#### 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		
LANDMARK 24 HOMES  A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.	Company NAIC Number		
109 TAHOE DRIVE  City State ZIP Code	Company IVIIO HUMBS		
POOLER GA 31322			
A3. Property Description (Lot and Block Numbers, Tex Parcel Number, Legal Description, etc.) LOT 287, FOREST LAKES, PHASE 3A (SUBDIVISION MAP BOOK 37S, PAGES 89A-B).			
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) RESIDENTIAL			
A5. Latitude/Longitude: Lat. 32.1477°N Long. 081,2682°W Horizontal Da	itum: 🔲 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 *3			
A8. For a building with a crawlspace or enclosure(s):  A9. For a building with an	• •		
a) Square footage of crawlspace or enclosure(s) N/A sq ft a) Square footage of b) No. of permanent flood openings in the crawlspace or b) No. of permanent	attached garage <u>*442</u> sq ft flood openings in the attached garage		
enclosure(s) within 1.0 foot above adjacent grade 0 within 1.0 foot above	ve adjacent grade <u>*7</u>		
c) Total net area of flood openings in A8.b Q sq in c) Total net area of fl	ood openings in A9.b *638 sq in		
d) Engineered flood openings?			
SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMA			
B1. NFIP Community Name & Community Number CITY OF POOLER 130261  B2. County Name CHATHAM	B3. State GA		
B4. Map/Panel Number B5. Suffix B6. FIRM Index B7. FIRM Panel B8. Floor			
Date   Effective/Revised Date   Zone(s)   13051C0019   F   09/26/2008   09/26/2008   AE	AO, use base flood depth) *20' + 1' FREEBOARD		
Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9.    FIS Profile			
SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REC	UIRED)		
C1. Building elevations are based on:  Construction Drawings* 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. Use the same datum as the BFE.  Benchmark Utilized LOCAL Conversion/Comments N/A  Check the measurement used.			
a) Top of bottom floor (including basement, crawlspace, or enclosure floor) <u>*20.0</u> ⊠ feet ☐ meters (i			
b) Top of the next higher floor <u>*21.3</u>			
c) Bottom of the lowest horizontal structural member (V Zones only) N/A	Puerto Rico only)		
d) Attached garage (top of slab) <u>20.0</u> ⊠ feet ☐ meters (l	Puerto Rico only)		
a) I award alayation of machinery as any inment annihing the building total.	Puerto Rico only) Puerto Rico only)		
e) Lowest elevation of machinery or equipment servicing the building <u>*21.2</u>	Puerto Rico only) Puerto Rico only)		
(Describe type of equipment and location in Comments)  f) Lowest adjacent (finished) grade next to building (LAG)  18.6 ☑ feet ☐ meters (I	Puerto Rico only) Puerto Rico only) Puerto Rico only)		
(Describe type of equipment and location in Comments)  f) Lowest adjacent (finished) grade next to building (LAG)  g) Highest adjacent (finished) grade next to building (HAG)  18.6	Puerto Rico only)		
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(Describe type of equipment and location in Comments)  f) Lowest adjacent (finished) grade next to building (LAG)  g) Highest adjacent (finished) grade next to building (HAG)  h) Lowest adjacent grade at lowest elevation of deck or stairs, including  structural support  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 elinformation. 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 100	Puerto Rico only) ATION Evation		
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(Describe type of equipment and location in Comments)  f) Lowest adjacent (finished) grade next to building (LAG)  g) Highest adjacent (finished) grade next to building (HAG)  h) Lowest adjacent grade at lowest elevation of deck or stairs, including  SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICA  This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elinformation. 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 100  Check here if comments are provided on back of form.  Were latitude and longitude in Section A provided licensed land surveyor?  Certifier's Name  Joseph A. Hale, Jr.  Company Name  Registered Land Surveyor  Kern-Coleman & Co., LLC  Address  City  State  ZIP Code	Puerto Rico only)  ATION Povation  1.  by a		
(Describe type of equipment and location in Comments)  f) Lowest adjacent (finished) grade next to building (LAG)  g) Highest adjacent (finished) grade next to building (HAG)  h) Lowest adjacent grade at lowest elevation of deck or stairs, including  SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICA  This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify el 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 100  Check here if comments are provided on back of form.  Were latitude and longitude in Section A provided licensed land surveyor?  Certifier's Name  Joseph A. Hale, Jr.  Title  Company Name  Registered Land Surveyor  Kern-Coleman & Co., LLC  Address  ZIP Code	Puerto Rico only)  ATION Povation  1. by a  RO. 2886		

Building Street Address (in		ing information from Section A.		r Insurance Company Use:
109 TAHOE DRIVE	ncluding Apt., Unit, Suite, and/or Bldg	. No.) of P.O. Route and Box No.	Po	licy Number
City POOLER	State GA	ZIP Code 31322	Co	mpany NAIC Number
	SECTION D - SURVEYOR, EN	GINEER, OR ARCHITECT CERTIFIC	ATION (CONTIN	UED)
Copy both sides of this Ele	evation Certificate for (1) community of	official, (2) insurance agent/company, and (	3) building owner.	
SECTION A7: BUILDING SECTION A9.a: THE SQU SECTION A9.b: THERE A 1509-F) IN SECTION A9.c: THE TOTA ENGINEE COVER 1: SECTION B9: BASE FLOO ADMINISTRA SECTION B9: THE BASE SECTION C2: THE BENC SHOWN AF SECTION C2.a: THE ELE SECTION C2.b: THE ELE SECTION C2.b: THE ELE SECTION C2.c: THE ELE SECTION C2.c: THE ELE SECTION C3.c: THE ELE SECTION C4.c: THE ELE SECTION C5.c: THE ELE SECTION C6.c: THE ELE SECTION C7.c: THE EL	PARE FOOTAGE OF THE GARAGE RE 3 LOUVRE VENTS LOCATED IN INSTALLED IN THE GARAGE DOOR AL NET AREA OF THE FLOOD OPE RED FLOOD OPENINGS (FEMA TE 31 SQUARE FEET OF ENCLOSED DELEVATION DETERMINED ACCITOR. THE 1'(ONE FOOT) FREEBOUT FREED FOR THIS CERTIFICATE REFERENCED TO NAVD 88. VATION IS FOR THE TOP OF THE EVATION IN THE TOP OF THE EVATION IS FOR THE EVATION IS FOR THE EVATION IS FOR THE TOP OF THE EVATION IS FOR THE EVATION IS FOR THE TOP OF THE EVATION	L FOUNDATION. NO CRAWLSPACE. IS APPROXIMATE. IN THE GARAGE WALL. THERE ARE 4 FLOTA IN THE GARAGE WALL. THERE ARE 4 FLOTA IN THE GARAGE WALL. THE ATTACH IN THE GARAGE WALL. THE ATTACH IN THE FLOOD INDICATES THAT EACH IN TO THE PROCEDURE OF THE COMMUNITY OF THE FLOOD INSURANCE STUDY FLOTA IN THE GARAGE FLOOR. THERE IS LIVING SPAE IN THE CONDENSING UNITY IN THE CONTROL OF THE CONDENSING UNITY IN THE CONTROL OF THE CONDENSING UNITY IN THE CONTROL OF	ED STATE OF GEOCH FLOOD SOLUTION COMMUNITY FLOOD DAMAY COD PROFILE IS 1 "GPS BASE STAT CE ABOVE THE GOOD IN SPACE T.  ZONE AO AND TO THE CONTROL OF THE CONT	ORGIA CERTIFICATION OF IONS LLC FLOOD VENT WILL ODPLAIN ORDINANCE GE PREVENTION ORDINANCE 9.5' (NAVD 88). TON NETWORK, ELEVATION ARAGE.  Check here if attachments  ZONE A (WITHOUT BFE)  est, complete Sections A, B, or below the highest adjacent
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## **Building Photographs**See Instructions for Item A6.

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.			For Insurance Company Use: Policy Number	
109 TAHOE DE		S. Diag. 100, or 1 revitable and beautier		
City	State	ZIP Code	Company NAIC Number	
PÓOLER	GA	31322		

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least two building photographs below according to the instructions for Item A6. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." If submitting more photographs than will fit on this page, use the Continuation Page on the reverse.

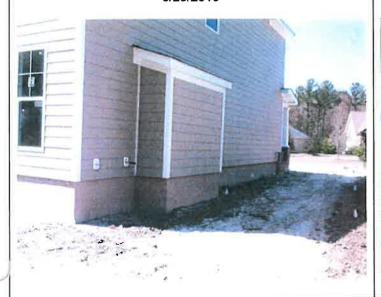
FRONT VIEW 3/29/2013



**REAR VIEW** 3/29/2013



LEFT SIDE VIEW 3/29/2013



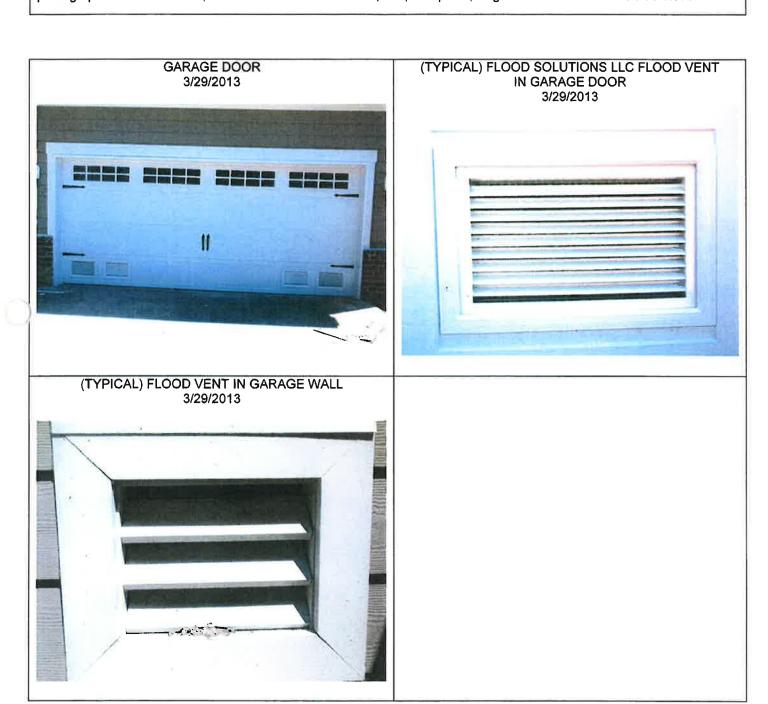
RIGHT SIDE VIEW 3/29/2013



# **Building Photographs**Continuation Page

		=	For Insurance Company Use:
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.			Policy Number
109 TAHOE DR	RIVE		
City	State	ZIP Code	Company NAIC Number
PÓOLER	GA	31322	

If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View."



#### **CERTIFICATION OF ENGINEERED FLOOD OPENINGS (FEMA TB-1 August 2008)**

I do hereby certify that the **FLOOD SOLUTIONS LLC** Flood Vent properly installed and sized in accordance with Federal Emergency Management Agency's (FEMA's) National Flood Program regulations is designed to automatically equalize hydrostatic flood forces on exterior walls by allowing for entry and exit of floodwater during floods up to and including the base 100-year flood.

I also do hereby certify that I calculated the Non Engineered Net Free Air and Engineered Opening size for each model and size of FLOOD SOLUTIONS LLC flood vents. The results of the calculations are recorded in the table below. The Engineered size opening calculation was performed using the formula in FEMA Technical Bulletin 1 – August 2008, Openings in Foundation Walls for Bulldings Located in Special Flood Hazard Areas in accordance with the National Flood Insurance Program (NFIP) and ASCE/SEI 24-05, Flood Resistance Design and Construction.

I measured the Non Engineered Net Free Air by calculating the minimum distance between the top blade and the top of the vent times the clear opening width of the vent; plus the minimum distance between the bottom blade and the bottom of the vent the clear opening width of the vent; plus the minimum distance between each blade times the number of spaces between the blades in vent times the clear opening width of the vent.

I used the formula in TB 1 – August 2008 (A<sup>0</sup> = 0.033 [1/C] RAê) to determine the Engineered Opening size for each model listed below. I used the following assumptions: A<sup>0</sup> = total net area of openings required (in²); 0.033 = coefficient corresponding to a factor of safety of 5.0 (ln² hr/ft³); c = 0.40 opening coefficient (ASCE 24 Table 2-3 "rectangular, long axis horizontal, short axis vertical unobstructed during design flood") or C = 0.35 (square unobstructed during design flood); R = 5 ft/hr worst case rate of rise and fall; and Aê = 1 ft² total enclosed area.

Note: When the horizontal dimension is twice or more the vertical dimension, use 0.4; as the dimensions approach a square, interpolate from 0,4 to 0.35.

### $A^0$ / $A\hat{e}$ = 0.033 [1/C] R = 0.033 [1/0.40 for rectangle, long axis horizontal] R = 0.4125 in<sup>2</sup> per ft<sup>2</sup> or $A^0$ / $A\hat{e}$ = 0.033 [1/C] R = 0.033 [1 / 0.35 for square] R = .4719 in<sup>2</sup> per ft<sup>2</sup>

Each individual opening, and any louvers, screens, or other covers, shall be designed to allow automatic entry and exit of floodwaters during design flood or lesser flood conditions; there shall be a minimum of two openings on different sides of each enclosed area; if a structure has more than one enclosed area below the DFE, each area shall have openings; openings shall not be less than 3 inches in any direction in the plane of the wall; the bottom of each required opening shall be no more than 1 ft. above the adjacent grade; the difference between the exterior and interior floodwater levels shall not exceed 1 ft. during base flood conditions; in the absence of reliable data on the rates of rise and fall, assume a rate of rise and fall of Sft/hr; where data or analysis indicated more rapid rates of rise and fall, the total net area of the required openings shall be increased to account for the higher rates of rise and fall.

MODEL Number Flood Solutions:	SIZE of WALL OPENING: (WIDTH X HEIGHT)	Net Free Air (square inches):	ENGINEERED OPENING (square inches) Each vent covers: (square ft.)
1412-F	14-1/2" x 12"	67	145
1509-F	16"x 9-1/4"	55	131
1608-F	16" x 8"	51	124
1608-D	16" x 8"	51	124
1608-C	16" x 8"	65	158
1616-F	16" x 16"	104	221
1616-D	16" x 16"	102	216
2412-F	24" x 12"	113	274
2412-D	24" x 12"	110	267
2416-F	24" x 16"	156	362
2416-D	24" x 16"	154	357
3208-F	32" x 8"	104	252
3208-D	32" x 8"	104	252

SIGNATURE:

NAME: DANIEL G. FARABAUGH

TYPE OF LICENSE: PROFESSIONAL ENGINEER

STATE: GEORGIA LICENSE NUMBER: 19406

DAN FARABAUGH, P.E. FARABAUGH ENGINEERING AND TESTING, INC. 401 WIDE DR., McKEESPORT, PA 15135