



MEMORANDUM

TO: Timothy J. Baroody, City Manager
FROM: Chuck Johnston, Director, Community Planning & Building Department
Pam Daniels, Stormwater Specialist
DATE: February 6, 2023 (for the February 14 meeting)
RE: Initiating amendments to the Unified Development Ordinance to repeal the Floodplain Overlay District and adopt the Virginia Department of Conservation and Recreation Model Floodplain Management Ordinance as the City of Fredericksburg Floodplain Overlay District.

ISSUE

Should the City Council initiate amendments to the Unified Development Ordinance, specifically:

- Repeal and replace Section 72-34.2, Floodplain Overlay District with the Virginia Department of Conservation & Recreation model ordinance. The new text would be technically up to date and would adopt by reference the April 5, 2023 Federal Emergency Management Agency Floodplain Maps of the Rappahannock River, Hazel Run, and their tributaries;
- Update cross references in Sections 72-62.1, Nonconforming Use, Generally and 72-63.6, Nonconforming Structures, Floodplain Overlay District;
- Delete the term 'New Construction' in Section 72-84.0, Definitions, as this term and its definition is updated and listed in the model ordinance?

RECOMMENDATION

Initiate the public hearing process for the proposed amendments to the UDO and refer to the Planning Commission for consideration. The Virginia Department of Conservation & Recreation have notified planning staff that these amendments must be in place before the April 5 Floodplain Maps can be effective and floodplain insurance for properties continued. DCR asks for receipt of the new ordinance by March 15. In order to meet this deadline, a Planning Commission public hearing has been advertised for February 22 to make a recommendation to City Council.

BACKGROUND

The Federal Emergency Management Agency has provided updated Rappahannock River / Hazel Run Floodplain Maps for City that are to be effective an April 5, 2023. FEMA and DCR also expect the City to update the regulations that govern activities in the floodplain, as stated in the City's Floodplain Overlay Zoning District. FEMA completed a check list evaluating the current ordinance, which is attached.

The proposed ordinance follows the DCR model ordinance, which does not differ substantially from how the City currently implements the NFIP. Generally, the differences incorporate updated terminology, clarified information regarding the administrative framework for the ordinance, and specifications relating to new construction and substantial improvements for residential and commercial developments.

Sidney Huffman, DCR Floodplain Program Planner, has provided the following additional explanation:

When a locality agrees to join the National Flood Insurance Program, it also agrees to implement the minimum requirements of the program through the local floodplain management ordinance. The current City ordinance does not meet the minimum requirements of the NFIP. The deficiencies in the ordinance are described in the checklist that DCR provided. If the ordinance is not amended and adopted to address these deficiencies (submitted to DCR on March 15, approved by FEMA by April 5), then FEMA will automatically suspend the City from the NFIP.

If suspended, your community becomes ineligible for flood insurance through the NFIP, new insurance policies cannot be sold, and existing policies cannot be renewed. Remember that under the Flood Disaster Protection Act of 1973, property owners seeking any Federal financial assistance for construction or acquisition of buildings in Special Flood Hazard Areas (SFHAs) must purchase flood insurance. This financial assistance includes certain federally guaranteed mortgages and direct loans, federal disaster relief loans and grants, as well as other similar assistance from FEMA and other agencies. In addition, all loans individuals obtain from Federally regulated, supervised, or insured lending institutions that are secured by real estate located in SFHAs are also contingent upon the borrower obtaining flood insurance coverage on the building. If Fredericksburg is suspended from the NFIP, these mortgages, direct loans, and disaster relief funds will not be available to the community, and existing loans and mortgages may be in danger of foreclosure.

In addition to these serious financial outcomes, the minimum NFIP requirements also represent the minimum standards to protect your community from flood hazards and potential loss of life and property. An updated and improved ordinance will also better prepare and protect your community from flood risks and hazards.

CONCLUSION

The City first enacted its first floodplain ordinance in the 1970s and it was last updated in 2007. Adopting an updated, technically accurate floodplain ordinance to accompany the new FEMA Floodplain Maps would further protect health, safety, and welfare of the residents and property owners in the City. The attached ordinance contains the necessary amendments that allow the City to remain a part of the NFIP. Maintaining the City's status within the NFIP is crucial, as it protects its residents from flood hazards and the potential loss of life and property.

ATTACHMENTS

1. Ordinance amending the UDO to repeal and replace the text of the Floodplain Overlay District with the Virginia Department of Conservation & Recreation model text.
2. FEMA Checklist for Fredericksburg



February 14, 2023
Regular Meeting
Resolution 23-

MOTION:

SECOND:

RE: Initiating amendments to the Unified Development Ordinance to repeal the Floodplain Overlay District and adopt the Virginia Department of Conservation and Recreation Model Floodplain Management Ordinance as the City of Fredericksburg Floodplain Overlay District

ACTION: APPROVED: Ayes: 0; Nays: 0

The U.S. Federal Emergency Management Agency (FEMA) has updated the maps identifying the Special Flood Hazard Areas of the City, commonly known as the Floodway, 100-year floodplain, and 500-year floodplain for the Rappahannock River, Hazel Run, and their tributaries.

The Virginia Department of Conservation and Recreation (DCR) and FEMA must review a final, adopted, and signed floodplain ordinance meeting their criteria in advance of the April 5, 2023 effective date of the updated Special Flood Hazard Area maps.

The City's current Floodplain Overlay Zoning District was first adopted in 1979, with the last update in 2007.

The current City Floodplain Overlay District ordinance does not meet the minimum requirements of the National Flood Insurance Program. If the ordinance is not amended and adopted to address these deficiencies, submitted to DCR on March 15, and approved by FEMA by April 5, then FEMA will automatically suspend the City from the NFIP.

If suspended, property in the City would become ineligible for flood insurance through the NFIP, new insurance policies cannot be sold, and existing policies cannot be renewed. Under the Flood Disaster Protection Act of 1973, property owners seeking any Federal financial assistance for construction or acquisition of buildings in Special Flood Hazard Areas (SFHAs) must purchase flood insurance. If the City is suspended from the NFIP, federally guaranteed mortgages, direct loans, and disaster relief funds will not be available to property owners, and existing loans and mortgages may be in danger of foreclosure.

The Virginia Department of Conservation and Recreation (DCR) has provided an example ordinance to be used by municipalities to comply with the requirements of the Federal Emergency Management Agency's (FEMA) National Flood Insurance Program regulations.

Therefore, the City Council hereby resolves that:

- The City Council hereby initiates an amendment to City Code Chapter 72, the Unified Development Ordinance, to repeal and replaced Floodplain Overlay District regulations and associated development regulations with the DCR model ordinance.

- The City Council refers this proposed amendment to the Planning Commission for review, public hearing, and recommendation under the procedures set forth in City Code §72-22.1.

Votes:

Ayes:

Nays:

Absent from Vote:

Absent from Meeting:

Clerk's Certificate

I certify that I am Clerk of Council of the City of Fredericksburg, Virginia, and that the foregoing is a true copy of Resolution No. 23-__, adopted at a meeting of the City Council held Date, 2023, at which a quorum was present and voted.

Tonya B. Lacey, MMC
Clerk of Council



MOTION:

**February 28, 2023
Regular Meeting
Ordinance No. 23-__**

SECOND:

RE: Amending the Unified Development Ordinance to repeal the Floodplain Overlay District and adopt the Virginia Department of Conservation and Recreation Model Floodplain Management Ordinance as the City of Fredericksburg Floodplain Overlay District

ACTION: APPROVED: Ayes: 0; Nays: 0

FIRST READ: _____ SECOND READ: _____

Sec. I. Introduction.

The U.S. Federal Emergency Management Agency (FEMA) has updated the maps identifying the Special Flood Hazard Areas of the City, commonly known as the Floodway, 100-year floodplain, and 500-year floodplain for the Rappahannock River, Hazel Run, and their tributaries.

The Virginia Department of Conservation and Recreation (DCR) and FEMA must review a final, adopted, and signed floodplain ordinance meeting their criteria in advance of the April 5, 2023 effective date of the updated Special Flood Hazard Area maps.

The City's current Floodplain Overlay Zoning District was first adopted in 1979, with the last update in 2007.

The current City Floodplain Overlay District ordinance does not meet the minimum requirements of the National Flood Insurance Program. If the ordinance is not amended and adopted to address these deficiencies, submitted to DCR on March 15, and approved by FEMA by April 5, then FEMA will automatically suspend the City from the NFIP.

If suspended, property in the City would become ineligible for flood insurance through the NFIP, new insurance policies cannot be sold, and existing policies cannot be renewed. Under the Flood Disaster Protection Act of 1973, property owners seeking any Federal financial assistance for construction or acquisition of buildings in Special Flood Hazard Areas (SFHAs) must purchase flood insurance. If the City is suspended from the NFIP, federally guaranteed mortgages, direct loans, and disaster relief funds will not be available to property owners, and existing loans and mortgages may be in danger of foreclosure.

The Virginia Department of Conservation and Recreation (DCR) has provided an example ordinance to be used by municipalities to comply with the requirements of the Federal Emergency Management Agency's (FEMA) National Flood Insurance Program regulations.

Sec. II. City Code Amendments.

It is hereby ordained by the Fredericksburg City Council the City Code Chapter 72, "Unified Development Ordinance," is amended as follows:

1. Section 72-34.3, "Floodplain Overlay District," is repealed in its entirety, and the following text is adopted:

72-34.3 Floodplain Overlay District

A. General Provisions

- (1) Statutory Authorization and Purpose. Zoning ordinances shall be for the general purpose of promoting the health, safety, or general welfare of the public (Virginia Code § 15.2-2283) and improve the public health, safety, convenience, and welfare of their citizens (§ 15.2-2200). To these ends, this floodplain ordinance is designed to provide for safety from flood, to facilitate the provision of flood protection, and to protect against loss of life, health, or property from flood. This district is established pursuant to the authority granted to localities (Virginia Code § 15.2 – 2280). The purpose of these provisions is to prevent: the loss of life, health, or property, the creation of health and safety hazards, the disruption of commerce and governmental services, the extraordinary and unnecessary expenditure of public funds for flood protection and relief, and the impairment of the tax base by:
 - (a) Regulating uses, activities, and development which, alone or in combination with other existing or future uses, activities, and development, will cause unacceptable increases in flood heights, velocities, and frequencies;
 - (b) Restricting or prohibiting certain uses, activities, and development from locating within districts subject to flooding;
 - (c) Requiring all those uses, activities, and developments that do occur in flood-prone districts to be protected and/or flood proofed against flooding and flood damage; and,
 - (d) Protecting individuals from buying land and structures which are unsuited for intended purposes because of flood hazards.
- (2) Applicability. These provisions shall apply to all privately and publicly owned lands within the jurisdiction of the City of Fredericksburg and identified as areas of special flood shown on the flood insurance rate map (FIRM) or included in the flood insurance study (FIS) that are provided to the City by FEMA.
- (3) Compliance and Liability

- (a) No land shall hereafter be developed and no structure shall be located, relocated, constructed, reconstructed, enlarged, or structurally altered except in full compliance with the terms and provisions of this ordinance and any other applicable ordinances and regulations which apply to uses within the jurisdiction of this ordinance.
 - (b) The degree of flood protection sought by the provisions of this ordinance is considered reasonable for regulatory purposes and is based on acceptable engineering methods of study, but does not imply total flood protection. Larger floods may occur on rare occasions. Flood heights may be increased by man-made or natural causes, such as ice jams and bridge openings restricted by debris. This ordinance does not imply that districts outside the floodplain district or land uses permitted within such district will be free from flooding or flood damages.
 - (c) This ordinance shall not create liability on the part of the City of Fredericksburg or any officer or employee thereof for any flood damages that result from reliance on this ordinance or any administrative decision lawfully made thereunder.
- (4) Records. Records of actions associated with administering this ordinance shall be kept on file and maintained by or under the direction of the Floodplain Administrator in perpetuity.
- (5) Abrogation and Greater Restrictions. To the extent that the provisions are more restrictive, this ordinance supersedes any ordinance currently in effect in flood-prone districts. To the extent that any other existing law or regulation is more restrictive or does not conflict it shall remain in full force and effect. These regulations are not intended to repeal or abrogate any existing ordinances including subdivision regulations, zoning ordinances, or building codes. In the event of a conflict between these regulations and any other ordinance, the more restrictive shall govern.
- (6) Severability. See City Code § 1-13
- (7) Penalty for Violations. Any person who fails to comply with any of the requirements or provisions of this article or directions of the director of planning or any authorized employee of the City shall be guilty of the appropriate violation and subject to the penalties thereof. The VA USBC addresses building code violations and the associated penalties in Section 104 and Section 115. Violations and associated penalties of the Zoning Ordinance of the City of Fredericksburg are addressed in Article §72-7 of the Unified Development Ordinance. In addition to the above penalties, all other actions are hereby reserved, including an action in equity for the proper enforcement of this article. The imposition of a fine or penalty for any violation of, or noncompliance with, this article shall not excuse the violation or noncompliance or permit it to continue; and all such persons shall be required to correct or remedy such violations within a reasonable time. Any structure constructed, reconstructed, enlarged, altered or relocated in noncompliance with this article may be declared by the City to be a public nuisance and abatable as such.

B. Administration

- (1) Designation of the Floodplain Administrator. The Stormwater Manager is hereby appointed to administer and implement these regulations and is referred to herein as the Floodplain Administrator. The Floodplain Administrator may:
 - (a) RESERVED
 - (b) Delegate duties and responsibilities set forth in these regulations to qualified technical personnel, plan examiners, inspectors, and other employees.
 - (c) Enter into a written agreement or written contract with another community or private sector entity to administer specific provisions of these regulations, subject to applicable approvals. Administration of any part of these regulations by another entity shall not relieve the community of its responsibilities pursuant to the participation requirements of the National Flood Insurance Program as set forth in the Code of Federal Regulations at 44 C.F.R. Section 59.22.
- (2) Duties and Responsibilities of the Floodplain Administrator. The duties and responsibilities of the Floodplain Administrator shall include but are not limited to:
 - (a) Review applications for permits to determine whether proposed activities will be located in the Special Flood Hazard Area (SFHA).
 - (b) Interpret floodplain boundaries and provide available base flood elevation and flood hazard information.
 - (c) Review applications to determine whether proposed activities will be reasonably safe from flooding and require new construction and substantial improvements to meet the requirements of these regulations.
 - (d) Review applications to determine whether all necessary permits have been obtained from the Federal, State, or local agencies from which prior or concurrent approval is required; in particular, permits from state agencies for any construction, reconstruction, repair, or alteration of a dam, reservoir, or waterway obstruction (including bridges, culverts, structures), any alteration of a watercourse, or any change of the course, current, or cross section of a stream or body of water, including any change to the 100-year frequency floodplain of free-flowing non-tidal waters of the State.
 - (e) Verify that applicants proposing an alteration of a watercourse have notified adjacent communities, the Department of Conservation and Recreation (Division of Dam Safety and Floodplain Management), and other appropriate agencies (VADEQ, USACE), and have submitted copies of such notifications to FEMA.

- (f) Advise applicants for new construction or substantial improvement of structures that are located within an area of the Coastal Barrier Resources System established by the Coastal Barrier Resources Act that Federal flood insurance is not available on such structures; areas subject to this limitation are shown on Flood Insurance Rate Maps as Coastal Barrier Resource System Areas (CBRS) or Otherwise Protected Areas (OPA).
- (g) Approve applications and issue permits to develop in flood hazard areas if the provisions of these regulations have been met, or disapprove applications if the provisions of these regulations have not been met.
- (h) Inspect or cause to be inspected, buildings, structures, and other development for which permits have been issued to determine compliance with these regulations or to determine if non-compliance has occurred or violations have been committed.
- (i) Review Elevation Certificates and require incomplete or deficient certificates to be corrected.
- (j) Submit to FEMA, or require applicants to submit to FEMA, data and information necessary to maintain FIRMs, including hydrologic and hydraulic engineering analyses prepared by or for the City, within six months after such data and information becomes available if the analyses indicate changes in base flood elevations.
- (k) Maintain and permanently keep records that are necessary for the administration of these regulations, including:
 - [1] Flood Insurance Studies, Flood Insurance Rate Maps (including historic studies and maps and current effective studies and maps), and Letters of Map Change; and
 - [2] Documentation supporting issuance and denial of permits, Elevation Certificates, documentation of the elevation (in relation to the datum on the FIRM) to which structures have been flood proofed, inspection records, other required design certifications, variances, and records of enforcement actions taken to correct violations of these regulations.
- (l) Enforce the provisions of these regulations, investigate violations, issue notices of violations or stop work orders, and require permit holders to take corrective action.
- (m) Advise the Board of Zoning Appeals regarding the intent of these regulations and, for each application for a variance, prepare a staff report and recommendation.
- (n) Administer the requirements related to proposed work on existing buildings:

- [1] Make determinations as to whether buildings and structures that are located in flood hazard areas and that are damaged by any cause have been substantially damaged.
 - [2] Make reasonable efforts to notify owners of substantially damaged structures of the need to obtain a permit to repair, rehabilitate, or reconstruct. Prohibit the non-compliant repair of substantially damaged buildings except for temporary emergency protective measures necessary to secure a property or stabilize a building or structure to prevent additional damage.
- (o) Undertake, as determined appropriate by the Floodplain Administrator due to the circumstances, other actions which may include but are not limited to: issuing press releases, public service announcements, and other public information materials related to permit requests and repair of damaged structures; coordinating with other Federal, State, and local agencies to assist with substantial damage determinations; providing owners of damaged structures information related to the proper repair of damaged structures in special flood hazard areas; and assisting property owners with documentation necessary to file claims for Increased Cost of Compliance coverage under NFIP flood insurance policies.
- (p) Notify the Federal Emergency Management Agency when the corporate boundaries of the City have been modified and:
- [1] Provide a map that clearly delineates the new corporate boundaries or the new area for which the authority to regulate pursuant to these regulations has either been assumed or relinquished through annexation; and
 - [2] If the FIRM for any annexed area includes special flood hazard areas that have flood zones that have regulatory requirements that are not set forth in these regulations, prepare amendments to these regulations to adopt the FIRM and appropriate requirements, and submit the amendments to the governing body for adoption; such adoption shall take place at the same time as or prior to the date of annexation and a copy of the amended regulations shall be provided to Department of Conservation and Recreation (Division of Dam Safety and Floodplain Management) and FEMA.
- (q) Upon the request of FEMA, complete and submit a report concerning participation in the NFIP which may request information regarding the number of buildings in the SFHA, number of permits issued for development in the SFHA, and number of variances issued for development in the SFHA.
- (r) It is the duty of the Floodplain Administrator to take into account flood, mudslide and flood-related erosion hazards, to the extent that they are known, in all official actions relating to land management and use throughout the entire jurisdictional area of the

City, whether or not those hazards have been specifically delineated geographically (e.g. via mapping or surveying).

(3) Use and Interpretation of FIRMs. The Floodplain Administrator shall make interpretations, where needed, as to the exact location of special flood hazard areas, floodplain boundaries, and floodway boundaries. The following shall apply to the use and interpretation of FIRMs and data:

(a) Where field surveyed topography indicates that adjacent ground elevations:

[1] Are below the base flood elevation in riverine SFHAs, or below the 1% storm surge elevation in coastal SFHAs, even in areas not delineated as a special flood hazard area on a FIRM, the area shall be considered as special flood hazard area and subject to the requirements of these regulations;

[2] Are above the base flood elevation and the area is labelled as a SFHA on the FIRM, the area shall be regulated as special flood hazard area unless the applicant obtains a Letter of Map Change that removes the area from the SFHA.

(b) In FEMA-identified special flood hazard areas where base flood elevation and floodway data have not been identified and in areas where FEMA has not identified SFHAs, any other flood hazard data available from a Federal, State, or other source shall be reviewed and reasonably used.

(c) Base flood elevations and designated floodway boundaries on FIRMs and in FISs shall take precedence over base flood elevations and floodway boundaries by any other sources if such sources show reduced floodway widths and/or lower base flood elevations.

(d) Other sources of data shall be reasonably used if such sources show increased base flood elevations and/or larger floodway areas than are shown on FIRMs and in FISs.

(e) If a Preliminary Flood Insurance Rate Map and/or a Preliminary Flood Insurance Study has been provided by FEMA:

[1] Upon the issuance of a Letter of Final Determination by FEMA, the preliminary flood hazard data shall be used and shall replace the flood hazard data previously provided from FEMA for the purposes of administering these regulations.

[2] Prior to the issuance of a Letter of Final Determination by FEMA, the use of preliminary flood hazard data shall be deemed the best available data pursuant to Section C(1)(a)[3] and used where no base flood elevations and/or floodway areas are provided on the effective FIRM.

[3] Prior to issuance of a Letter of Final Determination by FEMA, the use of preliminary flood hazard data is permitted where the preliminary base flood elevations or floodway areas exceed the base flood elevations and/or designated floodway widths in existing flood hazard data provided by FEMA. Such preliminary data may be subject to change and/or appeal to FEMA.

(4) RESERVED

(5) District Boundary Changes. The delineation of any of the Floodplain Districts may be revised by the City Council where natural or man-made changes have occurred and/or where more detailed studies have been conducted or undertaken by the U. S. Army Corps of Engineers or other qualified agency, or an individual documents the need for such change. However, prior to any such change, approval must be obtained from the Federal Emergency Management Agency. A completed LOMR is a record of this approval.

(6) Interpretation of District Boundaries. The Zoning Administrator, in consultation with the Floodplain Administrator, is authorized to interpret the boundaries of the flood hazard overlay district, subject to any aggrieved person's right to appeal any decision, determination or order to the board of zoning appeals as provided in §72-22.8.

(7) RESERVED

(8) Letters of Map Revision. When development in the floodplain will cause or causes a change in the base flood elevation, the applicant, including state agencies, must notify FEMA by applying for a Conditional Letter of Map Revision and then a Letter of Map Revision.

C. Establishment of Flood Hazard Zoning Districts

(1) Description of Special Flood Hazard Districts

(a) Basis of Districts. The various special flood hazard districts shall include the Special Flood Hazard Areas (SFHAs). The basis for the delineation of these districts shall be the FIS and the FIRM for the City of Fredericksburg prepared by the Federal Emergency Management Agency, Federal Insurance Administration, dated April 5th, 2023, and any subsequent revisions or amendments thereto. The City may identify and regulate local flood hazard or ponding areas that are not delineated on the FIRM. These areas may be delineated on a "Local Flood Hazard Map" using best available topographic data and locally derived information such as flood of record, historic high water marks, or approximate study methodologies. The boundaries of the SFHA Districts are established as shown on the FIRM which is declared to be a part of this ordinance and which shall be kept on file at the office of the Floodplain Administrator.

[1] The **Floodway District** is in an **AE Zone** and is delineated, for purposes of this ordinance, using the criterion that certain areas within the floodplain must be capable of carrying the waters of the one percent annual chance flood without increasing the water surface elevation of that flood more than one (1) foot at any point. The areas included in this District are specifically defined in Table 2 of the above-referenced FIS and shown on the accompanying FIRM. The following provisions shall apply within the Floodway District of an AE zone:

[a] Within any floodway area, no encroachments, including fill, new construction, substantial improvements, or other development shall be permitted unless it has been demonstrated through hydrologic and hydraulic analysis performed in accordance with standard engineering practice that the proposed encroachment will not result in any increase in flood levels within the community during the occurrence of the base flood discharge. Hydrologic and hydraulic analyses shall be undertaken only by professional engineers or others of demonstrated qualifications, who shall certify that the technical methods used correctly reflect currently-accepted technical concepts. Studies, analyses, computations, etc., shall be submitted in sufficient detail to allow a thorough review by the Floodplain Administrator. Development activities which increase the water surface elevation of the base flood may be allowed, provided that the applicant first applies – with the City’s endorsement – for a Conditional Letter of Map Revision (CLOMR), and receives the approval of the Federal Emergency Management Agency. If Article III, Section 3.1.A.1.a is satisfied, all new construction and substantial improvements shall comply with all applicable flood hazard reduction provisions of Article 4.

[b] The placement of manufactured homes (mobile homes) is prohibited, except in an existing manufactured home (mobile 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, elevation, and encroachment standards are met.

[2] The **AE, or AH Zones** on the FIRM accompanying the FIS shall be those areas for which one-percent annual chance flood elevations have been provided and the floodway has **not** been delineated. The following provisions shall apply within an AE or AH zone [44 CFR 60.3(c)] where FEMA has provided base flood elevations:

Until a regulatory floodway is designated, no new construction, substantial improvements, or other development (including fill) shall be permitted within the areas of special flood hazard, designated as Zones A1-30, AE, or AH on the FIRM, unless it is demonstrated that the cumulative effect of the proposed development, when combined with all other existing and anticipated development, will not increase the water surface elevation of the base flood more than one foot at any point within the City.

Development activities in Zones A1-30, AE, or AH on the City's FIRM which increase water surface elevation of the base flood by more than one foot may be allowed, provided that the applicant first applies – with the City's endorsement – for a Conditional Letter of Map Revision, and receives the approval of the Federal Emergency Management Agency.

[3] The **A Zone** on the FIRM accompanying the FIS shall be those areas for which no detailed flood profiles or elevations are provided, but the one percent annual chance floodplain boundary has been approximated. For these areas, the following provisions shall apply [44 CFR 60.3(b)]:

[a] The Approximated Floodplain District shall be that floodplain area for which no detailed flood profiles or elevations are provided, but where a one percent annual chance floodplain boundary has been approximated. Such areas are shown as Zone A on the maps accompanying the FIS. For these areas, the base flood elevations and floodway information from Federal, State, and other acceptable sources shall be used, when available. Where the specific one percent annual chance flood elevation cannot be determined for this area using other sources of data, such as the U. S. Army Corps of Engineers Floodplain Information Reports, U. S. Geological Survey Flood-Prone Quadrangles, etc., then the applicant for the proposed use, development and/or activity shall determine this base flood elevation. For development proposed in the approximate floodplain the applicant must use technical methods that correctly reflect currently accepted practices, such as point on boundary, high water marks, or detailed methodologies hydrologic and hydraulic analyses. Studies, analyses, computations, etc., shall be submitted in sufficient detail to allow a thorough review by the Floodplain Administrator.

[b] The Floodplain Administrator reserves the right to require a hydrologic and hydraulic analysis for any development. When such base flood elevation data is utilized, the lowest floor shall be elevated to or above the base flood level 1.5 feet.

[c] During the permitting process, the Floodplain Administrator shall obtain:

- (i) The elevation of the lowest floor (in relation to mean sea level), including the basement, of all new and substantially improved structures; and,
- (ii) If the structure has been flood proofed in accordance with the requirements of this article, the elevation (in relation to mean sea level) to which the structure has been flood proofed.

[d] Base flood elevation data shall be obtained from other sources or developed

using detailed methodologies comparable to those contained in a FIS for subdivision proposals and other proposed development proposals (including manufactured home parks and subdivisions) that exceed fifty lots or five acres, whichever is the lesser.

[4] RESERVED

[5] The **Coastal A Zone** is labelled as AE on the FIRM; it is those areas that are seaward of the limit of moderate wave action (LiMWA) line. As defined by the VA USBC, these areas are subject to wave heights between 1.5 feet and 3 feet. For these areas, the following provisions shall apply:

[a] Buildings and structures within this zone shall have the lowest floor elevated to or above the base flood elevation plus 1.5 feet of freeboard, and must comply with the provisions in Article III, Section 3.1.A.2 and Article IV, Sections 4.2 and 4.3.

[6] The **VE or V Zones** on FIRMs accompanying the FIS shall be those areas that are known as Coastal High Hazard areas, extending from offshore to the inland limit of a primary frontal dune along an open coast or other areas subject to high velocity waves. For these areas, the following provisions shall apply [44 CFR 60.3(e)]:

[a] All new construction and substantial improvements in Zones V and VE, including manufactured homes, shall be elevated on pilings or columns so that:

(i) The bottom of the lowest horizontal structural member of the lowest floor (excluding the pilings or columns) is elevated to or above the base flood level plus 1.5 feet. If the lowest horizontal structural member is parallel to the direction of wave approach or elevated at least two feet above the base flood level if the lowest horizontal structural member is perpendicular to the direction of wave approach; and,

(ii) The pile or column foundation and structure attached thereto is anchored to resist flotation, collapse, and lateral movement due to the effects of wind and water loads acting simultaneously on all building components. Wind and water loading values shall each have a one percent chance of being equaled or exceeded in any given year (one-percent annual chance).

[b] A registered professional engineer or architect shall develop or review the structural design, specifications and plans for the construction, and shall certify that the design and methods of construction to be used are in accordance with accepted standards of practice for meeting the provisions of

Article III, Section A.6.a.

- [c] The Floodplain Administrator shall obtain the elevation (in relation to mean sea level) of the bottom of the lowest horizontal structural member of the lowest floor (excluding pilings and columns) of all new and substantially improved structures in Zones V and VE. The Floodplain Management Administrator shall maintain a record of all such information.
- [d] All new construction shall be located landward of the reach of mean high tide.
- [e] All new construction and substantial improvements shall have the space below the lowest floor either free of obstruction¹ or constructed with non-supporting breakaway walls, open wood-lattice work, or insect screening intended to collapse under wind and water loads without causing collapse, displacement, or other structural damage to the elevated portion of the building or supporting foundation system. For the purpose of this Section, a breakaway wall shall have a design safe loading resistance of not less than 10 and no more than 20 pounds per square foot. Use of breakaway walls which exceed a design safe loading resistance of 20 pounds per square foot (either by design or when so required by local codes) may be permitted only if a registered professional engineer or architect certifies that the designs proposed meet the following conditions:
- (i) Breakaway wall collapse shall result from water load less than that which would occur during the base flood; and
 - (ii) The elevated portion of the building and supporting foundation system shall not be subject to collapse, displacement, or other structural damage due to the effects of wind and water loads acting simultaneously on all building components (structural and nonstructural). Maximum wind and water loading values to be used in this determination shall each have a one percent chance of being equaled or exceeded in any given year.
- [f] The enclosed space below the lowest floor shall be used solely for parking of vehicles, building access, or storage. Such space shall not be partitioned into multiple rooms, temperature-controlled, or used for human habitation.
- [g] The use of fill for structural support of buildings is prohibited. When non-structural fill is proposed in a coastal high hazard area, appropriate engineering analyses shall be conducted to evaluate the impacts of the fill prior to issuance of a permit.
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[h] The man-made alteration of sand dunes, which would increase potential flood damage, is prohibited.

2. Overlay Concept. The Floodplain Districts described above shall be overlays to the existing underlying districts as shown on the Official Zoning Ordinance Map, and as such, the provisions for the floodplain districts shall serve as a supplement to the underlying district provisions. If there is any conflict between the provisions or requirements of the Floodplain Districts and those of any underlying district, the more restrictive provisions and/or those pertaining to the floodplain districts shall apply.

D. District Provisions

(1) Permit and Application Requirements

(a) Permit Requirement. All uses, activities, and development occurring within any floodplain district, including placement of manufactured homes, shall be undertaken only upon the issuance of a permit. Such development shall be undertaken only in strict compliance with the provisions of this Ordinance and with all other applicable codes and ordinances, as amended, such as the Virginia Uniform State-wide Building Code (VA USBC) and the City's Subdivision Regulations. Prior to the issuance of any such permit, the Floodplain Administrator shall require all applications to include compliance with all applicable State and Federal laws and shall review all sites to assure they are reasonably safe from flooding. Under no circumstances shall any use, activity, and/or development adversely affect the capacity of the channels or flood ways of any watercourse, drainage ditch, or any other drainage facility or system.

(b) Site Plans and Permit Applications. All applications for development within any floodplain district and all permits issued for the floodplain shall incorporate the following information:

[1] The elevation of the Base Flood at the site.

[2] For structures to be elevated, the elevation of the lowest floor (including basement) or, in V zones, the lowest horizontal structural member.

[3] For structures to be flood proofed (non-residential only), the elevation to which the structure will be flood proofed.

[4] Topographic information showing existing and proposed ground elevations.

(2) General Standards. The following provisions shall apply to all permits:

(a) New construction and substantial improvements shall be built according to this ordinance and the VA USBC, and anchored to prevent flotation, collapse, or lateral

- movement of the structure.
- (b) Manufactured homes shall be anchored to prevent flotation, collapse, or lateral movement. Methods of anchoring may include, but are not limited to, use of over-the-top or frame ties to ground anchors. This standard shall be in addition to and consistent with applicable state anchoring requirements for resisting wind forces.
 - (c) New construction and substantial improvements shall be constructed with materials and utility equipment resistant to flood damage.
 - (d) New construction or substantial improvements shall be constructed by methods and practices that minimize flood damage.
 - (e) Electrical, heating, ventilation, plumbing, air conditioning equipment, and other service facilities, including duct work, shall be designed and/or located so as to prevent water from entering or accumulating within the components during conditions of flooding.
 - (f) New and replacement water supply systems shall be designed to minimize or eliminate infiltration of flood waters into the system.
 - (g) New and replacement sanitary sewage systems shall be designed to minimize or eliminate infiltration of flood waters into the systems and discharges from the systems into flood waters.
 - (h) On-site waste disposal systems shall be located and constructed to avoid impairment to them or contamination from them during flooding.

In addition to provisions A – H above, in all special flood hazard areas, the additional provisions shall apply:

- (i) Prior to any proposed alteration or relocation of any channels or of any watercourse, stream, etc., within this jurisdiction a permit shall be obtained from the U. S. Corps of Engineers, the Virginia Department of Environmental Quality, and the Virginia Marine Resources Commission (a joint permit application is available from any of these organizations). Furthermore, in riverine areas, notification of the proposal shall be given by the applicant to all affected adjacent jurisdictions, the Department of Conservation and Recreation (Division of Dam Safety and Floodplain Management), other required agencies, and the Federal Emergency Management Agency.
 - (j) The flood carrying capacity within an altered or relocated portion of any watercourse shall be maintained.
- (3) Elevation and Construction Standards. In all identified flood hazard areas where base

flood elevations have been provided in the FIS or generated by a certified professional in accordance with Article III, Section 3.1.A.3 the following provisions shall apply:

(a) Residential Construction. New construction or substantial improvement of any residential structure (including manufactured homes) in Zones A1-30, AE, AH, and A with detailed base flood elevations shall have the lowest floor, including basement, elevated to or above the base flood level plus 1.5 feet. See Article III, Section 3.1.A.5 and Article III, Section 3.1.A.6 for requirements in the Coastal A, VE, and V zones.

(b) Non-Residential Construction

[1] New construction or substantial improvement of any commercial, industrial, or non-residential building (or manufactured home) shall have the lowest floor, including basement, elevated to or above the base flood level plus 1.5 feet. See Article III, Section 3.1.A.5 and Article III, Section 3.1.A.6 for requirements in the Coastal A, VE, and V zones.

[2] Non-residential buildings located in all A1-30, AE, and AH zones may be flood proofed in lieu of being elevated provided that all areas of the building components below the elevation corresponding to the BFE plus 1.5 feet are water tight with walls substantially impermeable to the passage of water, and use 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 certification, including the specific elevation (in relation to mean sea level) to which such structures are flood proofed, shall be maintained by the Floodplain Administrator.

(c) Space Below the Lowest Floor. In zones A, AE, AH, and A1-A30, fully enclosed areas, of new construction or substantially improved structures, which are below the regulatory flood protection elevation shall:

[1] Not be designed or used for human habitation, but shall be used solely for parking of vehicles, building access, or limited storage of maintenance equipment used in connection with the premises. Access to the enclosed area shall be the minimum necessary to allow for parking of vehicles (garage door) or limited storage of maintenance equipment (standard exterior door), or entry to the living area (stairway or elevator).

[2] Be constructed entirely of flood resistant materials below the regulatory flood protection elevation;

[3] Include measures to automatically equalize hydrostatic flood forces on walls by allowing for the entry and exit of floodwaters. To meet this requirement, the

openings must either be certified by a professional engineer or architect or meet the following minimum design criteria:

- [a] Provide a minimum of two openings on different sides of each enclosed area subject to flooding.
 - [b] The total net area of all openings must be at least one (1) square inch for each square foot of enclosed area subject to flooding.
 - [c] If a building has more than one enclosed area, each area must have openings to allow floodwaters to automatically enter and exit.
 - [d] The bottom of all required openings shall be no higher than one (1) foot above the adjacent grade.
 - [e] Openings may be equipped with screens, louvers, or other opening coverings or devices, provided they permit the automatic flow of floodwaters in both directions.
 - [f] Foundation enclosures made of flexible skirting are not considered enclosures for regulatory purposes, and, therefore, do not require openings. Masonry or wood underpinning, regardless of structural status, is considered an enclosure and requires openings as outlined above.
- (d) Accessory Structures. Accessory structures in the SFHA shall comply with the elevation requirements and other requirements of Article IV, Section 4.3.B or, if not elevated or dry flood proofed, shall:
- (1) Not be used for human habitation;
 - (2) Be limited to no more than 600 square feet in total floor area;
 - (3) Be useable only for parking of vehicles or limited storage;
 - (4) Be constructed with flood damage-resistant materials below the base flood elevation;
 - (5) Be constructed and placed to offer the minimum resistance to the flow of floodwaters;
 - (6) Be anchored to prevent flotation;
 - (7) Have electrical service and mechanical equipment elevated to or above the base flood elevation;

(8) Shall be provided with flood openings which shall meet the following criteria:

- [a] There shall be a minimum of two flood openings on different sides of each enclosed area; if a building has more than one enclosure below the lowest floor, each such enclosure shall have flood openings on exterior walls.
- [b] The total net area of all flood openings shall be at least 1 square inch for each square foot of enclosed area (non-engineered flood openings), or the flood openings shall be engineered flood openings that are designed and certified by a licensed professional engineer to automatically allow entry and exit of floodwaters; the certification requirement may be satisfied by an individual certification or an Evaluation Report issued by the ICC Evaluation Service, Inc.
- [c] The bottom of each flood opening shall be 1 foot or less above the higher of the interior floor or grade, or the exterior grade, immediately below the opening.
- [d] Any louvers, screens or other covers for the flood openings shall allow the automatic flow of floodwaters into and out of the enclosed area.

(e) Standards for Manufactured Homes and Recreational Vehicles

[1] In zones A, AE, and AH all manufactured homes placed, or substantially improved, on individual lots or parcels, must meet all the requirements for new construction, including the elevation and anchoring requirements in Article III, Section 3.1.A.6 and Article IV, Sections 4.2 and 4.3.

[2] All recreational vehicles placed on sites must either:

- [a] Be on the site for fewer than 180 consecutive days, be fully licensed and ready for highway use (a recreational vehicle is ready for highway use if it is on its wheels or jacking system, is attached to the site only by quick disconnect type utilities and security devices and has no permanently attached additions); or
- [b] Meet all the requirements for manufactured homes in Section D(3)(e)[1].

(4) Standards for Subdivision Proposals

- (a) All subdivision proposals shall be consistent with the need to minimize flood damage;
- (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;

- (c) All subdivision proposals shall have adequate drainage provided to reduce exposure to flood hazards, and
 - (d) Base flood elevation data shall be obtained from other sources or developed using detailed methodologies, hydraulic and hydrologic analysis, comparable to those contained in a Flood Insurance Study for subdivision proposals and other proposed development proposals (including manufactured home parks and subdivisions) that exceed fifty lots or five acres, whichever is the lesser.
- E. Existing Structures in Floodplain Areas. Any structure or use of a structure or premises which lawfully existed before February 28, 2023, must be brought into conformity with these provisions when it is changed, repaired, or improved unless one of the following exceptions is established before the change is made:
- (1) The floodplain manager has determined that:
 - (a) Change is not a substantial repair or substantial improvement AND
 - (b) No new square footage is being built in the floodplain that is not complaint AND
 - (c) No new square footage is being built in the floodway AND
 - (d) The change complies with this ordinance and the VA USBC AND
 - (e) The change, when added to all the changes made during a rolling 5-year period does not constitute 50% of the structure's value.
 - (2) The changes are required to comply with a citation for a health or safety violation.
 - (3) The structure is a historic structure and the change required would impair the historic nature of the structure.
- F. Variances: Factors to be considered
- (1) Variances shall be issued only upon (i) a showing of good and sufficient cause, (ii) after the Board of Zoning Appeals has determined that failure to grant the variance would result in exceptional hardship to the applicant, and (iii) after the Board of Zoning Appeals has determined that the granting of such variance will not result in (a) unacceptable or prohibited increases in flood heights, (b) additional threats to public safety, (c) extraordinary public expense; and will not (d) create nuisances, (e) cause fraud or victimization of the public, or (f) conflict with local laws or ordinances.
 - (2) While the granting of variances generally is limited to a lot size less than one-half acre, deviations from that limitation may occur. However, as the lot size increases beyond one-

half acre, the technical justification required for issuing a variance increases. Variances may be issued by the Board of Zoning Appeals for new construction and substantial improvements to be erected on a lot of one-half acre or less in size contiguous to and surrounded by lots with existing structures constructed below the base flood level, in conformance with the provisions of this Section.

- (3) Variances may be issued for new construction and substantial improvements and for other development necessary for the conduct of a functionally dependent use provided that the criteria of this Section are met, and the structure or other development is protected by methods that minimize flood damages during the base flood and create no additional threats to public safety.
- (4) In passing upon applications for variances, the Board of Zoning Appeals shall satisfy all relevant factors and procedures specified in other sections of the zoning ordinance and consider the following additional factors:
 - (a) The danger to life and property due to increased flood heights or velocities caused by encroachments. No variance shall be granted for any proposed use, development, or activity within any Floodway District that will cause any increase in the one percent (1%) chance flood elevation.
 - (b) The danger that materials may be swept on to other lands or downstream to the injury of others.
 - (c) The proposed water supply and sanitation systems and the ability of these systems to prevent disease, contamination, and unsanitary conditions.
 - (d) The susceptibility of the proposed facility and its contents to flood damage and the effect of such damage on the individual owners.
 - (e) The importance of the services provided by the proposed facility to the community.
 - (f) The requirements of the facility for a waterfront location.
 - (g) The availability of alternative locations not subject to flooding for the proposed use.
 - (h) The compatibility of the proposed use with existing development and development anticipated in the foreseeable future.
 - (i) The relationship of the proposed use to the comprehensive plan and floodplain management program for the area.
 - (j) The safety of access by ordinary and emergency vehicles to the property in time of flood.

- (k) The expected heights, velocity, duration, rate of rise, and sediment transport of the flood waters expected at the site.
 - (l) The historic nature of a structure. Variances for repair or rehabilitation of historic structures may be granted upon a 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.
 - (m) No variance shall be granted for an accessory structure exceeding 600 square feet.
(Note: See Section D(3)(d))
 - (n) Such other factors which are relevant to the purposes of this Ordinance.
- (5) The Board of Zoning Appeals may refer any application and accompanying documentation pertaining to any request for a variance to any engineer or other qualified person or agency for technical assistance in evaluating the proposed project in relation to flood heights and velocities, and the adequacy of the plans for flood protection and other related matters.
 - (6) Variances shall be issued only after the Board of Zoning Appeals has determined that the granting of such will not result in (a) unacceptable or prohibited increases in flood heights, (b) additional threats to public safety, (c) extraordinary public expense; and will not (d) create nuisances, (e) cause fraud or victimization of the public, or (f) conflict with local laws or ordinances.
 - (7) Variances shall be issued only after the Board of Zoning Appeals has determined that the variance will be the minimum required to provide relief.
 - (8) The Board of Zoning Appeals shall notify the applicant for a variance, in writing that the issuance of a variance to construct a structure below the one percent (1%) chance flood elevation (a) increases the risks to life and property and (b) will result in increased premium rates for flood insurance.
 - (9) A record shall be maintained of the above notification as well as all variance actions, including justification for the issuance of the variances. Any variances that are issued shall be noted in the annual or biennial report submitted to the Federal Insurance Administrator.

G. Defined Terms

APPURTENANT OR ACCESSORY STRUCTURE - A non-residential structure which is on the same parcel of property as the principal structure and the use of which is incidental to the use of

the principal structure. Accessory structures are not to exceed 600 square feet.

BASE FLOOD - The flood having a one percent chance of being equalled or exceeded in any given year.

BASE FLOOD ELEVATION - The water surface elevations of the base flood, that is, the flood level that has a one percent or greater chance of occurrence in any given year. The water surface elevation of the base flood in relation to the datum specified on the community's Flood Insurance Rate Map. For the purposes of this ordinance, the base flood is the 1% annual chance flood.

BASEMENT - Any area of the building having its floor sub-grade (below ground level) on all sides.

BOARD OF ZONING APPEALS - The board appointed to review appeals made by individuals with regard to decisions of the Zoning Administrator in the interpretation of this ordinance.

COASTAL A ZONE - Flood hazard areas that have been delineated as subject to wave heights between 1.5 feet and 3 feet.

DEVELOPMENT - Any man-made change to improved or unimproved real estate, including, but not limited to, buildings or other structures, temporary structures, mining, dredging, filling, grading, paving, excavation, drilling or other land-disturbing activities or permanent or temporary storage of equipment or materials.

ELEVATED BUILDING - A non-basement building built to have the lowest floor elevated above the ground level by means of solid foundation perimeter walls, pilings, or columns (posts and piers).

ENCROACHMENT - The advance or infringement of uses, plant growth, fill, excavation, buildings, permanent structures or development into a floodplain, which may impede or alter the flow capacity of a floodplain.

EXISTING CONSTRUCTION - For the purposes of the insurance program, structures for which the "start of construction" commenced before the effective date of the FIRM or before January 1, 1975 for FIRMs effective before that date. "Existing construction" may also be referred to as "existing structures" and "pre-FIRM."

FLOOD OR FLOODING -

1. A general or temporary condition of partial or complete inundation of normally dry land areas from:
 - a. The overflow of inland or tidal waters; or,
 - b. The unusual and rapid accumulation or runoff of surface waters from any source.
 - c. Mudflows which are proximately caused by flooding as defined in paragraph (1)(b) of

- this definition and are akin to a river of liquid and flowing mud on the surfaces of normally dry land areas, as when earth is carried by a current of water and deposited along the path of the current.
2. The collapse or subsidence of land along the shore of a lake or other body of water as a result of erosion or undermining caused by waves or currents of water exceeding anticipated cyclical levels or suddenly caused by an unusually high water level in a natural body of water, accompanied by a severe storm, or by an unanticipated force of nature such as flash flood or an abnormal tidal surge, or by some similarly unusual and unforeseeable event which results in flooding as defined in paragraph 1 (a) of this definition.

FLOOD INSURANCE RATE MAP (FIRM) - an official map of a community, on which the Federal Emergency Management Agency has delineated both the special hazard areas and the risk premium zones applicable to the community. A FIRM that has been made available digitally is called a Digital Flood Insurance Rate Map (DFIRM).

FLOOD INSURANCE STUDY (FIS) - a report by FEMA that examines, evaluates and determines flood hazards and, if appropriate, corresponding water surface elevations, or an examination, evaluation and determination of mudflow and/or flood-related erosion hazards.

FLOODPLAIN OR FLOOD-PRONE AREA - Any land area susceptible to being inundated by water from any source.

FLOOD PROOFING - any combination of structural and non-structural additions, changes, or adjustments to structures which reduce or eliminate flood damage to real estate or improved real property, water and sanitary facilities, structures and their contents.

FLOODWAY - The channel of a river or other watercourse and the adjacent land areas that must be reserved in order to discharge the base flood without cumulatively increasing the water surface elevation more than one foot at any point within the community.

FREEBOARD - A factor of safety usually expressed in feet above a flood level for purposes of floodplain 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 floodway conditions, such as wave action, bridge openings, and the hydrological effect of urbanization in the watershed.

FUNCTIONALLY DEPENDENT USE - A use which cannot perform its intended purpose unless it is located or carried out in close proximity to water. This term includes only docking facilities, port facilities that are necessary for the loading and unloading of cargo or passengers, and shipbuilding and ship repair facilities, but does not include long-term storage or related manufacturing facilities.

HIGHEST ADJACENT GRADE - the highest natural elevation of the ground surface prior to

construction next to the proposed walls of a structure.

HISTORIC STRUCTURE - Any structure that is:

1. Listed individually in the National Register of Historic Places (a listing maintained by the Department of Interior) or preliminarily determined by the Secretary of the Interior as meeting the requirements for individual listing on the National Register;
2. 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;
3. Individually listed on a state inventory of historic places in states with historic preservation programs which have been approved by the Secretary of the Interior; or,
4. Individually listed on a local inventory of historic places in communities with historic preservation programs that have been certified either:
 - a. By an approved state program as determined by the Secretary of the Interior; or,
 - b. Directly by the Secretary of the Interior in states without approved programs.

HYDROLOGIC AND HYDRAULIC ENGINEERING ANALYSIS - Analyses performed by a licensed professional engineer, in accordance with standard engineering practices that are accepted by the Virginia Department of Conservation and Recreation and FEMA, used to determine the base flood, other frequency floods, flood elevations, floodway information and boundaries, and flood profiles.

LETTERS OF MAP CHANGE (LOMC) - A Letter of Map Change is an official FEMA determination, by letter, that amends or revises an effective Flood Insurance Rate Map or Flood Insurance Study. Letters of Map Change include:

LETTER OF MAP AMENDMENT (LOMA) - An amendment based on technical data showing that a property was incorrectly included in a designated special flood hazard area. A LOMA amends the current effective Flood Insurance Rate Map and establishes that a land as defined by meets and bounds or structure is not located in a special flood hazard area.

LETTER OF MAP REVISION (LOMR) - A revision based on technical data that may show changes to flood zones, flood elevations, floodplain and floodway delineations, and planimetric features. A Letter of Map Revision Based on Fill (LOMR-F), is a determination that a structure or parcel of land has been elevated by fill above the base flood elevation and is, therefore, no longer exposed to flooding associated with the base flood. In order to qualify for this determination, the fill must have been permitted and placed in accordance with the community's floodplain management regulations.

CONDITIONAL LETTER OF MAP REVISION (CLOMR) - A formal review and comment as to whether a proposed flood protection project or other project complies with the minimum NFIP requirements for such projects with respect to delineation of special flood hazard areas. A CLOMR does not revise the effective Flood Insurance Rate Map or Flood Insurance Study.

LOWEST ADJACENT GRADE - the lowest natural elevation of the ground surface next to the walls of a structure.

LOWEST FLOOR - The lowest floor of the lowest enclosed area (including basement). An unfinished or flood-resistant enclosure, usable solely for parking of vehicles, building access or storage in an area other than a basement area is not considered a building's lowest floor; provided, that such enclosure is not built so as to render the structure in violation of the applicable non-elevation design requirements of Federal Code 44CFR §60.3.

MANUFACTURED HOME - A structure, transportable in one or more sections, which is built on a permanent chassis and is designed for use with or without a permanent foundation when connected to the required utilities. For floodplain management purposes the term "manufactured home" also includes park trailers, travel trailers, and other similar vehicles placed on a site for greater than 180 consecutive days.

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 – for purposes of the National Flood Insurance Program, the National Geodetic Vertical Datum (NGVD) of 1929 or the North American Vertical Datum (NAVD) of 1988 to which base flood elevations shown on a community's FIRM are referenced.

NEW CONSTRUCTION - For the purposes of determining insurance rates, structures for which the "start of construction" commenced on or after June 12, 1979 and includes any subsequent improvements to such structures. For floodplain management purposes, new construction means structures for which the start of construction commenced on or after the effective date of a floodplain management regulation adopted by a community and includes any subsequent improvements to such structures.

POST-FIRM STRUCTURES - A structure for which construction or substantial improvement occurred on or after June 12, 1979

PRE-FIRM STRUCTURES - A structure for which construction or substantial improvement occurred before June 12, 1979

PRIMARY FRONTAL DUNE - a continuous or nearly continuous mound or ridge of sand with relatively steep seaward and landward slopes immediately landward and adjacent to the beach and subject to erosion and overtopping from high tides and waves during major coastal storms.

RECREATIONAL VEHICLE - A vehicle which is:

1. Built on a single chassis;
2. 400 square feet or less when measured at the largest horizontal projection;
3. Designed to be self-propelled or permanently towable by a light duty truck; and,

4. Designed primarily not for use as a permanent dwelling but as temporary living quarters for recreational camping, travel, or seasonal use.

REPETITIVE LOSS STRUCTURE - A building covered by a contract for flood insurance that has incurred flood-related damages on two occasions in a 10-year period, in which the cost of the repair, on the average, equalled or exceeded 25 percent of the market value of the structure at the time of each such flood event; and at the time of the second incidence of flood-related damage, the contract for flood insurance contains increased cost of compliance coverage.

SEVERE REPETITIVE LOSS STRUCTURE - a structure that: (a) Is covered under a contract for flood insurance made available under the NFIP; and (b) Has incurred flood related damage - (i) For which 4 or more separate claims payments have been made under flood insurance coverage with the amount of each such claim exceeding \$5,000, and with the cumulative amount of such claims payments exceeding \$20,000; or (ii) For which at least 2 separate claims payments have been made under such coverage, with the cumulative amount of such claims exceeding the market value of the insured structure.

SHALLOW FLOODING AREA - A special flood hazard area with base flood depths from 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. Such flooding is characterized by ponding or sheet flow.

SPECIAL FLOOD HAZARD AREA - The land in the floodplain subject to a one (1%) percent or greater chance of being flooded in any given year as determined in Article 3, Section 3.1 of this ordinance.

START OF CONSTRUCTION - For other than new construction and substantial improvement, under the Coastal Barriers Resource Act (P.L. – 97-348), means the date the building permit was issued, provided the actual start of construction, repair, reconstruction, rehabilitation, addition, placement, substantial improvement or other improvement was within 180 days of the permit date. The actual start means either the first placement of permanent construction of a structure on a site, such as the pouring of slab or footings, the installation of piles, the construction of columns, or any work beyond the stage of excavation; or the placement of a manufactured home on a foundation. Permanent construction does not include land preparation, such as clearing, grading and filling; nor does it include the installation of streets and/or walkways; nor does it include excavation for a basement, 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 the construction means the first alteration of any wall, ceiling, floor, or other structural part of a building, whether or not that alteration affects the external dimensions of the building.

STRUCTURE - for floodplain management purposes, a walled and roofed building, including a gas or liquid storage tank, that is principally above ground, as well as a manufactured home.

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 before the damage occurred. It also means flood-related damages sustained by a structure on two occasions in a 10-year period, in which the cost of the repair, on the average, equals or exceeds 25 percent of the market value of the structure at the time of each such flood event.

SUBSTANTIAL IMPROVEMENT - Any reconstruction, rehabilitation, addition, or other improvement of a structure, the cost of which equals or exceeds 50 percent of the market value of the structure before the start of construction of the improvement. The term does not, however, include either:

1. Any project for improvement of a structure to correct existing violations of state or local health, sanitary, or safety code specifications which have been identified by the local code enforcement official and which are the minimum necessary to assure safe living conditions, or
2. Any alteration of a historic structure, provided that the alteration will not preclude the structure's continued designation as a historic structure.
3. Historic structures undergoing repair or rehabilitation that would constitute a substantial improvement as defined above, must comply with all ordinance requirements that do not preclude the structure's continued designation as a historic structure. Documentation that a specific ordinance requirement will cause removal of the structure from the National Register of Historic Places or the State Inventory of Historic places must be obtained from the Secretary of the Interior or the State Historic Preservation Officer. Any exemption from ordinance requirements will be the minimum necessary to preserve the historic character and design of the structure.

VIOLATION - the failure of a structure or other development to be fully compliant with the community's floodplain management regulations. A structure or other development without the elevation certificate, other certifications, or other evidence of compliance required in this ordinance is presumed to be in violation until such time as that documentation is provided.

WATERCOURSE - A lake, river, creek, stream, wash, channel or other topographic feature on or over which waters flow at least periodically. Watercourse includes specifically designated areas in which substantial flood damage may occur.

2. City Code §72-62.1, "Generally," is amended to update the cross-reference in subsection (D).
3. City Code §72-63.6, "Floodplain Overlay District," is amended to update the cross reference in this section.

4. City Code §72-84.0, "Definitions," is amended by repealing the definition of "NEW CONSTRUCTION."

Sec. III. Effective date.

This ordinance is effective immediately.

Votes:

Ayes:

Nays:

Absent from Vote:

Absent from Meeting:

Approved as to form:

Kathleen Dooley, City Attorney

Clerk's Certificate

I, the undersigned, certify that I am Clerk of Council of the City of Fredericksburg, Virginia, and that the foregoing is a true copy of Ordinance No. 23-__ duly adopted at a meeting of the City Council meeting held Date, 2023 at which a quorum was present and voted.

***Tonya B. Lacey, MMC
Clerk of Council***



FEMA Region III Ordinance Review Checklist (VA)

October 2014

Community: City of Fredericksburg County: Spottsylvania State: VA CID: 510065
 State Reviewer: Sidney Huffman Date: 10/6/2022 Recommendation: Non-Compliant
 FEMA Reviewer: _____ Date: _____ FEMA Determination: _____
 Addl FEMA Reviewer: _____ Date: _____ Determination: _____

Notes:

Note: The "Item Description" is a synopsis of the regulatory requirement and should not be construed as a complete description. Refer to the actual language contained in the National Flood Insurance Program Rules and Regulations for complete descriptions of the required standards.

Flood Zones: A AO AH AE (w/o FW) AE w/ FW VE
 LiMWA **Level of Regulations:**

Item Description (Section reference to NFIP Regulations follows required Provisions.)	Model Location	State Review	FEMA Review	Comments
Provisions for ordinances				
1. Adopt definitions of: <input checked="" type="checkbox"/> Base Flood <input type="checkbox"/> Base Flood Elevation <input checked="" type="checkbox"/> Basement <input type="checkbox"/> Development <input type="checkbox"/> Existing Manufactured Home Park or Subdivision Expansion to an Existing <input type="checkbox"/> Manufactured Home Park or Subdivision <input type="checkbox"/> Flood Insurance Rate Map <input type="checkbox"/> Flood Insurance Study <input checked="" type="checkbox"/> Floodway <input type="checkbox"/> Lowest Floor & other definitions as appropriate such as: <input type="checkbox"/> Floodproofing <input type="checkbox"/> Historic Structures <input checked="" type="checkbox"/> Manufactured Home <input type="checkbox"/> Manufactured Home Park or Subdivision <input type="checkbox"/> New Construction Date: _____ <input type="checkbox"/> New Manufactured Home Park or Subdivision <input type="checkbox"/> Recreational Vehicle <input type="checkbox"/> Special Flood Hazard Area <input type="checkbox"/> Start of Construction <input type="checkbox"/> Structure <input type="checkbox"/> Substantial Damage <input type="checkbox"/> Substantial Improvement <input type="checkbox"/> Violation <input type="checkbox"/> Highest Adjacent Grade (Required for AO Zones)	Glossary			NOTE: Definitions for <u>Existing, Expansion to An Existing, Manufactured Home Park or Subdivision or New Manufactured Home Park</u> are not required if community requires elevation of all manufactured homes to the BFE (1986 regulations). <input type="checkbox"/> Community requires elevation of all manufactured homes placed/substantially improved to the BFE (1986 regulations) Definitions are not included in FPO and several definitions are missing. Add cross-reference to Section 72-84, Definitions, in Zoning ordinance where definitions are listed. Update definitions to match State Model Ordinance (MO) language. For example, remove "100 year" reference in base flood definition. Definition of "development" does not match NFIP required language. Definition of "structure" does not include NFIP language. Revise definitions to match the MO definitions for compliance with NFIP. Some definitions, such as "Floodway" are in the regulatory text of FPO, but not included as an entry in Section 72-84; add these items to Section 72-84.

Item Description (Section reference to NFIP Regulations follows required Provisions.)	Model Location	State Review	FEMA Review	Comments
Provisions for ordinances				
2. Citation of Statutory Authorization. [59.22(a)(2)]	1.1			Missing; include cross reference if this item is addressed elsewhere in the Zoning code.
3. Purpose section citing health, safety, and welfare reasons for adoption. [59.22(1)]	1.1	72-34.3.A		Does not explicitly state "safety and welfare", but generally addresses these. Missing specific language of MO Section 1.1.A-D
4. Abrogation and Greater Restriction section. [60.1(b)]	1.4			Missing; include cross reference if this item is addressed elsewhere in the Zoning code.
5. Adequate enforcement provisions including a violations/penalty section specifying community actions to assure compliance. [60.2(e)]	1.6			Missing
6. Adopt or reference correct Flood Insurance Rate Map (and where applicable, Flood Boundary Floodway Map) and date. [60.2(h)]	3.1 A	72-34.3.B. a		Insert date when available
7. Adopt or reference correct Flood Insurance Study and date. [60.2(h)]	3.1 A	72-34.3.B. b		Add FIS date
8. Include a reference to all subsequent revisions and amendments to above-referenced flood maps and Flood Insurance Study.	3.1 A	72-34.3.B. b		Add "as amended" to FIS
9. Severability section. (If any section, provision or portion of the ordinance is deemed unconstitutional or invalid by a court, the remainder of the ordinance shall be effective.)	1.6			Missing
10. Disclaimer of Liability (Degree of flood protection required by the ordinance is considered reasonable but does not imply total flood protection.)	1.3 B & C			Missing
11. Framework for administering the ordinance (permit system, establish office for administering the ordinance, <i>recordkeeping</i> , etc.) [59.22(b)(1)]	2.1			Missing
12. Designate title of community Floodplain Administrator [59.22 (b)]	2.1			Missing explicit designation; FPA is mentioned in various sections of the FPO
13. Requirement to submit new technical data: within 6 months, notify FEMA of changes in the base flood elevation by submitting technical or scientific data so insurance & floodplain management can be based on current data. [65.3]	2.7			Missing

Item Description (Section reference to NFIP Regulations follows required Provisions.)	Model Location	State Review	FEMA Review	Comments
Provisions for ordinances				
14. Variance section with evaluation criteria & insurance notice. [60.6 (a)]	Article VI	72-34.3.O		Includes "Special exceptions" section that includes much of the language of Article VI in the MO. Recommend updating terminology and regulatory language to match the MO. Missing limitations on variances for accessory structures.
15. Signature of Appropriate Official & Certification (adopted ordinance) Date ordinance adopted _____ Effective Date _____ Ordinance No. _____	Article VIII			Insert dates when available
60.3 (a) When no SFHAs have been identified, no water surface elevation data has been provided, and no floodways or coastal high hazard areas have been identified and the community applies for participation in the NFIP, the following are required:				
16. Require permits for all proposed construction or other development including placement of manufactured homes. [60.3(a)(1)]	4.1 A	72-34.3.G.1		Requires zoning permit for land disturbance, development or uses. Note that "development" definition must be revised. Missing prohibition of adverse effects on capacity. Missing "reasonably safe from flooding" review.
17. Assure that all other State and Federal permits are obtained. [60.3(a)(2)]	4.1 A	72-34.3.H.3		
18. Review subdivision proposals to assure that: (a) Such proposals minimize flood damage. [60.3(a)(4)(i)]	4.4 A			Missing language specific to subdivisions
(b) Public utilities and facilities are located & constructed so as to minimize flood damage. [60.3(a)(4)(ii)]	4.4 B	72-34.3.N		Addresses public utilities in general; Missing language specific to subdivisions
(c) Adequate drainage is provided. [60.3(a)(4)(iii)]	4.4 C			Missing language specific to subdivisions
19. Review permits to assure sites are reasonably safe from flooding and require for new construction and substantial improvements in flood-prone areas: [60.3(a)(3)]	4.1 A			Missing specific "reasonably safe from flooding" language
(a) Anchoring (including manufactured homes) to prevent floatation, collapse, or lateral movement. [60.3(a)(3)(i)]	4.2 A, B			Missing (only included for accessory structures)
(b) Use of flood-resistant materials. [60.3(a)(3)(ii)]	4.2 C			Missing (only included for accessory structures)
(c) Construction methods/practices that minimize flood damage. [60.3(a)(3)(iii)]	4.2 D			Missing; the Section 72-44.3.H, General Regulations, does not parallel language in 4.2
(d) Electrical, heating, ventilation, plumbing, air conditioning equipment, and other service facilities designed and/or located to	4.2 E			Missing; see model ordinance for preferred language

Item Description (Section reference to NFIP Regulations follows required Provisions.)	Model Location	State Review	FEMA Review	Comments
Provisions for ordinances				
20. Require new and replacement water supply and sanitary sewer systems to be designed to minimize or eliminate infiltration. [60.3(a)(5) & (6)]	4.2 G	72-34.3. N.1-2		
21. Require on-site waste disposal systems be located to avoid impairment or contamination. [60.3(a)(6)(ii)]	4.2 H	72-34.3. N.3		Add language to address impairment or contamination
60.3(b) When SFHA's are identified by the publication of a community's FHBM or FIRM, but water surface elevation data have not been provided or a floodway or coastal high hazard area has not been identified, then all of the above ordinance provisions for 60.3 (a) and the following are required:				
22. Require permits for all proposed construction and other development within SFHAs on the FIRM [60.3(b)(1)]	4.1 A	72-34.3. G.1		
23. Where BFE data are utilized, obtain and maintain records of lowest floor and floodproofing elevations for new construction and substantial improvements. [60.3(b)(5)]	4.1 B			Missing
24. In A Zones, in the absence of FEMA BFE data and floodway data, consider other available data as basis for elevating residential structures to or above base flood level, and for floodproofing or elevating nonresidential structures to or above base flood level. [60.3(b)(4)]	3.3 (3)	72-34.3.G. C.4		
25. <i>In riverine areas</i> , notify neighboring communities of watercourse alterations or relocations. [60.3 (b)(6)]	4.2 I	72-34.3. H.4		
26. Maintain flood carrying capacity of altered or relocated watercourse. [60.3(b)(7)]	4.2 J	72-34.3. H.5.d		
27. Require base flood elevation data for subdivision proposals or other developments greater than 50 lots or 5 acres. [60.3 (b)(3)]	3.1(3)			Missing
28. Require all manufactured homes to be elevated and anchored to resist flotation, collapse, or lateral movement. [60.3(b)(8)]	4.3 D			Missing

Item Description (Section reference to NFIP Regulations follows required Provisions.)	Model Location	State Review	FEMA Review	Comments
60.3(c) When final flood elevations, but no floodways or coastal high hazard areas have been provided on a community's FIRM, then all the above ordinance provisions for 60.3(a) & 60.3(b) and the following are required:				
29. Require all new and substantially improved <u>residential</u> structures within A, A1-30, AE, and AH Zones have their lowest floor (including basement) elevated to or above the BFE. [60.3(c)(2)]	4.3 A	72-34.3. G.3		Requires 1-1/2 ft freeboard; revise FPO to include FIRM terminology for zones as shown in MO
30. In AO Zones, require that new and substantially improved <u>residential</u> structures have their lowest floor (including basement) at or above the highest adjacent grade at least as high as the FIRM's depth number. [60.3(c)(7)]	3.1 A(4)(b) (1)	<input checked="" type="checkbox"/> Community has no AO Zones		
31. Require that new and substantially improved nonresidential structures within A, A1-30, AE, and AH Zones have their lowest floor elevated or floodproofed to or above the base flood elevation. [60.3(c)(3)]	4.3 B	72-34.3. G.4		Revise FPO to include FIRM terminology for zones as shown in MO
32. In AO Zones, require new and substantially improved <u>nonresidential</u> structures have their lowest floor elevated or completely floodproofed above the highest adjacent grade to at least as high as the depth number on the FIRM. [60.3(c)(8)]	3.1 A(4)(b) (2)	<input checked="" type="checkbox"/> Community has no AO Zones		
33. Require that, for floodproofed non-residential structures, a registered professional/architect certify that the design and methods of construction meet requirements at (c) (3) (ii). [60.3(c)(4)]	4.3 B			Missing
34. Within Zones A1-30 and AE without a designated floodway, new development shall not be permitted unless it is demonstrated that the cumulative effect of all past and projected development will not increase the BFE by more than 1 foot. [60.3(c)(10)]	3.1 A2	72-34.3. J.2.a		<input type="checkbox"/> All AE Zones have designated floodways
35. Require, for all new construction and substantial improvements, that fully enclosed areas below the lowest floor that are usable solely for parking of vehicles, building access or storage have permanent openings designed to allow the entry and exit of flood waters in accordance with specifications of [60.3(c)(5)] .	4.3 C			Missing

Item Description <i>(Section reference to NFIP Regulations follows required Provisions.)</i>	Model Location	State Review	FEMA Review	Comments
Provisions for ordinances				
36. In Zones AO and AH, require drainage paths around structures on slopes to guide water away from structures. [60.3(c)(11)]	3.1 A			<input checked="" type="checkbox"/> Community has neither AO nor AH zones
37. Require that manufactured homes placed or substantially improved within A1-30, AH, and AE Zones, which meet one of the following location criteria, to be elevated such that the lowest floor is at or above the BFE and be securely anchored: i. outside a manufactured home park or subdivision; ii. in a new manufactured home park or subdivision; iii. in an expansion to an existing manufactured home park or subdivision; iv. on a site in an existing park which a manufactured home has incurred substantial damage as a result of flood. [60.3(c)(6)]	4.3 D			<input type="checkbox"/> Community requires elevation of all manufactured homes placed/substantially improved to the BFE (1986 regulations) Missing specific manufactured home language.
38. In A1-30, AH, and AE Zones, require that manufactured homes to be placed or substantially improved in an <u>existing</u> manufactured home park to be elevated so that: i. the lowest floor is at or above the BFE <u>or</u> ii. the chassis is supported by reinforced piers no less than 36 inches above grade and securely anchored. [60.3(c)(12)]	4.3 D			<input type="checkbox"/> Community requires elevation of all manufactured homes placed/substantially improved to the BFE (1986 regulations) Missing specific manufactured home language.
39. In A1-30, AH and AE Zones, all recreational vehicles to be placed on a site must be elevated and anchored <u>or</u> be on the site for less than 180 consecutive days <u>or</u> be fully licensed and highway ready. [60.3(c)(14)]	4.3 D2			Missing
60.3(d) When final flood elevation and floodway delineations have been provided on a community's FIRM, then all the above ordinance provisions for 60.3(a), 60.3(b) & 60.3(c) and the following are required:				
40. In a regulatory floodway, prohibit any encroachment which would cause any increase in the base flood level unless hydrologic and hydraulic analyses prove that the proposed encroachment would not increase flood levels during the base flood discharge. [60.3(d)(3)]	3.1 A(4)(b) (2)	72-34.3..1		

Item Description (Section reference to NFIP Regulations follows required Provisions.)	Model Location	State Review	FEMA Review	Comments
60.3(e) When final flood elevations and coastal high hazard areas have been provided on a community's FIRM, then all the above ordinance provisions for 60.3(a), 60.3(b) & 60.3(c), and the following are required: NOTE: If a community has both floodways and coastal high hazard areas, it must meet the requirements of both 60.3(d) & 60.3(e)				
41. In V1 - 30, VE, and V Zones, obtain and maintain the elevation of the bottom of the lowest <i>horizontal</i> structural member of the lowest floor of all new and substantially improved structures. [60.3(e)(2)]				
42. In V1-30, VE, and V Zones, require that all new construction and substantial improvement: (a) <i>Are elevated on piling/columns so that the bottom of the lowest horizontal structural member is at or above the BFE and the pile/column foundation/structure are anchored to resist flotation, collapse & lateral movement. [60.3(e)(4)]</i>	3.1 A(6)(a) (1) & (2)			
(b) A registered professional engineer/architect <i>shall develop/review structural design, specs & plans; and</i> shall certify that the design and methods of construction meet elevation and anchoring requirements at (e)(4)(i) and (ii). [60.3(e)(4)]	3.1 A(6)(b)			
(c) Have the space below the lowest floor <i>either free of obstruction</i> or constructed with <i>non-supporting</i> breakaway walls. <i>Such enclosed space shall be useable soley for parking, building access, or storage.</i> [60.3(e)(5)]	3.1 A(6)(e) & (f)			
(d) All new construction is landward of the reach of mean high tide. [60.3(e)(3)]	3.1 A(6)(d)			
(e) Prohibit use of fill for structural support. [60.3(e)(6)]	3.1A(6)(g)			
(f) Prohibit alteration of sand dunes and mangrove stands which would increase potential flood damage. [60.3(e)(7)]	3.1A(6)(h)			

Item Description <i>(Section reference to NFIP Regulations follows required Provisions.)</i>	Model Location	State Review	FEMA Review	Comments
<p>60.3(e) When final flood elevations and coastal high hazard areas have been provided on a community's FIRM, then all the above ordinance provisions for 60.3(a), 60.3(b) & 60.3(c), and the following are required: NOTE: If a community has both floodways and coastal high hazard areas, it must meet the requirements of both 60.3(d) & 60.3(e)</p>				
				<p><input type="checkbox"/> Community requires elevation of all manufactured homes placed/substantially improved to the BFE (1986 regulations).</p>
<p>43. <i>Require that manufactured homes placed or substantially improved within V1-30, VE, and V Zones, which meet one of the following location criteria, meet the V Zone standards in 60.3(e)(2) through (e)(7):</i></p> <ul style="list-style-type: none"> i. <i>outside a manufactured home park or subdivision;</i> ii. <i>in a new manufactured home park or subdivision;</i> iii. <i>in an expansion to an existing manufactured home park or subdivision;</i> iv. <i>on a site in an existing park which a manufactured home has incurred substantial damage as a result of flood. [60.3(e)(8)]</i> 	3.1 A(6)(i)			
<p>44. <i>In V1-30, VE and V Zones, require that manufactured homes to be placed or substantially improved in an existing manufactured home park to be elevated so that:</i></p> <ul style="list-style-type: none"> i. <i>the lowest floor is at or above the BFE, or</i> ii. <i>the chassis is supported by reinforced piers no less than 36 inches above grade and securely anchored. [60.3(e)(8)(iv); 60.3(c)(12)]</i> 	3.1 A(6)(d)			
<p>45. <i>In V1-30, VE, and V Zones, all recreational vehicles to be placed on a site must be elevated and anchored or be on the site for less than 180 consecutive days or be fully licensed & highway ready. [60.3(e)(9)]</i></p>	3.1 A(6)(d) (2)			

Additional Comments: Use this section to provide additional comments on the above provisions, including the specific provision location, or to make general comments on the ordinance.

Description of districts should match the terminology used on FIRM. (A Zone, AE Zone, etc.). Adopt language in 3.1.A for consistency. For example, "Special Floodplain District" is AE zone, "Flood-Fringe District" seems to be both A and AE, and the "Floodway District" is correctly AE w/ Floodway.

The draft ordinance reviewed here is missing many required elements. DCR recommends that the community use the MO as a template for the revised ordinance and resubmit.

Higher Standards: Use this section to identify higher standards and provide additional comments, including the specific provision location.

Freeboard: feet

Coastal A Zone

Prohibitions

- Fill
- New Construction
- Floodway Development
- Recreational Vehicles
- Manufactured Homes
- Limit Critical Facilities
- Prohibit Critical Facilities
- Prohibit Critical Facilities
- Subdivision of Floodplain
- Structures in Floodplain
- Encroachment that causes > 0.1 foot Rise

Lower Threshold for Subdivision Proposals or other Developments lots/acres

- Cumulative Substantial Improvement
- Repetitive Loss (Cumulative Substantial Damage)
- Setbacks
- Hazardous Materials Restrictions
- Limiting Below BFE Enclosures
- Lower Threshold for Substantial Damage
- Community Identified Flood Hazard Areas
- Require EC and FP Certificates
- Permit Review by Others

72-34.3.G.3. Freeboard of 1.5 feet for residential structures

72-34.3.I.2, Prohibits manufactured home in floodway unless in an existing manufactured home park or subdivision