

ELEVATION CERTIFICATE

Important: Read the instructions on pages 1-9.

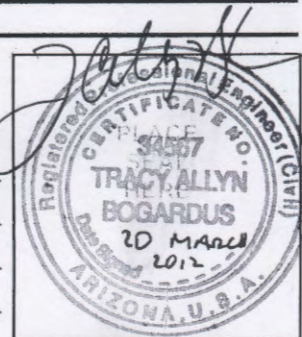
OMB No. 1660-0008
Expires March 31, 2012

SECTION A - PROPERTY INFORMATION		For Insurance Company Use:
A1. Building Owner's Name Manuel & Consuelo Yescas		Policy Number
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 3635 E Via de la Gracia #1		Company NAIC Number
City Sahuarita	State AZ	ZIP Code 85629
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) Tax Code 303-63-022D Township 17S Range 14E Section 21		
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) Residential: Manufactured Home Replacement		
A5. Latitude/Longitude: Lat. 31.939798 Long. -110.915802		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 5		
A8. For a building with a crawlspace or enclosure(s): a) Square footage of crawlspace or enclosure(s) N/A sq ft b) No. of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade N/A c) Total net area of flood openings in A8.b N/A sq in d) Engineered flood openings? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		A9. For a building with an attached garage: a) Square footage of attached garage N/A sq ft b) No. of permanent flood openings in the attached garage within 1.0 foot above adjacent grade N/A c) Total net area of flood openings in A9.b N/A sq in 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 Pima County / 040073		B2. County Name Pima County		B3. State AZ	
B4. Map/Panel Number 04019C 3460	B5. Suffix L	B6. FIRM Index Date 6-16-11	B7. FIRM Panel Effective/Revised Date 6-16-11	B8. Flood Zone(s) X	B9. Base Flood Elevation(s) (Zone AO, use base flood depth) 100.5
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 (Describe)					
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 (Describe) Highest Adj. Nat. Grade (=100 ft)					
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Designation Date N/A <input type="checkbox"/> CBRS <input type="checkbox"/> OPA					

SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)	
C1. Building elevations are based on: <input type="checkbox"/> Construction Drawings* <input type="checkbox"/> Building Under Construction* <input checked="" type="checkbox"/> Finished Construction <small>*A new Elevation Certificate will be required when construction of the building is complete.</small>	
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. Use the same datum as the BFE. Benchmark Utilized HIGHEST ADJACENT NATURAL GRADE Vertical Datum HIGHEST ADJACENT NATURAL GRADE Conversion/Comments N/A	
Check the measurement used.	
a) Top of bottom floor (including basement, crawlspace, or enclosure floor)	101.64 <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
b) Top of the next higher floor	N/A <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
c) Bottom of the lowest horizontal structural member (V Zones only)	N/A <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
d) Attached garage (top of slab)	N/A <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 and location in Comments)	N/A <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
f) Lowest adjacent (finished) grade next to building (LAG)	99.46 <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
g) Highest adjacent (finished) grade next to building (HAG)	100.00 <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support	99.46 <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
<small>When B.9 is a depth above grade, it is required to indicate highest and lowest NATURAL grade in Section D Comments</small>	

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.	
<input type="checkbox"/> Check here if comments are provided on back of form. Were latitude and longitude in Section A provided by a licensed land surveyor? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Certifier's Name Tracy A. Bogardus	License Number 34567
Title President	Company Name Bogardus Engineering, LLC
Address 16618 N. Avenida de la Reata	City Tucson
State AZ	ZIP Code 85739
Signature 	Date 20 March 2012
	Telephone (520) 572-6530



IMPORTANT: In these spaces, copy the corresponding information from Section A.

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

3635 E Via de la Gracia #1

City Sahuarita

State AZ

ZIP Code 85629

For Insurance Company Use:

Policy Number

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 WATERHEATER and the Electrical SERVICE Panel is/are above this elevation.

Highest adjacent natural grade is 100.00 Lowest adjacent natural grade is 99.46

Electric Panel minimum elevation is 101.68, RFE=101.50, WATERHEATER ELEVATION=102.97

ALL OTHER SERVICE EQUIPMENT ABOVE WATER HEATER, LOWEST STRUCTURAL MEMBER ELEVATION=101.64

Signature

Tracy A Bogardus P.E.

Date

20 March 2012

☒ 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, crawlspace, and enclosure) is _____ feet _____ meters ☐ above or ☐ below the HAG.

b) Top of bottom floor (including basement, crawlspace, and enclosure) is _____ feet _____ meters ☐ above or ☐ below the LAG.

E2. For Building Diagrams 6-9 with permanent flood openings provided in Section A Items 3 and 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's 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 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 08-541E 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 (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

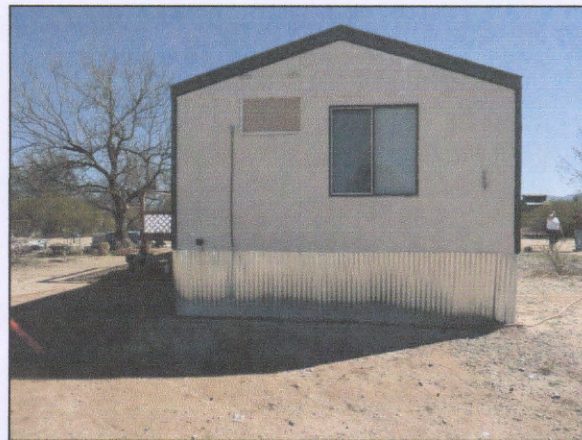
Comments

☐ Check here if attachments

Building Elevations



Picture 1- East Face



Picture 3- West Face

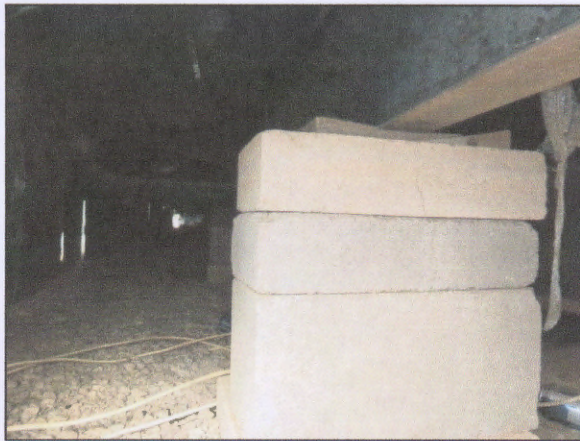


Picture 2- South Face

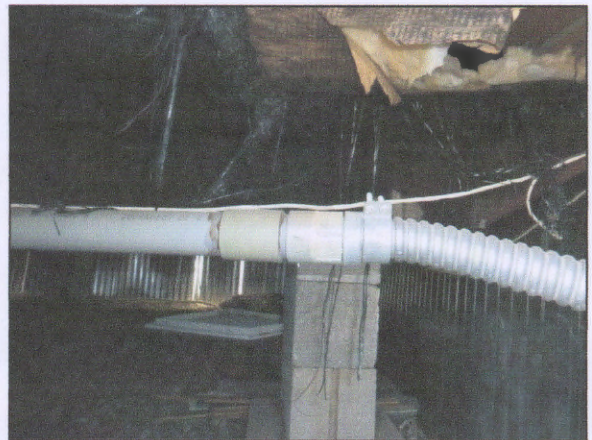


Picture 4- North Face

Home Supports



Picture 5- Southeast Corner Support



Picture 7- Northwest Corner Support



Picture 6- Southwest Corner Support



Picture 8- Home Cooling Unit



3635 W.Via de la Gracia

N.T.S.

BE Number: 12-003-A-001D

FPUP Number: 08-541E

Complaint Number: 12-016

FFE= Measurement to Structural Member
Measurements shown were take 6' beyond
the corner in the direction indicated.
Measurements taken with Leica Disto D5
Handheld Laser Distance Meter.



Bogardus Engineering, L.L.C.

Hydrologic / Hydraulic Engineer

RECEIVED
MAY 22 2012
RFCD

16618 N. Avenida De La Reata
Tucson, AZ 85739

Phone: (520) 572-6530
Fax: (520) 300-8044
E-mail: Tracy@bogardusengineering.com

March 20, 2012

Eric Shepp, P.E. Manager
Pima County Regional Flood Control District
97 East Congress Street, Third Floor
Tucson, Arizona 85701-1797

SUBJECT: COMPLAINT NO. 12-016 3635 E. VIA DE LA GRACIA, ELEVATION CERTIFICATE LETTER

BOGARDUS ENGINEERING NO.: 12-003-A-001D

Dear Eric,

This letter is in response to your letter to Mr. and Mrs. Yescas regarding the Floodplain Management Division of the Pima County Regional Flood Control District regarding the owner provide a completed Elevation Certificate for the manufactured home replacement permitted under the Floodplain Use Permit 08-541E. It is my understanding, in reference to your February 7th letter, that the required Elevation Certificate was not returned as required by the permit. The elevation certificate will demonstrate that the bottom of the structural frame and the lowest point of attached service equipment such as heating, cooling, electrical, and water heater are at or above the RFE of 1.5 feet above the highest adjacent grade.

The project is located approximately 1.0 mile south of the intersection of Sahuarita Road and Alvernon Way to El Toro Road, then approximately 0.50 miles west to the intersection of El Toro Road and Palo Verde Road. One quarter of a mile south on Palo Verde Road is the intersection with Via de la Gracia. The home will be located approximately 800 feet to the east on the north side of the dirt road. The parcel gains access along the western property line. The parcel is approximately 1.68 acres with the subject building located in the southern third of the property. The property is more specifically located within a portion of Section 21 within Township 17 South, Range 14 East, of the Gila and Salt River Base and Meridian, Pima County, Arizona. The property has a parcel identification number of 303-63-022D. The parcel's centroid coordinates are approximately 31.939984 degrees latitude, and -110.915796 degrees longitude.

A detailed survey was not performed whereby the elevations were not tied to a benchmark. The method for measurements was to assume an elevation for the highest adjacent natural grade is 100.00, pursuant to the prepared Elevation Certificate item B11 as filled in by the RFCD. The measurements were taken with a Leica Disto D5 handheld laser distance meter. The typical accuracy of the meter is ± 0.06 inches up to 250 feet. The mobile home is elevated pursuant to installation guidelines on concrete blocks. The building is approximately 975 square feet. The highest adjacent grade was used as a point of reference and set at 100.00. A six (6) foot carpenter's level was placed at the bottom of the structural beam supporting the mobile home and the digital laser meter was placed at the end of the level to measure the distance to the natural grade. A measurement was taken at each corner for each directional face of the building (8 measurements).

The home is elevated a minimum of 1.64 feet above the adjacent grade on the east end of the home and a minimum of 1.98 feet on the west end. The home has metal siding that would be considered breakaway therefore allowing the runoff to flow freely under the home. Picture 1 shows the owner easily removing the skirting. The bottom of the electrical service panel has been set a minimum of 1.50 feet above the adjacent grade. The lowest structural member has an elevation of 101.64 and the lowest service equipment is the water heater which is at an elevation of 102.97. The cooler for the home is located on

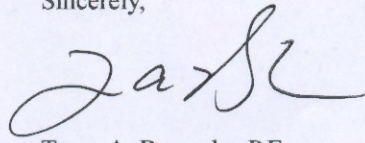
the roof and the heater is located within the residence above the finished floor elevation. All other service equipment not listed is above the lowest service equipment of the water heater.

In conclusion, it is my opinion that the elevation of the mobile home has met the minimum floodplain standards as put forth within the letter dated February 7, 2012. It is recommended that the existing structure be approved for the use within a floodplain.

If you have any question or comments please feel free to give me a call a 572-6530.



Sincerely,


Tracy A. Bogardus P.E.
President
Bogardus Engineering, LLC

Expires 3/31/2012