

**Horry County Code Enforcement**

1301 2<sup>nd</sup> Ave Suite 1D09  
Conway, SC 29526



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*Permit 26786*

**MEMO OF REVIEW FOR CORRECTNESS AND COMPLETION**

In accordance with this community's participation in the National Flood Insurance Program's Community Rating System, all FEMA Elevation Certificates must be correct and complete. The attached Certificate has some incorrect items which are noted here.

SECTION A - PROPERTY INFORMATION		For Insurance Company U
A1. Building Owner's Name <i>Retreat at Garden City</i>	Policy Number	
A2. Building Street Address (including Apt., Unit, Suite and/or Bldg. No.) or P.O. Route and Box No. <i>116 G.C. Retreat</i>	Company NAIC Number	
City <i>Murrelet</i> State <i>Indel</i> ZIP Code _____		
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) <i>TMS 19514 07023 Lot 6 G.C. Retreat</i>		
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) _____		
A5. Latitude/Longitude: Lat. _____ Long. _____		Horizontal Datum: <input type="checkbox"/> NAD 1927 <input type="checkbox"/> NAD
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 attached garage, provide:
a) Square footage of crawl space or enclosure(s) _____ sq ft		a) Square footage of attached garage _____
b) No. of permanent flood openings in the crawl space or enclosure(s) walls within 1.0 foot above adjacent grade _____		b) No. of permanent flood openings in the attached garage walls within 1.0 foot above adjacent grade _____
c) Total net area of flood openings in A8.b _____ sq in		c) Total net area of flood openings in A9.b _____
d) Engineered flood openings? <input type="checkbox"/> Yes <input type="checkbox"/> No		d) Engineered flood openings? <input type="checkbox"/> Yes <input type="checkbox"/> No

**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 Date	B7. FIRM Panel Effective/Revised Date	B8. Flood Zone(s)	B9. Base Flood Elevation (use base flood de

- 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/Source: \_\_\_\_\_
- B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)?  
 Yes  No  
 Designation Date \_\_\_\_\_  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-h below according to the building diagram specified in Item A7.  
 Benchmark Utilized \_\_\_\_\_ Vertical Datum \_\_\_\_\_
- Indicate elevation datum used for the elevations in items a) through h) below.  NGVD 1929  NAVD 1988  Other/Source: \_\_\_\_\_

**COMMENTS:**

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Date of Review: *2-23-15* Community Official: *Michael Ode*

*All elevation certificates shall be maintained by the community and copies with the attached memo made available upon request.*

**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. 116 GC Retreat Drive			Policy Number:
City Murrells Inlet	State SC	ZIP Code 29576	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 Item C2.e is HVAC unit servicing the building.

Signature 

Date 09/15/2014

**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–G9) 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 \_\_\_\_\_

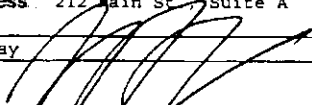
Community Name \_\_\_\_\_ Telephone \_\_\_\_\_

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

Comments \_\_\_\_\_

Check here if attachments.

Sample V Zone Certification

V-Zone Certification					
Property Information			For Insurance Company Use		
Name of Building Owner Retreat at Garden City, LLC			Policy Information		
Building Address or Other Description GC Retreat Drive, Unit #6, The Retreat at Garden City					
City Murrells Inlet		State SC	Zip 29576		
SECTION I: FLOOD INSURANCE RATE MAP (FIRM) INFORMATION					
<i>Note: To be obtained from appropriate FIRMs</i>					
Community No. 450104	Panel No. 45051C0753	Suffix H	Date of FIRM Index 9-17-2003	FIRM Zone VE-17	
SECTION II: ELEVATION INFORMATION					
<i>Note: This form is not a substitute for an Elevation Certificate. Elevations should be rounded to nearest tenth of a foot.</i>					
1. Elevation of the Bottom of Lowest Horizontal Structure Member			18.6 feet		
2. Base Flood Elevation			17 feet		
3. Elevation of Lowest Adjacent Grade			7.0 feet		
4. Approximate Depth of Anticipated Scour/Erosion used for Foundation Design			3 feet		
5. Embedment Depth of Pilings or Foundation Below Lowest Adjacent Grade			20 feet		
6. Datum Used		<input checked="" type="checkbox"/> NGVD '29	<input type="checkbox"/> NAVD '88	<input type="checkbox"/> Other	
SECTION III: FLOOD INSURANCE RATE MAP (FIRM) INFORMATION					
<i>Note: This section must be certified by a registered professional engineer or architect.</i>					
I certify that I have developed or reviewed the structural design, plans and specifications for construction and that the methods of construction to be used are in accordance with accepted standards of practice for meeting the following provisions:					
<ul style="list-style-type: none"> <li>a.) The bottom of the lowest horizontal structure member of the lowest floor (excluding the pilings or columns) is elevated to or above the BFE; and</li> <li>b.) The pile or column foundation and structure attached thereto is anchored to resist flotation, collapse and lateral movement due to the effects of the wind and water loads acting simultaneously on all building components. Water loading values used are those associated with the base flood including wave action. Wind loading values used are those required by the applicable State or local building code. The potential for scour and erosion at the foundation has been anticipated for conditions associated with the flood, including wave action.</li> </ul>					
SECTION IV: FLOOD INSURANCE RATE MAP (FIRM) INFORMATION					
<i>Note: This section must be certified by a registered professional engineer or architect.</i>					
I certify that I have developed or reviewed the structural design, plans and specifications for construction and that the methods of construction to be used for the breakaway walls are in accordance with accepted standards of practice for meeting the following provisions:					
<ul style="list-style-type: none"> <li>c.) Breakaway collapse shall result from water load less than that which would occur during the base flood; and,</li> <li>d.) The elevated portion of the building and supporting foundation system shall not be subject to collapse, displacement, or other structural damage due to the effects of wind and water loads acting simultaneously on all building components (wind and water loading values defined in Section III).</li> </ul>					
SECTION V: CERTIFICATION					
<i>(Check: Section III <input checked="" type="checkbox"/> and/or Section IV <input checked="" type="checkbox"/>)</i>					
Name of Certifier Jeffrey D. Solan, PE, PLS			Title President		
Firm Name Solan Associates, PC			License No. SC 19407		
Street Address 212 Main St., Suite A			Phone No. (843) 488-3400		
City Conway		State SC	Zip 29526		
Signature 			Date 2-4-17		

# ELEVATION CERTIFICATE

IMPORTANT: Follow the instructions on pages 1-8.

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

## SECTION A - PROPERTY INFORMATION

A1. Building Owner's Name Retreat at Garden City, LLC

A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.  
116 GC Retreat Drive

City Murrells Inlet State SC

A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)  
195-14-07-023, Lot #6 of Retreat at Garden City

A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) Residential

A5. Latitude/Longitude: Lat. 33d34'54" Long. 78d59'53" 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 5

A8. For a building with a crawlspace or enclosure(s):  
 a) Square footage of crawlspace or enclosure(s) NA sq ft  
 b) No. of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade NA  
 c) Total net area of flood openings in A8.b \_\_\_\_\_ sq ft  
 d) Engineered flood openings?  Yes  No

A9. For a building with an attached garage:  
 a) Square footage of attached garage NA sq ft  
 b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade NA  
 c) Total net area of flood openings in A9.b \_\_\_\_\_ sq ft  
 d) Engineered flood openings?  Yes  No

FOR INSURANCE COMPANY USE

Policy Number: \_\_\_\_\_

Company NAIC Number: \_\_\_\_\_

ZIP Code: 29576

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

B1. NFIP Community Name & Community Number  
Horry County 450104

B2. County Name  
Horry

B3. State  
SC

B4. Map/Panel Number  
45051C0753

B5. Suffix  
H

B6. FIRM Index Date  
09/17/2003

B7. FIRM Panel Effective/Revised Date  
08/23/1999

B8. Flood Zone(s)  
VE

B9. Base Flood Elevation(s) (Zone A0, use base flood depth)  
17

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/Source: \_\_\_\_\_

B11. Indicate elevation datum used for BFE in Item B9:  NGVD 1929  NAVD 1988  Other/Source: \_\_\_\_\_

B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)?  Yes  No  
 Designation Date: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  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/A0. Complete Items C2.a-h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters.  
 Benchmark Utilized: SCCC 5005-B Vertical Datum: NGVD 1929

Indicate elevation datum used for the elevations in items a) through h) below.  NGVD 1929  NAVD 1988  Other/Source: \_\_\_\_\_  
 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) 21.21  feet  meters

b) Top of the next higher floor 31.21  feet  meters

c) Bottom of the lowest horizontal structural member (V Zones only) 19.71  feet  meters

d) Attached garage (top of slab) NA  feet  meters

e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments) 21.05  feet  meters

f) Lowest adjacent (finished) grade next to building (LAG) 6.6  feet  meters

g) Highest adjacent (finished) grade next to building (HAG) 7.2  feet  meters

h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support 7.3  feet  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 <u>Nathaniel J. Pettit PLS</u>		License Number <u>28153</u>	
Title <u>Solar Associates, P.C.</u>		Company Name <u>Solar Associates, P.C.</u>	
Address <u>212 Main St., Suite A</u>	City <u>Conway</u>	State <u>SC</u>	ZIP Code <u>29526</u>
Signature <u>[Signature]</u>	Date <u>09/15/2014</u>	Telephone <u>(843) 488-3400</u>	

