

# ELEVATION CERTIFICATE

OMB No. 1660-0008  
Expires February 28, 2009

Important: Read the instructions on pages 1-8.

OK  
5-4-07

## SECTION A - PROPERTY INFORMATION

A1. Building Owner's Name <b>Putty, Tim and Dee</b>		For Insurance Company Use:
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. <b>10981 North Camino De Oeste</b>		Policy Number
City <b>Tucson</b>	State <b>AZ</b>	Company NAIC Number
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) <b>Tax Code 216-24-0160 Township 12 Range 12E Section 12 Un-subdivided land</b>		ZIP Code <b>85742</b>

A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) **New Non-Habitable Structure (36'x36' sheetmetal barn)**

A5. Latitude/Longitude: Lat. **32.4056** Long. **-111.0672** Horizontal Datum:  NAD 1927  NAD 1983

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

A7. Building Diagram Number **1**

A8. For a building with a crawl space or enclosure(s), provide:

a) Square footage of crawl space or enclosure(s) <b>1296</b> sq ft	A9. For a building with an attached garage, provide:
b) No. of permanent flood openings in the crawl space or enclosure(s) walls within 1.0 foot above adjacent grade <b>5</b>	a) Square footage of attached garage <b>NA</b> sq ft
c) Total net area of flood openings in A8.b <b>40</b> sq ft	b) No. of permanent flood openings in the attached garage walls within 1.0 foot above adjacent grade <b>NA</b>
	c) Total net area of flood openings in A9.b <b>NA</b> sq in

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

R1 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 1015</b>	B5. Suffix <b>K</b>	B6. FIRM Index Date <b>2/8/99</b>	B7. FIRM Panel Effective/Revised Date <b>10-15-2005/ 2-8-1999</b>	B8. Flood Zone(s) <b>Shaded X</b>	B9. Base Flood Elevation(s) (Zone AO, use base flood depth) <b>0.5 feet above grade</b>

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9.  
 FIS Profile  FIRM  Community Determined  Other (Describe) \_\_\_\_\_

B11. Indicate elevation datum used for BFE in Item B9:  NGVD 1929  NAVD 1988  Other (Describe) **Highest Adjacent Natural Grade**

B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)?  Yes  No  
 Designation Date **N/A**  CBRS  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-g below according to the building diagram specified in Item A7.

Benchmark Utilized **Local** Vertical Datum **Assumed zero HAG**

Conversion/Comments **None**

Check the measurement used.

a) Top of bottom floor (including basement, crawl space, or enclosure floor)	<b>0.5</b> <input checked="" type="checkbox"/> feet	<input type="checkbox"/> meters (Puerto Rico only)
b) Top of the next higher floor	<b>NA</b> <input checked="" type="checkbox"/> feet	<input type="checkbox"/> meters (Puerto Rico only)
c) Bottom of the lowest horizontal structural member (V Zones only)	<b>NA</b> <input checked="" type="checkbox"/> feet	<input type="checkbox"/> meters (Puerto Rico only)
d) Attached garage (top of slab)	<b>NA</b> <input checked="" type="checkbox"/> feet	<input type="checkbox"/> meters (Puerto Rico only)
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment in Comments)	<b>NA</b> <input checked="" type="checkbox"/> feet	<input type="checkbox"/> meters (Puerto Rico only)
f) Lowest adjacent (finished) grade (LAG)	<b>NA 0</b> <input checked="" type="checkbox"/> feet	<input type="checkbox"/> meters (Puerto Rico only)
g) Highest adjacent (finished) grade (HAG)	<b>0</b> <input checked="" type="checkbox"/> feet	<input type="checkbox"/> meters (Puerto Rico only)

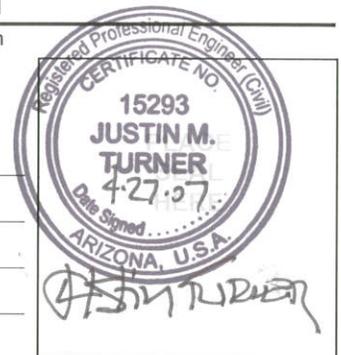
When B.9 is a depth, indicate highest and lowest NATURAL grade in Section D Comments

## 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.

Certifier's Name <b>Justin M. Turner, PE, RLS</b>		License Number <b>Arizona 15293 and 15916</b>	
Title <b>Principal</b>	Company Name <b>Arroyo Engineering, LLC</b>		
Address <b>5675 N. Oracle Rd., Suite 3203</b>	City <b>Tucson</b>	State <b>AZ</b>	ZIP Code <b>85704</b>
Signature <i>Justin M. Turner</i>	Date <b>04-27-2007</b>	Telephone <b>520/ 882-0206</b>	



<b>IMPORTANT: In these spaces, copy the corresponding information from Section A.</b>		For Insurance Company Use:
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. <b>10981 North Camino De Oeste</b>		Policy Number
City <b>Tucson</b>	State <b>AZ</b>	ZIP Code <b>85742</b>
		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 **The lowest service equipment (C3.e) is the NONE and the \_\_\_\_\_ is/are above this elevation.**

NOTE: C2.a The finished floor elevation was measured to be 0.5 feet above Highest Adjacent Natural Grade (HAG)

Signature *[Handwritten Signature]* Date 5.2.07  Check here if attachments

**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, crawl space, and enclosure) is \_\_\_\_\_ feet \_\_\_\_\_ meters  above or  below the HAG.
- b) Top of bottom floor (including basement, crawl space, and enclosure) is \_\_\_\_\_ feet \_\_\_\_\_ meters  above or  below the LAG.
- E2. For Building Diagrams 6-8 with permanent flood openings provided in Section A Items 5 and 9 (see page 8 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is \_\_\_\_\_ feet \_\_\_\_\_ meters  above or  below the HAG.
- E3. Attached garage (top of slab) is \_\_\_\_\_ feet \_\_\_\_\_ meters  above or  below the HAG.
- E4. Top of platform of machinery and/or equipment servicing the building is \_\_\_\_\_ feet \_\_\_\_\_ meters  above or  below the HAG.
- E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance?  Yes  No  Unknown. The local official must certify this information in Section G.

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

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

Property Owner's or Owner's Authorized Representative's Name *[Handwritten Name]*

Address *[Handwritten Address]* City *[Handwritten City]* State *[Handwritten State]* ZIP Code *[Handwritten ZIP]*

Signature *[Handwritten Signature]* Date *[Handwritten Date]* Telephone *[Handwritten 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. 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 provided for community floodplain management purposes.

G4. Permit Number <b>FPUP# 07-0773E</b>	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 (PR) Datum \_\_\_\_\_
- G9. BFE or (in Zone AO) depth of flooding at the building site: \_\_\_\_\_ feet \_\_\_\_\_ meters (PR) Datum \_\_\_\_\_

Local Official's Name \_\_\_\_\_ Title \_\_\_\_\_

Community Name \_\_\_\_\_ Telephone \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

Comments \_\_\_\_\_

Check here if attachments









April 27, 2007

Andy Seiger, PE, Civil Engineering Manager  
Floodplain Management Division  
Pima County Regional Flood Control District  
97 East Congress Street, 3<sup>rd</sup> Floor  
Tucson, AZ 85701

**Subject: Elevation and As-Built Certification**  
**Floodplain Use Permit # 07-073 E, dated Jan. 29, 2007**  
**Tim and Dee Putty property**  
**Tax Code 216-24-0160, 10981 N. Camino De Oeste**  
**Construction of a Uninhabited Barn Below the RFE of an Unnamed Wash**

Dear Andy,

Please let this letter serve as Certification that the 36'x36' sheetmetal barn was substantially constructed in accordance with the approved Site Plan accompanying the above-referenced Floodplain Use Permit. We recently inspected this new barn and found its lowest finished floor to be 0.5 feet above highest adjacent natural grade HAG, which according to the FPUP is equal to the assumed Base Flood Elevation. There is no machinery or service equipment within the subject building. This information is summarized on the attached Elevation Certificate for new construction.

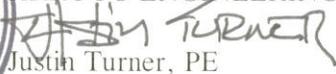
In addition, we found that this 1,296-square-foot building had five permanent openings: three 8-foot-wide horse doorways on one side of the building; and one 12-foot-wide pedestrian doorway on each of the two ends of the building. Thus, thirty-three percent (33%) of the perimeter of this building is permanently open to the outside and may be used for flood venting. Furthermore, this building has a total of 48 square feet of permanent flood venting (that's 48 feet of perimeter openings x 1 ft RFE flow depth over the building pad). This amount of flood-venting area exceeds the 9 square feet of flood-venting area required by 44 CFR §60.3(c)(5) of the NFIP, and by the Special Conditions in the FPUP (i.e., two opposing openings with bottoms no higher than one foot above grade and with a total open area of one (1) square inch per square foot of enclosed building).

This concludes my certification of the floor elevation and flood venting associated with this new uninhabited barn at 10981 N. Camino De Oeste. If you have any questions regarding this inspection and certification, please let me know at your earliest convenience.



Very truly yours,

ARROYO ENGINEERING, LLC

  
Justin Turner, PE

Civil Engineer and Hydrologist

cc: Lee Ann Garcia, Custom Barns, Inc. Tele 622-5072, Fax 622-5060

Attachment: Completed Elevation Certificate (three pages)