | . Unit. Sulte. and/or Bio  | da. No.) or P.C   | ). Route and Bo   | K NO.  |  | Company NAIC Number   |
|   |  |  |   |   |  |  |   |
| City State  | ZIP Code   | Either A2 OF   | R A3 must be  | completed. In elt   | her case, the city   | , state,   | and zip code must be listedj  |
| A3. Property Description (  | Lot and Block Nu   | imbers, Tax Parcel Nu  | mber, Legal D   | escription, etc.)   |  |  |   |
| A4. Building Use (e.g., Re<br>A5. Latitude/Longitude: L.<br>A6. Attach at least 2 phot<br>A7. Building Diagram Nur<br>A8. For a building with a d   | esidentiai, Non-Re<br>at Long.<br>ographs of the bu  | esidential, Addition, Ac<br>Horiz<br>Hiding if the Certificate   | cessory, etc.)<br>contal Datum:<br>ls being used  | NAD 1927<br>to obtain flood in  | NAD 1983<br>Isurance.  | n atlach   | ief narate  |
| a) Square footage of  | r crawispace or er   | nciosure(s)  | sqft  | a)  | Square footage   | of attact  | ned garage sq ft  |
| <ul> <li>b) No. of permanent<br/>enclosure(s) withi</li> </ul>  | flood openings in<br>n 1.0 foot above a  | adjacent grade   |   | b)  | No. of permaner<br>within 1.0 foot al  | nt flood (<br>bove adj   | openings in the attached garage<br>Jacent grade   |
| <ul> <li>c) Total net area or f</li> <li>d) Englangement</li> </ul>   | lood openings in   | A8.b   | sq in   | c)  | Total net area of  | flood o  | penings in A9.b sq ir   |
| a) Engineered 1000  | opermige:  |  | RUDANCE   |   | Chymeereu 100  | a openir   |   |
|   | SEC  | TION B - FLOOD IN  | SURANCE   | KATE MAP (F   | IRM) INFORM  | ATION  |   |
| 31. NFIP Community Nam  | e & Community N  | Number E   | 32. County Na   | me  |  | E  | 33. State   |
| B4. Map/Panel Number  | B5. Suffix   | B6. FIRM Index<br>Date   | B7.<br>Effectiv   | FIRM Panel<br>e/Revised Date  | B8. Flo<br>Zone(   | od<br>s)   | B9. Base Flood Elevation(s) (<br>AO, use base flood depth   |
| FIS Profile  I. Indicate elevation dat  2. Is the building located  | FIRM<br>um used for BFE<br>I In a Coastal Ban  | Community Deten  | mined<br>) 1929<br>1 (CBRS) area  | Other (Desc NAVD 1988 Or Otherwise Pr   | ribe)<br>Other (D<br>ptected Area (O   | escribe)<br>PA)?   | Yes No  |
| FIS Profile     Indicate elevation dat     Is the building located     Designation Date   | FIRM<br>um used for BFE<br>I In a Coastal Ban  | Community Deten  | mined<br>1929<br>CBRS) area<br>CBRS   | Other (Desc Other (Desc NAVD 1988 OF Otherwise Pr OPA   | otected Area (O  | escribe)<br>PA)?   | PN  |
| FIS Profile     FIS Profile     Indicate elevation dat     is the building located     Designation Date   | FIRM<br>um used for BFE<br>in a Coastal Ban<br>SECTIO  | Community Deten In Item 89: NGVD Iter Resources System ON C - BUILDING EI Construction Draw  | mined<br>) 1929<br>1 (CBRS) area<br>CBRS<br>LEVATION I  | Other (Desc<br>NAVD 1988<br>OF Otherwise Pr<br>OPA OPA NFORMATION Building Life   | ribe) Other (D<br>otected Area (O<br>I (SURVEY RE  | escribe)<br>PA)?<br>EQUIRE   | Yes No  |
| FIS Profile     FIS Profile     Indicate elevation dat     Is the building locate     Designation Date       Building elevations are     'A new Elevation Certif     Elevations – Zones A1     below according to the   | FIRM<br>Im used for BFE<br>In a Coastal Ban<br>SECTIO<br>based on:<br>loate will be requi<br>-A30, AE, AH, A (<br>building diagram   | Community Deten In Item B9: NGVD Iter Resources System ON C - BUILDING EI Construction Draw Ired when construction (with BFE), VE, V1-V3 (specified in Item A7. )  | mined<br>) 1929<br>(CBRS) area<br>CBRS<br>CBRS<br>LEVATION I<br>wings*<br>1 of the building<br>0, V (with BFE<br>Use the same   | Conter (Desc<br>NAVD 1988<br>OF OTHENWISE PF<br>OPA  NFORMATION  Building Ur<br>g is complete.<br>AR, AR/A, AR<br>datum as the BB   | Ibe)<br>Other (D<br>otected Area (O<br>I (SURVEY RE<br>Ider Construction<br>(AE, AR/A1-A30,<br>FE  | escribe)<br>PA)?<br>EQUIRE   | Yes No  |
| FIS Profile     Indicate elevation dat     Is the building locate     Designation Date     Designation Date     Anew Elevations are     'A new Elevation Certif     Elevations – Zones A1     below according to the     Benchmark Utilized   | FIRM<br>um used for BFE<br>in a Coastal Ban<br>SECTIO<br>based on:<br>toate will be requi<br>haide will be requi<br>building diagram<br>Vertical Datu  | Community Deten<br>in Item B9: NGVD<br>rier Resources System<br>ON C - BUILDING EI<br>Construction Draw<br>ired when construction<br>with BFE), VE, V1-V33<br>ispectified in Item A7. 1<br>m   | mined<br>) 1929<br>(CBRS) area<br>CBRS<br>LEVATION I<br>wings*<br>of the building<br>0, V (with BFE<br>Use the same   | Other (Deso NAVD 1988 OF Otherwise Pr OPA  NFORMATION Building Ur g is complete. ), AR, ARA, AR datum as the Bf   | tbe)<br>Other (D<br>otected Area (O<br>(SURVEY RE<br>der Construction<br>(AE, AR/A1-A30,<br>FE.  | escribe)<br><mark>PA)?</mark><br>EQUIRE<br>1"<br>, AR/AH,  | Yes No     Yes No     Finished Construction     ARIAO. Complete Items C2.3-1  |
| FIS Profile     FIS Profile     FIS Profile     Indicate elevation data     besignation Date     Designation Date     Designation Date     Every the second profile     Every the second profile     Every trained profile     Conversion/Comments  | FIRM um used for BFE in a Coastal Ban SECTIO based on: cate will be requi -30, AE, AH, A ( building diagram Vertical Datu [Include of Include   | Community Deten<br>in Item B9; NGVD<br>rier Resources System<br>ON C - BUILDING EI<br>Construction Draw<br>Ired when construction<br>with BFE), VE, V1-V3<br>specified in Item A7. 1<br>m  | mined<br>1929<br>(CBRS) area<br>CBRS<br>LEVATION I<br>wings"<br>of the building<br>0, V (with BFE<br>Use the same<br>latum used by  | Other (Desc<br>NAVD 1988<br>OPA     OPA     O     | Ibe) Other (D<br>otected Area (O<br>I (SURVEY RE<br>Ider Construction<br>(AE, AR(A1-A30),<br>Fe.<br>Check the me   | escribe)<br>PA)?<br>EQUIRE<br>1*<br>, AR/AH,   | Yes No  |
| FIS Profile     FIS Profile     FIS Profile     FIS Profile     FIS Profile     Service of the building located     Designation Date     Designation Date     FIS     FIS Profile     FIS     FIS | FIRM um used for BFE In a Coastal Ban SECTIO based on: cate will be requi A30, AE, AH, A Uulding diagram Vertical Datu (Include or (Including base)  | Community Deten in Item B9: OKUD Iter Resources System ON C - BUILDING EI Construction Draw Ired when construction Construction Draw (with BFE), VE, VI-V3 (specified in Item A7. I m conversion formula If d ment, crawispace, or e   | mined<br>) 1929<br>(CBRS) area<br>(CBRS) area<br>(CBRS) area<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)<br>(CBRS)  | Other (Desc<br>NAVD 1988<br>or Otherwise Pr<br>OPA     OPA     Suiding Uir  | Ibe) Other (D<br>otected Area (O<br>I (SURVEY RE<br>Ider Construction<br>(AE, AR/A1-A30,<br>"E.<br>Check the me<br>Check the me  | escribe)<br>PA)?<br>EQUIRE<br>1*<br>. AR/AH,<br>sasurem  | Yes No     Yes No     Finished Constructor     AR/AO. Complete Items C2.3-1 ent used. eters (Puerto Rico oniv)  |
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| FIS Profile     FIS Profile     FIS Profile     FIS Profile     FIS Profile     Designation Date     Designation Date     Designation Date     Conversion/Comments     FIS Profile     Top of bottom floc     FIS profile     Top of bottom floc     FIS profile     Top of bottom floc     FIS profile     FIS profile   | FIRM um used for BFE in a Coastal Ban SECTIO based on: Cate will be requi A30, AE, AH, A ( building diagram Vertical Datu Vertical Datu vertical Datu or (including baser gher floor get horizontal stru top of siab) of machinery or ei   | Community Determ<br>in Item B9; I NGVD<br>Inter Resources System<br>ON C - BUILDING EI<br>Construction Draw<br>Inter Structures Draw<br>System Construction Draw<br>system Construction Draw<br>system Construction Draw<br>system Construction Draw<br>inter Structures Draw<br>memory Constructures Draw<br>memory Constructures Draw<br>memory Constructures Draw<br>memory Constructures Draw<br>memory Constructures Draw<br>conversion formula if d<br>memory Constructures Draw<br>memory Constructures Draw<br>memory Constructures Draw<br>Constructures Draw<br>memory Constructures Draw<br>Constructures Draw<br>Co                    | mined<br>1929<br>CBRS) area<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS | Other (Desc<br>Other (Desc<br>Otherwise PT<br>OPA     OPA     Surveyor is attree<br>surveyor is attree     OPA  | Ibe)   | escribe)<br>PA)?<br>CQUIRE<br>*<br>AR/AH,<br>AR/AH,<br>m<br>m<br>m<br>m<br>m<br>m<br>m<br>m<br>m<br>m<br>m<br>m<br>m<br>m<br>m<br>m<br>m<br>m<br>m   | Yes No     Yes No     Finished Construction     ARVAC. Complete Items C2.a-4 ent used. elers (Puerto Rico only)   |
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Complete Items C2.a-I ent used. eters (Puerto Rico only)   |
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- ISO staff review ECs during CRS Cycle visit
- ISO staff may request correction of ECs where errors or omissions are identified
- Failure to remedy ECs with identified issues may result in ISO recommendation of CRS retrograde
- Copy of Gig List is available in CRS Manual



# **FEMA Elevation Certificate**

|                       | U.S. DEPARTMENT OF HOWELAND SECURITY ELEVATION CERTIFICATE ONB No: 1660-0008<br>Expires Management Agency Interference Department Providence on process 1.0  |
|-----------------------|--|
|                       | natorial recollections mighter and constrained and the recollection of pages 1-3.  |
|                       | At: Building Ouner's Name PROPERTY INFORMATION For Instances Company Use   |
|                       | A2. Building Street Address Uncluding Apt., Unit. Sufe, and/or Blog. No.) or P.D. Route and Box No. Company NAXD Number  |
| NVARTMEA.             | City State ZIP Core  |
|                       | A3. Property Description (Lot and Block Numbers. Tax Parcel Number, Legal Description, etc.)   |
| FEMA                  | A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.)       Hairbornia Cogitude (al.,   |
|                       | c) Total net area of food openings in ALD spin c intra area of food openings in AAD spin di Engrievend food openings in AAD do intra area of food openings in AAD spin di Engrievend food openings in AAD do intervente food o     |
|                       | SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION  |
|                       | B1. NFIP Community Name & Community Number B2. County Name B3. State   |
|                       | B4. MagJPanel Number B5. Suffis B6. FIRM Index B7. FIRM Panel B8. Flood B8. Base Flood Seviation(x) (20<br>Date Effective Revised Date Zone(s) A0. use base flood Seviation(x) (20   |
|                       | PHS Profile PPIM Community Determined Coder (Describer)     Induste elevation datum used for BFE in term BR N MOVO 1929 NAVD 1989 (Other (Describer)     Text the building scalar for the Coastal Samer Resources System (CERS) area or Otherwise Protected Area (OPA17 Yes No     Designation Date  |
|                       | SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)   |
| ELEVATION CERTIFICATE | C1. Building elevations are based on: Construction Drawings" Building Under Construction" Prinshed Construction     'A new Elevation Contribute will be required when construction of the building is complete.     C2. Elevations – Zones ArA30, A&, A, A, ANS, BE, V. V. V.1V30, V. V. Ven DFEL, AR, ARIA, ARVAE, ARVA1-A30, ARVAH, ARVAO, Complete Items G2.a-h     below according to the building diagram specified in Item A7. Use the same datum as the DFE.     Benchmark URBand.     Conversion/Comments     Conversion/Comments  |
|                       | a) Top of bottom floor (including basement, crav/space, or endocure floor) b) Top of the next trigher floor c) Bottom of the lowest hostoortal structural member (V Zones only) c) Bottom of the lowest floor (Including basement, crav/space, or endocure floor) c) Bottom of the lowest hostoortal structural member (V Zones only) c) Bottom of the lowest floor conty c) Bottom of the lowest hostoortal structural member (V Zones only) c) Bottom of the lowest hostoortal structural member (V Zones only) c) Bottom of the lowest hostoortal structural member (V Zones only) c) Bottom of the lowest floor conty c)   |
| AND                   | e) Lowest elevation of maintnery of equipment servicing the building free times (Puerco Riso andy)     (Cleantified type of equipment and location in Commental     f) Lowest adjacent (Minished) guade nexts to luiding (JAG)     g) Highest adjacent (Snished) grade nexts to building (HAG)   |
| INSTRUCTIONS          | Lon-veit adjacent grade al towast enevation of bleck or stans, instuding (net) net (net)     studiate support  |
|                       | SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION   |
|                       | Information J certify that the information of this Certificate representation to the left first in the information of the Certificate representation of the Certificate represen |
|                       | Check here if comments are provided on back of form. Were talkade and longitude in Section A growided by a PLACE Exercised fand surveyor? Tries No   |
|                       | Certifier's Name License Number HERE   |
|                       |  |
|                       | Title Company Name   |
|                       | Title Company Name Address City State 2/P Code   |



## Who must have an Elevation Certificate?



- Anyone who has applied for flood insurance on a building that is located in a Special Flood Hazard Area (SFHA)
- Construction or substantial improvement of the building started after December 31, 1974 or on or after the date of the initial Flood Insurance Rate Map (FIRM), whichever is later



# **The Elevation Certificate**

- FORMAT
  - Section A
    - Updated and new diagrams
  - Section C
    - LAG for LOMCs
  - Section D
    - Verification of latitude and longitude provided in Section A
  - Section G
    - "Design" Elevation
  - Updates to Instructions



# **Elevation Certificate overview**

- Section A
  - General Property and Owner Information
  - Some technical information about enclosures and lat/long coordinates with vertical datum
- Section B
  - FIRM panel information
- Section C
  - Documents elevations for A and V zones with BFE



# **Elevation Certificate overview**

- Section D
  - Surveyor, Engineer, or Architect Certification
  - Comments Section
- Section E
  - Documents elevations for AO-Zones and A-Zones without BFE
- Section F

Property Owner/Owner's representative Certification

- Section G
  - Community information (optional)





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

#### **ELEVATION CERTIFICATE**

OMB No. 1660-0008 Expires March 31, 2012

Important: Read the instructions on pages 1-9.

|                           | SECTION A - PROP  | For Insurance Compar            | ny Use:   |          |
|---------------------------|---|---------------------------------|---|----------|
| A1. Buildir               | ng Owner's Name   | Policy Number                   |   |          |
| A2. Buildir               | ng Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O.                               | Company NAIC Number             | er  |          |
| City                      |   | State                           | ZIP Code  |          |
| A3. Prope                 | rty Description (Lot and Block Numbers, Tax Parcel Number, Legal De                                     | scription, etc.)                |   |          |
|                           |   |                                 |   |          |
| A4. Buildir               | ng Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) _                                |                                 |   |          |
| A5. Latitud               | de/Longitude: Lat Long  |                                 | lorizontal Datum: 🔲 NAD 1927 🛛                                    | NAD 1983 |
| A6. Attach<br>A7. Buildir | n at least 2 photographs of the building if the Certificate is being used to<br>ng Diagram Number       | obtain flood insurance.         |   |          |
| A8. For a                 | building with a crawlspace or enclosure(s):   | A9. For a building v            | vith an attached garage:  |          |
| a) So                     | quare footage of crawlspace or enclosure(s) sq ft   | a) Square foo                   | tage of attached garage   | sq ft    |
| b) No<br>en               | b. of permanent flood openings in the crawlspace or<br>aclosure(s) within 1.0 foot above adjacent grade | b) No. of perm<br>within 1.0 fo | nanent flood openings in the attached<br>bot above adjacent grade | garage   |
| c) To                     | otal net area of flood openings in A8.b sq in   | <li>c) Total net ar</li>        | ea of flood openings in A9.b                                      | sq in    |
| d) Er                     | ngineered flood openings? 🔛 Yes 📃 No  | d) Engineered                   | I flood openings? Yes No  | )        |

SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION



# **Building photographs**

| ÷                         | Building Photographs   |                            |                     |  |  |
|---------------------------|--|----------------------------|---------------------|--|--|
| Building Street Address ( | uilding Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. |                            |                     |  |  |
| City                      | State  | ZIP Code                   | Conpany NAIC Number |  |  |
| Ero                       | ntviow   | Reary                      |                     |  |  |
|                           | ntview   | i tear v                   |                     |  |  |
| of b                      | of building of build   |                            |                     |  |  |
| to be                     | e insured  | to be in:                  | sured               |  |  |
| Da<br>pho<br>was          | ite the<br>tograph<br>s taken  | Date t<br>photog<br>was ta | the<br>raph<br>iken |  |  |
| Front View – Dat          | e of Photograph:   | Rear View – Date of F      | Photograph:         |  |  |

### (A6) An additional form for attaching photographs is provided with the new Elevation Certificate.

- 3"x3" color photographs
- Digital format acceptable
- At least two photographs showing front and rear of building
- If building is split- or multi-level, at least 2 additional photographs are needed
- Helpful to show the lowest level of the building that is above grade
- Date when photos were taken
- Show flood openings



# **Section A**

| 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 Z   | IP 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 Dat  | tum: 🔄 NAD 1927 🔄 NAD 1983 📋   |
| A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.  |  |
| A7. Building Diagram Number  |  |
| A8. For a building with a crawl space or enclosure(s), provide:       A9. For a building with an attach         a) Square footage of crawl space or enclosure(s)      sq ft         b) No. of permanent flood openings in the crawl space or enclosure(s) walls within 1.0 foot above adjacent grade      sq in         c) Total net area of flood openings in A8.b      sq in | ed garage, provide:<br>med garage sq ft<br>openings in the attached garage<br>ve adjacent grade<br>penings in A9.b sq in |

- Building diagram number
- Measurements of crawl spaces, enclosures, attached garages, and flood openings







### 2009 Form: No change to **Diagrams 2-8**



#### 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 one side is at or above grade. The principal use of this building is located in the elevated floors of the building.

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



#### DIAGRAM 8

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

Distinguishing Feature – The bottom (crawlspace) floor is at or 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 2.)



### 2009 Form: New Diagram 9 Below-grade Crawl Space



# **Section A**

| 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 Z  | P 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 Dat   | um: 🗌 NAD 1927 🔄 NAD 1983 📗    |
| A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.   |                                |
| A7. Building Diagram Number   |                                |
| A8. For a building with a crawl space or enclosure(s), provide: A9. For a building with an attach   | ed garage, provide:            |
| a) Square footage of crawl space or enclosure(s)sq ft a) Square footage of attach   | ed garage Sq ft                |
| b) No. of permanent flood openings in the crawl space or b) No. of permanent flood o<br>enclosure(s) walls within 1.0 foot above adjacent grade walls within 1.0 foot above | penings in the attached garage |
| c) Total net area of flood openings in A8.b   | benings in A9.b sq in          |
|   |                                |

- Building diagram number
- Measurements of crawl spaces, enclosures, attached garages, and flood openings



# **Flood Openings**

- Permanent Opening in a Wall that Allows the Free Passage of Water in Both Directions, Automatically, Without Human Intervention.
- A Window, a Door, or a Garage Door is Not Considered an Opening.





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

### **ELEVATION CERTIFICATE**

OMB No. 1660-0008 Expires March 31, 2012

Important: Read the instructions on pages 1-9.

| 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 Hong Hong   | prizontal 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): A9. For a building wi   | ith an attached garage:   |
| a) Square footage of crawlspace or enclosure(s) <b>1,200</b> sq ft a) Square foota  | age of attached garage <u>N/A</u> sq ft   |
| b) No. of permanent flood openings in the crawlspace or<br>enclosure(s) within 1.0 foot above adjacent grade10                            | anent flood openings in the attached garage<br>ot above adjacent grade <u>N/A</u> |
| c)   Total net area of flood opening <u>s in</u> A8.b <u>1,280  </u> sq in            c)   Total net are                                  | a of flood openings in A9.b <mark>N/A_</mark> _ sq in                             |
| d) Engineered flood openings? Yes No d) Engineered  | flood openings? 🔄 Yes 📃 No  |

- Enter data for attached garage, even if it's above BFE
- If no attached garage: enter "N/A"
- Measure from exterior or interior grade, whichever is higher



| 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       B7. FIRM Panel       B8. Flood       B9. Base Flood Elevation(s) (Zone         Date       Effective/Revised Date       Zone(s)       A0, use base flood depth) |  |  |  |  |  |  |  |
| 310. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9.   |  |  |  |  |  |  |  |
| B11. Indicate elevation datu<br>B12. Is the building located i<br>Designation Date  | FIS Profile       FIRM       Community Determined       Other (Describe) |  |  |  |  |  |  |



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

#### SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

| B1. NFIP Community Name & Community Number                                       |                                      | lumber B2   | B2. County Name  |                                      | B3. State  |  |
|--|--------------------------------------|---|--|--------------------------------------|--|--|
| B4. Map/Panel Number   | B5. Suffix                           | B6. FIRM Index<br>Date                                | x B7. FIRM Panel B8. Flood<br>Effective/Revised Date Zone(s) |                                      | B9. Base Flood Elevation(s) (Zone<br>AO, use base flood depth) |  |
| B10. Indicate the source of  | the Base Flood E                     | l<br>levation (BFE) data or t<br>Community Determined | base flood depth entered in Item                             | B9.                                  |  |  |
| B11. Indicate elevation data<br>B12. Is the building located<br>Designation Date | um used for BFE<br>in a Coastal Barr | in Item B9: 🔲 NGVD 1<br>ier Resources System (        | 929 NAVD 1988<br>CBRS) area or Otherwise Protect             | Other (Describe)<br>cted Area (OPA)? | Yes No   |  |

- B.4. For maps in a county-wide format, the sixth character of the "Map Number" is the letter "C" followed by a four-digit map number.
- For maps not in a county-wide format, enter the "Community Panel Number" shown on the FIRM.





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| SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION  |   |   |   |  |        |  |
|--|---|---|---|--|--------|--|
| B1. NFIP Community Name & Community Number B2. County Name B3. State                                       |   |   |   |  |        |  |
| B4. Map/Panel Number   | B4. Map/Panel Number       B5. Suffix       B6. FIRM Index       B7. FIRM Panel       B8. Flood       B9. Base Flood Elevation(s) (Zone         Date       Effective/Revised Date       Zone(s)       A0, use base flood depth) |   |   |  |        |  |
| 310. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9.    |   |   |   |  |        |  |
| <ul> <li>B11. Indicate elevation datu</li> <li>B12. Is the building located in Designation Date</li> </ul> | m used for BFE i<br>n a Coastal Barr  | n Item B9: 🔲 NGVI<br>ier Resources System | D 1929 NAVD 1988<br>m (CBRS) area or Otherwise Protec<br>CBRS OPA | Other (Describe) _<br>cted Area (OPA)? | Yes No |  |

B8 – This is the flood zone affecting the STRUCTURE only.





| SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION  |            |                        |  |                      |  |
|--|------------|------------------------|--|----------------------|--|
| B1. NFIP Community Name & Community Number   |            |                        | 2. County Name                           | B3. State            |  |
| B4. Map/Panel Number   | B5. Suffix | B6. FIRM Index<br>Date | B7. FIRM Panel<br>Effective/Revised Date | B8. Flood<br>Zone(s) | B9. Base Flood Elevation(s) (Zone<br>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          B11. Indicate elevation datum used for BFE in Item B9:          NGVD 1929          B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)?           Yes          B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)?           Yes |            |                        |  |                      |  |



|  |   | SECTION C - BUILDING ELEVATION   | INFORMATION (SI | JRVEY F    | REQUIRED)                 |  |
|--|---|--|-----------------|------------|---------------------------|--|
| C1.  | 1. 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<br>below according to the building diagram specified in Item A7. Use the same datum as the BFE. |   |  |                 |            |                           |  |
|  | Ber   | nchmark Utilized   | Vertical Datum  |            |                           |  |
|  | Cor   | nversion/Comments  | 5K (81          |            |                           |  |
|  |   |  | С               | heck the r | measurement used.         |  |
|  | a)  | Top of bottom floor (including basement, crawlspace, or enclosure floor  | r)              | feet       | meters (Puerto Rico only) |  |
|  | b)  | Top of the next higher floor   |                 | feet       | meters (Puerto Rico only) |  |
|  | c)  | Bottom of the lowest horizontal structural member (V Zones only)   |                 | feet       | meters (Puerto Rico only) |  |
|  | d)  | Attached garage (top of slab)  |                 | feet       | meters (Puerto Rico only) |  |
|  | e)  | Lowest elevation of machinery or equipment servicing the building<br>(Describe type of equipment and location in Comments) |                 | feet       | meters (Puerto Rico only) |  |
|  | f)  | Lowest adjacent (finished) grade next to building (LAG)  |                 | feet       | meters (Puerto Rico only) |  |
|  | g)  | Highest adjacent (finished) grade next to building (HAG)   |                 | feet       | meters (Puerto Rico only) |  |
|  | h)  | Lowest adjacent grade at lowest elevation of deck or stairs, including<br>structural support                               |                 | feet       | meters (Puerto Rico only) |  |

 Provide the vertical datum to which the official elevation for the benchmark is referenced.



## Section C Official survey required

|     |  | SECTION C - BUILDING ELEVATION IN  | FORMATION (    | 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. | Elev   | vations – Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE),<br>w according to the building diagram specified in Item A7. Use the same of<br>schmark Utilized | AR, AR/A, AR/A | <u>E, AR/A1-A</u> | 30, AR/AH, AR/AO. Complete Items C2.a-h |  |
|     | Cor  | version/Comments   | Venical Datu   | n                 |   |  |
|     | 001  |  |                | Check the         | measurement used.                       |  |
|     | a)   | Top of bottom floor (including basement, crawlspace, or enclosure floor)   | Every time     | feet              | meters (Puerto Rico only)               |  |
|     | b)   | Top of the next higher floor   | If >1 floor    | feet              | meters (Puerto Rico only)               |  |
|     | c)   | Bottom of the lowest horizontal structural member (V Zones only)   | V-Zones        | feet              | meters (Puerto Rico only)               |  |
|     | d)   | Attached garage (top of slab)  | As applies     | feet              | meters (Puerto Rico only)               |  |
|     | e)   | Lowest elevation of machinery or equipment servicing the building<br>(Describe type of equipment and location in Comments)   | Every time     | feet              | meters (Puerto Rico only)               |  |
|     | f)   | Lowest adjacent (finished) grade next to building (LAG)  | Every time     | feet              | meters (Puerto Rico only)               |  |
|     | g)   | Highest adjacent (finished) grade next to building (HAG)   | Every time     | feet              | meters (Puerto Rico only)               |  |
|     | h)   | Lowest adjacent grade at lowest elevation of deck or stairs, including   | Every time     | feet              | meters (Puerto Rico only)               |  |
|     |  | structural support   |                | ST 25             |   |  |

## **2009** Form: C2. h) New, needed for LOMAs and LOMR-Fs



## Section C Areas used for C.2.a

|     |  | SECTION C - BUILDING ELEVATION IN  | FORMATION (                         | SURVEY  | REQUIRED)                               |  |  |  |
|-----|--|--|-------------------------------------|---|---|--|--|--|
| C1. | Building elevations are based on: Construction Drawings* Built<br>*A new Elevation Certificate will be required when construction of the building is c |  |                                     | Building Under Construction* Finished Construction is complete. |   |  |  |  |
| C2. | Elev   | vations – Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE),<br>ow according to the building diagram specified in Item A7. Use the same d | AR, AR/A, AR/At<br>latum as the BFE | E, AR/A1-A  | 30, AR/AH, AR/AO. Complete Items C2.a-h |  |  |  |
|     | Benchmark UtilizedVertical Da  |  |                                     | n   |   |  |  |  |
|     | Cor  | nversion/Comments  |                                     | Checkthe  |   |  |  |  |
| -   |  |  |                                     | Спеск тле   | measurement used.                       |  |  |  |
| - 0 | a)   | Top of bottom floor (including basement, crawlspace, or enclosure floor)   | Every time                          | feet  | meters (Puerto Rico only)               |  |  |  |
|     | b)   | Top of the next higher floor   | If >1 floor                         | feet  | meters (Puerto Rico only)               |  |  |  |
|     | c)   | Bottom of the lowest horizontal structural member (V Zones only)   | V Zones                             | feet  | meters (Puerto Rico only)               |  |  |  |
|     | d)   | Attached garage (top of slab)  | If garage                           | feet  | meters (Puerto Rico only)               |  |  |  |
|     | e)   | Lowest elevation of machinery or equipment servicing the building<br>(Describe type of equipment and location in Comments)                           | Every time                          | feet  | meters (Puerto Rico only)               |  |  |  |
|     | f)   | Lowest adjacent (finished) grade next to building (LAG)  | Every time                          | feet  | meters (Puerto Rico only)               |  |  |  |
|     | g)   | Highest adjacent (finished) grade next to building (HAG)   | Every time                          | feet  | meters (Puerto Rico only)               |  |  |  |
|     | h)   | Lowest adjacent grade at lowest elevation of deck or stairs, including structural support  | Every time                          | feet  | meters (Puerto Rico only)               |  |  |  |

Slab on grade floor

Basement floor

- Elevated floor
- Enclosure floor
- Crawl space floor



# **Crawl Space**

The surveyor should endeavor to gain access to the crawl space to shoot the elevation of the crawl space floor.

### If access to the crawl space cannot be gained:

 Use a yardstick or tape measure to measure the floor height to the "next higher floor," then subtract the crawl space height from the elevation of the "next higher floor."

or

 Contact the local floodplain administrator of the community where the building is located. There may be documentation of the elevation of the crawl space floor as part of the permit issued for the building.



## **Crawl Space**



- Ask the property owner if s/he has documentation or knows the height of the crawl space floor to the next higher floor.
- Try to verify this by looking inside the crawl space through any openings or vents.





 In all three cases, provide the elevation in the comments area and a brief description of how the elevation was obtained.



|     |              | SECTION C - BUILDING ELEVATION IN  | IFORMATION (                     | SURVE      | Y REQUIRED)               |  |  |  |
|-----|--------------|--|----------------------------------|------------|---------------------------|--|--|--|
| C1. | Buil<br>*A n | Iding elevations are based on: Construction Drawings*  | Building Under C<br>is complete. | onstructio | on* Finished Construction |  |  |  |
| C2. | Elev         | ations – 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<br>w according to the building diagram specified in Item A7. Use the same datum as the BFE. |                                  |            |                           |  |  |  |
|     | Ber          | nchmark Utilized   | Vertical Datu                    | m          |                           |  |  |  |
|     | Cor          | nversion/Comments  | 22                               | 2HT        |                           |  |  |  |
|     |              | Check the measurement used.  |                                  |            |                           |  |  |  |
|     | a)           | Top of bottom floor (including basement, crawlspace, or enclosure floor)   | Every time                       | feet       | meters (Puerto Rico only) |  |  |  |
|     | b)           | Top of the next higher floor   | It >1 floor                      | feet       | meters (Puerto Rico only) |  |  |  |
| - 1 | c)           | Bottom of the lowest horizontal structural member (V Zones only)   | V Zones                          | feet       | meters (Puerto Rico only) |  |  |  |
|     | d)           | Attached garage (top of slab)  | If garage                        | feet       | meters (Puerto Rico only) |  |  |  |
|     | e)           | Lowest elevation of machinery or equipment servicing the building<br>(Describe type of equipment and location in Comments)   | Every time                       | feet       | meters (Puerto Rico only) |  |  |  |
|     | f)           | Lowest adjacent (finished) grade next to building (LAG)  | Every time                       | feet       | meters (Puerto Rico only) |  |  |  |
|     | g)           | Highest adjacent (finished) grade next to building (HAG)   | Every time                       | feet       | meters (Puerto Rico only) |  |  |  |
|     | h)           | Lowest adjacent grade at lowest elevation of deck or stairs, including<br>structural support   | Every time                       | _ feet     | meters (Puerto Rico only) |  |  |  |

- Floor above basement
- Floor above enclosure
- Floor above crawl space



|      |              |   | ne cara ne ren en en entre a sector de la contra de la compania de la contra de<br>entra de la contra de la c |
|------|--------------|---|--|
| C1.  | Buil<br>"A r | uilding elevations are based on: Construction Drawings* Buildi<br>new Elevation Certificate will be required when construction of the building is cor | ing Under Construction*  Finished Construction mplete.   |
| C2.  | Ele          | evations - Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, A  | AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO. Complete Items C2.a-h  |
|      | belo         | elow according to the building diagram specified in Item A7. Use the same datum   | as the BFE.  |
|      | Ber          | enchmark UtilizedV  | ertical Datum  |
|      | Cor          | onversion/Comments  |  |
|      |              |   | Check the measurement used.  |
|      | a)           | Top of bottom floor (including basement, crawlspace, or enclosure floor)  | ery time feet meters (Puerto Rico only)  |
|      | b)           | Top of the next higher floor If >   | 1 floor feet meters (Puerto Rico only)   |
| 12   | C)           | Bottom of the lowest horizontal structural member (V Zones only)  | Zones feet meters (Puerto Rico only)   |
| 3    | d)           | Attached garage (top of slab)   | garage feet meters (Puerto Rico only)  |
| 86   | e)           | Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)                               | ery time feet meters (Puerto Rico only)  |
| - 83 | f)           | Lowest adjacent (finished) grade next to building (LAG)   | ery time feet meters (Puerto Rico only)  |
| - 19 | g)           | Highest adjacent (finished) grade next to building (HAG)  | ery time feet meters (Puerto Rico only)  |
|      | h)           | Lowest adjacent grade at lowest elevation of deck or stairs, including<br>structural support  | ery time feet meters (Puerto Rico only)  |
|      |              | BUILDING ON   | BUILDING WITH BUILDING ON PILES,<br>BASEMENT BIERS OR COLUMNS  |
|      |              |   |  |
|      |              | (C2.a) AZONES VZO   | CZ.a AZONES  |
|      |              |   |  |
|      |              |   | AZONES   |
|      |              |   |  |
|      |              |   |  |
|      |              | BASE FLOOD  |  |
|      |              | ELEVATION   | C2.c) BASE FLOOD<br>ELEVATION  |
|      |              |   | GRADE STADE  |



## Section C C.2.d Attached garage

|   |             | SECTION C - BUILDING ELEVATION IN  | FORMATION (                      | SURVEY      | REQUIRED)                               |
|---|-------------|--|----------------------------------|-------------|---|
| C1.   | Bui<br>*A r | Iding elevations are based on: Construction Drawings*  | Building Under C<br>is complete. | onstruction | * Finished Construction                 |
| C2. Elevations – Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR below according to the building diagram specified in Item A7. Use the same datum as |             |  |                                  | E, AR/A1-A  | 30, AR/AH, AR/AO. Complete Items C2.a-h |
|   | Ber         | nchmark Utilized   | Vertical Datu                    | m           |   |
|   | Cor         | nversion/Comments  | 23                               | 191         |   |
|   |             |  |                                  | Check the   | measurement used.                       |
|   | a)          | Top of bottom floor (including basement, crawlspace, or enclosure floor)   | Every time                       | feet        | meters (Puerto Rico only)               |
|   | b)          | Top of the next higher floor   | If >1 floor                      | feet        | meters (Puerto Rico only)               |
|   | c)          | Bottom of the lowest horizontal structural member (V Zones only)   | V Zones                          | feet        | meters (Puerto Rico only)               |
|   | d)          | Attached garage (top of slab)  | If garage                        | feet        | meters (Puerto Rico only)               |
| - 0   | e)          | Lowest elevation of machinery or equipment servicing the building<br>(Describe type of equipment and location in Comments) | Every time                       | feet        | meters (Puerto Rico only)               |
|   | f)          | Lowest adjacent (finished) grade next to building (LAG)  | Every time                       | feet        | meters (Puerto Rico only)               |
|   | g)          | Highest adjacent (finished) grade next to building (HAG)   | Every time                       | feet        | meters (Puerto Rico only)               |
|   | h)          | Lowest adjacent grade at lowest elevation of deck or stairs, including<br>structural support                               | Every time                       | feet        | meters (Puerto Rico only)               |

Record the elevation for attached garages only at top of slab.  An attached garage means the garage is beside the building, not underneath or separate.



|     |              | SECTION C - BUILDING ELEVATION IN   | <b>IFORMATION</b>                  | SURVEY F     | REQUIRED)                               |
|-----|--------------|---|------------------------------------|--------------|---|
| C1. | Buil<br>"A r | Iding elevations are based on: Construction Drawings*   | Building Under C<br>is complete.   | onstruction* | Finished Construction                   |
| C2. | Ele          | vations – Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE),<br>ow according to the building diagram specified in Item A7. Use the same of | AR, AR/A, AR/A<br>latum as the BFE | E, AR/A1-A3  | 30, AR/AH, AR/AO. Complete Items C2.a-h |
|     | Ber          | nchmark Utilized  | Vertical Datu                      | m            |   |
|     | Cor          | nversion/Comments   | 22                                 | 191          |   |
|     |              |   |                                    | Check the r  | measurement used.                       |
|     | a)           | Top of bottom floor (including basement, crawlspace, or enclosure floor)  | Every time                         | feet         | meters (Puerto Rico only)               |
|     | b)           | Top of the next higher floor  | If >1 floor                        | feet         | meters (Puerto Rico only)               |
|     | c)           | Bottom of the lowest horizontal structural member (V Zones only)  | V Zones                            | feet         | meters (Puerto Rico only)               |
|     | d)           | Attached garage (top of slab)   | If garage                          | feet         | meters (Puerto Rico only)               |
| 0   | e)           | Lowest elevation of machinery or equipment servicing the building<br>(Describe type of equipment and location in Comments)                            | Every time                         | feet         | meters (Puerto Rico only)               |
| - 2 | f)           | Lowest adjacent (finished) grade next to building (LAG)   | Every time                         | feet         | meters (Puerto Rico only)               |
|     | g)           | Highest adjacent (finished) grade next to building (HAG)  | Every time                         | feet         | meters (Puerto Rico only)               |
|     | h)           | Lowest adjacent grade at lowest elevation of deck or stairs, including<br>structural support  | Every time                         | feet         | meters (Puerto Rico only)               |

 Machinery and equipment servicing the building located in an attached garage, enclosure, or on a open utility platform.



|     |   | SECTION C - BUILDING ELEVATION IN  | IFORMATION (                     | SURVEY I     | REQUIRED)                 |  |  |  |
|-----|---|--|----------------------------------|--------------|---------------------------|--|--|--|
| C1. | Buil<br>*A r  | Iding elevations are based on: Construction Drawings*  | Building Under C<br>is complete. | onstruction* | Finished Construction     |  |  |  |
| 22. | 2. 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 |  |                                  |              |                           |  |  |  |
|     | belo  | below according to the building diagram specified in Item A7. Use the same datum as the BFE.                               |                                  |              |                           |  |  |  |
|     | Ber   | nchmark Utilized   | Vertical Datu                    | m            |                           |  |  |  |
|     | Cor   | nversion/Comments  | 25                               | 191          |                           |  |  |  |
|     |   |  |                                  | Check the r  | measurement used.         |  |  |  |
|     | a)  | Top of bottom floor (including basement, crawlspace, or enclosure floor)   | Every time                       | feet         | meters (Puerto Rico only) |  |  |  |
|     | b)  | Top of the next higher floor   | If >1 floor                      | feet         | meters (Puerto Rico only) |  |  |  |
|     | c)  | Bottom of the lowest horizontal structural member (V Zones only)   | V Zones                          | feet         | meters (Puerto Rico only) |  |  |  |
|     | d)  | Attached garage (top of slab)  | If garage                        | feet         | meters (Puerto Rico only) |  |  |  |
|     | e)  | Lowest elevation of machinery or equipment servicing the building<br>(Describe type of equipment and location in Comments) | Every time                       | feet         | meters (Puerto Rico only) |  |  |  |
|     | f)  | Lowest adjacent (finished) grade next to building (LAG)  | Every time                       | feet         | meters (Puerto Rico only) |  |  |  |
|     | g)  | Highest adjacent (finished) grade next to building (HAG)   | Every time                       | feet         | meters (Puerto Rico only) |  |  |  |
|     | h)  | Lowest adjacent grade at lowest elevation of deck or stairs, including   | Every time                       | feet         | meters (Puerto Rico only) |  |  |  |

2009 Form: New, but only needed for LOMAs and LOMR-Fs



#### SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

| This certification is to be signed<br>information. I certify that the init<br>I understand that any false state | and sealed by a land surveyor<br>formation on this Certificate rep<br>ement may be punishable by fin | engineer, or architect authorized by law to certify elevation<br>resents my best efforts to interpret the data available.<br>e or imprisonment under 18 U.S. Code, Section 1001. 2012/31/2006 | ٦   |
|---|--|---|-----|
| Check here if comments are provided on back of form.  |  | Were latitude and longitude in Section A provided by a LACE licensed land surveyor? Yes No  |     |
| Certifier's Name  |  | License Number  |     |
| Title   | Company Name   |   |     |
| Address   | City   | State ZIP Code  |     |
| Signature   | Date   | Telephone   | - 2 |
|   |  |   |     |
|   |  | 2009 Form:  |     |
|   |  | New, lat/long verification  |     |
|   |  |   |     |
|   |  |   |     |



# Section D (cont.)

| IMPORTANT: In these spaces, copy the correspon                   | For Insurance Company Use:             |                        |                           |
|--|--|------------------------|---------------------------|
| Building Street Address (including Apt., Unit, Suite, and/or Blo | dg. No.) or P.O. Route and Box No.     |                        | Policy Number             |
| City   | State                                  | ZIP Code               | Company NAIC Number       |
| SECTION D - SURVEYOR, E  | NGINEER, OR ARCHITECT CER              | RTIFICATION (CO        | NTINUED)                  |
| Copy both sides of this Elevation Certificate for (1) community  | y official, (2) insurance agent/compan | y, and (3) building ov | wner.                     |
| Comments   |  |                        |                           |
|  |  |                        |                           |
|  |  |                        |                           |
| Signature  | Date                                   |                        | Check here if attachments |
| Use this comment section   | on to provide add                      | ditional in            | formation,                |

as appropriate.



#### 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 deters determined below the HAG.<br>b) Top of bottom floor (including basement, crawlspace, or enclosure) is feet determined below the LAG.                          |
| E2. | For Building Diagrams 6-9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 8-9 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is feet 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.    |

 Complete this section if the building is located in Zone AO or Zone A (without BFE). Otherwise, complete Section C.





| SECTION F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION   |      |           |                           |  |  |  |
|--|------|-----------|---------------------------|--|--|--|
| The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge. |      |           |                           |  |  |  |
| Property Owner's or Owner's Authorized Representative's Na   | me   |           |                           |  |  |  |
| Address  | City | State     | ZIP Code                  |  |  |  |
| Signature  | Date | Telephone |                           |  |  |  |
| Comments   |      |           |                           |  |  |  |
|  |      |           | Check here if attachments |  |  |  |

 The address entered in this section must be the <u>mailing</u> <u>address</u> of the property owner or property owner's representative who provided the information on the certificate.



## **Section G**

### **Community Information**

| SECTION G - COMMUNITY INFORMATION (OPTIONAL)  |  |                          |  |  |  |
|---|--|--------------------------|--|--|--|
| The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8 and G9 |  |                          |  |  |  |
| G1. The information in Section C v<br>is authorized by law to certify e   | /as taken from other documentation that h<br>elevation information. (Indicate the source | as been s<br>and date    | igned and sealed by a licensed surveyor, engineer, or architect who of the elevation data in the Comments area below.) |  |  |
| G2. A community official complete<br>G3. The following information (Iten  | d Section E for a building located in Zone<br>ns G4-G9) is provided for community flood  | A (without<br>Iplain man | a FEMA-issued or community-issued BFE) or Zone AO.<br>agement purposes.  |  |  |
| G4. Permit Number   | G5. Date Permit Issued   |                          | G6. Date Certificate Of Compliance/Occupancy Issued  |  |  |
| G7. This permit has been issued for: New Construction Substantial Improvement   |  |                          |  |  |  |
| G8. Elevation of as-built lowest floor (in  | ing at the building site   | ·                        | feet meters (PR)   |  |  |
| G10. Community's design flood elevation   |  | <br>                     | feet meters (PR) Datum   |  |  |
| Local Official's Name   |  | Title                    |  |  |  |
| Community Name Telephone  |  |                          |  |  |  |
| Signature   |  | Date                     |  |  |  |
| Comments  |  |                          |  |  |  |
|   |  |                          |  |  |  |
|   |  |                          | Community officials can  |  |  |
|   |  |                          | transfer information from a  |  |  |
|   |  |                          |  |  |  |
|   |  |                          | previously certified   |  |  |
|   |  |                          | dooumont   |  |  |
|   |  |                          | uocument.  |  |  |





| SECTION G - COMMUNITY INFORMATION (OPTIONAL)  |  |  |  |  |
|---|--|--|--|--|
| The local official who is authorized by law or ordinance to administer the community's and G of this Elevation Certificate. Complete the applicable item(s) and sign below. | floodplain management ordinance can complete Sections A, B, C (or E),<br>Check the measurement used in Items G8 and G9.                |  |  |  |
| G1. The information in Section C was taken from other documentation that has a size authorized by law to certify elevation information. (Indicate the source and            | been signed and sealed by a licensed surveyor, engineer, or architect who<br>d date of the elevation data in the Comments area below.) |  |  |  |
| G2. 🔲 A community official completed Section E for a building located in Zone A (w  | vithout a FEMA-issued or community-issued BFE) or Zone AO.   |  |  |  |
| G3.  The following information (Items G4-G9) is provided for community floodplai  | n management purposes.   |  |  |  |
| G4. Permit Number G5. Date Permit Issued  | G6. Date Certificate Of Compliance/Occupancy Issued  |  |  |  |
| G7. This permit has been issued for: 🔲 New Construction 🛛 🗌 Substantial Imp   | provement  |  |  |  |
| G8. Elevation of as-built lowest floor (including basement) of the building   | feet 🔲 meters (PR) Datum   |  |  |  |
| G9. BFE or (in Zone AO) depth of flooding at the building site  | feet 🔲 meters (PR) Datum   |  |  |  |
| G10. Community's design flood elevation   | feet meters (PR) Datum   |  |  |  |
| Local Official's Name   | Title  |  |  |  |
| Community Name  | Telephone  |  |  |  |
| Signature   | Date   |  |  |  |
| Comments  |  |  |  |  |
|   | An authorized community official<br>who completes Sections C or E  |  |  |  |
| VAL V.  | must complete this section.  |  |  |  |





| SECTION G - COMMUNITY INFORMATION (OPTIONAL)   |  |  |  |  |
|--|--|--|--|--|
| The local official who is authorized by law or ordinance to administer the community's flo<br>and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Ch  | oodplain management ordinance can complete Sections A, B, C (or E),<br>eck the measurement used in Items G8 and G9.                |  |  |  |
| G1. The information in Section C was taken from other documentation that has be is authorized by law to certify elevation information. (Indicate the source and content is a source and content in the source and content is a | en signed and sealed by a licensed surveyor, engineer, or architect who<br>date of the elevation data in the Comments area below.) |  |  |  |
| G2. A community official completed Section E for a building located in Zone A (wit   | hout a FEMA-issued or community-issued BFE) or Zone AO.  |  |  |  |
| G3. L The following information (Items G4-G9) is provided for community floodplain   | management purposes.   |  |  |  |
| G4. Permit Number G5. Date Permit Issued   | G6. Date Certificate Of Compliance/Occupancy Issued  |  |  |  |
| G7. This permit has been issued for: 🔲 New Construction 🛛 Substantial Impr   | ovement  |  |  |  |
| G8. Elevation of as-built lowest floor (including basement) of the building  | feet 🔲 meters (PR) Datum   |  |  |  |
| G9. BFE or (in Zone AO) depth of flooding at the building site   | feet 🔲 meters (PR) Datum   |  |  |  |
| G10. Community's design flood elevation  | feet meters (PR) Datum   |  |  |  |
| Local Official's Name  | itle   |  |  |  |
| Community Name To  | elephone   |  |  |  |
| Signature D  | ate  |  |  |  |
| Comments   |  |  |  |  |
|  | <ul> <li>An authorized community official<br/>may complete the form for<br/>informational purposes only</li> </ul>                 |  |  |  |





| SECTION G - COMMUNITY INFORMATION (OPTIONAL)   |                                 |                |                     |                           |  |  |  |
|--|---------------------------------|----------------|---------------------|---------------------------|--|--|--|
| The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8 and G9. |                                 |                |                     |                           |  |  |  |
| G1. The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)   |                                 |                |                     |                           |  |  |  |
| G2. A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.  |                                 |                |                     |                           |  |  |  |
| G3. The following information (Items G4-G9) is provi   | ded for community floodplain ma | nagement purpo | ses.                |                           |  |  |  |
| 34. Permit Number     G5. Date Permit Issued     G6. Date Certificate Of Compliance/Occupancy Issued   |                                 |                | ce/Occupancy Issued |                           |  |  |  |
| G7. This permit has been issued for: 🗌 New Construction 🔄 Substantial Improvement  |                                 |                |                     |                           |  |  |  |
| G8. Elevation of as-built lowest floor (including basement) of the building feet 🔲 meters (PR) Datum   |                                 |                |                     |                           |  |  |  |
| G9. BFE or (in Zone AO) depth of flooding at the building site feet meters (PR) Datum  |                                 |                |                     | Datum                     |  |  |  |
| G10. Community's design flood elevation  | ·                               | feet           | meters (PR)         | Datum                     |  |  |  |
|  |                                 |                |                     |                           |  |  |  |
| Local Official's Name Title  |                                 |                |                     |                           |  |  |  |
| Community Name Telephone   |                                 |                |                     |                           |  |  |  |
| Signature  | Date                            |                |                     |                           |  |  |  |
|  |                                 |                |                     |                           |  |  |  |
| Comments   |                                 |                |                     |                           |  |  |  |
|  |                                 |                |                     |                           |  |  |  |
|  | ■2009 Form: New                 |                |                     |                           |  |  |  |
|  |                                 |                |                     | Check here if attachments |  |  |  |
|  |                                 |                |                     |                           |  |  |  |
|  |                                 |                |                     |                           |  |  |  |
|  |                                 |                |                     |                           |  |  |  |
|  |                                 |                |                     |                           |  |  |  |



- Following are examples of the 10 diagrams that illustrate various types of buildings.
- For each diagram the required elevations are indicated.



# **Diagram 1A**

#### **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.



 All slab-on-grade single and multiple-floor buildings (other than split level) and high-rise buildings, either detached or row type (e.g. townhouse); with or without attached garage.

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



## Slab-on-grade, one-story building with attached garage





# **Diagram 1B**

#### DIAGRAM 1B

All raised-slab-on-grade or slab-on-stem-wall-with-fill single- and multiple-floor buildings (other than splitlevel), either detached or row type (e.g., townhouses); with or without attached garage.



 All raised slab-on-grade or slab-on-stem-wallwith-fill single and multiple-floor buildings (other than split level) and high-rise buildings, either detached or row type (e.g. townhouse); with or without attached garage.

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



# **Elevated Slab on Back-filled Stemwall**





# Diagram 2

#### DIAGRAM 2

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.\*



 All single-and multiplefloor 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. Buildings constructed above crawl spaces that are below grade on all sides should also use this diagram.\*



# Multiple-floor building with basement, w/o attached garage





# Diagram 3



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

# Slab-on-grade, split-level building w/o attached garage





# **Diagram 4**

#### 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.\*



 All split-level buildings (other than slab-ongrade), 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. Buildings constructed above crawl spaces that are below grade on all sides should also use this diagram. \*



# Split-level building w/o attached garage





# Diagram 5



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



## Multi-level building elevated on piles No obstructions below the elevated floor





# Manufactured home elevated on pier foundation





# **Diagram 6**

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

### Enclosure:

 That Portion of an Elevated Building Below the Lowest Elevated Floor that is Either Partially or Fully Shut-in by Rigid Walls



# In V zones, Enclosures must be designed to be Breakaway Walls

- Collapse under wind and water loads without causing collapse, displacement, or structural damage to the elevated portion of the building or supporting foundation.
- Design safe loading resistance of not less than 10 and no more than 20 pounds per square foot.
- Is Not Part of the Structural Support of the Building



## Elevated Building Partial enclosure





# **Elevated building**





# 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 one 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.



 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 one side is at or above grade. The principal use of this building is located in the elevated floors of the building.



# Building elevated on full-story foundation walls

Fully enclosed area below the elevated floor





# Building elevated on full-story foundation walls

## Fully enclosed area below the elevated floor





# **Diagram 8**

#### DIAGRAM 8

All buildings elevated on a crawlspace with the floor of the crawlspace at or above grade on at least one 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.



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



# Multi-level building elevated on crawl space





# Diagram 9

#### DIAGRAM 9

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

**Distinguishing Feature** – The bottom (crawlspace) floor is at or 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 2.)



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

> New Diagram 9: compliant below grade crawlspace < 5' high, < 2' below grade



# Contacts

- FEMA Publications
  - 1-800-480-2520 (Toll Free)
- FEMA FIRM and FIS Ordering
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- General Mapping and LOMC Questions
  - 1-877-FEMA-MAP (Toll Free)
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