

## **Appendix A**

# **Annotated Flood Hazard Development Application & Permits Coastal E Model**

Flood Hazard Development Permit Application  
&  
Permit Forms

For Communities with Coastal Velocity Zones  
[60.3(e)]

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This document was prepared by the  
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# FLOOD HAZARD DEVELOPMENT APPLICATION

## Community Name, Maine

(All applicants must complete entire application)

[60.3(e)]

Application is hereby made for a Flood Hazard Development Permit as required under Article II of the Floodplain Management Ordinance of Community Name, Maine, for development as defined in said ordinance. This permit application does not preclude the need for other municipal permit applications. [Article II, also, NFIP Reg. Part 60.3(a)(1)]

Owner: \_\_\_\_\_ Article III.A. Address: \_\_\_\_\_ Article III.A.

Phone No.: \_\_\_\_\_ Article III.A. \_\_\_\_\_

Applicant: \_\_\_\_\_ Article III.A. Address: \_\_\_\_\_ Article III.A.

Phone No.: \_\_\_\_\_ Article III.A. \_\_\_\_\_

Contractor: \_\_\_\_\_ Article III.A. Address: \_\_\_\_\_ Article III.A.

Phone No.: \_\_\_\_\_ Article III.A. \_\_\_\_\_

### LEGAL DESCRIPTION

Is this part of a subdivision?  Yes  No If yes, give the name of the subdivision and lot number:

Subdivision: Recommended but not required by FPMO Lot #: Same

Tax Map: Map required in Article III.B. is not necessarily a Tax Map Lot #: \_\_\_\_\_

Address: \_\_\_\_\_ Article III.B.  
Street/Road Name

Zip Code: \_\_\_\_\_ Article III.B.  
Town/Zip Code

General explanation of proposed development: Article III.D.

Estimated Value of Proposed Development (all materials and labor): \$ \_\_\_\_\_ Article III.E. [Necessary to administer Substantial Improvement requirements or Accessory Structure threshold]

Proposed Lowest Floor elevation [for new or substantially improved structure]: Article III.H.3.

### OTHER PERMITS

Are other permits required from State or Federal jurisdictions?  Yes  No  
If yes, are these other permits attached?  Yes  No  Not Applicable

Federal and State Permits may include but are not limited to: ME/DEP/Natural Resource Protection Act, Site Location of Development Act, Metallic Mineral Exploration, Advanced Exploration and Mining; USACE/Section 9 & 10 of the Rivers and Harbors Act/ Section 404 of the Clean Water Act; Federal Energy Regulation Commission.

### SEWER AND WATER

Sewage Disposal:  Public  Private [Article III.F., Article VI.C.&D., and NFIP Reg. Part 60.3(a)(6)]  
 Existing  Proposed  Not Applicable Type \_\_\_\_\_

Water Supply:  Public  Private [Article III.F., Article VI.B., and NFIP Reg. Part 60.3(a)(5)]

(This section to be completed by Municipal Official)

**LOCATION**

Flooding Source (name of river, pond, ocean, etc.): Recommended but not required by FPMO

- V1-30 Zone  VE Zone  AE Zone  A1-30 Zone  A Zone  AO Zone  AH Zone *[Needed to administer Article VII]*
- FRINGE  FLOODWAY (1/2 width of floodplain in A Zone) *[Needed to administer Article VII]*

Base Flood Elevation (bfe) at the site \_\_\_\_\_ NGVD or  NAVD *[Required for New Construction or Substantial Improvement]*

Lowest floor elevation of proposed or existing structure \_\_\_\_\_ NGVD or  NAVD *[Req. for New Const. or Substantial Improvement]*

If proposed development is in an AE or A1-30 Zone and cross section data is available in the Flood Insurance Study, please note the nearest cross section reference letter and elevation of base flood at nearest cross section above and below the site. *[Recommended but not required by FPMO]*

Cross Section Letter	Base Flood Elevation
Above Site _____	Above Site _____
Below Site _____	Below Site _____

Basis of unnumbered A Zone bfe determination: *[Article V.B., also NFIP Reg Part 60.3(b)(4)]*

- From a Federal Agency:  USGS  USDA/NRCS  USACE  Other \_\_\_\_\_
- From a State Agency:  MDOT  Other \_\_\_\_\_
- Established by Professional Land Surveyor
- Established by Professional Engineer  HEC/RAS  HEC II  HY 7  TR20  TR55  Quick-2
- Other \_\_\_\_\_
- Highest Known Water Level
- Other (Explain) \_\_\_\_\_

**VALUE**

If the development involves work on an existing structure, enter the **Market Value** of existing structure before improvements:

\$ \_\_\_\_\_ What is the value of the improvements (all materials and labor)?: \$ \_\_\_\_\_

*[Needed to administer Substantial Improvement requirements of Article VI].*

- New Construction or Substantial Improvement  Minor improvement or minor addition to existing development

**TYPE OF DEVELOPMENT** *[Article III.D., also Article XIII Definition of Development]*

Check the appropriate box to the left of the type(s) of development requested and complete information for each applicable line:

- |   |            |  |                 |
|---|------------|--|-----------------|
| <input type="checkbox"/> 1. Residential Structure                                   | Dimensions |  | Cubic Yards     |
| <input type="checkbox"/> 1a. New Structure  | _____      | <input type="checkbox"/> 7. Filling <sup>1</sup>   | _____           |
| <input type="checkbox"/> 1b. Add to Structure                                       | _____      | <input type="checkbox"/> 8. Dredging   | _____           |
| <input type="checkbox"/> 1c. Renovations/repairs/maintenance                        | _____      | <input type="checkbox"/> 9. Excavation   | _____           |
| <input type="checkbox"/> 2. Non-Residential Structure                               |            | <input type="checkbox"/> 10. Levee   | _____           |
| <input type="checkbox"/> 2a. New Structure  | _____      | <input type="checkbox"/> 11. Drilling  |                 |
| <input type="checkbox"/> 2b. Add to Structure                                       | _____      |  | Number of Acres |
| <input type="checkbox"/> 2c. Renovations/repairs/maintenance                        | _____      | <input type="checkbox"/> 12. Mining  | _____           |
| <input type="checkbox"/> 2d. Floodproofing  | _____      | <input type="checkbox"/> 13. Dam: Water surface to be created                              | _____           |
| <input type="checkbox"/> 3. Accessory Structure                                     | _____      | <input type="checkbox"/> 14. Water Course Alteration <i>[Article III.L., also NFIP Reg</i> |                 |
| <input type="checkbox"/> 4. Functionally Dependent Use:                             |            | <i>60.3(b)(6)]</i>   |                 |
| <input type="checkbox"/> 4a. Dock   | _____      | <b>Note:</b> Detailed description must be attached with copies of all                      |                 |
| <input type="checkbox"/> 4b. Pier   | _____      | applicable notifications, state and federal permits.                                       |                 |
| <input type="checkbox"/> 4c. Boat Ramp  | _____      | <input type="checkbox"/> 15. Storage of equipment or materials                             |                 |
| <input type="checkbox"/> 4d. Other  | _____      | <input type="checkbox"/> 16. Sewage Disposal System  |                 |
| <input type="checkbox"/> 5. Paving  | _____      | <input type="checkbox"/> 17. Water Supply System   |                 |
| <input type="checkbox"/> 6. Conditional Use (Lobster/Fish Shed seaward of mean high |            | <input type="checkbox"/> 18. Other: Explain  | _____           |
| tide)   |            | _____  | _____           |

**Note:** Conditional Use requires add'l. information due to specific

<sup>1</sup> Certain prohibitions apply in Velocity Zones

standards, public hearing, and Planning Board review.

**Attach a Site Plan** – Drawn to scale with north arrow. [Article III.C.]

- Show property boundaries, floodway, and floodplain lines.
- Show dimensions of the lot.
- Show dimensions and location of existing and/or proposed development on the site.
- Show areas to be cut and filled.

**Attach Statement** – describing in detail how each applicable development standard in Article VI will be met. [Article III.M.]

**For New Construction or Substantial Improvement also show:**

- Existing and proposed grade elevations adjacent to the walls of the structure done by a Professional land Surveyor, Architect, or Engineer.
- Location and elevation of temporary elevation reference marks on the site.

**Special Note:**

**Substantial Improvement** is defined as any reconstruction, rehabilitation, addition or other improvement of a structure, the cost of which equals or exceeds 50 percent of the market value of the structure before the start of construction of the improvement. Please refer to the floodplain management ordinance, Article XIV, for more complete definitions of New Construction and Substantial Improvement.

**Structures in Velocity Zones** are not permitted on fill or excavations. Structures must be built on open foundation systems, i.e., columns, piles, posts. Certification of structural design, specifications, plans and construction methods completed by a Professional Engineer or Architect shall accompany the application as required in Article VI.L.3. of the floodplain management ordinance.

[Article VI.P.]

**The applicant understands and agrees that:**

- The permit applied for, if granted, is issued on the representations made herein;
- Any permit issued may be revoked because of any breach of representation;
- Once a permit is revoked all work shall cease until the permit is reissued or a new permit is issued;
- Any permit issued on this application will not grant any right or privilege to erect any structure or sue any premises described for any purposes or in any manner prohibited by the ordinances, codes, or regulations of the municipality;
- The applicant hereby gives consent to the Code Enforcement Officer to enter and inspect activity covered under the provisions of the Floodplain management Ordinance;
- If issued, the permit form will be posted in a conspicuous place on the premises in plain view; and,
- If issued, the permit will expire if no work is commenced within 180 days of issuance.

I hereby certify that all the statements in, and in the attachments to this application are a true description of the existing property and the proposed development project.

Owner: Recommended but not required by FPMO \_\_\_\_\_ Date: Recommended but not required by FPMO \_\_\_\_\_  
Signature

or

Authorized Agent: Recommended but not required by FPMO \_\_\_\_\_ Date: Recommended but not required by FPMO \_\_\_\_\_  
Signature

<u>[Article IV &amp; VI]</u>		(This section to be completed by Municipal Official)	
Date: Submitted _____;	Fee Paid _____;	Reviewed by CEO _____;	Reviewed by Planning Board _____
Permit # _____	Issued by _____	Date _____	

# FLOOD HAZARD DEVELOPMENT PERMIT

## PART I

### Community Name, Maine

(For New Construction or Substantial Improvements)

**For New Construction or Substantial Improvement of any structure, this Flood Hazard Development Permit allows construction only up to the establishment of the lowest floor.** This permit is issued based on documentation that the information provided in the Flood Hazard Development Permit Application is in compliance with the Floodplain Management Ordinance. Once the lowest floor is established, the permittee must provide an Elevation Certificate establishing the as built lowest floor elevation. When the Code Enforcement Officer finds the documentation in the Elevation Certificate to be in compliance with the Floodplain Management Ordinance, the Part II Flood Hazard Development Permit shall be issued. The Part II Permit must be issued in order for construction to continue. [Article V.F.1.]

A Part I Flood Hazard Development Permit is hereby issued as provided under Article V.F. of the Floodplain Management Ordinance of Community Name, Maine, for development as defined in said ordinance.

Tax Map: \_\_\_\_\_ Lot #: \_\_\_\_\_ [Recommended but not required by FPMO]

Project Description: \_\_\_\_\_ [Recommended but not required by FPMO]

**The permittee understands and agrees that:**

- The permit is issued on the representations made herein and on the application for permit;
- The permit may be revoked because of any breach of representation;
- Once a permit is revoked all work shall cease until the permit is reissued or a new permit is issued;
- The permit will not grant any right or privilege to erect any structure or use any premises described for any purposes or in any manner prohibited by the ordinances, codes, or regulations of the municipality;
- The permittee hereby gives consent to the Code Enforcement Officer to enter and inspect activity covered under the provisions of the Floodplain Management Ordinance;
- The permit form will be posted in a conspicuous place on the premises in plain view; and,
- The permit will expire if no work is commenced within 180 days of issuance.

I hereby certify that all the statements in, and in the attachments to this permit are a true description of the existing property and the proposed development project.

Owner: \_\_\_\_\_ [Recommended but not required by FPMO] Date: \_\_\_\_\_ [Recommended but not required by FPMO]  
Signature

or

Authorized Agent: \_\_\_\_\_ [Recommended but not required by FPMO] Date: \_\_\_\_\_ [Recommended but not required by FPMO]  
Signature

Issued by: \_\_\_\_\_ [Recommended but not required by FPMO] Date: \_\_\_\_\_ [Recommended but not required by FPMO]

Permit #: \_\_\_\_\_ [Recommended but not required by FPMO]

# FLOOD HAZARD DEVELOPMENT PERMIT

## PART II

### Community Name, Maine

(For completion of New Construction or Substantial Improvements)

The following information has been submitted and found compliant with the Development Standards of the Floodplain Management Ordinance:

FEMA Elevation Certificate Form 81-31 [Article V.F.1.]

**For construction in Zones V1-30 and VE only:**

Review of the structural design, specifications, plans, and construction methods by a Professional Engineer or Architect certifying that they meet or exceed the technical criteria contained in the FEMA/Coastal Construction Manual and are in accordance with accepted standard of practice for meeting the criteria of Article VI.P.2. [Article VI.P.2&3.]

A Part II Flood Hazard Development Permit is hereby issued as provided under Article V.F. of the Floodplain Management Ordinance of Community Name, Maine, for development as defined in said ordinance.

Tax Map: \_\_\_\_\_ Lot #: \_\_\_\_\_ [Recommended but not required by the FPMO]

**The permittee understands and agrees that:**

- The permit is issued on the representations made herein and on the elevation certificate;
- The permit may be revoked because of any breach of representation;
- Once a permit is revoked all work shall cease until the permit is reissued or a new permit is issued;
- The permit will not grant any right or privilege to erect any structure or use any premises described for any purposes or in any manner prohibited by the ordinances, codes, or regulations of the municipality;
- The permittee hereby gives consent to the Code Enforcement Officer to enter and inspect activity covered under the provisions of the Floodplain Management Ordinance;
- The permit form will be posted in a conspicuous place on the premises in plain view; and,
- The permit will expire if no work is commenced within 180 days of issuance.

I hereby certify that all the statements in, and in the attachments to this permit are a true description of the existing property and the proposed development project.

Owner: \_\_\_\_\_ Recommended but not required by the FPMO \_\_\_\_\_ Date: Recommended but not required by the FPMO  
Signature

or

Authorized Agent: \_\_\_\_\_ Recommended but not required by the FPMO \_\_\_\_\_ Date: Recommended but not required by the FPMO  
Signature

Issued by: \_\_\_\_\_ Recommended but not required by the FPMO \_\_\_\_\_ Date: Recommended but not required by the FPMO

Permit #: \_\_\_\_\_ Recommended but not required by the FPMO \_\_\_\_\_

# FLOOD HAZARD DEVELOPMENT PERMIT

## For Minor Development

### Community Name, Maine

(For Development not considered a Substantial Improvement)

**This Flood Hazard Development Permit allows minor development as provided in Article V.F.3. of the Floodplain Management Ordinance of Community Name, Maine, for development in a Special Flood Hazard Area as defined in said ordinance.** Development authorized by this permit must be adequately anchored to prevent flotation, collapse, or lateral movement resulting from hydrodynamic and hydrostatic loads, including the effects of buoyancy, be constructed with materials resistant to flood damage and be constructed by methods and practices that minimize flood damage. This permit is issued based on documentation that the information provided in the Flood Hazard Development Permit Application is in compliance with the Floodplain Management Ordinance.

Tax Map: \_\_\_\_\_ Lot #: \_\_\_\_\_ [Recommended but not required by the FPMO]

Project Description: \_\_\_\_\_ [Recommended but not required by the FPMO]

#### The permittee understands and agrees that:

- The permit is issued on the representations made herein and on the application for permit;
- The permit may be revoked because of any breach of representation;
- Once a permit is revoked all work shall cease until the permit is reissued or a new permit is issued;
- The permit will not grant any right or privilege to erect any structure or use any premises described for any purposes or in any manner prohibited by the ordinances, codes, or regulations of the municipality;
- The permittee hereby gives consent to the Code Enforcement Officer to enter and inspect activity covered under the provisions of the Floodplain Management Ordinance;
- The permit form will be posted in a conspicuous place on the premises in plain view; and,
- The permit will expire if no work is commenced within 180 days of issuance.

I hereby certify that all the statements in, and in the attachments to this permit are a true description of the existing property and the proposed development project.

Owner: \_\_\_\_\_ Recommended but not required by the FPMO Date: Recommended but not required by the FPMO  
Signature

or

Authorized Agent: \_\_\_\_\_ Recommended but not required by the FPMO Date: Recommended but not required by the FPMO  
Signature

Issued by: \_\_\_\_\_ Recommended but not required by the FPMO Date: Recommended but not required by the FPMO

Permit #: \_\_\_\_\_ Recommended but not required by the FPMO

# FLOOD HAZARD DEVELOPMENT PERMIT

## For Conditional Use

### Community Name, Maine

**This Flood Hazard Development Permit allows new construction or substantial improvement of any structure which has been reviewed and approved, or approved with conditions, by the Planning Board as a Conditional Use, only as provided for in the Floodplain Management Ordinance of Community Name, Maine, and pursuant to Article VII of the Ordinance. Development authorized by this permit must meet the conditional use requirements specified in Article VI.P.7. of the Ordinance. This permit is issued based on documentation that the information provided in the Flood Hazard Development Permit Application is in compliance with the Floodplain Management Ordinance.**

Tax Map: \_\_\_\_\_ Lot #: \_\_\_\_\_ *[Recommended but not required by the FPMO]*

Project Description: \_\_\_\_\_ *[Recommended but not required by the FPMO]*

Project Condition(s): \_\_\_\_\_ *[Recommended but not required by the FPMO]*

**The permittee understands and agrees that:**

- The permit is issued on the representations made herein and on the application for permit;
- The permit may be revoked because of any breach of representation;
- Once a permit is revoked all work shall cease until the permit is reissued or a new permit is issued;
- The permit will not grant any right or privilege to erect any structure or use any premises described for any purposes or in any manner prohibited by the ordinances, codes, or regulations of the municipality;
- The permittee hereby gives consent to the Code Enforcement Officer to enter and inspect activity covered under the provisions of the Floodplain Management Ordinance;
- The permit form will be posted in a conspicuous place on the premises in plain view; and,
- The permit will expire if no work is commenced within 180 days of issuance.

I hereby certify that all the statements in, and in the attachments to this permit are a true description of the existing property and the proposed development project.

Owner: \_\_\_\_\_ *Recommended but not required by the FPMO* \_\_\_\_\_ Date: *Recommended but not required by the FPMO*  
Signature

or

Authorized Agent: \_\_\_\_\_ *Recommended but not required by the FPMO* \_\_\_\_\_ Date: *Recommended but not required by the FPMO*  
Signature

Issued by: \_\_\_\_\_ *Recommended but not required by the FPMO* \_\_\_\_\_ Date: *Recommended but not required by the FPMO*

Permit #: \_\_\_\_\_ *Recommended but not required by the FPMO* \_\_\_\_\_

# FLOOD HAZARD DEVELOPMENT PERMIT

## For FLOODPROOFING

### Non-Residential Structures

### Community Name, Maine

**This Flood Hazard Development Permit allows Floodproofing of Non-residential Structures in a Special Flood Hazard Area.** Floodproofing means any combination of structural and non-structural additions, changes or adjustments to structures which reduce or eliminate flood damage to real estate or improved real property, water and sanitary facilities, structures and contents. This permit is issued based on documentation that the information provided in the Flood Hazard Development Permit Application is in compliance with the Floodplain Management Ordinance. [Article V.F.2.]

If the floodproofing is to serve as a method of bringing a structure into compliance with National Flood Insurance Program (NFIP) elevation requirements:

- All standards required by NFIP 44 CFR 60.3(c)(3) and all standards required by Article VI.G. of the Floodplain Management Ordinance must be met; and
- The application for this permit must include a FEMA Floodproofing Certificate (Form 81-65) signed by a registered professional engineer or architect certifying that the design and methods of construction will be in accordance with accepted standards of practice for meeting the provisions of NFIP 44 CFR 60.3(c)(3) as well as Article VI.G. of the Floodplain Management Ordinance. [Article VI.G. and NFIP Reg Part 60.3(c)(4)]

A Flood Hazard Development Permit for Floodproofing is hereby issued as provided under Article V.F. of the Floodplain Management Ordinance of Community Name, Maine, for development as defined in said ordinance.

Tax Map: \_\_\_\_\_ Lot #: \_\_\_\_\_ [Recommended but not required by the FPMO]

**The permittee understands and agrees that:**

- The permit is issued on the representations made herein and on the application for permit;
- The permit may be revoked because of any breach of representation;
- Once a permit is revoked all work shall cease until the permit is reissued or a new permit is issued;
- The permit will not grant any right or privilege to erect any structure or use any premises described for any purposes or in any manner prohibited by the ordinances, codes, or regulations of the municipality;
- The permittee hereby gives consent to the Code Enforcement Officer to enter and inspect activity covered under the provisions of the Floodplain Management Ordinance;
- The permit form will be posted in a conspicuous place on the premises in plain view; and,
- The permit will expire if no work is commenced within 180 days of issuance.

I hereby certify that all the statements in, and in the attachments to this permit are a true description of the existing property and the proposed development project.

Owner: \_\_\_\_\_ Recommended but not required by the FPMO Date: Recommended but not required by the FPMO  
Signature

or

Authorized Agent: \_\_\_\_\_ Recommended but not required by the FPMO Date: Recommended but not required by the FPMO  
Signature

Issued by: \_\_\_\_\_ Recommended but not required by the FPMO Date: Recommended but not required by the FPMO

Permit #: \_\_\_\_\_ Recommended but not required by the FPMO

# CERTIFICATE OF COMPLIANCE

## Community Name, Maine

Owner: \_\_\_\_\_ *Recommended but not required by the FPMO*

Address: \_\_\_\_\_ *Recommended but not required by the FPMO*

\_\_\_\_\_

Tax Map: \_\_\_\_\_ Lot #: \_\_\_\_\_ *[Recommended but not required by the FPMO]*

Location of Property: \_\_\_\_\_ *[Recommended but not required by the FPMO]*

\_\_\_\_\_

The development described above has been constructed in compliance with the Floodplain Management Ordinance for the Community Name, Maine. *[Article VIII]*

A variance  was  was not required for this development.

This determination is based on:  Elevation Certificate data  Floodproofing Certificate data  
provided by: [check appropriate box] [Required for New Construction or Substantial Improvement]

Professional land Surveyor

Name: \_\_\_\_\_

Address: \_\_\_\_\_

License #: \_\_\_\_\_

Architect

Name: \_\_\_\_\_

Address: \_\_\_\_\_

License #: \_\_\_\_\_

Professional Engineer

Name: \_\_\_\_\_

Address: \_\_\_\_\_

License #: \_\_\_\_\_

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On Site Inspection by Code Enforcement Officer: \_\_\_\_\_ *Recommended but not required by the FPMO*  
Code Enforcement Officer (please print)

Signature: \_\_\_\_\_ *Recommended but not required by the FPMO* Date: \_\_\_\_\_ *Recommended but not required by the FPMO*

Flood Hazard Development Permit #: \_\_\_\_\_

# National Flood Insurance Program

## V-ZONE CERTIFICATE

[A V-Zone certification is required by the FPMO at Article VI.P.2.c]

Name \_\_\_\_\_ Policy Number (*Insurance Co. Use*) \_\_\_\_\_  
Building Address or  
Other Description \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

### SECTION I: Flood Insurance Rate Map (FIRM) Information

Community Number \_\_\_\_\_ Panel Number \_\_\_\_\_ Suffix \_\_\_\_\_ Date of FIRM Index \_\_\_\_\_ FIRM Zone \_\_\_\_\_

### SECTION II: Elevation Information

NOTE: This Certificate does not substitute for an Elevation Certificate

1. Elevation of the Bottom of Lowest Horizontal Structural Member..... \_\_\_\_\_ feet (NGVD)
2. Base Flood Elevation (BFE)..... \_\_\_\_\_ feet (NGVD)
3. Elevation of Lowest Adjacent Grade..... \_\_\_\_\_ feet (NGVD)
4. Approximate Depth of Anticipated Scour/Erosion used for Foundation Design..... \_\_\_\_\_ feet (NGVD)
5. Embedment Depth of Pilings or Foundation Below Lowest Adjacent Grade..... \_\_\_\_\_ feet (NGVD)

### SECTION III: V-Zone Certification Statement

NOTE: This section must be certified by a registered engineer or architect

I certify that I have developed or reviewed the structural design, plans, and specifications for construction and that the design and methods of construction to be used are in accordance with accepted standards of practice for meeting the following provisions:

- The bottom of the lowest horizontal structural member of the lowest floor (excluding piles and columns) is elevated to or above the BFE; and
- The pile and 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. 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.

### SECTION IV: Breakaway Wall Certification Statement

NOTE: This section must be certified by a registered engineer or architect

when breakaway walls exceed a design safe loading resistance of 20 pounds per square foot

I certify that I have developed or reviewed the structural design, plans, and specifications for construction and that the design and methods of construction to be used for the breakaway walls are in accordance with accepted standards of practice for meeting the following provisions:

- Breakaway wall collapse shall result from a water load less than that which would occur during the base flood; and
- 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 to be used are defined in Section III).

### SECTION V: Certification

Signature below certifies: \_\_\_\_\_ Section III; \_\_\_\_\_ Section IV

Certifier's Name \_\_\_\_\_  
Title \_\_\_\_\_ License Number \_\_\_\_\_  
Street Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_ Telephone Number \_\_\_\_\_

# National Flood Insurance Program

## Hydraulic Openings Certificate

[A Hydraulic Openings certification is required by the FPMO at Article III.K.3. for all engineered hydraulic openings other than those specified by the FPMO at Article VI.L.2.b.]

\_\_\_\_\_  
Project Name

I, \_\_\_\_\_, do hereby certify that the opening(s) designed for installation in the aforementioned building have been engineered to allow for the automatic equalizing of hydrostatic flood forces on exterior walls by allowing for the automatic entry and exit of floodwater during floods up to and including the base (100-year) flood.

[Guidance on engineered openings is available in FEMA's Technical Bulletin 1-93, *Openings in Foundation Walls.*]

\_\_\_\_\_  
Certifier's Name

\_\_\_\_\_  
Title

\_\_\_\_\_  
Type of License

\_\_\_\_\_  
License Number

\_\_\_\_\_  
Company Name

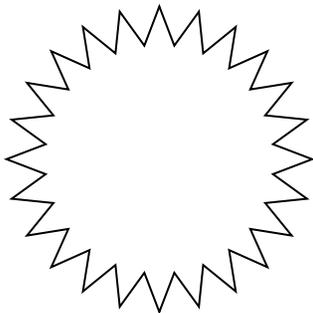
\_\_\_\_\_  
Street Address

\_\_\_\_\_  
City, State, Zip

\_\_\_\_\_  
Telephone Number

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date



PROFESSIONAL SEAL