MEMO OF REVIEW FOR CORRECTNESS AND COMPLETENESS

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.

**A1** Building Owner's Name

A2. Building Street Address (including Apt., Suite, and/or Blvd. No. if P.O. Route and Box No.)

A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)

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

A5. Latitude/Longitude: Lat. _____ Long. _____

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

B. Building Diagram Number

A8. For a building with a crawl space or enclosure(s), provide:
   a) Square footage of crawl space or enclosure(s)
   b) No. of permanent flood openings in the crawl space or
      enclosure(s) walls within 1.0 foot above adjacent grade
   c) Total net area of flood openings in A8b
   d) Engineered flood openings?

A9. For a building with an attached garage, provide:
   a) Square footage of attached garage
   b) No. of permanent flood openings in the attached garage
   c) Total net area of flood openings in A9b
   d) Engineered flood openings?

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

<table>
<thead>
<tr>
<th>B1. NIEP Community Name &amp; Community Number</th>
<th>B2. County Name</th>
<th>B3. State</th>
</tr>
</thead>
</table>

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
   - CBRS
   - OPA

**SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)**

C1. Building elevations are based on:
   - Construction Drawings
   - Building Under Construction

   *A new Elevation Certificate will be required when construction of the building is complete*

   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.
### SECTION A – ELEVATION CERTIFICATE

**ELEVATION CERTIFICATE, page 2**

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

<table>
<thead>
<tr>
<th>Building Street Address (including Act., Unit, Suite, and/or Block, No.) or PO. Route and Box No.</th>
<th>FOR INSURANCE COMPANY USE</th>
</tr>
</thead>
<tbody>
<tr>
<td>116 GC Retreat Drive</td>
<td>Policy Number:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>City</th>
<th>State</th>
<th>ZIP Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Murrells Inlet</td>
<td>SC</td>
<td>29576</td>
</tr>
</tbody>
</table>

| 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.a 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 and lowest adjacent grade (HAG) and the lowest adjacent grade (LAG):

- **Top of bottom floor (including basement, crawlspace, or enclosure):** feet/meters, above or below the HAG.
- **Top of bottom floor (including basement, crawlspace, or enclosure):** feet/meters, above or below the LAG.

**E2.** For Building Diagrams 6-9 with permanent flood openings provided in Section A Items 6 and/or 9 (see pages 8-9 of instructions), the next higher floor (elevation C2.0 in the diagrams) of the building is feet/meters, above or below the HAG.

**E3.** Attached garage (top of slab) feet/meters, above or below the HAG.

**E4.** Top of platform of machinery and/or equipment servicing the building 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 according to 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, and G of this Elevation Certificate. Complete the applicable items(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, architect, or engineer, 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:

<table>
<thead>
<tr>
<th>Item</th>
<th>Information Provided</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>G4.</strong> Permit Number</td>
<td></td>
</tr>
<tr>
<td><strong>G5.</strong> Date Permit Issued</td>
<td></td>
</tr>
<tr>
<td><strong>G6.</strong> Date Certificate of Compliance/Occupancy Issued</td>
<td></td>
</tr>
</tbody>
</table>

**G7.** This permit has been issued for:
- New Construction
- Substantial Improvement

- **Elevation of as-built lowest floor (including basement) of the building:** feet/meters, Datum.

- **BFE or (Zone AO) depth of flooding at the building site:** feet/meters, Datum.

- **Community’s design flood elevation:** feet/meters, Datum.

**Local Official’s Name:**

**Title:**

**Signature:**

**Date:**

**Comments:**

**Check here if attachments:**

FEMA Form 080-0-33 (7/12) Replace all previous editions.
Sample V Zone Certification

V-Zone Certification

<table>
<thead>
<tr>
<th>Property Information</th>
<th>For Insurance Company Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Building Owner</td>
<td>Policy Information</td>
</tr>
<tr>
<td>Building Address or Other Description</td>
<td></td>
</tr>
<tr>
<td>SC Retreat Drive, Unit 46, The Retreat at Garden City</td>
<td></td>
</tr>
<tr>
<td>City</td>
<td>Murrells Inlet</td>
</tr>
<tr>
<td>State</td>
<td>SC</td>
</tr>
<tr>
<td>Zip</td>
<td>29576</td>
</tr>
</tbody>
</table>

SECTION I: FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

<table>
<thead>
<tr>
<th>Community No.</th>
<th>Panel No.</th>
<th>Suffix</th>
<th>Date of FIRM Index</th>
<th>FIRM Zone</th>
</tr>
</thead>
<tbody>
<tr>
<td>450.04</td>
<td>20010751</td>
<td>H</td>
<td>9-17-2003</td>
<td>VE-10</td>
</tr>
</tbody>
</table>

SECTION II: ELEVATION INFORMATION

Note: This form is not a substitute for an Elevation Certificate. Elevations should be rounded to nearest tenth of a foot.

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 9.2 feet
4. Approximate Depth of Anticipated Scour/Erosion used for Foundation Design 3 feet
5. Embedment Depth of Pileings or Foundation Below Lowest Adjacent Grade 20 feet
6. Datum Used \[\text{NGVD} \text{29} \quad \text{NAVD} \text{88} \quad \text{Other} \]

SECTION III: FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

Note: This section must be certified by a registered professional engineer or architect.

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:

a.) The bottom of the lowest horizontal structure member of the lowest floor (excluding the pileings or columns) is elevated to or above the BFE, and

b.) The pile or column foundation and structure attached thereto are 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.

SECTION IV: FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

Note: This section must be certified by a registered professional engineer or architect.

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:

c.) Breakaway collapse shall result from water load less than that which would occur during the base flood; and,

d.) The elevated portion of the building and supporting foundation system shall not be subject to collapse, dislocation, 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).

SECTION V: CERTIFICATION

<table>
<thead>
<tr>
<th>Name of Certifier</th>
<th>Jeffrey D. Solan, PE, PLS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Firm Name</td>
<td>Solan Associates, PC</td>
</tr>
<tr>
<td>License No.</td>
<td>SC 19407</td>
</tr>
<tr>
<td>Street Address</td>
<td>211 Main St, Suite A</td>
</tr>
<tr>
<td>Phone No.</td>
<td>(843) 688-3400</td>
</tr>
<tr>
<td>City</td>
<td>Conway</td>
</tr>
<tr>
<td>State</td>
<td>SC</td>
</tr>
<tr>
<td>Zip</td>
<td>29526</td>
</tr>
<tr>
<td>Signature</td>
<td></td>
</tr>
<tr>
<td>Date</td>
<td>2-4-17</td>
</tr>
</tbody>
</table>
ELEVATION CERTIFICATE

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 RD, Route and Box No.
116 GC Retreat Drive

A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)
195-14-072, Lot #6 of Retreat at Garden City

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

A5. Latitude/Longitude: Lat. 33d43'54" Long. 79d58'53"

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

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

SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NAF Community Name & Community Number
Horry County 450104

B2. County Name
Horry

B3. State
SC

B4. Map, Panel Number
45051C0753

B5. Survey
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 (BFE) (Zone AO, use base flood depth)
17

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.


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.

a) Top of bottom floor (including basement, crawlspace, or enclosure floor)  21 21  21 feet  21 meters
b) Top of the next higher floor  19 19  21 feet  21 meters
c) Bottom of the lowest horizontal structural member (V Zones only)  19 19  21 feet  21 meters
d) Attached garage (top of slab)  NA  NA  NA  NA
 e) Lowest elevation of machinery or equipment serving the building (Describe type of equipment and location in Comments)  21 08  21 feet  21 meters
f) Lowest adjacent (finished) grade next to building (LAG)  6 6  6 feet  6 meters
g) Highest adjacent (finished) grade next to building (HAG)  7 2  7 feet  2 meters
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support  7 3  7 feet  3 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.C. Section 1003.

☐ Check here if comments are provided on back of form.
☐ Check here if attachments.

Certifier's Name
Nathaniel J. Petit PLS

Company Name
Solan Associates, P.C

License Number
28153

Address
212 Main St., Suite A
Conway, SC 29526

Telephone
(843) 488-3400

Note: See reverse side for continuation.