

**Town of Alexandria  
Floodplain Management Ordinance**

**SECTION I — PURPOSE**

Certain areas of the Town of Alexandria, New Hampshire are subject to periodic flooding, causing serious damages to properties within these areas. Relief is available in the form of flood insurance as authorized by the National Flood Insurance Act of 1968. Therefore, the Town of Alexandria, New Hampshire has chosen to become a participating community in the National Flood Insurance Program, and agreement to comply with the requirements of the National Flood Insurance Act of 1968 (P.L. 90-488) as amended) as detailed in the Floodplain Management Ordinance.

**SECTION II — ESTABLISHMENT**

This ordinance, adopted pursuant to the authority of RSA 674:16, shall be known as the Town of Alexandria Floodplain Management Ordinance.

The following regulations in this ordinance shall apply to all lands designated as special flood hazard areas by the Federal Emergency Management Agency (FEMA) in its "Flood Insurance Study for the County of Grafton, New Hampshire" dated February 20, 2008, together with the associated Flood Insurance Rate Maps dated February 20, 2008, which are declared to be a part of this ordinance and are hereby incorporated by reference.

**SECTION III — PERMITS**

All proposed development, including manufactured homes, shall require a permit to determine whether such construction of development is in a special flood hazard area.

**SECTION IV — CONSTRUCTION REQUIREMENTS**

The Town's Designee shall review all building permit applications for new construction or substantial improvements to determine whether proposed building sites will be reasonably safe from flooding. If a proposed building site is located in a special flood hazard area, all new construction or substantial improvements shall:

- a. be designed (or modified) and adequately anchored to prevent floatation, collapse or lateral movement of the structure resulting from hydrodynamic and hydrostatic loads, including the effects of buoyancy,
- b. be constructed with materials resistant to flood damage,
- c. be constructed by methods and practices that minimize flood damages,
- d. be constructed with electrical, heating, ventilation, plumbing and air conditioning equipment, and other service facilities that are designed and/or located so as to prevent water from entering or accumulating within the components during conditions of flooding.

**SECTION V — WATER AND SEWER SYSTEMS**

Where new or replacement water and sewer systems (including on-site systems) are proposed in a special flood hazard area, the applicant shall provide the Town's Designee with assurance that these systems will be designed to minimize or eliminate filtration of flood waters into the systems and discharges from the

systems into flood waters, and on-site waste disposal systems will be located to avoid impairment to them or contamination from them during periods of flooding.

#### SECTION VI — CERTIFICATION

For all new or substantially improved structures located in the Special Flood Hazard Areas A and AE, the applicant shall furnish the following information to the Town's Designee.

- a. the as-built elevation (in relation to mean sea level) of the lowest floor (including basement) and include whether or not such structures contain a basement.
- b. If the structure has been flood proofed, the as-built elevation (in relation to mean sea level) to which the structure was flood proofed.
- c. Any certification of flood proofing.

#### SECTION VII — OTHER PERMITS

The Town's Designee shall not grant a building permit until the applicant certified that all necessary permits have been received from those governmental agencies from which approval is required by federal or state law, including Section 404 of the Federal Water Pollution Control Act Amendments of 1972, 33 U.S.C. 1334.

#### SECTION VIII — WATERCOURSES

1. In riverine situations, prior to the alteration or relocation of a watercourse, the applicant for such authorization shall notify the Wetlands Bureau of NH Department of Environmental Services and submit copies of such notification to the Town's Designee, in addition to the copies required by RSA 482-A: 3. Further, the applicant shall be required to submit copies of said notification to those adjacent communities as determined by the Town's Designee, including notice before the Wetlands Bureau.
2. The applicant shall submit to the Town's Designee, certification provided by a registered professional engineer, assuring that the flood carrying capacity of an altered or relocated watercourse can and will be maintained.
3. The Town's Designee shall obtain, review and reasonably utilize any floodway data available from Federal, State or other sources as criteria for requiring that all development located in Special Flood Hazard Area A meet the following floodway requirement:  
  
"No encroachments, including fill, new construction, substantial improvements, and other development are allowed within the floodway that would result in any increase in flood levels within the community during the base flood discharge."
4. Until a Regulatory Floodway is designated along watercourses, no new construction, substantial improvements, or other development, including fill, shall be permitted within Special Flood Hazard Area AE on the FIRM, unless it is demonstrated by the applicant that the cumulative effect of the proposed development, when combined with all existing and anticipated development, will not increase the water surface elevation of the base flood more than one foot at any point within the community.

#### SECTION IX — SPECIAL FLOOD HAZARD AREAS

1. In special flood hazard areas, the Town's Designee shall determine the base flood elevation in the following order of precedence according to the data available:
  - a. In Special Flood Hazard Area AE, refer to the elevation data provided in the FIRM.
  - b. In Special Flood Hazard Area A, the Town's Designee shall obtain, review and reasonably utilize any base flood elevation data available from any federal, state or other source including data submitted for development proposals submitted to the community (i.e. subdivisions, site approvals). Where a base flood elevation is not available or not known for Special Flood Hazard Area A, the base flood elevation shall be determined to be at least 2 feet above the highest adjacent grade.
2. The Town's Designee base flood elevation determination will be used as criteria for requiring in Special Flood Hazard Areas A and AE that:
  - a. all new construction or substantial improvements of residential structures have the lowest floor, including basement, elevated to or above the base flood elevation.
  - b. All new construction or substantial improvement of non-residential structures have the lowest floor, including basement, elevated to or above the base flood elevation; or together with attendant utility and sanitary facilities, shall:
    - (i) be flood proofed so that below the base flood elevation the structure is watertight with walls substantially impermeable to the passage of water;
    - (ii) have structural components capable of resisting hydrostatic and hydrodynamic loads and the effects of buoyancy; and
    - (iii) be certified by a registered professional engineer or architect that the design and methods of construction are in accordance with accepted standards of practice for meeting the provisions of this section.
  - c. All manufactured homes to be placed or substantially improved within special flood hazard areas shall be elevated on a permanent foundation such that the lowest floor of the manufactured home is at or above the base flood level; and be securely anchored to resist floatation, collapse, or lateral movement. Methods of anchoring may include, but are not limited to, use of over-the-top or frame ties to ground anchors.
  - d. All recreational vehicles placed on sites within Special Flood Hazard Areas A and AE shall either:
    - (i) be on the site for fewer than 180 consecutive days;
    - (ii) be fully licensed, on wheels or jacking system, attached to the site only by quick disconnect type utilities and security devices, and have no permanently attached; or
    - (iii) meet all standards of this ordinance and the elevation and anchoring requirements for "manufactured homes" in this ordinance.
  - e. For all new construction and substantial improvements, full enclosed areas below the

lowest floor that are subject to flooding are permitted provided they meet the following requirements:

- (i) the enclosed area is unfinished or flood resistant, usable solely for the parking of vehicles, building access or storage;
  - (ii) the area is not a basement;
  - (iii) shall be designed to automatically equalize hydrostatic flood forces on exterior walls by allowing for the entry and exit of floodwater. Designs for meeting this requirement must either be certified by a registered professional engineer or architect or must meet or exceed the following minimum criteria: a minimum of two openings having a total net area of not less than one square inch for every square foot of enclosed area subject to flooding shall be provided. The bottom of all openings shall be no higher than one foot above grade. Openings may be equipped with screens, louvers or other coverings or devices provided that they permit the automatic entry and exit of floodwater.
- f. Proposed structures to be located on slopes in special flood hazard areas, Special Flood Hazard Areas AH and AO shall include adequate drainage paths to guide floodwaters around and away from the proposed structures.

#### SECTION X — VARIANCES AND APPEALS

1. Any order, requirement, decision or determination of the Town's Designee made under this ordinance may be appealed to the Zoning Board of Adjustment as set forth in RSA 676:5.
2. If the applicant, upon appeal, requests a variance as authorized by RSA 674:33, I, the applicant shall have the burden of showing in addition to the usual variance standards under state law that;
  - a. the variance will not result in increased flood heights, additional threats to public safety or extraordinary public expense.
  - b. The variance is the minimum necessary, considering the flood hazard, to afford relief.
3. The Zoning Board of Adjustment shall notify the applicant in writing that:
  - a. the issuance of a variance to construct below the base flood level will result in increased premium rates for flood insurance up to amounts as high as \$25 for \$100 of insurance coverage; and
  - b. such construction below the base flood level increases risks to life and property. Such notification shall be maintained with a record of all variance actions.
4. The community shall:
  - a. maintain a record of all variance actions, including their justification for their issuance, and
  - b. report such variances issued in its annual or biennial report submitted to FEMA's

## SECTION XI — DISTRIBUTION AND REVIEW

1. The planning board and conservation commission shall each be provided with a copy of any construction to be done within the Special Flood Hazard Area prior to final decisions being made by the Town's Designee.

## SECTION XII — DEFINITIONS

The following definitions shall apply only to this Floodplain Management, and shall not be affected by the provisions of any other ordinance of the Town of Alexandria

1. "Area of Special Flood Hazard" is the land in the floodplain with the Town of Alexandria subject to a one-percent or greater possibility of flooding in any given year. The area is designated on the FIRM as Special Flood Hazard Areas A and AE.
2. "Base Flood" means the flood having a one percent possibility of being equated or exceeded in any given year.
3. "Base Flood Elevation" (BFE) means the elevation of surface water resulting from the "base flood."
4. "Basement" means any area of a building having its floor subgrade on all sides.
5. "Building" see "structure"
6. "Development" means any man-made change to improved or unimproved real estate, including but not limited to buildings or other structures, mining, dredging, filling, grading, paving, excavating or drilling operation or storage of equipment or materials.
7. "FEMA" means the Federal Emergency Management Agency
8. "Flood" or "flooding" means a general and temporary condition of partial or complete inundation of normally dry land areas from:
  - a. the overflow of inland or tidal waters, or
  - b. the unusual and rapid accumulation or runoff of surface waters from any sources.
9. "Flood Insurance Rate Map" (FIRM) means the official map incorporated with this ordinance, on which FEMA has delineated both the special food hazard areas and the risk premium zones applicable to the Town of Alexandria.
10. "Flood Insurance Study (FIS)" means an examination, evaluation and determination of flood hazards and, if appropriate, corresponding water surface elevations, or an examination, evaluation and determination of mudslide (i.e. mudflow) and/or flood-related erosion hazards.
11. "Floodplain" or "Flood-prone area" means any land area susceptible to being inundated by water from any source (see definition of "Flooding").

12. "Flood proofing" means any combination of structural and non-structural additions, changes, or adjustments to structures that reduce or eliminate flood damage to real estate or improved real property, water and sanitation facilities, structures and their contents.
13. "Floodway"-see Regulatory Floodway
14. "Highest adjacent grade" means the highest natural elevation of the ground surface prior to construction next to the proposed walls of a structure.
15. "Historic Structure" means any structure that it:
  - a. Listed individually in the National Register of Historic Places (a listing maintained by the Department of Interior) or preliminarily determined by the Secretary of the Interior as meeting the requirements for individual listing on the National Register;
  - b. Certified or preliminarily determined by the Secretary of the Interior as contributing to the historical significance of a registered historic district or a district preliminarily determined by the Secretary to qualify as a registered historic district;
  - c. Individually listed on a state inventory of historic places in states with historic preservation programs which have been approved by the Secretary of the Interior; or
  - d. Individually listed on a local inventory of historic places in communities with historic preservation programs that have been certified either:
    - (i) by an approved state program as determined by the Secretary of the Interior,
    - (ii) directly by the Secretary of the Interior in states without approved programs.
16. "Lowest Floor" means the lowest flood of the lowest enclosed area (including basement). An unfinished or flood resistant enclosure, usable solely for parking of vehicles, building access or storage in an area other than a basement area is not considered a building's lowest floor; provided that such an enclosure is not built so as to render the structure in violation of the applicable non-elevation design requirements of this ordinance.
16. "Manufactured Home" means a structure, transportable in one or more sections, which is built on a permanent chassis and is designed for use with or without a permanent foundation when connected to the required utilities. For Floodplain management purposes the term "manufactured home" includes park trailers, travel trailers and other similar vehicles placed on site for greater than 180 consecutive days. This includes manufactured homes located in a manufactured home park or subdivision.
17. "Manufactured Home Park or Subdivision" means a parcel (or contiguous parcels) of land divided into two or more manufactured home lots for rent or sale.
18. "Mean sea Level" means the National Geodetic Vertical Datum (NGVD) of 1929, North American Vertical Datum (NAVD) of 1988, or other datum, to which base flood elevations shown on a community's Flood Insurance Rate Map are referenced.
19. "New construction" means, for the purposes of determining insurance rates, structures for which the "start of construction" commenced on or after the effective date of an initial FIRM or after

December 31, 1974, whichever is later, and includes any subsequent improvements to such structures. For floodplain management purposes, new construction means structures for which the start of construction commenced on or after the effective date of a floodplain management regulation adopted by a community and includes any subsequent improvements to such structures.

21. "Recreational Vehicle is defined as:
- a. built on a single chassis
  - b. 400 square feet or less when measured at the largest horizontal projection
  - c. designed to be self-propelled or permanently towable by a light duty truck; and
  - d. designed primarily not for use as a permanent dwelling but as temporary living quarters for recreational, camping, travel or seasonal use.
22. "Regulatory floodway" means the channel of a river or other watercourse and the adjacent land areas that must be reserved in order to discharge the base flood without cumulatively increasing the water surface elevation more than a designated height.
23. "Special flood hazard area" see "Area of Special Flood Hazard"
24. "Structure" means for floodplain management purposes, a walled and roofed building, including a gas or liquid storage tank that is principally above ground, as well as a manufactured home.
25. "Start of Construction" includes substantial improvements, and means the date the building permit was issued, provided the actual start of construction, repair reconstruction, placement or other improvement was within 180 days of the permit date. The actual start means either the first placement of permanent construction of a structure on site, such as the pouring of slab or footings, the installation of piles, the construction of columns, or any work beyond the stage of excavation; or the placement of a manufactured home on a foundation. Permanent construction does not include land preparation, such as clearing, grading or filling; nor does it include the installation of streets and/or walkways; nor does it include excavation for a basement, footings, piers, or foundations or the erection of temporary forms; nor does it include the installation on the property of accessory buildings, such as garages or sheds not occupied as dwelling units or part of the main structure.
26. "Substantial damage" means damage of any origin sustained by a structure whereby the cost of restoring the structure to its before damaged condition would equal or exceed 50 percent of the market value of the structure before the damage occurred.
27. "Substantial Improvement" means 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. This term includes structures which have incurred "substantial damage," regardless of the actual repair work performed. The term does not, however, include either:
- a. Any project for improvement of a structure to correct existing violations of state or local health, sanitary, or safety code specifications which have been identified by the local code

enforcement official and which are the minimum necessary to assure safe living conditions;  
or

b. Any alteration of a “historic structure,” provided that the alteration will not preclude the structure’s continued designation as a “historic structure.”

28. “Violation” means the failure of a structure or other development to be fully compliant with the community’s floodplain management regulations. A structure or other development without the elevation certificate, other certifications, or other evidence of compliance required in 44CFT 60.3(b)(5), (c)(4),(c)(10),(d)(3),(e)(2),(e)(4) or (e)(5) is presumed to be in violation until such time as that documentation is provided.

29. “Water surface elevation” means the height, in relation to the National Geodetic Vertical Datum (NGVD) of 1929, North American Vertical Datum (NAVD) of 1988, or other datum, where specified, of floods of various magnitudes and frequencies in the floodplains.

THIS UPDATED ORDINANCE SHALL TAKE EFFECT UPON ADOPTION AND REPLACE ANY PREVIOUSLY ADOPTED ORDINANCE.

NOTE: This ordinance was originally adopted as Article 19 of the 2007 Alexandria Town Meeting held on March 15, 2007. ADDENDUM TO ALEXANDRIA FLOODPLAIN MANAGEMENT ORDINANCE PASSED AT THE ANNUAL TOWN MEETING ON MARCH 15, 2007.

NOTE: This ordinance adopted as Article 17 of the 2023 Alexandria Town Meeting held on March 14, 2023.

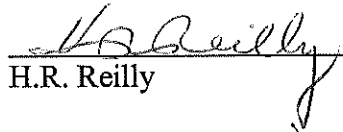
Pursuant to RSA 674:57, by resolution of the Alexandria Board of Selectmen, all lands designated as special flood hazard area by the Federal Emergency Management Agency




ADDENDUM TO ALEXANDRIA FLOODPLAIN MANAGEMENT ORDINANCE  
PASSED AT THE ANNUAL TOWN MEETIN ON MARCH 13, 2007.

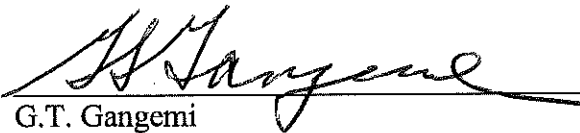
Pursuant to RSA 674:57, by resolution of the Alexandria Board of Selectmen, all lands designated as special flood hazard area by the Federal Emergency Management Agency (FEMA) in its "Flood Insurance Study for the County of Grafton, NH" dated February 20, 2008, together with the associated Flood Insurance Rate Maps dated February 20, 2008, are declared to be a part of the Alexandria Floodplain Management Ordinance and are hereby incorporated by reference.


Voted in the affirmative on Thursday, September 13, 2007 by:

  
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H.R. Reilly

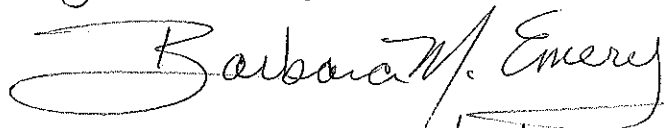
  
\_\_\_\_\_  
C.J. Williams

Alexandria Board of Selectmen

  
\_\_\_\_\_  
G.T. Gangemi

Witness to all Signatures:   
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*I certify true copy attest*

  
\_\_\_\_\_  
Town Clerk