CHARLESTON COUNTY V-ZONE DESIGN CERTIFICATE FOR V-ZONES AND COASTAL A ZONES

PRE-CONSTRUCTION _____ **AS BUILT** _____

Name of Property Owner _____ Permit No. _____

Building Address _____

TMS # _____

City _____ State _____ Zip Code _____

Flood Insurance Rate Map (FIRM) Information

Community Number _____ Panel Number _____ Suffix _____

Date of FIRM Index _____

Elevation Information (All data must be in NAVD 88)

1. Base Flood Elevation (NAVD 88 BFE) _____feet Design Flood Elevation (NAVD 88 DFE) _____feet
2. Bottom of Lowest Horizontal Structural Member **(Structure)** _____feet
3. Bottom of Lowest Horizontal Structural Member **(Utility Stand(s)** _____/_____feet
4. Elevation of Lowest Adjacent Grade _____ feet
5. Approximate Depth of Anticipated Scour/Erosion used for Foundation Design **(Structure)** is_____feet
6. Embedment Depth of Pilings/Columns/Footing **(Structure)** Below Lowest Adjacent Grade is_____feet
7. Approximate Depth of Anticipated Scour/Erosion used for Foundation Design **(Utility Stand(s)** is_____/_____feet
8. Embedment Depth of Pilings/Columns/Footing **(Utility Stand(s)** Below Lowest Adjacent Grade is_____/_____feet

V-Zone Certification Statement

NOTE: **Certificate must be signed and sealed by a registered professional engineer or architect. Construction plans must be in accordance with this certification and must be signed and sealed by a registered professional engineer or architect.**

I certify that I have developed or reviewed the structural design, plans and specifications for construction. The design and methods of construction to be used are in accordance with accepted standards of practice (including ASCE 24-14) and for meeting the following provisions:

- The bottom of the lowest horizontal structural member of the lowest floor (excluding piles and columns) is elevated to a minimum at two (2) foot above the BFE; and
- The pile or column foundation and structure attached thereto is anchored to resist flotation, collapse, and lateral movement due to the combined effects of wind and water loads acting simultaneously on all building components. Water loading values used are those associated with the base flood. 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 base flood, including wave action.

For "As Built" certification, I am certifying that the construction has been done in accordance with the design parameters indicated above.

Certification

Certifier's Name:_____

Company Name: _____

Title: _____

Registration number: _____

Street Address: _____

City: _____State: _____

Zip: _____Telephone: _____

Signature: _____Date: _____

SEAL:

EFFECTIVE March 2025