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REVIEWED BY

PREPARED BY

CITY ATTORNEYS OFFICE

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AN ORDINANCE TO AMEND CHAPTER 10, BUILDING AND BUILDING REGULATIONS OF THE CODE OF THE CITY OF ROCK HILL CONCERNING FLOOD DAMAGE PREVENTION

BE IT ORDAINED by the Governing Body of the City of Rock Hill, in Council assembled:

SECTION 1. That this Ordinance is being adopted in order to effect proper compliance with the provisions of the Home Rule Act of 1975, now South Carolina Code of Laws for 1976, Section 5-7-30, Section 5-7-260 and Section 2-48 and Section 2-96 of the Code of the City of Rock Hill.

SECTION 2. That this Ordinance was adopted by a positive majority vote and applicable public hearing requirements.

SECTION 3. That **Chapter 10, Building and Building Regulations, ARTICLE VII. Flood Damage Prevention, Division 1. Generally, Sec. 10-321. Statutory authority.** of the Code of the City of Rock Hill, be and the same is hereby amended by deleting the current language and inserting in lieu thereof the following:

See Exhibit "A" attached hereto

SECTION 4. That **Chapter 10, Building and Building Regulations ARTICLE VII. Flood Damage Prevention, DIVISION 2. Administration, Sec. 10-362. Development permit and certification requirements and Sec. 10-363. Duties and responsibilities of the building official** of the Code of the City of Rock Hill, be and the same is hereby

amended by deleting the current language and inserting in lieu thereof the following:

See Exhibit "A" attached hereto.

SECTION 5. That **Chapter 10, Buildings and Building Regulations, ARTICLE VII. Flood Damage Prevention, DIVISION 3. Provisions for Flood Hazard Reduction, Sec. 10-366. Specific standards, Sec. 10-367. Standards for streams with established base flood elevations but without floodways, Sec 10-369. Standards for areas of shallow flooding (AO Zones). and Sec. 10-370. Variance procedures** of the Code of the City of Rock Hill, be and the same is hereby amended by deleting the current language and inserting in lieu thereof the following:

See Exhibit "B" attached hereto.

SECTION 6. That all ordinances or parts of ordinances inconsistent with this Ordinance are hereby repealed to the extent of such inconsistency.

SECTION 7. That this Ordinance shall be and become finally binding, immediately after the same shall have received first and final readings, given in the manner required by law.

DONE AND RATIFIED in Council assembled on this the ____ day of
_____, 2012.

A. Douglas Echols, Jr., Mayor

John A. Black III, Mayor Pro Tempore

Susie B. Hinton, Councilmember

Kathy S. Pender, Councilmember

James C. Reno, Jr., Councilmember

Osbey Roddey, Councilmember

Kevin H. Sutton, Councilmember

ATTEST:

Anne P. Harty,
Municipal Clerk

Exhibit A

Sec. 10-321. Statutory authority.

The legislature of the State of South Carolina has in SC Code of Laws, Title 5 and Title 6, and amendments thereto, delegated the responsibility to local governmental units to adopt regulations designated to promote the public health, safety, and general welfare of its citizenry. Therefore, the City of Rock Hill, South Carolina does ordain as follows.

Sec. 10-362. Development permit and certification requirements.

(1) (a) A plot plan that shows the one percent floodplain contour or a statement that the entire parcel is within the floodplain must be provided by the development permit applicant when the parcel is within or appears to be within the floodplain as mapped by the Federal Emergency Management Agency or the floodplain identified pursuant to either the duties and responsibilities of the building official of subsection 10-363(11) or the standards for subdivision proposals and other development of subsection 10-366(12) and the standards for streams with established base flood elevations but without floodways of section 10-367. The plot plan must be prepared by or under the direct supervision of a registered land surveyor or professional engineer and certified by it. The plot plan must show the floodway, if any, as identified by the Federal Emergency Management Agency or the floodway identified pursuant to either the duties or responsibilities of the building official of subsection 10-363(11) or the standards for subdivision proposals and other development of subsection 10-366(12) and the standards for streams without established base flood elevations and/or floodways of section 10-367.

Sec. 10-363. Duties and responsibilities of the building official.

(2) *Requirements of federal and/or state permits.* Review proposed development to assure 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.

Exhibit B

Section 10-366. Specific standards.

(1) *Residential construction.* New construction **and** substantial improvement . . .

(2) *Nonresidential construction.* New construction **and** substantial improvement . . .

(4) *Elevated buildings.* New construction **and** substantial improvements . . .

(5)(c) Stream crossings for an purpose (i.e., timber harvesting operations), if temporary, shall be permitted in accordance with floodway requirements of subsection 10-366(5) and shall comply with all applicable flood hazard reduction provisions of section 10-366.

(7)(a)d. Subdivision or large-scale development proposals requiring the establishment of base flood elevations in accordance with subsection 10-366(11)(d).

(11) *Temporary development.* **Delete in its entirety**

(11) *Fill.* **(Change in numbering only)**

(12) *Standards for subdivision proposals and other development.*

(a) All subdivision proposals shall be consistent with the need to minimize flood damage and are subject to all applicable standards in these regulations;

(b) All subdivision proposals shall have public utilities and facilities such as sewer, gas, electrical, and water systems located and constructed to minimize flood damage; and

(c) All subdivision proposals shall have adequate drainage provided to reduce exposure to flood damage.

(Delete subsections (d), (e), and (f))

Sec. 10-367. Standards for streams without established base flood elevations and/or floodways.

Located within the areas of special flood hazard (zones A and X) established in section 10-325, are small streams where no base flood data has been provided or where no floodways have been identified. The following provisions apply within such areas:

2(a) In all areas of special flood hazard where base flood elevation data is not available, the applicant shall provide a hydrologic and hydraulic engineering analysis that generates base flood elevations for all subdivision proposals and other proposed developments containing at least 50 lots or 5 acres, whichever is less.

(b) If the areas of special flood hazard is identified as an area of open space and is deeded as such then a hydrologic and hydraulic engineering analysis that generates base flood elevations for the subdivision proposal would not be required.

(c) The applicant shall meet the requirement to submit technical data to FEMA in subsection 10-366(7) when a hydrologic and hydraulic analysis is completed that generates base flood elevations.

Sec. 10-369. Standards for areas of shallow flooding (AO Zones)

(2) All structures on slopes must have drainage paths around them to guide water away from the structures.

(3) All new construction . . .

Sec. 10-370. Variance procedures.

(d)(7) Major equipment, machinery, or other contents must be protected. Such protection may include protective watertight floodproofed areas within the building, the use of equipment hoists for readily elevating contents, permanently elevating contents on pedestals or shelves above the base flood elevation or determining that property owners can safely remove contents without risk to lives and that the contents will be located to a specified site out of the floodplain.

ARTICLE VII. - FLOOD DAMAGE PREVENTION

DIVISION 1. - GENERALLY
DIVISION 2. - ADMINISTRATION
DIVISION 3. - PROVISIONS FOR FLOOD HAZARD REDUCTION

DIVISION 1. - GENERALLY

Sec. 10-321. - Statutory authority.
Sec. 10-322. - Findings of fact.
Sec. 10-323. - Purpose of article.
Sec. 10-324. - Objectives of article.
Sec. 10-325. - Lands to which this article applies.
Sec. 10-326. - Development permit required.
Sec. 10-327. - Compliance.
Sec. 10-328. - Interpretation.
Sec. 10-329. - Partial invalidity and severability.
Sec. 10-330. - Warning and disclaimer of liability.
Sec. 10-331. - Penalties for violation.
Sec. 10-332. - Definitions.
Secs. 10-333—10-359. - Reserved.

Sec. 10-321. - Statutory authority.

The legislature of the State of South Carolina has in SC code of Laws, title 5 and title 6, and amendments thereto, delegated the responsibility to local governmental units to adopt regulations designed to promote the public health, safety, and general welfare of its citizenry. Therefore, the City of Rock Hill South Carolina does ordain as follows.

(Ord. No. 2008-47, § 3(Exh. A), 8-11-2008)

Sec. 10-322. - Findings of fact.

(a) The flood hazard areas of the city are subject to periodic inundation which results in loss of life and property, health and safety hazards, disruption of commerce and governmental services, extraordinary public expenditures for flood protection and relief, and impairment of the tax base, all of which adversely affect the public health, safety and general welfare.

(b) These floods are caused by the cumulative effect of obstructions in floodplains causing increases in flood heights and velocities, and by the occupancy in flood hazard areas by uses vulnerable to floods or hazardous to other lands which are inadequately elevated, floodproofed, or otherwise protected from flood damages.

(Ord. No. 2008-47, § 3(Exh. A), 8-11-2008)

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Deleted: The Legislature of the State of South Carolina has in S.C. Code of Laws, Title 5, Chapter, 23, and 25 (Articles 5 and 7) and Title 6, Chapter 7 and amendments thereto, delegated the responsibility to local governmental units to adopt regulations designed to promote the public health, safety and general welfare of its citizenry

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Sec. 10-323. - Purpose of article.

It is the purpose of this article to protect human life and health, minimize property damage, and encourage appropriate construction practices to minimize public and private losses due to flood conditions by requiring that uses vulnerable to floods, including facilities which serve such uses, be protected against flood damage at the time of initial construction. Uses of the floodplain which are dangerous to health, safety, and property due to water or erosion hazards, or which increase flood heights, velocities, or erosion are restricted or prohibited. These provisions attempt to control the alteration of natural floodplains, stream channels, and natural protective barriers which are involved in the accommodation of floodwaters, and control filling, grading, dredging and other development which may increase flood damage or erosion. Additionally, the ordinance prevents or regulates the construction of flood barriers which will unnaturally divert floodwaters or which may increase flood hazards to other lands.

(Ord. No. 2008-47, § 3(Exh. A), 8-11-2008)

Sec. 10-324. - Objectives of article.

It is the purpose of this article to protect human life and health, minimize property damage, and encourage appropriate construction practices to minimize public and private losses due to flood conditions by requiring that uses vulnerable to floods, including facilities which serve such uses, be protected against flood damage at the time of initial construction. Uses of the floodplain which are dangerous to health, safety, and property due to water or erosion hazards, or which increase flood heights, velocities, or erosion are restricted or prohibited. These provisions attempt to control the alteration of natural floodplains, stream channels, and natural protective barriers which are involved in the accommodation of floodwaters, and control filling, grading, dredging and other development which may increase flood damage or erosion.

Additionally, the article prevents or regulates the construction of flood barriers which will unnaturally divert floodwaters or which may increase flood hazards to other lands. The objectives of this article are to protect human life and health, to help maintain a stable tax base by providing for the sound use and development of floodprone areas in such a manner as to minimize flood blight areas, and to insure that potential home buyers are notified that property is in a flood area. The provisions of the article are intended to minimize damage to public facilities and utilities such as water and gas mains, electric, telephone, and sewer lines, streets and bridges located in the floodplain, and prolonged business interruptions. Also, an important floodplain management objective of this article is to minimize expenditure of public money for costly flood control projects and rescue and relief efforts associated with flooding. Floodplains are an important asset to the community. They perform vital natural functions such as temporary storage of floodwaters, moderation of peak flood flows, maintenance of water quality, groundwater recharge, prevention of erosion, habitat for diverse natural wildlife populations, recreational opportunities, and aesthetic quality. These functions are best served if floodplains are kept in their natural state. Wherever possible, the natural characteristics of floodplains and their associated wetlands and water bodies should be preserved and enhanced. Decisions to alter floodplains, especially floodways and stream channels, should be the result of careful planning processes that evaluate resource conditions and human needs.

(Ord. No. 2008-47, § 3(Exh. A), 8-11-2008)

Sec. 10-325. - Lands to which this article applies.

This article shall apply to all areas of special flood hazard within the jurisdiction of the City of Rock Hill

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as identified by the Federal Emergency Management Agency in its Flood Insurance Study, dated September 26, 2008, with accompanying maps and other supporting data that are hereby adopted by reference and declared to be a part of this article. Upon annexation, any special flood hazard areas identified by the Federal Emergency Management Agency in its Flood Insurance Study for the unincorporated areas of York County, with accompanying maps and other data are adopted by reference and are declared part of this article.

(Ord. No. 2008-47, § 3(Exh. A), 8-11-2008)

Sec. 10-326. - Development permit required.

A development permit shall be required in conformance with the provisions of this article prior to the commencement of any development activities.

(Ord. No. 2008-47, § 3(Exh. A), 8-11-2008)

Sec. 10-327. - Compliance.

No structure or land shall hereafter be located, extended, converted, or structurally altered without full compliance with the terms of this article and other applicable regulations.

(Ord. No. 2008-47, § 3(Exh. A), 8-11-2008)

Sec. 10-328. - Interpretation.

In the interpretation and application of this article all provisions shall be considered as minimum requirements, liberally construed in favor of the governing body, and deemed neither to limit nor repeal any other powers granted under state law. This article is not intended to repeal, abrogate, or impair any existing easements, covenants, or deed restrictions. However, where this article and another conflict or overlap, whichever imposes the more stringent restrictions shall prevail.

(Ord. No. 2008-47, § 3(Exh. A), 8-11-2008)

Sec. 10-329. - Partial invalidity and severability.

If any part of this article is declared invalid, the remainder of the article shall not be affected and shall remain in force.

(Ord. No. 2008-47, § 3(Exh. A), 8-11-2008)

Sec. 10-330. - Warning and disclaimer of liability.

The degree of flood protection required by this article is considered reasonable for regulatory purposes and is based on scientific and engineering consideration. Larger floods can and will occur on rare occasions. Flood heights may be increased by manmade or natural causes. This article shall not create liability on the part of the City of Rock Hill or by any officer or employee thereof for any flood damages that result from reliance on this article or any administrative decision lawfully made hereunder.

(Ord. No. 2008-47, § 3(Exh. A), 8-11-2008)

Sec. 10-331. - Penalties for violation.

Violation of the provisions of this article or failure to comply with any of its requirements, including

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violation of conditions and safeguards established in connection with any grants of variance or special exceptions, shall constitute a misdemeanor. Any person who violates this article or fails to comply with any of its requirements shall, upon conviction thereof, be fined not more than \$500.00 or imprisoned for not more than 30 days, or both. Each day the violation continues shall be a separate offense. Nothing herein contained shall prevent the City of Rock Hill from taking such other lawful action as is necessary to prevent or remedy any violation.

(Ord. No. 2008-47, § 3(Exh. A), 8-11-2008)

Sec. 10-332. - Definitions.

Unless specifically defined below, words or phrases used in this article shall be interpreted so as to give them the meaning they have in common usage and to give this ordinance its most reasonable application.

Accessory structure: Structures that are located on the same parcel of property as the principal structure and the use of which is incidental to the use of the principal structure. Garages, carports and storage sheds are common urban accessory structures.

Addition (to an existing building): An extension or increase in the floor area or height of a building or structure. Additions to existing buildings shall comply with the requirements of new construction regardless as to whether the addition is a substantial improvement or not. Where a firewall or load-bearing wall is provided between the addition and the existing building, the addition(s) shall be considered a separate building and must comply with the standards for new construction.

Agricultural structure: A structure used solely for agricultural purposes in which the use is exclusively in connection with the production, harvesting, storage, drying, or raising of agricultural commodities, including the raising of livestock. Agricultural structures are not exempt from the provisions of this article.

Appeal: A request for a review of the building official's interpretation of any provision of this article.

Area of shallow flooding: A designated AO or VO Zone on a community's Flood Insurance Rate Map (FIRM) with base flood depths of one to three feet where a clearly defined channel does not exist, where the path of flooding is unpredictable and indeterminate, and where velocity flow may be evident.

Area of special flood hazard: The land in the floodplain within a community subject to a one percent or greater chance of being equaled or exceeded in any given year.

Base flood: A flood having a one percent chance of being equaled or exceeded in any given year.

Basement: Any enclosed area of a building that is below grade on all sides.

Breakaway wall: A wall that is not part of the structural support of the building and is intended through its design and construction to collapse under specific lateral loading forces without causing damage to the elevated portion of the building or the supporting foundation system.

Building: Any structure built for support, shelter, or enclosure for any occupancy or storage.

Critical development: Development that is critical to the city's public health and safety, is essential to the orderly functioning of the city, such as the storage or production of highly volatile, toxic or water-reactive materials, or the housing of individuals who may be insufficiently mobile to avoid loss of loss of

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life or injury. Examples of critical development include jails, hospitals, schools, fire stations, nursing homes, wastewater treatment facilities, water plants, and oil/gas/propane storage facilities.

Development: Any manmade 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.

Elevated building: A nonbasement building built to have the lowest floor elevated above the ground level by means of fill, solid foundation perimeter walls, pilings, columns, piers, or shear walls parallel to the flow of water.

Executive Order 11988 (Floodplain Management): Issued by President Carter in 1977, this order requires that no federally assisted activities be conducted in or have the potential to affect identified special flood hazard areas, unless there is no practicable alternative.

Existing construction: For the purposes of determining rates, structures for which the start of construction commenced before the effective date of the FIRM, or before January, 1975, for FIRMs effective before that date.

Existing manufactured home park or manufactured home subdivision: A manufactured home park or subdivision for which the construction of facilities for servicing the lots on which the manufactured homes are to be affixed (including, at a minimum, the installation of utilities, the construction of streets, and either final site grading or the pouring of concrete pads) is completed before October 13, 1980.

Expansion to an existing manufactured home park or subdivision: The preparation of additional sites by the construction of facilities for servicing the lots on which the manufactured homes are to be affixed (including the installation of utilities, the construction of streets, and either final site grading or the pouring of concrete slabs).

Flood: A general and temporary condition of partial or complete inundation of normally dry land areas from the overflow of inland or tidal waters, or the unusual and rapid accumulation of runoff of surface waters from any source.

Flood Hazard Boundary Map (FHBM): An official map of a community, issued by the Federal Emergency Management Agency, where the boundaries of the areas of special flood hazard have been defined as Zone A.

Flood Insurance Rate Map (FIRM): An official map of a community, on which the Federal Emergency Management Agency has delineated both the areas of special flood hazard and the risk premium zones applicable to the community.

Flood Insurance Study: The official report provided by the Federal Emergency Management Agency. The report contains flood profiles, as well as the Flood Boundary Floodway Map and the water surface elevation of the base flood.

Flood-resistant material: Any building material capable of withstanding direct and prolonged contact (minimum 72 hours) with floodwaters without sustaining damage that requires more than low-cost cosmetic repair. Any material that is water soluble or is not resistant to alkali or acid in water, including normal adhesives for above grade use, is not flood-resistant. Pressure-treated lumber or naturally decay-resistant lumbers are acceptable flooring materials. Sheet-type flooring coverings that restrict evaporation from below and materials that are impervious, but dimensionally unstable are not

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acceptable. Materials that absorb or retain water excessively after submergence are not flood-resistant. Please refer to Technical Bulletin 2-93, Flood-Resistant Materials for Buildings Located in Special Flood Hazard Areas in Accordance with the National Flood Insurance Program, document number FIA-TB-2, dated 4/93 and available from the Federal Emergency Management Agency. Class 4 and 5 materials, referenced therein, are acceptable flood-resistant materials.

Floodway: 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.

Floor: The top surface of an enclosed area in a building (including basement) e.g., top of slab in concrete construction or top of wood flooring in wood frame construction. The term does not include the floor of a garage used solely for the purpose of parking vehicles.

Freeboard: A factor of safety usually expressed in feet above a flood level for the purposes of flood plain management. "Freeboard" tends to compensate for the many unknown factors that could contribute to flood heights greater than the height calculated for a selected size flood and floodways condition, such as wave action, bridge openings, and the hydrological effect of urbanization of the watershed. The city has a freeboard requirement of two feet above the one percent base flood elevation.

Functionally dependent facility: A facility which cannot be used for its intended purpose unless it is located or carried out in close proximity to water, such as a docking or port facility necessary for the loading and unloading of cargo or passengers, shipbuilding, ship repair, or seafood processing facilities. The term does not include long-term storage, manufacture, sales, or service facilities.

Highest adjacent grade: The highest natural elevation of the ground surface, prior to construction, next to the proposed walls of the structure.

Historic structure: Any structure that is:

- (a) Listed individually in the National Register of Historic Places (listing maintained by the U.S. Department of the Interior (DOI) 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;
- (d) Individually listed on a local inventory of historic places in communities with historic preservation programs that have been certified (1) by an approved state program as determined by the Secretary of Interior, or (2) directly by the Secretary of Interior in states without approved programs. Some structures or districts listed on the state or local inventories may not be "historic" as cited above, but have been included on the inventories because it was believed that the structures or districts have the potential for meeting the "historic" structure criteria of the DOI. In order for these structures to meet the NFIP historic structure criteria, it must be demonstrated and evidenced that the South Carolina Department of Archives and History has individually determined that the structure or district meets DOI historic structure criteria.

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Increased cost of compliance (ICC): Applies to all new and renewed flood insurance policies effective on and after June 1, 1997. The NFIP shall enable the purchase of insurance to cover the cost of compliance with land use and control measures established under Section 1361. It provides coverage for the payment of a claim to help pay for the cost to comply with state or community floodplain management laws or ordinances after a flood event in which a building has been declared substantially or repetitively damaged.

Limited storage: An area used for storage and intended to be limited to incidental items that can withstand exposure to the elements and have low flood damage potential. Such an area must be of flood-resistant or breakaway material, void of utilities except for essential lighting and cannot be temperature controlled. If the area is located below the base flood elevation in an A, AE and A1-A30 zone it must meet the requirements of subsection 10-365(4).

Lowest adjacent grade (LAG): The elevation of the lowest ground surface that touches any of the exterior walls of a building.

Lowest floor: The lowest floor of the lowest enclosed area. Any 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 the building's lowest floor provided that such an enclosure is not built so as to render the structure in violation of other provisions of this article.

Manufactured home: A structure, transportable in one or more sections, which is built on a permanent chassis and designed to be used with or without a permanent foundation when connected to the required utilities. The term "manufactured home" does not apply to "recreational vehicle".

Manufactured home park or subdivision: A parcel (or contiguous parcels) of land divided into two or more manufactured home lots for rent or sale.

Mean sea level: The average height of the sea for all stages of the tide. It is used as a reference for establishing various elevations within the floodplain. For purposes of this article, the term is synonymous with National Geodetic Vertical Datum (NGVD).

National Geodetic Vertical Datum (NGVD), as corrected in 1929: Elevation reference points set by National Geodetic Survey based on mean sea level.

North American Vertical Datum (NAVD): Datum point established at Pointe-au-Pere on the St. Lawrence River, Quebec Province, Canada, based on the mass or density of the earth. The datum listed as the reference datum on Flood Insurance Rate Maps should be used for elevation certificate and floodproofing certificate completion.

New construction: A structure for which the start of construction commenced after October 13, 1980. The term also includes any subsequent improvements to such structure.

New manufactured home park or subdivision: A manufactured home park or subdivision for which the construction of facilities for servicing the lots on which the manufactured homes are to be affixed (including at a minimum, the installation of utilities, the construction of streets, and either final site grading or the pouring of concrete slabs) is completed on or after October 13, 1980.

Recreational vehicle: A vehicle which is:

- (a) Built on a single chassis;

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- (b) Four hundred square feet or less in area 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.

Repetitive loss: A building covered by a contract for flood insurance that has incurred flood-related damages on two occasions during a ten-year period ending on the date of the event for which a second claim is made, in which the cost of repairing the flood damage, on the average, equaled or exceeded 25 percent of the market value of the building at the time of each such flood event.

Section 1316 of the National Flood Insurance Act of 1968: The act provides that no new flood insurance shall be provided for any property found by the Federal Emergency Management Agency to have been declared by a state or local authority to be in violation of state or local ordinances.

Start of Construction: For other than new construction or substantial improvements under the Coastal Barrier Resources Act (P.L. 97-348), includes substantial improvement, and means the date the building permit was issued, provided the actual start of construction, repair, reconstruction, rehabilitation, addition, or improvement was within 180 days of the permit date. The actual start means the first placement of permanent construction of a structure (including a manufactured home) on a site, such as the pouring of slabs or footings, installation of piles, 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 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 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 the building, whether or not that alteration affects the external dimensions of the building.

Structure: A walled and roofed building, a manufactured home, including a gas or liquid storage tank, or other manmade facility or infrastructure that is principally above ground.

Substantial damage: 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, as determined by the York County Tax Assessor's Office records, before the damage occurred. Such repairs may be undertaken successively and their costs counted cumulatively. Please refer to the definition of "substantial improvement".

Substantial improvement: Any repair, 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 as determined by the York County Tax Assessor's Office records, before the start of construction of the improvement. This term includes structures that have incurred substantial damage, regardless of the actual repair work performed. The term does not, however, include either:

- (a) Any project of improvement to a structure to correct existing violations of state or local health, sanitary, or safety code specifications which have been identified by the building official and which are the minimum necessary to assure safe living conditions (does not include Americans with Disabilities Act compliance standards); or

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(b) Any alteration of a historic structure, provided that the alteration will not preclude the structure's continued designation as a historic structure.

(c) Permits shall be cumulative for a period of five years. If the improvement project is conducted in phases, the total of all costs associated with each phase, beginning with issuance of the first permit, shall be utilized to determine whether "substantial improvement" will occur.

Substantially improved existing manufactured home park or subdivision: Where the repair, reconstruction, rehabilitation or improvement of the streets, utilities and pads equals or exceeds 50 percent of the value of the streets, utilities and pads before the repair, reconstruction, or improvement commenced.

Variance: A grant of relief from a term or terms of this article.

Violation: The failure of a structure or other development to be fully compliant with these regulations.

(Ord. No. 2008-47, § 3(Exh. A), 8-11-2008)

Secs. 10-333—10-359. - Reserved.

DIVISION 2. - ADMINISTRATION

Sec. 10-360. - Designation of building official as administrator.

Sec. 10-361. - Designation of party responsible for biennial report.

Sec. 10-362. - Development permit and certification requirements.

Sec. 10-363. - Duties and responsibilities of the building official.

Sec. 10-364. - Administrative procedures.

Sec. 10-360. - Designation of building official as administrator.

The building official is hereby appointed to administer and implement the provisions of this article.

(Ord. No. 2008-47, § 3(Exh. A), 8-11-2008)

Sec. 10-361. - Designation of party responsible for biennial report.

The building official is hereby designated as the party responsible to submit the biennial report to FEMA.

(Ord. No. 2008-47, § 3(Exh. A), 8-11-2008)

Sec. 10-362. - Development permit and certification requirements.

(1) *Development permit.* Application for a development permit shall be made to the building official on forms furnished by him or her prior to any development activities and may include, but not be limited to, plans in duplicate drawn to scale showing: the nature, location, dimensions, and elevations of the area in question; existing or proposed structures; and the location of fill materials, storage areas, and drainage facilities. Specifically, the following information is required:

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(a) A plot plan that shows the one percent floodplain contour or a statement that the entire parcel is within the floodplain must be provided by the development permit applicant when the parcel is within or appears to be within the floodplain as mapped by the Federal Emergency Management Agency or the floodplain identified pursuant to either the duties and responsibilities of the building official of subsection 10-363(11) or the standards for subdivision proposals and Other development of subsection 10-366(12) and the standards for streams with established base flood elevations but without floodways of section 10-367. The plot plan must be prepared by or under the direct supervision of a registered land surveyor or professional engineer and certified by it. The plot plan must show the floodway, if any, as identified by the Federal Emergency Management Agency or the floodway identified pursuant to either the duties or responsibilities of the building official subsection 10-363(11) or the standards for subdivision proposals and other development of subsection 10-366(13) and the standards for streams without established base flood elevations and/or floodways of section 10-367

(b) Where base flood elevation data is provided as set forth in section 10-325 or the duties and responsibilities of the building official of subsection 10-363(11), the application for a development permit within the flood hazard area shall show:

1. The elevation (in relation to mean sea level) of the lowest floor of all new and substantially improved structures, and
2. If the structure will be floodproofed in accordance with the nonresidential construction requirements of subsection 10-366(2) the elevation (in relation to mean sea level) to which the structure will be floodproofed.

(c) Where base flood elevation data is not provided. If no base flood elevation data is provided as set forth in section 10-325 or the duties and responsibilities of the building official of subsection 10-363(11), then the provisions in the standards for streams without estimated base flood elevations and/or floodways of section 10-367 must be met.

(d) Alteration of watercourse. Where any watercourse will be altered or relocated as a result of proposed development, the application for a development permit shall include: a description of the extent of watercourse alteration or relocation; an engineering report on the effects of the proposed project on the flood-carrying capacity of the watercourse and the effects to properties located both upstream and downstream; and a map showing the location of the proposed watercourse alteration or relocation.

(2) *Certifications.*

(a) *Floodproofing certification.* When a structure is floodproofed, the applicant shall provide certification from a registered, professional engineer or architect that the nonresidential, floodproofed structure meets the floodproofing criteria in the nonresidential construction requirements of subsection 10-366(2).

(b) *Certification during construction.* A lowest floor elevation or floodproofing certification is required after the lowest floor is completed. As soon as possible after completion of the lowest floor and before any further vertical construction commences, or floodproofing by whatever construction means, whichever is applicable, it shall be the duty of the permit holder to submit to the building official a certification of the elevation of the lowest floor, or floodproofed elevation,

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whichever is applicable, as built, in relation to mean sea level. Said certification shall be prepared by or under the direct supervision of a registered land surveyor or professional engineer and certified by it. Any work done prior to submission of the certification shall be at the permit holder's risk. When floodproofing is utilized for the structure, the certification shall be prepared by or under the direct supervision of a professional engineer or architect licensed by the state and the certification shall bear their seal and signature. The building official shall review the floor elevation survey data submitted and notify the permit holder of any deficiencies detected by such review. The permit holder shall immediately, prior to further progressive work being performed, correct the deficiencies noted. Failure to submit the survey or failure to make said corrections required hereby shall be cause to issue a stop work order for the project.

(c) *As-built certification.* Upon completion of the development a registered professional engineer, land surveyor or architect, in accordance with South Carolina law, shall certify according to the requirements of subsections 10-362(2)(a), (2)(b) and (2)(c) that the development is built in accordance with the submitted plans and previous predevelopment certifications.

(Ord. No. 2008-47, § 3(Exh. A), 8-11-2008)

Sec. 10-363. - Duties and responsibilities of the building official.

Duties of the building official shall include, but not be limited to:

(1) *Permit review.* Review all development permits to assure that the requirements of this article have been satisfied.

(2) *Requirements of federal and/or state permits.* Review proposed development to assure 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.

(3) *Watercourse alterations.*

(a) Notify adjacent communities and the South Carolina Department of Natural Resources, Land Resources and Conservation Districts Division, State Coordinator for the National Flood Insurance Program, prior to any alteration or relocation of a watercourse, and submit evidence of such notification to the Federal Emergency Management Agency.

(b) In addition to the notifications required for watercourse alterations per subsection 10-363(3)(a), written reports of maintenance records must be maintained to show that maintenance has been provided within the altered or relocated portion of said watercourse so that the flood-carrying capacity is not diminished. This maintenance must consist of a comprehensive program of periodic inspections, and routine channel clearing and dredging, or other related functions. The assurance shall consist of a description of maintenance activities, frequency of performance, and the local official responsible for maintenance performance. Records shall be kept on file for FEMA inspection.

(c) If the proposed project will impact the configuration of the watercourse, floodway, or base flood elevation for which a detailed Flood Insurance Study has been developed, the applicant shall apply for and must receive approval for a conditional letter of map revision with the Federal Emergency Management Agency prior to the start of actual construction.

Deleted: Advise permit applicant that additional federal or state permits may be required, and if specific federal or state permits are known, require that copies of such permits be provided and maintained on file with the development permit

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(d) Within 60 days of completion of an alteration of a watercourse, referenced in the certification requirements of subsection 10-362(2)(c), the applicant shall submit as-built certification, by a registered professional engineer, to the Federal Emergency Management Agency.

(4) *Floodway encroachments.* Prevent encroachments within floodways unless the certification and flood hazard reduction provisions of subsection 10-366(5) are met.

(5) *Development proposals.* Require development proposals for proposed developments prior to signing off on and CLOMRs or LOMRs.

(6) *Adjoining floodplains:* Cooperate with neighboring communities with respect to the management of adjoining floodplains and/or flood-related erosion areas in order to prevent aggravation of existing hazards.

(7) *Notifying adjacent communities.* Notify adjacent communities prior to permitting substantial commercial developments and large subdivisions to be undertaken in areas of special flood hazard and/or flood-related erosion hazards.

(8) *Certification requirements.*

(a) Obtain and review actual elevation (in relation to mean sea level) of the lowest floor of all new or substantially improved structures, in accordance with administrative procedures outlined in subsection 10-362(2)(b).

(b) Obtain the actual elevation (in relation to mean sea level) to which the new or substantially improved structures have been floodproofed, in accordance with the floodproofing certification outlined in subsection 10-362(2)(a).

(c) When floodproofing is utilized for a particular structure, obtain certifications from a registered professional engineer or architect in accordance with the nonresidential construction requirements outlined in subsection 10-366(2).

(9) *Map interpretation.* Where interpretation is needed as to the exact location of boundaries of the areas of special flood hazard (for example, where there appears to be a conflict between a mapped boundary and actual field conditions), make the necessary interpretation. The person contesting the location of the boundary shall be given a reasonable opportunity to appeal the interpretation as provided in this article.

(10) *Prevailing authority.* Where a map boundary showing an area of special flood hazard and field elevations disagree, the base flood elevations for flood protection elevations (as found on an elevation profile, floodway data table, etc.) shall prevail. The correct information should be submitted to FEMA as per the map maintenance activity requirements outlined in subsection 10-366(7)(b).

(11) *Use of best available data.* When base flood elevation data or floodway data has not been provided in accordance with section 10-325, obtain, review, and reasonably utilize best available base flood elevation data and floodway data available from a federal, state, or other source, including data developed pursuant to the standards for subdivision proposals outlined in subsection 10-366(13), in order to administer the provisions of this article. Data from preliminary, draft, and final flood insurance studies constitutes best available data from a federal, state, or

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other source. Data must be developed using hydraulic models meeting the minimum requirement of NFIP-approved model. If an appeal is pending on the study in accordance with 44 CFR Ch. 1, Part 67.5 and 67.6, the data does not have to be used.

(12) *Special flood hazard area/topographic boundaries conflict.* When the exact location of boundaries of the area's special flood hazards conflict with the current natural topography information at the site, the property owner may apply and be approved for a letter of map amendment (LOMA) by FEMA. The building official, in the permit file, will maintain a copy of the letter of map amendment issued from FEMA.

(13) *On-site inspections.* Make on-site inspections of projects in accordance with the administrative procedures outlined in subsection 10-364(4).

(14) *Administrative notices.* Serve notices of violations, issue stop work orders, revoke permits and take corrective actions in accordance with the administrative procedures in section 10-364

(15) *Records maintenance.* Maintain all records pertaining to the administration of this ordinance and make these records available for public inspection.

(16) *Annexations and detachments.* Notify the South Carolina Department of Natural Resources Land, Water and Conservation Division, within six months, of any annexations or detachments that include special flood hazard areas. The community must incorporate applicable maps from surrounding jurisdictions into this article within 90 days of date of the annexation.

(17) *Federally funded development.* The President issued Executive Order 11988, Floodplain Management May 1977. E.O. 11988 directs federal agencies to assert a leadership role in reducing flood losses and losses to environmental values served by floodplains. Proposed developments must go through an eight-step review process. Evidence of compliance with the executive order must be submitted as part of the permit review process.

(18) *Substantial damage determination.* Perform an assessment of damage from any origin to the structure using FEMA's Residential Substantial Damage Estimator (RSDE) software to determine if the damage equals or exceeds 50 percent of the market value of the structure before the damage occurred.

(19) *Substantial improvement determinations.* Perform an assessment of permit applications for improvements or repairs to be made to a building or structure to determine if the work proposed will equal or exceed 50 percent of the market value of the structure before the improvement or repair is started. Cost of work counted for determining if and when substantial improvement to a structure occurs shall be cumulative for a period of five years. If the improvement project is conducted in phases the total of all cost associated with each phase, beginning with the issuance of the first permit, shall be utilized to determine whether "substantial improvement" will occur.

(a) *Methods of market value determination.* The market values shall be determined by one of the following methods:

1. The current assessed building value as determined by the county's assessor's office or the value of an appraisal performed by a licensed appraiser at the expense of the owner; or
2. One or more certified appraisals from a registered professional licensed appraiser

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in accordance with the laws of South Carolina. The appraisal shall indicate actual replacement value of the building or structure in its pre-improvement condition, less depreciation for functionality and obsolescence and site improvements. The Marshall & Swift Residential Cost Handbook shall be used to determine costs for buildings or structures.

3. Real estate purchase contract within 12 months prior to the date of the application for a permit.

(Ord. No. 2008-47, § 3(Exh. A), 8-11-2008)

Sec. 10-364. - Administrative procedures.

(1) *Inspections of work in progress.* As the work pursuant to a permit progresses, the building official or his designee shall make as many inspections of the work as may be necessary to ensure that the work is being done according to the provisions of the local ordinance and the terms of the permit. In exercising this power, the building official or his designee has a right, upon presentation of proper credentials, to enter on any premises within the territorial jurisdiction at any reasonable hour for the purposes of inspection or other enforcement action.

(2) *Stop work orders.* Whenever a building or part thereof is being constructed, reconstructed, altered, or repaired in violation of this article, the building official may order the work to be immediately stopped. The stop work order shall be in writing and directed to the person doing the work. The stop work order shall state the specific work to be stopped, the specific reasons for the stoppage, and the conditions under which the work may be resumed. Violation of a stop work order constitutes a misdemeanor.

(3) *Revocation of permits.* The building official may revoke and require the return of the development permit by notifying the permit holder in writing, stating the reason for the revocation. Permits shall be revoked for any substantial departure from the approved application, plans, or specifications; for refusal or failure to comply with the requirements of state or local laws; or for false statements or misrepresentations made in securing the permit. Any permit mistakenly issued in violation of an applicable state or local law may also be revoked.

(4) *Periodic inspections.* The building official and each member of his inspections department shall have a right, upon presentation of proper credentials, to enter on any premises within the territorial jurisdiction of the department at any reasonable hour for the purposes of inspection or other enforcement action.

(5) *Violations to be corrected.* When the building official finds violations of applicable state and local laws, it shall be his duty to notify the owner or occupant of the building of the violation. The owner or occupant shall immediately remedy each of the violations of law on the property he owns.

(6) *Actions in event of failure to take corrective action.* If the owner of a building or property shall fail to take prompt corrective action, the building official shall give him written notice, by certified or registered mail to his last known address or by personal service, that:

(a) The building or property is in violation of the flood damage prevention ordinance,

(b) A hearing will be held before the building official at a designated place and time, not later than ten days after the date of the notice, at which time the owner shall be entitled to be heard in person or by counsel and to present arguments and evidence pertaining to the matter; and

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(c) Following the hearing, the building official may issue such order to alter, vacate, or demolish the building; or to remove fill as appears appropriate.

(7) *Order to take corrective action.* If, upon a hearing held pursuant to the notice prescribed above, the building official shall find that the building or development is in violation of the flood damage prevention ordinance, he shall make an order in writing to the owner, requiring the owner to remedy the violation within such period, not less than 60 days, and the administrator may prescribe; provided that where the building official finds that there is imminent danger to life or other property, he may order that corrective action be taken in such lesser period as may be feasible.

(8) *Appeal.* Any owner who has received an order to take corrective action may appeal the order to the construction board of adjustment and appeals by giving notice of appeal in writing to the building official and the clerk within ten days following issuance of the final order. In the absence of an appeal, the order of the building official shall be final. The construction board of appeals shall hear an appeal within a reasonable time and may affirm, modify and affirm, or revoke the order. There shall be an appeal fee as set forth in the fee schedule in Appendix A of this Code due upon filing of the appeal.

(9) *Failure to comply with order.* If the owner of a building or property fails to comply with an order to take corrective action from which no appeal has been taken, or fails to comply with an order of the governing body following an appeal, he shall be guilty of a misdemeanor and shall be punished in the discretion of the court.

(10) *Denial of flood insurance under the NFIP.* If a structure is declared in violation of this article and the violation is not remedied, then the local administrator shall notify the Federal Emergency Management Agency to initiate a Section 1316 of the National Flood Insurance Act of 1968 action against the structure upon the finding that the violator refuses to bring the violation into compliance with the article. Once a violation has been remedied the local administrator shall notify FEMA of the remedy and ask that the Section 1316 be rescinded.

(11) *Reference documents.* The following documents are incorporated by reference and may be used by the building official to provide further guidance and interpretation of this article as found on FEMA's website at www.fema.gov:

- (a) FEMA 55 Coastal Construction Manual
- (b) All FEMA Technical Bulletins
- (c) All FEMA Floodplain Management Bulletins
- (d) FEMA 348 Protecting Building Utilities from Flood Damage
- (e) FEMA 499 Home Builder's Guide To Coastal Construction Technical Fact Sheets

(Ord. No. 2008-47, § 3(Exh. A), 8-11-2008)

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Sec. 10-365. - General standards.

Sec. 10-366. - Specific standards.

Sec. 10-367. - Standards for streams without established base flood elevations and/or floodways.

Sec. 10-368. - Standards for streams with established base flood elevations but without floodways.

Sec. 10-369. - Standards for areas of shallow flooding (AO Zones).

Sec. 10-370. - Variance procedures.

Sec. 10-371. - Legal status provisions.

Secs. 10-372—10-400. - Reserved.

Sec. 10-365. - General standards.

Development may not occur in the floodplain where alternative locations exist due to the inherent hazards and risks involved. Before a permit is issued, the applicant shall demonstrate that new structures cannot be located out of the floodplain and that encroachments onto the floodplain are minimized. In all areas of special flood hazard the following provisions are required:

- (1) *Anchoring.* All new construction and substantial improvements shall be anchored to prevent flotation, collapse, or lateral movement of the structure.
- (2) *Flood resistant materials and equipment.* All new construction and substantial improvements shall be constructed with flood-resistant materials and utility equipment resistant to flood damage.
- (3) *Minimize flood damage.* All new construction or substantial improvements shall be constructed by methods and practices that minimize flood damages.
- (4) *Critical development* shall be elevated to the 500-year flood elevation or be elevated to the highest known historical flood elevation (where records are available), whichever is greater. If no data exists establishing the 500-year flood elevation or the highest known historical flood elevation, the applicant shall provide a hydrologic and hydraulic engineering analysis that generates 500-year flood elevation data.
- (5) *Utilities.* Electrical, ventilation, plumbing, heating and air conditioning equipment (including ductwork), and other service facilities shall be designed and/or located so as to prevent water from entering or accumulating within the components during conditions of the base flood plus two feet. This requirement does not preclude the installation of outdoor faucets for shower heads, sinks, hoses, etc., as long as cutoff devices and back flow devices are installed to prevent contamination to the service components and thereby minimize any flood damages to the building.
- (6) *Water supply systems.* All new and replacement water supply systems shall be designed to minimize or eliminate infiltration of floodwaters into the system.
- (7) *Sanitary sewage systems.* New and replacement sanitary sewage systems shall be designed to minimize or eliminate infiltration of floodwaters into the systems and discharges from the systems into floodwaters, on-site waste disposal systems shall be located and constructed to avoid impairment to them or contamination from them during flooding.
- (8) *Gas or liquid storage tanks.* All gas or liquid storage tanks, either located above ground or buried, shall be anchored to prevent flotation or lateral movement resulting from hydrodynamic and hydrostatic loads.

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(9) *Alteration, repair, reconstruction, or improvements.* Any alteration, repair, reconstruction, or improvement to a structure that is in compliance with the provisions of this article, shall meet the requirements of "new construction" as contained in this article. This includes post-FIRM development and structures.

(10) *Nonconforming buildings or uses.* Nonconforming buildings or uses may not be enlarged, replaced, or rebuilt unless such enlargement or reconstruction is accomplished in conformance with the provisions of this ordinance. Provided, however, nothing in this article shall prevent the repair, reconstruction, or replacement of an existing building or structure located totally or partially within the floodway, provided that the bulk of the building or structure below base flood elevation in the floodway is not increased and provided that such repair, reconstruction, or replacement meets all of the other requirements of this article.

(11) *American with Disabilities Act (ADA).* A building must meet the specific standards for floodplain construction outlined in section 10-366, as well as any applicable ADA requirements. The ADA is not justification for issuing a variance or otherwise waiving these requirements. Also, the cost of improvements required to meet the ADA provisions shall be included in the costs of the improvements for calculating substantial improvement.

Sec. 10-366. - Specific standards.

In all areas of special flood hazard (Zones A, AE, AH, AO, A1-30, V, and VE) where base flood elevation data has been provided, as set forth in section 10-325 or outlined in the duties and responsibilities of the building official section 10-363, the following provisions are required:

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(1) *Residential construction.* New construction and substantial improvement of any residential structure (including manufactured homes) shall have the lowest floor elevated no lower than two feet above the base flood elevation. No basements are permitted. Should solid foundation perimeter walls be used to elevate a structure, openings sufficient to facilitate the unimpeded movements of floodwaters shall be provided in accordance with the elevated buildings requirements in subsection 10-366(4).

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(2) *Nonresidential construction.* New construction and substantial improvement of any commercial, industrial, or nonresidential structure (including manufactured homes) shall have the lowest floor elevated no lower than two feet above the level of the base flood elevation. Should solid foundation perimeter walls be used to elevate a structure, openings sufficient to facilitate the unimpeded movements of floodwaters shall be provided in accordance with the elevated buildings requirements in subsection 10-366(4). No basements are permitted. Structures located in A-zones may be floodproofed in lieu of elevation provided that all areas of the structure below the required elevation are watertight with walls substantially impermeable to the passage of water, using structural components having the capability of resisting hydrostatic and hydrodynamic loads and the effect of buoyancy. A registered, professional engineer or architect shall certify that the standards of this subsection are satisfied. Such certifications shall be provided to the building official as set forth in the floodproofing certification requirements in subsection 10-362(2)(a). A variance may be considered for wet-floodproofing agricultural structures in accordance with the criteria outlined in section 10-369 of this chapter. Agricultural structures not meeting the criteria of section 10-369 must meet the nonresidential construction standards and all other applicable provisions of this chapter. Structures that are floodproofed are required to have an approved maintenance plan with an annual exercise. The building official must approve the maintenance plan and notification of the annual exercise shall be provided.

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(3) *Manufactured homes.*

(a) Manufactured homes that are placed or substantially improved on sites outside a manufactured home park or subdivision, in a new manufactured home park or subdivision, in an expansion to an existing manufactured home park or subdivision, or in an existing manufactured home park or subdivision on which a manufactured home has incurred "substantial damage" as the result of a flood, must be elevated on a permanent foundation such that the lowest floor of the manufactured home is elevated no lower than two feet above the base flood elevation and be securely anchored to an adequately anchored foundation system to resist flotation, collapse, and lateral movement.

(b) Manufactured homes that are to be placed or substantially improved on sites in an existing manufactured home park or subdivision that are not subject to the provisions for residential construction in subsection 10-366(1) of this article must be elevated so that the lowest floor of the manufactured home is elevated no lower than two feet above the base flood elevation, and be securely anchored to an adequately anchored foundation to resist flotation, collapse, and lateral movement.

(c) Manufactured homes shall be anchored to prevent flotation, collapse, or lateral movement. For the purpose of this requirement, manufactured homes must be anchored to resist flotation, collapse, or lateral movement in accordance with Section 19-425.39 of the South Carolina Manufactured Housing Board Regulations, effective date May 25, 1990, as amended. Additionally, when the elevation requirement would be met by an elevation of the chassis at least 36 inches or less above the grade at the site, reinforced piers or other foundation elements of at least equivalent strength shall support the chassis. When the elevation of the chassis is above 36 inches in height an engineering certification is required.

(d) An evacuation plan must be developed for evacuation of all residents of all new, substantially improved or substantially damaged manufactured home parks or subdivisions located within floodprone areas. This plan shall be filed with and approved by the building official and the Hometown Security Coordinator.

(4) *Elevated buildings.* New construction and substantial improvements of elevated buildings that include fully enclosed areas that are usable solely for the parking of vehicles, building access, or limited storage in an area other than a basement, and which are subject to flooding shall be designed to preclude finished space and be designed to automatically equalize hydrostatic flood forces on exterior walls by allowing for the entry and exit of floodwaters.

(a) Designs for complying with this requirement must either be certified by a professional engineer or architect or meet the following minimum criteria:

1. Provide a minimum of two openings on different walls having a total net area of not less than one square inch for every square foot of enclosed area subject to flooding;
2. The bottom of all openings shall be no higher than one foot above grade;
3. Openings may be equipped with screens, louvers, valves, or other coverings or devices provided they permit the automatic flow of floodwaters in both directions; and
4. Fill placed around foundation walls must be graded so that the grade inside the enclosed area is equal to or higher than the adjacent grade outside the building on at

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least one side of the building.

(b) *Hazardous velocities.* Hydrodynamic pressure must be considered in the design of any foundation system where velocity waters or the potential for debris flow exists. If flood velocities are excessive (greater than 5 feet per second), foundation systems other than solid foundations walls should be considered so that obstructions to damaging flood flows are minimized.

(c) *Enclosures below BFE.*

1. Access to the enclosed area shall be the minimum necessary to allow for parking of vehicles (garage door) or limited storage of maintenance equipment used in connection with the premises (standard exterior door) or entry to the living area (stairway or elevator).

2. The interior portion of such enclosed area shall not be partitioned or finished into separate rooms, except to enclose a single storage area and must be void of utilities except for essential lighting as required, and cannot be temperature controlled.

3. One wet location switch and/or outlet connected to a ground fault interrupt breaker may be installed below the required lowest floor elevation specified in the specific standards outlined in subsections 10-366(1), (2), and (3).

4. All construction materials below the required lowest floor elevation specified in the specific standards outlined in subsections 10-366(1), (2), and (3) should be of flood-resistant materials.

(5) *Floodways.* Located within areas of special flood hazard established in section 10-325, are areas designated as floodways. The floodway is an extremely hazardous area due to the velocity of floodwaters that carry debris and potential projectiles and has erosion potential. The following provisions shall apply within such areas:

(a) No encroachments, including fill, new construction, substantial improvements, additions, and other developments shall be permitted unless it has been demonstrated through hydrologic and hydraulic analyses performed in accordance with standard engineering practice that the proposed encroachment would not result in any increase in the flood levels during the occurrence of the base flood. Such certification and technical data shall be presented to the local administrator.

(b) If subsection 10-366(5)(a) is satisfied, all new construction and substantial improvements shall comply with all applicable flood hazard reduction provisions of section 10-366

(c) Stream crossings for any purpose (i.e., timber harvesting operations), if temporary, shall be permitted in accordance with floodway requirements of subsection 10-366(5) and shall comply with all applicable flood hazard reduction provisions of section 10-366

(d) No manufactured homes shall be permitted, except in an existing manufactured home park or subdivision. A replacement manufactured home may be placed on a lot in an existing manufactured home park or subdivision provided the anchoring and the elevation standards of subsection 10-366(3) are met.

Deleted: the temporary development provisions of subsection 10-366(11).
Otherwise, the development

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(e) Permissible uses within floodways may include: general farming, pasture, outdoor plant nurseries, horticulture, forestry, wildlife sanctuary, game farm, and other similar agricultural, wildlife, and related uses. Also, lawns, gardens, play areas, picnic grounds, and hiking and horseback riding trails are acceptable uses, provided that they do not employ structures or fill. Substantial development of a permissible use may require a no-impact certification. The uses listed in this subsection are permissible only if and to the extent that they do not cause any increase in base flood elevations or changes to the floodway configuration.

(6) *Recreational vehicles.*

(a) A recreational vehicle is ready for highway use if it is:

1. On wheels or jacking system;
2. Attached to the site only by quick-disconnect type utilities and security devices; and
3. Has no permanently attached additions.

(b) Recreational vehicles placed on sites shall either be:

1. On-site for fewer than 180 consecutive days; and
2. Be fully licensed and ready for highway use, or meet the development permit and certification requirements of section 10-362, general standards outlined in section 10-365, and manufactured homes standards in section 10-366

(7) *Map maintenance activities.* The National Flood Insurance Program requires flood data to be reviewed and approved by FEMA. This ensures that flood maps, studies and other data identified in section 10-325 accurately represent flooding conditions so appropriate floodplain management criteria are based on current data, the following map maintenance activities are identified:

(a) Requirement to submit new technical data.

1. For all development proposals that impact floodway delineations or base flood elevations, the community shall ensure that technical data reflecting such changes be submitted to FEMA within six months of the date such information becomes available. These development proposals include:

- a. Floodway encroachments that increase or decrease base flood elevations or alter floodway boundaries;
- b. Fill sites to be used for the placement of proposed structures where the applicant desires to remove the site from the special flood hazard area;
- c. Alteration of watercourses that result in a relocation or elimination of the special flood hazard area, including the placement of culverts; and
- d. Subdivision or large-scale development proposals requiring the establishment of base flood elevations in accordance with subsection 10-366(11)(d).

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2. It is the responsibility of the applicant to have technical data, required in

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accordance with subsection 10-366(7), prepared in a format required for a conditional letter of map revision or letter of map revision, and submitted to FEMA. Submittal and processing fees for these map revisions shall also be the responsibility of the applicant.

3. The building official shall require a conditional letter of map revision prior to the issuance of a floodplain development permit for:
4. Proposed floodway encroachments that increase the base flood elevation; and
5. Proposed development which increases the base flood elevation by more than one foot in areas where FEMA has provided base flood elevations but no floodway.
6. Floodplain development permits issued by the building official shall be conditioned upon the applicant obtaining a letter of map revision from FEMA for any development proposal subject to subsection 10-366(7).
7. Conditional letter of map revisions (CLOMR) and/or letters of map revision (LOMR) must go through the variance process outlined in section 10-369

(b) *Right to submit new technical data.* The building official may request changes to any of the information shown on an effective map that does not impact floodplain or floodway delineations or base flood elevations, such as labeling or planimetric details. Such a submission shall include appropriate supporting documentation made in writing by the local jurisdiction and may be submitted at any time.

(8) *Accessory structures.*

(a) A detached accessory structure or garage, the cost of which is greater than \$3,000.00, must comply with the requirements as outlined in FEMA's Technical Bulletin 7-93 Wet Floodproofing Requirements or be elevated in accordance with subsection 10-366(1) and subsection 10-366(4) or dry flood proofed in accordance with subsection 10-366(2).

(b) When accessory structures of \$3,000.00 or less are to be placed in the floodplain, the following additional criteria shall be met:

1. Accessory structures shall not be used for human habitation (including work, sleeping, living, cooking or restroom areas);
2. Accessory structures shall be designed to have low flood damage potential;
3. Accessory structures shall be constructed and placed on the building site so as to offer the minimum resistance to the flow of floodwaters;
4. Accessory structures shall be firmly anchored to prevent flotation, collapse or lateral movement of the structure;
5. Service facilities such as electrical and heating equipment shall be installed in accordance with subsection 10-365(5); and
6. Openings to relieve hydrostatic pressure during a flood shall be provided below base flood elevation in conformance with subsection 10-366(4).

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(9) *Swimming pool utility equipment rooms.* If the building can not be built at or above the BFE, because of functionality of the equipment then a structure to house the utilities for the pool may be built below the BFE with the following provisions:

- (a) Meet the requirements for accessory structures in subsection 10-366(8).
- (b) The utilities must be anchored to prevent flotation and shall be designed to prevent water from entering or accumulating within the components during conditions of the base flood.
- (c) A variance may be granted to allow wet floodproofing of the structure.

(10) *Elevators.*

(a) Installation of a float switch system or another system that provides the same level of safety is necessary for all elevators where there is a potential for the elevator cab to descend below the BFE during a flood per FEMA's Technical Bulletin 4-93 Elevator Installation for Buildings Located in Special Flood Hazard Areas.

(b) All equipment that may have to be installed below the BFE such as counter weight roller guides, compensation cable and pulleys, and oil buffers for traction elevators and the jack assembly for a hydraulic elevator must be constructed using flood-resistant materials where possible per FEMA's Technical Bulletin 4-93 Elevator Installation for Buildings Located in Special Flood Hazard Areas.

(11) *Fill.* An applicant shall demonstrate that fill is the only alternative to raising the building to meet the residential and nonresidential construction requirements of subsection 10-366(1) or subsection 10-366(2), and that the amount of fill used will not affect the flood storage capacity or adversely affect adjacent properties. The following provisions shall apply to all fill placed in the special flood hazard area:

- (a) Fill may not be placed in the floodway unless it is in accordance with the requirements in subsection 10-366(5)(a);
- (b) Fill may not be placed in tidal or non-tidal wetlands without the required state and federal permits;
- (c) Fill must consist of soil and rock materials only. A registered professional geotechnical engineer may use dredged material as fill only upon certification of suitability. Landfills, rubble fills, dumps, and sanitary fills are not permitted in the floodplain;
- (d) Fill used to support structures must comply with ASTM Standard D-698, and its suitability to support structures certified by a registered, professional engineer;
- (e) Fill slopes shall be no greater than two horizontal to one vertical. Flatter slopes may be required where velocities may result in erosion; and
- (f) The use of fill shall not increase flooding or cause drainage problems on neighboring properties.
- (g) Fill may not be used for structural support in the coastal high hazard areas;

Deleted: (11) . *Temporary development.* Certain types of structures (e.g., fruit stands, construction site offices, portable toilets, etc.) may be situated temporarily on floodprone property without having to comply with the elevation or floodproofing criteria of subsection 10-366(1) and subsection 10-366(2), respectively, provided that the following criteria are met: ¶
(a) . All applicants must submit to the local administrator, prior to the issuance of the development permit, a written plan for the removal of any temporary structures or development in the event of a hurricane or flash flood warning notification. The plan shall be reviewed and approved in writing, and must include the following information: ¶
1. . A specified time period for which the temporary use will be permitted.¶
2. . The name, address and phone number of the individual responsible for the removal of temporary structures or development.¶
3. . The time frame prior to the event at which any structures will be removed (i.e., minimum of 72 hours before landfall of a hurricane or immediately upon flood warning notification); ¶
4. . A copy of the contract or other suitable instrument with a trucking company to insure the availability of removal equipment when needed; ¶
5. . Designation, accompanied by documentation, of a location outside the floodplain to which any temporary structure will be moved;¶
6. . A determination of permanent structures which would be adversely affected by increased flooding upstream or downstream, and a method for covering this liability, such as a performance bond; and ¶
7. . A plan to restore the area to its natural condition once the temporary permit expires or the temporary use is terminated, whichever is first. ¶
a. . The structure is mobile, or can be made so, and is capable of being removed from the site with a maximum of four hours warning.¶
b. . The structure will not remain on the property for more than 180 days.¶

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(h) Will meet the requirements of FEMA Technical Bulletin 10-01, ensuring that structures built on fill in or near special flood hazard areas are reasonably safe from flooding.

(12) Standards for Subdivision Proposals and Other Development

- (a) All subdivision proposals shall be consistent with the need to minimize flood damage and are subject to all applicable standards in these regulations;
- (b) All subdivision proposals shall have public utilities and facilities such as sewer, gas, electrical, and water systems located and constructed to minimize flood damage; and
- (c) All subdivision proposals shall have adequate drainage provided to reduce exposure to flood damage.

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(Ord. No. 2008-47, § 3(Exh. A), 8-11-2008)

Sec. 10-367. - Standards for streams without established base flood elevations and/or floodways

Located within the areas of special flood hazard (zones A and X) established in section 10-325, are small streams where no base flood data has been provided or where no floodways have been identified. The following provisions apply within such areas:

Deleted: (d) . In all areas of special flood hazard where base flood elevation data are not available, the applicant shall provide a hydrologic and hydraulic engineering analysis that generates base flood elevations for all subdivision proposals and other proposed developments containing at least 50 lots or 5 acres, whichever is less. ¶
(e) . If the areas of special flood hazard is identified as an area of open space and is deemed as such then a hydrologic and hydraulic engineering analysis that generates base flood elevations for the subdivision proposal would not be required.

(1) No encroachments, including fill, new construction, substantial improvements or new development shall be permitted within 100 feet of the stream bank unless certification with supporting technical data by a registered, professional engineer is provided demonstrating that such encroachments shall not result in any increase in flood levels during the occurrence of the base flood discharge.

Deleted: (f) . The applicant shall meet the requirement to submit technical data to FEMA in subsection 10-366(7) when a hydrologic and hydraulic analysis is completed that generates base flood elevations. ¶

(2) If subsection 10-367(1) is satisfied and base flood elevation data is available from other sources, all new construction and substantial improvements within such areas shall comply with all applicable flood hazard ordinance provisions of division 3 and shall be elevated or floodproofed in accordance with elevations established in accordance with subsection 10-363(11).

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(a) In all areas of special flood hazard where base flood elevation data are not available, the applicant shall provide a hydrologic and hydraulic engineering analysis that generates base flood elevations for all subdivision proposals and other proposed developments containing at least 50 lots or 5 acres, whichever is less.

(b) If the areas of special flood hazard is identified as an area of open space and is deemed as such then a hydrologic and hydraulic engineering analysis that generates base flood elevations for the subdivision proposal would not be required.

(c) The applicant shall meet the requirement to submit technical data to FEMA in subsection 10-366(7) when a hydrologic and hydraulic analysis is completed that generates base flood elevations.

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(3) Data from preliminary, draft, and final flood insurance studies constitutes best available data. Refer to FEMA Floodplain Management Technical Bulletin 1-98 Use of Flood Insurance Study (FIS) Data as Available Data. If an appeal is pending on the study in accordance with 44 CFR Ch.

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1, Part 67.5 and 67.6, the data does not have to be used.

(4) When base flood elevation data is not available from a federal, state, or other source one of the following methods may be used to determine a BFE. For further information regarding the methods for determining BFEs listed below refer to FEMA's Manual Managing Floodplain Development in Approximate Zone A Areas.

(a) *Contour interpolation.*

1. Superimpose approximate Zone A boundaries onto a topographic map and estimate a BFE.
2. Add one-half of the contour interval of the topographic map that is used to the BFE.

(b) *Data extrapolation.* A BFE can be determined if a site within 500 feet upstream of a reach of a stream reach for which a 100-year profile has been computed by detailed methods, and the floodplain and channel bottom slope characteristics are relatively similar to the downstream reaches.

(c) *Hydrologic and hydraulic calculations.* Perform hydrologic and hydraulic calculations to determine BFEs using FEMA-approved methods and software. These methods include, but are not limited to the following:

1. HEC-RAS 3.1.1 and up.
2. HEC-1 4.0.1 and up.
3. HEC-2 4.6.2.
4. HEC-HMS 1.1 and up.
5. FLO-2D.
6. QUICK-2.
7. SFD.
8. WSPRO.

(Ord. No. 2008-47, § 3(Exh. A), 8-11-2008)

Sec. 10-368. - Standards for streams with established base flood elevations but without floodways.

Along rivers and streams where base flood elevation (BFE) data is provided but neither floodway are identified for a special flood hazard area on the FIRM or in the FIS. The following provisions apply within such areas:

- (1) No encroachments, including fill, new construction, substantial improvements, or other development, shall be permitted unless certification with supporting technical data by a registered professional engineer is provided demonstrating that the cumulative effect of the proposed development, when combined with all other existing and anticipated development, will not

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increase the water surface elevation of the base flood more than one foot at any point within the community.

(Ord. No. 2008-47, § 3(Exh. A), 8-11-2008)

Sec. 10-369. - Standards for areas of shallow flooding (AO Zones).

Located within the areas of special flood hazard established in section 10-325, are areas designated as shallow flooding. The following provisions shall apply within such areas:

(1) All new construction and substantial improvements of residential structures shall have the lowest floor elevated to the depth number specified on the flood insurance rate map, in feet, above the highest adjacent grade. If no depth number is specified, the lowest floor shall be elevated at least three feet above the highest adjacent grade.

(2) All structures on slopes must have drainage paths around them to guide water away from the structures.

(3) All new construction and substantial improvements of nonresidential structures shall:

(a) Have the lowest floor elevated to the depth number specified on the flood insurance rate map, in feet, above the highest adjacent grade. If no depth number is specified, the lowest floor shall be elevated at least three feet above the highest adjacent grade; or

(b) Be completely floodproofed together with attendant utility and sanitary facilities to or above that level so that any space below that level 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.

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(Ord. No. 2008-47, § 3(Exh. A), 8-11-2008)

Sec. 10-370. - Variance procedures.

(a) *Establishment of appeal board.* the construction board of adjustment and appeals as established by the city council of the City of Rock Hill shall hear and decide requests for variances from the requirements of this article.

(b) *Right to appeal.* Any person aggrieved by the decision of the appeal board or any taxpayer may appeal such decision to the Circuit Court of Appeals.

(c) *Historic structures.* Variances may be issued for the repair or rehabilitation of historic structures upon the determination that the proposed repair or rehabilitation will not preclude the structure's continued designation as a historic structure and the variance is the minimum necessary to preserve the historic character and design of the structure.

(d) *Agricultural structures.* Variances may be issued to wet floodproof an agricultural structure in accordance with Technical Bulletin 7-93, Wet Floodproofing Requirements for Structures Located in Special Flood Hazard Areas in accordance with the National Flood Insurance Program, document number FIA-TB-7, dated 12/93, and available from the Federal Emergency Management Agency. In order to minimize flood damages during the base flood and the threat to public health and safety, the structure must meet all of the conditions and considerations of Article V.H, this section, and the following standards:

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- (1) Use of the structure must be limited to agricultural purposes as listed below:
- a. Pole frame buildings with open or closed sides used exclusively for the storage of farm machinery and equipment;
 - b. Steel grain bins and steel frame corncribs;
 - c. General purpose barns for the temporary feeding of livestock that is open on at least one side;
 - d. For livestock confinement buildings, poultry houses, dairy operations, and similar livestock operations, variances may not be issued for structures that were substantially damaged. New construction or substantial improvement of such structures must meet the elevation requirement of subsection 10-366(2) of this article; and
 - e. Detached garages and storage sheds solely used for parking and limited storage in connection with agricultural uses only, which are no greater than 400 square feet in area.

(2) The agricultural structure must be built or rebuilt, in the case of an existing building that is substantially damaged, with flood-resistant materials for the exterior and interior building components and elements below the base flood elevation.

(3) The agricultural structure must be adequately anchored to prevent flotation, collapse or lateral movement. All of the structure's components must be capable of resisting specific flood-related forces including hydrostatic, buoyancy, hydrodynamic, and debris impact forces. Where flood velocities exceed five feet per second, fast-flowing floodwaters can exert considerable pressure on the building's enclosure walls or foundation walls.

(4) The agricultural structure must meet the venting requirement of subsection 10-366(4) of this article.

(5) Any mechanical, electrical, or other utility equipment must be located above the base flood elevation so that they are contained within a watertight, floodproofed enclosure that is capable of resisting damage during flood conditions in accordance with subsection 10-365(5) of this article.

(6) The agricultural structure must comply with the floodway encroachment provisions of subsection 10-366(5) of this article; and

(7) Major equipment, machinery, or other contents must be protected. Such protection may include protective watertight floodproofed areas within the building, the use of equipment hoists for readily elevating contents, permanently elevating contents on pedestals or shelves above the base flood elevation or determining that property owners can safely remove contents without risk to lives and that the contents will be located to a specified site out of the floodplain.

Deleted: in accordance with the temporary development provisions of subsection 10-366(11)

(e) Considerations. In passing upon such applications, the appeal board shall consider all technical evaluations, all relevant factors, all standards specified in other sections of this ordinance, and:

- (1) The danger that materials may be swept onto other lands to the injury of others;
- (2) The danger to life and property due to flooding or erosion damage, and the safety of access to the property in times of flood for ordinary and emergency vehicles;

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- (3) The susceptibility of the proposed facility and its contents to flood damage and the effect of such damage on the individual owner;
 - (4) The importance of the services provided by the proposed facility to the community;
 - (5) The necessity to the facility of a waterfront location, where applicable;
 - (6) The availability of alternative locations, not subject to flooding or erosion damage, for the proposed use;
 - (7) The compatibility of the proposed use with existing and anticipated development and the relationship of the proposed use to the comprehensive plan and floodplain management program for that area;
 - (8) The expected heights, velocity, duration, rate of rise, and sediment transport of the floodwaters and the effects of wave action, if applicable, expected at the site;
 - (9) The costs of providing governmental services during and after flood conditions including maintenance and repair of public utilities and facilities such as sewer, gas, electrical and water systems, and streets and bridges; and
 - (10) Agricultural structures must be located in wide, expansive floodplain areas, where no other alternative location for the agricultural structure exists. The applicant must demonstrate that the entire farm acreage, consisting of a contiguous parcel of land on which the structure is to be located, must be in the special flood hazard area and no other alternative locations for the structure are available.
- (f) *Findings.* Findings listed above shall be submitted to the appeal board, in writing, and included in the application for a variance. Additionally, comments from the Department of Natural Resources, Land, Water and Conservation Division, State Coordinator's Office must be taken into account and included in the permit file.
- (g) *Floodways.* Variances shall not be issued within any designated floodway if any increase in flood levels during the base flood discharge would result unless a CLOMR is obtained prior to issuance of the variance. In order to insure the project is built in compliance with the CLOMR for which the variance is granted the applicant must provide a bond for 100 percent of the cost to perform the development.
- (h) *Conditions.* Upon consideration of the factors listed above and the purposes of this article, the appeal board may attach such conditions to the granting of variances as it deems necessary to further the purposes of this article. The following conditions shall apply to all variances:
- (1) Variances may not be issued when the variance will make the structure in violation of other federal, state, or local laws, regulations, or ordinances.
 - (2) Variances shall only be issued upon a determination that the variance is the minimum necessary, considering the flood hazard, to afford relief.
 - (3) Variances shall only be issued upon a showing of good and sufficient cause, a determination that failure to grant the variance would result in exceptional hardship, and a determination that the granting of a variance will not result in increased flood heights, additional threats to public safety, extraordinary public expense, create nuisance, cause fraud on or victimization of the public, or conflict with existing local laws or ordinances.

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(4) Any applicant to whom a variance is granted shall be given written notice specifying the difference between the base flood elevation and the elevation to which the structure is to be built and a written statement that the cost of flood insurance will be commensurate with the increased risk resulting from the reduced lowest floor elevation. Such notification shall be maintained with a record of all variance actions.

(5) The local administrator shall maintain the records of all appeal actions and report any variances to the Federal Emergency Management Agency upon request.

(6) Variances shall not be issued for unpermitted development or other development that is not in compliance with the provisions of this article. Violations must be corrected in accordance with subsection 10-364(5) of this article.

(Ord. No. 2008-47, § 3(Exh. A), 8-11-2008)

Sec. 10-371. - Legal status provisions.

(a) *Effect on rights and liabilities under the existing flood damage prevention ordinance.* This article in part comes forward by re-enactment of some of the provisions of the flood damage prevention ordinance enacted October 13, 1980, as amended, and it is not the intention to repeal but rather to re-enact and continue to enforce without interruption of such existing provisions, so that all rights and liabilities that have accrued thereunder are reserved and may be enforced. The enactment of this article shall not affect any action, suit or proceeding instituted or pending. All provisions of the flood damage prevention ordinance of the City of Rock Hill enacted on October 13, 1980, as amended, which are not reenacted herein, are repealed.

(b) *Effect upon outstanding building permits.* Nothing herein contained shall require any change in the plans, construction, size or designated use of any building, structure or part thereof for which a building permit has been granted by the building official or his authorized agents before the time of passage of this article; provided, however, that when construction is not begun under such outstanding permit within a period of 60 days subsequent to passage of this article, construction or use shall be in conformity with the provisions of this article.

(c) *Effective date.* This article shall become effective upon adoption.

(Ord. No. 2008-47, § 3(Exh. A), 8-11-2008)

Secs. 10-372—10-400. - Reserved.