

TOWN OF CABOT
FLOOD HAZARD REGULATIONS

I. Statutory Authorization and Effect 1
II. Statement of Purpose 1
III. Other Provisions 1
IV. Lands to Which these Regulations Apply 2
V. Summary Table: Development Review in Hazard Areas 3
VI. Development Review in Hazard Areas 4
VII. Development Standards 6
VIII. Administration 11
IX Certificate of Occupancy 12
X. Enforcement and Penalties 12
XI. Definitions 13

I. Statutory Authorization and Effect

In accordance with 10 V.S.A. Chapter 32, and 24 V.S.A. Chapter 117 §4424, §4411 §4414, and 24 VSA Chapter 59, there is hereby established a bylaw for areas at risk of flood damage in the Town of Cabot, Vermont. Except as additionally described below, all administrative procedures follow municipal procedures under 24 VSA Chapter 117.

II. Statement of Purpose

It is the purpose of this bylaw to:

- A. Implement the goals, policies, and recommendations in the municipal plan;
- B. Avoid and minimize the loss of life and property, the disruption of commerce, the impairment of the tax base, and the extraordinary public expenditures and demands on public services that result from flooding related inundation and erosion;
- C. Ensure that the selection, design, creation, and use of development in hazard areas is reasonably safe and accomplished in a manner that is consistent with public wellbeing, does not impair fluvial geomorphic equilibrium, flood plain services, and ensures that cumulative development in the hazard zone does not adversely affect others;
- D. Manage all flood hazard areas designated pursuant to 10 V.S.A. Chapter 32 § 753; the municipal hazard mitigation plan; and make the Town of Cabot, its citizens, and businesses eligible for federal flood insurance, federal disaster recovery funds, and hazard mitigation funds as may be available.

III. Other Provisions

A. Precedence of Bylaw

The provisions of these flood hazard bylaws shall not in any way impair or remove the necessity of compliance with any other local, state, or federal laws or regulations. Where this flood hazard regulation imposes a greater restriction the provisions here shall take precedence.

B. Validity and Severability

If any portion of this bylaw is held unconstitutional or invalid by a competent court, the remainder of this bylaw shall not be affected.

C. Warning of Disclaimer of Liability

This bylaw does not imply that land outside of the areas covered by this bylaw will be free from flood or erosion damages. This regulation shall not create liability on the part of the Town of Cabot, or any municipal official or employee thereof, for any flood or erosion damages that result from reliance on this regulation, or any administrative decision lawfully made hereunder.

IV. Lands to Which these Regulations Apply

A. Regulated Flood Hazard Areas

These regulations shall apply to the River Corridors and Special Flood Hazard Areas (hereafter called “hazard areas”) in the Town of Cabot, Vermont as described below. These hazard areas overlay any other existing zoning districts and the regulations herein are the minimum standards that must be met before meeting the additional standards applicable in the underlying district. These hazard areas include:

1. The River Corridors as published by the Vermont Agency of Natural Resources including the Statewide River Corridors and refinements to that data based on field-based assessments which are hereby adopted by reference. Where River Corridors are not mapped, the standards in VII C shall apply to the area measured as fifty (50) feet from the top of the stream bank or slope.
2. The Special Flood Hazard Area in and on the most current flood insurance studies and maps published by the Department of Homeland Security, Federal Emergency Management Agency, National Flood Insurance Program, as provided by the Secretary of the Agency of Natural Resources pursuant to 10 V.S.A. Chapter 32 § 753, which are hereby adopted by reference and declared to be part of these regulations.

B. Base Flood Elevations and Floodway Limits in Special Flood Hazard Areas

Where available, base flood elevations and floodway limits provided by the National Flood Insurance Program and in the Flood Insurance Study and accompanying maps shall be used to administer and enforce these regulations. In Special Flood Hazard Areas where base flood elevations and/or floodway limits *have not* been provided by the National Flood Insurance Program in the Flood Insurance Study and accompanying maps, it is the applicant’s responsibility to develop the necessary data. Where available, the applicant shall use data provided by FEMA, or State, or Federal agencies.

C. Interpretation

The information presented on any maps, or contained in any studies, adopted by reference, is presumed accurate.

1. If uncertainty exists with respect to the boundaries of the Special Flood Hazard Area or the floodway, the location of the boundary shall be determined by the Zoning Administrator (ZA). If the applicant disagrees with the determination made by the ZA, a Letter of Map Amendment from FEMA shall constitute proof.
2. If uncertainty exists with respect to the boundaries of the River Corridor, the location of the boundary shall be determined by the ZA. If the applicant disagrees with the determination made by the ZA, a letter of determination from the Vermont Agency of Natural Resources shall constitute proof.

V. Summary Table: Development Review in Hazard Areas

The hazard areas are not appropriate sites for development that obstructs the ability of streams to establish and maintain fluvial geomorphic equilibrium. When existing structures in the Special Flood Hazard Area are substantially damaged or improved they must be adapted to reduce future damage from flooding.

#	Activity	Hazard Zone		
		Special Flood Hazard Area	Floodway	River Corridors
	P Permitted C Conditional Use Review X Prohibited A Exempted			
1	New Structures	C	X	C
2	Storage	X	X	X
3	Improvements to Existing Structures	P, C	C	P
4	Small Accessory Structures	P	X	P
5	At Grade Parking	P	C	P
6	Replacement water supply or septic systems	P	C	P
8	Fill as needed to elevate existing structures	C	C	P
9	Fill	C	X	X
12	Grading	C	C	A
13	Road maintenance	A	A	A
14	Road improvements	C	C	P
15	Bridges and culverts	P	C	P
16	Channel management	P	C	P
17	Recreational vehicles (registered)	A	A	A
18	Open space, recreation	A	A	A
19	Forestry	A	A	A
20	Agriculture	A	A	A

VI. Development Review in Hazard Areas

A. Permit

A permit is required from the Administrative Officer for all development in all areas defined in Section IV as indicated below. Development that requires conditional use approval, non-conforming use approval, or a variance from the Development Review Board (DRB) under these flood hazard regulations, must have such approvals prior to the issuance of a permit by the ZA. Any development subject to municipal jurisdiction in the designated hazard areas shall meet the criteria in Section VI and VII. Any permit issued will require that all other necessary permits from State or Federal Agencies have been received before work may begin.

B. Permitted Development

For the purposes of review under these regulations, the following development activities in the River Corridor and/or Special Flood Hazard area where outside of the floodway, and meeting the Development Standards in Section VII, require only an administrative permit from the ZA:

1. Non-substantial improvements and repairs costing more than the equivalent of \$500 in time and materials for the year;
2. New or replacement storage tanks for existing structures;
3. Accessory structures, poles and fences that do not obstruct flood flows;
4. Development related to on-site septic, water supply systems or utilities;
5. Public utilities;
6. At-grade parking for existing buildings; and,
7. Channel management activities, public projects, or replacement bridges and culverts, which are functionally dependent on stream access or stream crossing and have an ANR Stream Alteration Permit;

C. Prohibited Development in Special Flood Hazard Area and River Corridors

1. New residential or non-residential structures (including the placement of manufactured homes) outside of the **Town of Cabot**;
2. Storage or junk yards;
3. New fill except as necessary to elevate structures above the base flood elevation;
4. Accessory structures in the floodway;
5. Critical facilities are prohibited in all hazard areas including the 0.2% annual chance hazard area;
6. New encroachments within the regulatory floodway, except for floodplain restoration projects; channel management activities; health and safety measures; public utilities; and minor improvements to existing structures or relating to bridges, culverts, roads; and,
7. All development not exempted, permitted, or conditionally permitted.

D. Conditional Use Review

Conditional use review and approval by the DRB, is required prior to the issuance of a permit by the ZA for the following proposed development:

1. New residential or non-residential structures (including the placement of manufactured homes) in the Town of Cabot,
2. Substantial improvement, replacement, elevation, relocation, or flood proofing of existing structures;
3. Any increase in footprint to existing structures in the floodway;
4. Grading, excavation; or the creation of a pond;
5. Improvements to existing roads in the special flood hazard area; and,
6. New development in the floodway which is functionally dependent on stream access or stream crossing (floodplain restoration projects; channel management activities; health and safety measures; public utilities; additions to existing structures, or relating to new bridges, culverts, roads, or public projects).

E. Exempted Activities

The following are exempt from regulation under this bylaw:

1. The removal of a building or other structure in whole or in part; (Please note that repair or removal of a building may affect insurance or grant eligibility)
2. Emergency repairs and improvements costing not more than the equivalent of \$500 in time and materials for the year;
3. Maintenance of existing roads and storm water drainage;
4. Recreational vehicles (with current registration);
5. Silvicultural (forestry) activities conducted in accordance with the Vermont Department of Forests and Parks Acceptable Management Practices; and,
6. Agricultural activities conducted in accordance with the Vermont Department of Agriculture's Required Agricultural Practices (RAP). Prior to the construction of farm structures the farmer must notify the ZA in writing of the proposed activity. The notice must contain a sketch of the proposed structure including setbacks.

F. Variances

Variances may be granted in writing by the DRB only in accordance with all the criteria in 24 V.S.A. § 4469, and 44 CFR Section 60.6, after a public hearing noticed as described in Section VIII.

1. A variance for development within the River Corridors may be allowed if, based on a review by VT ANR, it is determined that the proposed development will not obstruct the establishment and maintenance of fluvial geomorphic equilibrium for the watercourse.
2. Any variance issued in the Special Flood Hazard Area will not increase flood heights or velocities, and will inform the applicant in writing over the signature of a community official that the issuance of a variance to construct a structure below the base flood elevation increases risk to life and property and will result in increased flood insurance premiums up to amounts as high as \$25 for \$100 of coverage. Such notification shall be maintained with a record of all variance actions.

G. Nonconforming Structures and Uses

The DRB may, after public notice and hearing, approve the repair, relocation, replacement, or enlargement of a nonconforming structure within a hazard area provided that:

1. The proposed development is in compliance with all the Development Standards in Section VII of this bylaw;
2. A nonconforming structure that is substantially damaged or destroyed may be reconstructed only in circumstances when the structure cannot be relocated to a less hazardous location on the parcel. The lowest floor of the reconstructed structure must be rebuilt to one foot or more above the base flood elevation, and the structure must otherwise comply with all requirements of the National Flood Insurance Program;
3. Nonconforming structures or uses shall be considered abandoned where such structures or uses are discontinued for more than 12 months; and
4. An individual manufactured home lot in an existing manufactured home park that is vacated shall not be considered a discontinuance or abandonment of nonconformity. Replacement manufactured homes must be placed so as to meet the development standards in this bylaw.

VII. Development Standards – The criteria below are the minimum standards for development in the flood hazard areas. Where more than one zone or area is involved, the most restrictive standard shall take precedence.

A. Special Flood Hazard Area

1. *All development* shall be:
 - a. Reasonably safe from flooding;
 - b. Designed, operated, maintained, modified, and adequately anchored to prevent flotation, collapse, release, or lateral movement of the structure;
 - c. Constructed with materials resistant to flood damage;
 - d. Constructed by methods and practices that minimize flood damage;
 - e. 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;

- f. Adequately drained to reduce exposure to flood hazards;
 - g. Located so as to minimize conflict with changes in channel location over time and the need to intervene with such changes; and,
 - h. Required to locate any fuel storage tanks (as needed to serve an existing building in the Special Flood Hazard Zone) a minimum of one foot above the base flood elevation and be securely anchored to prevent flotation; or storage tanks may be placed underground, if securely anchored as certified by a qualified professional.
2. In Zones AE, AH, and A1 – A30 *where base flood elevations and/or floodway limits have not been determined*, development shall not be permitted unless it is demonstrated that the cumulative effect of the proposed development, when combined with all other existing and anticipated encroachment, will not increase the base flood elevation more than 1.00 foot at any point within the community. The demonstration must be supported by technical data that conforms to standard hydraulic engineering principles and certified by a licensed professional engineer.
 3. *New, substantially improved or replacement primary structures in the special flood hazard area* must not increase base flood elevations or flood velocities. Such development shall not be permitted unless it is demonstrated that the cumulative effect of the proposed development, when combined with all other existing and anticipated encroachment, will not increase the base flood elevation more than 0.1 foot at any point within the community. The demonstration must be supported by technical data that conforms to standard hydraulic engineering principles and certified by a licensed professional engineer; or,
 - a. the proposal provides compensatory storage for floodwater (in the same reach and at elevations up to one foot above the base flood elevation) to offset the impacts of the proposal. A volumetric analysis and supporting data must be provided by the applicant and certified by a registered professional engineer; or,
 - b. The volumetric analysis will be waived for replacement or relocated primary structures where the proposal indicates no increase in the structure's footprint; or for new structures proposing a lowest floor elevation of at least two feet above the base flood elevation, an open foundation design, and no new fill.
 4. *New, substantially improved, rebuilt or relocated structures* in Zones A, A1-30, AE, and AH shall be located such that the lowest floor is at least one foot above base flood elevation, this must be documented, in as-built condition, with a FEMA Elevation Certificate;
 5. *New or substantially-improved non-residential structures* shall:
 - a. Meet the standards in VII A 4; or,
 - b. Have the lowest floor, including basement, together with attendant utility and sanitary facilities be designed so that two feet above the base flood elevation the structure is

watertight with walls substantially impermeable to the passage of water and with structural components having the capability of resisting hydrostatic and hydrodynamic loads and effects of buoyancy; A permit for flood proofing shall not be issued until a licensed professional engineer or architect has reviewed the structural design, specifications and plans, and has certified that the design and proposed methods of construction are in accordance with accepted standards of practice for meeting the provisions of this subsection.

6. *Fully enclosed areas below grade* on all sides (including below grade crawlspaces and basements) are prohibited.
7. *Fully enclosed areas that are above grade*, below the lowest floor, below BFE and subject to flooding, shall
 - a. Be solely used for parking of vehicles, storage, or building access, and such a condition shall clearly be stated on any permits; and,
 - b. Be designed to automatically equalize hydrostatic flood forces on exterior walls by allowing for the entry and exit of floodwaters. Such designs must be certified by a licensed professional engineer or architect, or meet or exceed the following minimum criteria: A minimum of two openings on two walls 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, valves, or other coverings or devices provided that they permit the automatic entry and exit of floodwaters.
7. *Recreational vehicles* must be registered and ready for highway use;
8. A *small accessory* structure of 500 square feet or less that represents a minimal investment need not be elevated to the base flood elevation in this area, provided the structure is placed on the building site so as to offer the minimum resistance to the flow of floodwaters and shall meet the criteria in VII A 6 (above).
9. *Water supply systems* shall be designed to minimize or eliminate infiltration of flood waters into the systems.
10. *Sanitary sewage systems* shall be designed to minimize or eliminate infiltration of flood waters into the systems and discharges from the systems into flood waters.
11. *On-site waste disposal systems* shall be located to avoid impairment to them or contamination from them during flooding.
12. *The flood carrying and sediment transport capacity* within the altered or relocated portion of any watercourse shall be maintained, and any alteration or relocation shall not result in any decrease of stream stability;

13. *Bridges and culverts*, which by their nature must be placed in or over the stream, must have a stream alteration permit from the Agency of Natural Resources where applicable.
14. *Subdivisions and Planned Unit Developments must be accessible by dry land* access outside the special flood hazard area.
15. *Existing buildings, including manufactured homes, to be substantially improved in Zone AO* shall have the lowest floor, including basement, elevated above the highest adjacent grade, at least as high as the depth number specified on the community's FIRM, or at least two feet if no depth number is specified.
16. Minor above-ground improvements outside of the floodway, such as poles or fences that minimally displace or divert floodwaters, do not require compensatory storage.

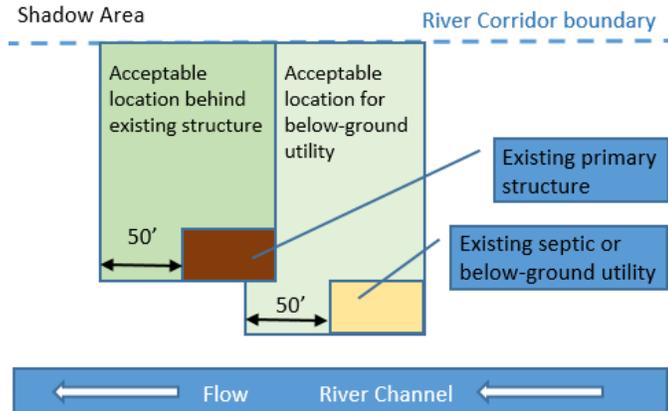
B. Floodway Areas

1. New encroachments within the regulatory floodway, except for minor improvements to existing structures or relating to bridges, culverts, roads, stabilization projects, access to water, public utilities or health and safety measures, are prohibited.
2. Encroachments or development above grade and less than one foot above the base flood elevation, are prohibited unless hydrologic and hydraulic analyses are performed in accordance with standard engineering practice, by a licensed professional engineer, certifying that the proposed development will:
 - a) Not result in any increase in flood levels (0.00 feet) during the occurrence of the base flood;
 - b) Not increase flood velocities; and
 - c) Not increase flood or erosion risk to surrounding properties, facilities, or structures.
3. Public utilities may be placed underground, and the analyses may be waived, where a licensed professional engineer certifies that there will be no change in grade and the utilities will be adequately protected from scour.
4. For any proposed encroachment within the regulatory floodway where hydrologic and hydraulic analyses are required, the applicant should provide a FEMA Conditional Letter of Map Revision (CLOMR) as proof to demonstrate that the proposed activity, if completed as proposed, will not result in any increase in flood levels (0.00') during the occurrence of the base flood.

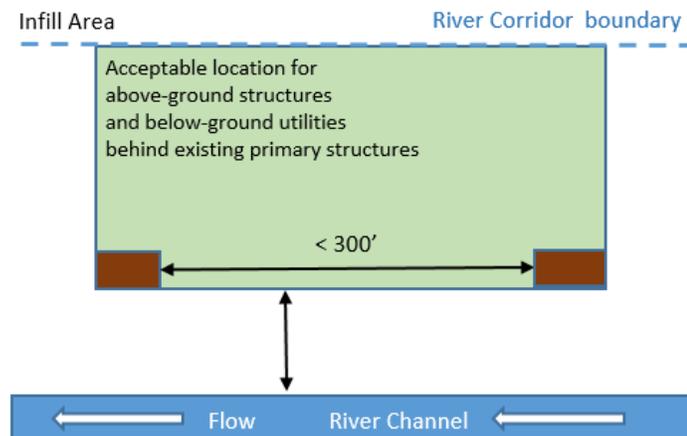
C. River Corridors

1. New structures, additions, access, parking or fill (as needed to comply with elevation requirements in the Special Flood Hazard Area) can be placed:

- a. in the shadow area directly behind and further from the channel than the existing structure, or within 50 feet to the downstream side and no closer to the top of bank; below-ground utilities may be placed within the same shadow dimensions of an existing below-ground system; or,



- b. within the **Town of Cabot** infill area where located further away than the average of the adjacent existing primary structures, within a gap that is no more than 300 feet, or 50 feet from top of bank, whichever is greater.



- 2. Development shall not increase the susceptibility of that or other properties to fluvial erosion damage;
- 3. Development shall not increase the potential of materials being swept onto other lands or into the stream and causing damage to other properties from fluvial erosion;
- 4. Development shall not cause an undue burden on public services and facilities including roads, bridges, culverts, and emergency service providers during and after fluvial erosion events.
- 5. Bridge, culvert and channel management projects are allowed as authorized by a Stream Alteration Permit from the Agency of Natural Resources. Floodway standards may apply separately.

VIII. Administration

A. Application Submission Requirements

Applications for development shall include:

1. Where applicable, a site plan that depicts the proposed development, all water bodies, special flood hazard areas, floodways, river corridors, the shortest horizontal distance from the proposed development to the top of bank of any stream, any existing and proposed drainage, any proposed fill, and pre and post development grades, and the elevation of the proposed lowest floor, as referenced to the same vertical datum as the elevation on the current Flood Insurance Rate Maps;
2. A Vermont Agency of Natural Resources Project Review Sheet for the proposal. The Project Review Sheet shall identify all State and Federal agencies from which permit approval is required for the proposal, and shall be filed as a required attachment to the municipal permit application. The identified permits, or letters indicating that such permits are not required, shall be submitted to the ZA and attached to the permit before work can begin;

B. Referrals

1. Upon receipt of a complete application for new construction, a substantial improvement or development in the floodway, the ZA shall submit a copy of the application and supporting information to the State National Flood Insurance Program (NFIP) Coordinator at the Vermont Agency of Natural Resources, in accordance with 24 V.S.A. § 4424. A permit may be issued only following receipt of comments from the Agency, or the expiration of 30 days from the date the application was mailed to the Agency, whichever is sooner.
2. If the applicant is seeking a permit for the alteration or relocation of a watercourse, copies of the application shall also be submitted to the adjacent communities, the Stream Alteration Engineer at the Vermont Agency of Natural Resources, and the Army Corps of Engineers. Copies of such notice shall be provided to the State National Flood Insurance Program (NFIP) Coordinator at the Vermont Agency of Natural Resources, Department of Environmental Conservation. A permit may be issued only following receipt of comments from the Vermont Agency of Natural Resources, or the expiration of 30 days from the date the application was mailed to the Vermont Agency of Natural Resources, whichever is sooner. The Board should consider comments from the NFIP Coordinator at ANR.

C. Decisions

The DRB shall consider comments from the NFIP Coordinator at ANR. The DRB may recess the proceedings on any application pending submission of additional information.

D. Records

The Administrative Officer shall properly file and maintain a record of:

1. All permits issued in areas covered by this bylaw;
2. An Elevation Certificate with the as-built elevation (consistent with the datum of the elevation on the current Flood Insurance Rate Maps for the community) of the lowest floor, including basement, of all new, substantially improved, or flood proofed buildings (not including accessory buildings) in the Special Flood Hazard Area;
3. All flood proofing and other certifications required under this regulation;
4. All determinations related to Substantial Damage and Substantial Improvement; and,
5. All decisions of the DRB (including variances and violations) with the supporting findings of fact, conclusions and conditions.

IX Certificate of Occupancy

In accordance with Chapter 117 §4449, it shall be unlawful to use or occupy, or permit the use or occupancy of any land or structure, or part thereof, created, erected, changed, converted, or wholly or partly altered or enlarged in its use or structure within Special Flood Hazard Area or River Corridors until a certificate of occupancy is issued therefore by the Administrative Officer, stating that the proposed use of the structure or land conforms to the requirements of these bylaws. A certificate of occupancy is not required for structures that were built in compliance with the bylaws at the time of construction and have not been improved since the adoption of this bylaw. Within 14 days of the receipt of the application for a certificate of occupancy, the ZA shall inspect the premises to ensure that all permits identified on the Project Review Sheet have been acquired and all that all work has been completed in conformance with the zoning permit and associated approvals. If the ZA fails to grant or deny the certificate of occupancy within 14 days of the submission of the application, the certificate shall be deemed issued on the 15th day. If a Certificate of Occupancy cannot be issued, notice will be sent to the owner and copied to the lender.

X. Enforcement and Penalties

A. This bylaw shall be enforced under the municipal zoning bylaw in accordance with 24 VSA Chapter 117 § 4451, § 4452 and 24 VSA Chapter 59 §1974a, A copy of the notice of violation will be mailed the State NFIP Coordinator.

B. If any appeals have been resolved, but the violation remains, the ZA shall submit a declaration to the Administrator of the National Flood Insurance Program requesting a denial of flood insurance to the property pursuant to Section 1316 of the National Flood Insurance Act of 1968, as amended.

C. Violations of the Accepted Agricultural Practices shall be enforced under this Section as violations of this bylaw. Such violations shall also be immediately reported to the Secretary of Agriculture for enforcement under 6 V.S.A. Section 4812.

XI. Definitions

“Accessory Structure” means a structure which is: 1) detached from and clearly incidental and subordinate to the principal use of or structure on a lot, 2) located on the same lot as the principal structure or use, and 3) clearly and customarily related to the principal structure or use. For residential uses these include, but may not be limited to garages, garden and tool sheds, and playhouses.

“Area of Special Flood Hazard” is synonymous in meaning with the phrase “special flood hazard area” for the purposes of these regulations.

“Bankfull Width” (or *Channel Width*) is the width of a stream channel when flowing at a bankfull discharge. The bankfull discharge is the flow of water that first overtops the natural banks. This flow occurs, on average, about once every 1 to 2 years.

“Base Flood” means the flood having a one percent chance of being equaled or exceeded in any given year (commonly referred to as the “100-year flood”).

“Base Flood Elevation” (BFE) is the elevation of the water surface elevation resulting from a flood that has a 1 percent chance of equaling or exceeding that level in any given year. On the Flood Insurance Rate Map the elevation is usually in feet, in relation to the National Geodetic Vertical Datum of 1929, the North American Vertical Datum of 1988, or other datum referenced in the Flood Insurance Study report, or the average depth of the base flood, usually in feet, above the ground surface.

“BFE” see Base Flood Elevation

“Buffer” means an undisturbed area consisting of trees, shrubs, ground cover plants, duff layer, and generally uneven ground surface that extends a specified distance horizontally across the surface of the land from the mean water level of an adjacent lake or from the top of the bank of an adjacent river or stream.

“Channel” means an area that contains continuously or periodic flowing water that is confined by banks and a streambed.

“Common plan of development” is where a structure will be refurbished over a period of time. Such work might be planned unit by unit.

“Critical facilities” - include police stations, fire and rescue facilities, hospitals, shelters, schools, nursing homes, water supply and waste treatment facilities, and other structures the

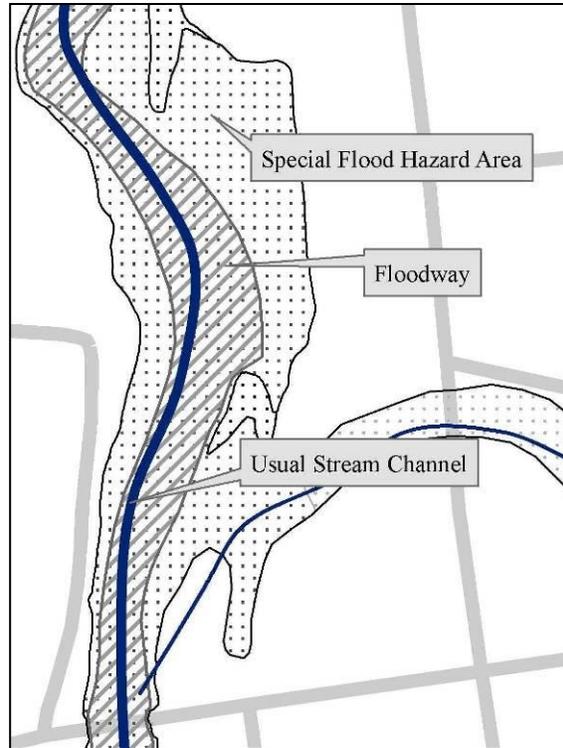
community identifies as essential to the health and welfare of the population and that are especially important following a disaster. For example, the type and location of a business may raise its status to a Critical Facility, such as a grocery or gas station

“Development” means any human-made change to improved or unimproved real estate, including but not limited to buildings or other structures, mining, dredging, filling, grading, paving, excavation or drilling operations, or storage of equipment or materials.

“Fill” means any placed material that changes the natural grade, increases the elevation, or diminishes the flood storage capacity at the site.

“FIRM” see Flood Insurance Rate Map

“Flood” means (a) a general and temporary condition of partial or complete inundation of normally dry land areas from: the overflow of inland or tidal waters; the unusual and rapid accumulation or runoff of surface waters from any source; and mudslides which are proximately caused by flooding and are akin to a river of liquid and flowing mud on the surfaces of normally dry land areas, as when earth is carried by a current of water and deposited along the path of the current. (b) The collapse or subsidence of land along the shore of a lake or other body of water as a result of erosion or undermining caused by waves or currents of water exceeding anticipated cyclical levels or suddenly caused by an unusually high water level in a natural body of water, accompanied by a severe storm, or by an unanticipated force of nature, such as flash flood or abnormal tidal surge, or by some similarly unusual and unforeseeable event which results in flooding.



“Flood Insurance Rate Map” (FIRM) means an official map of a community, on which the Federal Insurance Administrator has delineated both the special flood hazard areas and the risk premium zones applicable to the community. In some communities the hazard boundaries are available in paper, pdf, or Geographic Information System formats as a Digital Flood Insurance Rate Map (DFIRM).

“Flood Insurance Study” means an examination, evaluation and determination of flood hazards and, if appropriate, the corresponding water surface elevations or an examination, evaluation and determination of mudslide (i.e., mudflow) and /or flood related erosion hazards.

“Floodplain or flood-prone area” means any land area susceptible to being inundated by water from any source (see definition of “flood”).

“Flood proofing” 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 their contents.

“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 one foot at any point. Please note that Special Flood Hazard Areas and floodways may be shown on a separate map panels.

“Floodway, regulatory in Town of Cabot ” 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 one foot at any point.

“Fluvial erosion” is erosion caused by streams and rivers. Fluvial erosion can be catastrophic when a flood event causes a rapid adjustment of the stream channel size and/or location.

“Fluvial geomorphic equilibrium” conditions means the width, depth, meander pattern, and longitudinal slope of a stream channel that occurs when water flow, sediment, and woody debris are transported by the stream in such a manner that it generally maintains dimensions, pattern, and slope without unnaturally aggrading or degrading (down-cutting) the channel bed elevation. When a stream or river is in an equilibrium condition the stream power and erosive process is minimized reducing damage to public and private infrastructure, reducing nutrient loading, and allowing for bank stability and habitat diversity.

“Functionally dependent use” means a use which cannot perform its intended purpose unless it is located or carried out in close proximity to water.

“Historic structure” means any structure that is: (a) listed individually in the National Register of Historic Places (a listing maintained by the Department of the 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 or (ii) directly by the Secretary of the Interior in states without approved programs.

“Letter of Map Amendment (LOMA)” is a letter issued by the Federal Emergency Management Agency officially removing a structure or lot from the flood hazard zone based on information provided by a licensed engineer or surveyor. This is used where structures or lots are located above the base flood elevation and have been inadvertently included in the mapped special flood hazard area.

“Lowest floor” means the lowest floor of the lowest enclosed area, including basement, except 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 enclosure is not built so as to render the structure in violation of the applicable non-elevation design requirements of 44 CFR 60.3.

“Manufactured home (or mobile 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 attached to the required utilities. The term “manufactured home” does not include a “recreational vehicle”.

“New construction” for regulation under this bylaw, means structures for which the *start of construction* commenced on or after the effective date of the floodplain management regulation adopted by the community and includes any subsequent improvements to such structures.

“Nonconforming structure” means a structure or part of a structure that does not conform to the present bylaws but was in conformance with all applicable laws, ordinances, and regulations prior to the enactment of the present bylaws, including a structure improperly authorized as a result of error by the administrative officer. Structures that were in violation of the flood hazard regulations at the time of their creation, and remain so, remain violations and are not nonconforming structures.

“Nonconforming use” means use of land that does not conform to the present bylaws but did conform to all applicable laws, ordinances, and regulations prior to the enactment of the present bylaws, including a use improperly authorized as a result of error by the administrative officer.

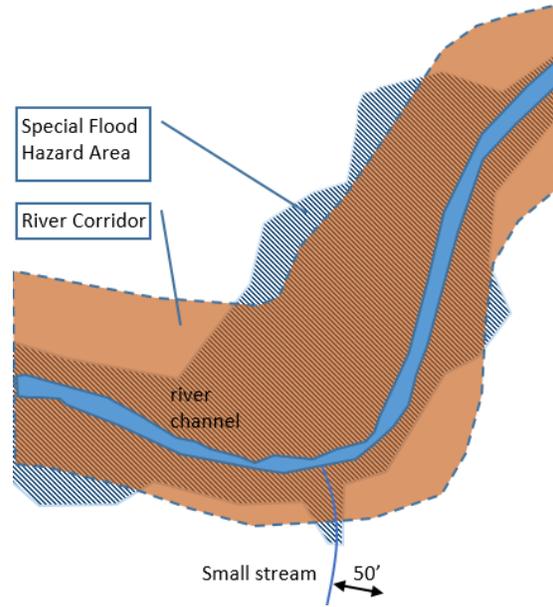
“Nonconformity” means a nonconforming use, structure, lot, or parcel.

“Non-residential” includes, but is not limited to: small business concerns, churches, schools, nursing homes, farm buildings (including grain bins and silos), pool houses, clubhouses, recreational buildings, government buildings, mercantile structures, agricultural and industrial structures, and warehouses.

“Recreational vehicle” means a vehicle which is: (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 a temporary living quarters for recreational, camping, travel, or seasonal use.

“River corridor” means the land area adjacent to a river that is required to accommodate the dimensions, slope, planform, and buffer of the naturally stable channel and that is necessary for the natural maintenance or natural restoration of a dynamic equilibrium condition, as that term is defined in 10 V.S.A. §1422, and for minimization of fluvial erosion hazards, as delineated by the Agency in accordance with the ANR River Corridor Protection Guide

“Special flood hazard area” is the floodplain within a community subject to a 1 percent or greater chance of flooding in any given year. For purposes of these regulations, the term “area of special flood hazard” is synonymous in meaning with the phrase “special flood hazard area”. This area is usually labeled Zone A, AE, AO, AH, or A1-30 in the most current flood insurance studies and on the maps published by the Federal Emergency Management Agency. Maps of this area are available for viewing in the municipal office or online from the FEMA Map Service Center: msc.fema.gov Base flood elevations have not been determined in Zone A where the flood risk has been mapped by approximate methods. Base flood elevations are shown at selected intervals on maps of Special Flood Hazard Areas that are determined by detailed methods. Please note, where floodways have been determined they may be shown on separate map panels from the Flood Insurance Rate Maps.



“Start of construction” for purposes of floodplain management, determines the effective map or bylaw that regulated development in the Special Flood Hazard Area. The “start of construction” includes substantial improvement, and means the date the building permit was issued provided the actual start of construction, repair, reconstruction, rehabilitation, addition 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 a 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 and filling; nor does it include the installation of streets and/or walkways; nor does it include excavation for a basement, footing, 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 not part of the main structure. For a substantial improvement, the actual start of construction means the first alteration of any wall, ceiling, floor, or other structural part of a building, regardless whether that alteration affects the external dimensions of the building.

“Stream” means a perennial watercourse, or portion, segment or reach of a watercourse that, in the absence of abnormal, extended or severe drought, continuously conveys surface water flow. Human caused interruptions of flow; i.e. flow fluctuations associated with hydroelectric facility operations, or water withdrawals, shall not influence the determination. A perennial stream does not include the standing waters of wetlands, lakes, and ponds. Streams are indicated on the Vermont Hydrography Dataset viewable on the Vermont Natural Resources Atlas.

“Structure” means, for regulatory purposes under this bylaw, a walled and roofed building, as well as a manufactured home, and any related built systems, including gas or liquid storage tanks.

“Substantial damage” means damage of any origin sustained by a structure whereby the cost of restoring the structure to its before-damaged conditions would equal or exceed 50 percent of the market value of the structure before the damage occurred.

“Substantial improvement” means any reconstruction, rehabilitation, addition, or other improvement of a structure after the date of adoption of this bylaw, the cost of which, over three years, or over a the period of a common plan of development, cumulatively 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 specification 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”.

“Top of Bank” means that vertical point along a stream bank where an abrupt change in slope is evident. For streams in wider valleys it is the point where the stream is generally able to overflow the banks and enter the floodplain. For steep and narrow valleys, it will generally be the same as the top of slope.

“Violation” means the failure of a structure or other development to be fully compliant with this bylaw. A structure or other development without the elevation certificate, other certifications, or other evidence of compliance required in 44 CFR 60.3 is presumed to be in violation until such time as that documentation is provided.