

P15FC0451 P15BP07212

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

# ELEVATION CERTIFICATE

IMPORTANT: Follow the instructions on pages 1-9.

OMB No. 1660-0008  
Expiration Date: July 31, 2015

16 AUG 9 PM 12:02 EPE

SECTION A - PROPERTY INFORMATION		FOR INSURANCE COMPANY USE
A1. Building Owner's Name <b>William Spears</b>		Policy Number:
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. <b>13660 E. Crazy Horse Tr.</b>		Company NAIC Number:
City <b>Tucson</b>	State <b>Az.</b>	ZIP Code <b>85641</b>
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) <b>Tax Code: 205-87-0500 Township 15S Range 16E Section 34</b>		
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) <b>Accessory: Detached Garage</b>		
A5. Latitude/Longitude: Lat. <b>32.088346</b> Long. <b>-110.700535</b> Horizontal Datum: <input type="checkbox"/> NAD 1927 <input checked="" 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 <b>1B</b>		
A8. For a building with a crawlspace or enclosure(s):		A9. For a building with an attached garage:
a) Square footage of crawlspace or enclosure(s) <b>498</b> sq ft		a) Square footage of attached garage <b>N/A</b> sq ft
b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade <b>15</b>		b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade <b>N/A</b>
c) Total net area of flood openings in A8.b <b>516</b> sq in		c) Total net area of flood openings in A9.b <b>N/A</b> sq in
d) Engineered flood openings? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		d) Engineered flood openings? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

B1. NFIP Community Name & Community Number <b>Pima County / 040073</b>		B2. County Name <b>Pima County</b>		B3. State <b>Az.</b>	
B4. Map/Panel Number <b>04019C 2930</b>	B5. Suffix <b>L</b>	B6. FIRM Index Date <b>09/28/2012</b>	B7. FIRM Panel Effective/ Revised Date <b>06/16/2011</b>	B8. Flood Zone(s) <b>X</b>	B9. Base Flood Elevation(s) (Zone AO, use base flood depth) <b>100.5</b>
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 checked="" 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 checked="" type="checkbox"/> Other/Source: <b>High Adj. Nat. Grade (-100ft)</b>					
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					

## 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: **Local, HANG** Vertical Datum: **Assumed 100.0 = HANG**

Indicate elevation datum used for the elevations in items a) through h) below.  NGVD 1929  NAVD 1988  Other/Source: **HANG = 100.00'**  
Datum used for building elevations must be the same as that used for the BFE.

Check the measurement used.

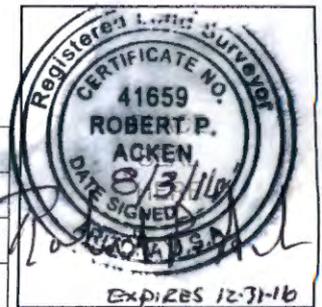
a) Top of bottom floor (including basement, crawlspace, or enclosure floor)	<b>100 . 1</b>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters
b) Top of the next higher floor	<b>None</b>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters
c) Bottom of the lowest horizontal structural member (V Zones only)	<b>N/A</b>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters
d) Attached garage (top of slab)	<b>None</b>	<input checked="" 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)	<b>103 . 8</b>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters
f) Lowest adjacent (finished) grade next to building (LAG)	<b>99 . 8</b>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters
g) Highest adjacent (finished) grade next to building (HAG)	<b>100 . 0</b>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support	<b>None</b>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters

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

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.

Check here if comments are provided on back of form. Were latitude and longitude in Section A provided by a licensed land surveyor?  Yes  No  
 Check here if attachments.

Certifier's Name <b>Robert P. Acken</b>		License Number <b>Az. 41659 RLS</b>	
Title <b>Owner</b>	Company Name <b>Racken Survey Consultants, PLLC</b>		
Address <b>39871 S. Dodge Canyon Road</b>	City <b>Tucson</b>	State <b>Az</b>	ZIP Code <b>85739</b>
Signature <i>Robert P. Acken</i>	Date <b>08/03/2016</b>	Telephone <b>(520) 825-2011</b>	



**ELEVATION CERTIFICATE, page 2**

<b>IMPORTANT: In these spaces, copy the corresponding information from Section A.</b>			<b>FOR INSURANCE COMPANY USE</b>	
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 13660 E. Crazy Horse Tr.			Policy Number:	
City Tucson	State Az.	ZIP Code 85641	Company NAIC Number:	

**SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)**

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

Comments Highest Adjacent Natural Grade = 100.0, Lowest Adjacent Natural Grade = 99.8 C2.e = Bottom of Electric Panel

Signature Robert P. DeL... Date 08/03/2016

**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 8–9 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is \_\_\_\_\_ . \_\_\_\_\_  feet  meters  above or  below the HAG.
- E3. Attached garage (top of slab) is \_\_\_\_\_ . \_\_\_\_\_  feet  meters  above or  below the HAG.
- E4. Top of platform of machinery and/or equipment servicing the building is \_\_\_\_\_ . \_\_\_\_\_  feet  meters  above or  below the HAG.
- E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance?  Yes  No  Unknown. The local official must certify this information in Section G.

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

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

Property Owner or Owner's Authorized Representative's Name \_\_\_\_\_

Address	City	State	ZIP Code
Signature	Date	Telephone	

Comments \_\_\_\_\_

Check here if attachments.

**SECTION G – COMMUNITY INFORMATION (OPTIONAL)**

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8–G10. In Puerto Rico only, enter meters.

- G1.  The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)
- G2.  A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.
- G3.  The following information (Items G4–G10) is provided for community floodplain management purposes.

G4. Permit Number	G5. Date Permit Issued	G6. Date Certificate Of Compliance/Occupancy Issued
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G7. This permit has been issued for:  New Construction  Substantial Improvement

G8. Elevation of as-built lowest floor (including basement) of the building: \_\_\_\_\_ . \_\_\_\_\_  feet  meters Datum \_\_\_\_\_

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

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

Local Official's Name	Title
Community Name	Telephone
Signature	Date

Comments Spoke with builder, builder states that openings in screen mesh seen in picture 1 are 1/4" in size. EMS 8/9/2016.

Check here if attachments.



WEST SIDE  
8-3-16



WEST SIDE  
7-5-16



WEST SIDE  
7-5-16

SOUTH SIDE  
7-5-16





July 12, 2016

Robert P. Acken  
Racken Survey Consultants, PLLC  
39871 South Dodge Canyon Road  
Tucson, Arizona 85739

Re: Elevation Certificate for Floodplain Use Permit No. P15FC00451  
Detached Garage at 13660 East Crazy Horse Trail

Dear Mr. Acken:

The Regional Flood Control District (District) received an Elevation Certificate completed and sealed on July 7, 2016 for the structure at the above-referenced address.

Unless otherwise noted, all citations to regulations (e.g. Section 16.20.050) refer to the Floodplain Management Ordinance (Ordinance), Title 16 of the Pima County Code.

For the purpose of this letter, unless otherwise noted, the following flood elevations shall be used:

Base Flood Elevation (BFE) = 100.5 ft. above highest adjacent natural grade (HANG)

Regulatory Flood Elevation (RFE) = 101.5 ft. above highest adjacent natural grade (HANG)

Upon review of the Elevation Certificate, the District has determined that all of the information or documentation required pursuant to Section 16.20.040 of the Ordinance has not been submitted. As such, the Elevation Certificate is not acceptable at this time. The District cannot release any holds until ALL of the following comments are addressed by owner and/or surveyor. Please note that the response to the comments below may yield additional comments that need to be addressed.

- 1) Section A8. a-c, of the submitted Elevation Certificate, were labeled "None". Due to the structure being flood vented, Section A8. a-c needs to be completed.
- 2) On Page 2, Section labeled "Comments", the original Elevation Certificate, issued to the applicant and/or owner, requested the elevation of the "Highest Adjacent Natural Grade" (HANG) & the "Lowest Adjacent Natural Grade" (LANG). These two items were missing from the submitted Elevation Certificate. Please add the elevation of the HANG & LANG to Page 2, Section labeled "Comments".
- 3) The vent in the access door, located on the South side of the structure, is an "air vent" and not a flood vent. It appears that the "air vent" was assumed to be, fully open, to the passage of flood water. Because of the narrow slots, the "air vent" cannot be assumed to be "fully open" to the passage of flood waters and as such, each slot opening's area, in square inches, must be calculated and the sum of the slot openings added to the total

Suzanne Shields, P.E., Director

97 E. Congress, 3rd Floor, Tucson, Arizona 85701-1797 • Phone: 520-724-4600 • Fax: 520-724-4621

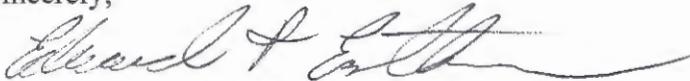
amount of venting in square inches. If the amount of summed slot venting is not enough to meet the 516 square inches criteria, one of the following options is available:

- more vents are to be added and the amount of actual vent area; in square inches, calculated and added to the total amount of flood venting in square inches or,
- remove the “air vent” and add a FIMA certified “Smart” flood vent, or,
- Remove the “air vent” and leave the opening, in the door; screen mesh with openings of no smaller than  $\frac{1}{4}$  inch, may be placed over the opening. As long as the screen mesh openings are equal to or larger than  $\frac{1}{4}$  inch, the opening may be considered fully open.

These changes must be reflected on the existing Elevation Certificate initialed and dated by the surveyor of record or a new Elevation Certificate completed by an Arizona Registered Land Surveyor and accompanied by photos, if needed.

If you have any questions or would like to schedule a meeting, please contact me at 724-4600.

Sincerely,



Edward P Eastburn, Hydrologist  
Floodplain Management Division

Enclosure(s): Elevation Certificate completed for FPUP P15FC00451

cc: William Spears  
13660 East Crazy Horse Trail  
Tucson, Arizona 85641