#### **ORDINANCE 0-4732**

AN ORDINANCE OF THE CITY OF KIRKLAND RELATING TO FLOOD DAMAGE PREVENTION AND AMENDING CHAPTER 21.56 OF THE KIRKLAND MUNICIPAL CODE.

The City Council of the City of Kirkland do ordain as follows:

<u>Section 1</u>. Kirkland Municipal Code Section 21.56.010 is amended to read as follows.

21.56.010 Statement of purpose.

It is the purpose of this chapter to meet the requirements of the Federal Flood Administration for federal flood insurance availability and to promote the public health, safety, and general welfare, and to minimize public and private losses due to flood conditions in specific areas by provisions designed:

(1) To protect human life and health;

(2) To minimize expenditure of public money and costly

flood-control projects;

(3) To minimize the need for rescue and relief efforts associated with flooding and generally undertaken at the expense of the general public;

(4) To minimize prolonged business interruptions;

(5) To minimize damage to public facilities and utilities such as water and gas mains, electric, telephone and sewer lines, streets, and bridges located in areas of special flood hazard;

(6) To help maintain a stable tax base by providing for the sound use and development of areas of special flood hazard so as to minimize future flood blight areas;

(7) To ensure that potential buyers are notified that property

is in an area of special flood hazard; and

(8) To ensure that those who occupy the areas of special flood hazard assume responsibility for their actions.

(9) Participate in and maintain eligibility for flood insurance and disaster relief.

<u>Section 2</u>. Kirkland Municipal Code Section 21.56.020 is amended to read as follows.

### 21.56.020 Definitions.

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

(1) "Alteration of watercourse" means any action that will change the location of the channel occupied by water within the

banks of any portion of a riverine waterbody.

 $(\frac{12}{2})$  "Appeal" means a request for a review of the building official's interpretation of any provision of this chapter or a request for a variance.

"Area of shallow flooding" means a designated AO or AH zone on the flood insurance rate map (FIRM). AO zones have base flood depths that range from with a one percent or greater annual chance of flooding to an average depth of one to three feet above the natural ground; a clearly defined channel does not exist; the path of flooding is unpredictable and indeterminate; and velocity flow may be evident. AO is characterized as sheet flow. AH zones have ponding, as shown with standard base flood elevations. Also referred to as the sheet flow area.

"Area of special flood hazard" means the land in the floodplain within a community subject to a one percent or greater chance of flooding in any given year. Designation on maps always includes the letters A or V. It is shown on the Flood Insurance Rate Map (FIRM) as zone A, AO, AH, A1-30, AE, A99, AR "Special flood hazard area" is synonymous in meaning with the phrase

"area of special flood hazard".

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"ASCE 24" means the most recently published version of ASCE 24, Flood Resistant Design and Construction, published by

the American Society of Civil Engineers.

"Base flood" means the flood having a one percent chance of being equaled or exceeded in any given year. Also referred to as the "one-hundred-year flood." Designated on FIRMs by the letters A or V.

"Base Flood Elevation (BFE)" means the elevation to which floodwater is anticipated to rise during the base flood.

"Basement" means any area of the building having its

floor subgrade (below ground level) on all sides.

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

"Building" see "Structure."
"Building Code" means the currently effective versions (11)of the International Building Code and the International Residential Code adopted by the State of Washington Building

Code Council.

- "Critical facility" means a facility for which even a slight chance of flooding might be too great. Critical facilities include but are not limited to schools, nursing homes, hospitals, police, fire and emergency response installations and installations which produce, use or store hazardous materials or hazardous waste.
- "Development" means any manmade change to improved or unimproved real estate, including but not limited to buildings or other structures, mining, dredging, filling, grading, paving, excavation or drilling operations or storage of equipment or material located within the area of special flood hazard.
- "Elevated building" means, for insurance purposes, a nonbasement building that has its lowest elevated floor raised above ground level by foundation walls, shear walls, post, piers, pilings, or columns.

(15) "Elevation Certificate" means an administrative tool of the National Flood Insurance Program (NFIP) that can be used to provide elevation information, to determine the proper insurance premium rate, and to support a request for a Letter of Map Amendment (LOMA) or Letter of Map Revision based on fill (LOMR-F).

(16) "Essential Facility" has the same meaning as "Essential Facility" defined in ASCE 24. Table 1-1 in ASCE 24-14 further

identifies building occupancies that are essential facilities.

(17) "Existing manufactured home park or subdivision" means a manufactured home park or subdivision for which the construction of facilities for servicing the lots on which the manufactured homes are to be affixed (including, at a minimum, the installation of utilities, the construction of streets, and either final site grading or the pouring of concrete pads) is completed before the effective date of the adopted floodplain management regulations.

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

or the pouring of concrete pads).

(1019) "Flood" or "flooding" means:

1. Aa general and temporary condition of partial or complete inundation of normally dry land areas from:

(A) The overflow of inland or tidal waters; and/or

(B) The unusual and rapid accumulation of runoff of surface

waters from any source.

(C) Mudslides (i.e., 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.

(20) "Flood elevation study" means an examination, evaluation and determination of flood hazards and, if appropriate, corresponding water surface elevations, or an examination, evaluation and determination of mudslide (i.e., mudflow) and/or flood-related erosion hazards. Also known as a Flood Insurance

Study (FIS).

 $(\frac{11}{21})$  "Flood insurance rate map (FIRM)" means the official map on which the Federal Insurance Administration has delineated both the areas of special flood hazards 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).

"Floodplain or floodprone area" means any land area susceptible to being inundated by water from any source. See

"flood" or "flooding."

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(23) "Floodplain administrator" means the community official designated by title to administer and enforce the floodplain

management regulations.

- "Floodplain management regulations" means the zoning ordinances, subdivision regulations, building codes, health regulations, special purpose ordinances (such as floodplain ordinance, grading ordinance and erosion control ordinance) and other application of police power. The term describes such state or local regulations, in any combination thereof, which provide standards for the purpose of flood damage prevention and reduction.
- "Flood proofing" means any combination of structural (25)and nonstructural additions, changes, or adjustments to structures which reduce or eliminate risk of flood damage to real estate or improved real property, water and sanitary facilities, structures, and their contents. Flood proofed structures are those that have the structural integrity and design to be impervious to floodwater below the Base Flood Elevation.

"Flood insurance study" means the official report provided by the Federal Insurance Administration that includes flood profiles, the FIRM, and the water surface elevation of the base flood.

"Floodway" means the channel of a river or other (<del>13</del>27) 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, a designated height. Also referred to as "Regulatory Floodway."

(28) "Functionally dependent use" means a use which cannot perform its intended purpose unless it is located or carried out in close proximity to water. The term includes only docking facilities, port facilities that are necessary for the loading and unloading of cargo or passengers, and ship building and ship repair facilities, and does not include long-term storage or related manufacturing facilities.

(29)"Highest adjacent grade" means the highest natural elevation of the ground surface prior to construction next to the proposed walls of a structure.
(30) "Historic structure" means 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 <u>Interior as contributing to the historical significance of a registered</u> 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 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.

(1431) "Lowest floor" means 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 nonelevation design requirements of this chapter found at Section 21.56.090(1)(B).

at Section 21.56.090(1)(B).

(1532) "Manufactured home" means a structure, transportable in one or more sections, which is built on a permanent chassis and is designed for use with or without a permanent foundation when connected to the required utilities. For floodplain management purposes, the term "manufactured home" also includes park trailers, travel trailers, and other similar vehicles placed on a site for greater than one hundred eighty consecutive days. For insurance purposes, the term "manufactured home" does not include park trailers, travel trailers, and other similar vehicles.

(1633) "Manufactured home park or subdivision" means a parcel (or contiguous parcels) of land divided into two or more manufactured home lots for rent or sale.

(34) "Mean Sea Level" means for purposes of the National Flood Insurance Program, the vertical datum to which Base Flood Elevations shown on a community's Flood Insurance Rate Map are referenced.

(1735) "New construction" means structures for which the "start of construction" commenced on or after the effective date of the ordinance codified in this chapter. New construction: For the purposes of determining insurance rates, structures for which the "start of construction" commenced on or after the effective date of an initial Flood Insurance Rate Map or after December 31, 1974, whichever is later, and includes any subsequent improvements to such structures. For floodplain management purposes, "new construction" means structures for which the "start of construction" commenced on or after the effective date of a floodplain management regulation adopted by a community and includes any subsequent improvements to such structures.

(1836) "New manufactured home park or subdivision" means a manufactured home park or subdivision for which the construction of facilities for servicing the lots on which the manufactured homes are to be affixed (including, at a minimum, the installation of utilities, the construction of streets, and either final site grading or the pouring of concrete pads) is completed on

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or after the effective date of adopted floodplain management regulations.

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"One-hundred-year flood or 100-year flood: See "Base

"Reasonably Safe from Flooding" means development that is designed and built to be safe from flooding based on consideration of current flood elevation studies, historical data, high water marks and other reliable date known to the community. In unnumbered A zones where flood elevation information is not available and cannot be obtained by practicable means, reasonably safe from flooding means that the lowest floor is at least two feet above the Highest Adjacent Grade.

"Recreational vehicle" means a vehicle:

Built on a single chassis;

Four hundred square feet or less when measured at the largest horizontal projection;

Designed to be self-propelled or permanently towable by

a light duty truck; and

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

(<del>204</del>0) "Start of construction" includes substantial improvement, and means the date the building permit was issued; provided, the actual start of construction, repair, reconstruction, rehabilitation, addition, placement or other improvement was within one hundred eighty 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 foundation or the erection of temporary forms; nor does it include the installation on the property of accessory buildings, such as garages or sheds not occupied as dwelling units or not part of the main structure. For a substantial improvement, the actual start" of construction means the first alteration of any wall, ceiling, floor, or other structural part of a building, whether or not that alteration affects the external dimensions of the building.

"Structure" means for floodplain management purposes, a walled and roofed building including a gas or liquid storage tank that is primarily above ground, as well as a

manufactured home.

"Substantial damage" means damage of any origin (<del>224</del>2) sustained by a structure whereby the cost of restoring the structure to its before-damaged condition would equal or exceed fifty percent of the market value of the structure before the damage occurred.

"Substantial improvement" means any <del>repair,</del> reconstruction, rehabilitation, addition or other improvement of a structure, the cost of which equals or exceeds fifty percent of the market value of the structure before the "start of construction" of the improvement. This term includes structures which have incurred "substantial damage," regardless of the actual repair work performed. The term does not, however, include either:

(A) Before the improvement or repair is started; or

(B) If the structure has been damaged and is being restored, before the damage occurred. For the purposes of this definition, "substantial improvement" is considered to occur when the first alteration of any wall, ceiling, floor, or other structural part of the building commences, whether or not that alteration affects the external dimensions of the structure.

The term excludes:

- (iA) Any project for improvement of a structure to correct existing violations of state or local health, sanitary, or safety code specifications which have been previously identified by the local code enforcement official and which are the minimum necessary to assure safe living conditions; or
- (iiB) Any alteration of a structure listed on the National Register of Historic Places or a State Inventory of Historic Places.
- (24<u>44</u>) "Variance" means a grant of relief from the requirements of this chapter which permits construction in a manner that would otherwise be prohibited by this chapter.
- (2545) "Water dependent" means a structure for commerce or industry which cannot exist in any other location and is dependent on the water by reason of the intrinsic nature of its operations.
- (46) "Water surface elevation" means the height, in relation to the vertical datum utilized in the applicable flood insurance study of floods of various magnitudes and frequencies in the floodplains of coastal or riverine areas.
- <u>Section 3</u>. Kirkland Municipal Code Section 21.56.025 is amended to read as follows.

21.56.025 Lands to which this chapter applies.

This chapter shall apply to all areas of special flood hazards within the jurisdiction of the city of Kirkland. All development within special flood hazard areas is subject to the terms of this chapter and other applicable regulations.

<u>Section 4</u>. Kirkland Municipal Code Section 21.56.030 is amended to read as follows.

# 21.56.030 Basis for establishing the areas of special flood hazard.

The areas of special flood hazard identified by the Federal Insurance Administration in a scientific and engineering report entitled "The Flood Insurance Study for King County, Washington and Incorporated Areas" dated September 30, 1993, August 19, 2020, having an effective date of May 16, 1995, and any revisions thereto with accompanying flood insurance maps Flood Insurance Rate Maps (FIRM) is adopted by reference and declared to be a

part of this chapter. The flood insurance study and the FIRM are on file at City Hall, 123 Fifth Avenue, Kirkland, WA 98033.

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<u>Section 5</u>. Kirkland Municipal Code Section 21.56.060 is amended to read as follows.

21.56.060 Application for development permit.

Application for a development permit shall be made on forms furnished by the city and may include but not be limited to: plans in duplicate drawn to scale showing the nature, location, dimensions, and elevations of the areas in question; existing or proposed structures, fill, storage of materials, drainage facilities, and the location of the foregoing. Specifically, the following information is required:

- Elevation in relation to mean sea level of the lowest floor (including basement) of all structures;
- Elevation in relation to mean sea level to which any structure has been floodproofed;
- Certification by a registered professional engineer or architect that the floodproofing methods for any nonresidential structure meet the floodproofing criteria in Section 21.56.090(2); and
- (4)Description of the extent to which a watercourse will be altered or relocated as a result of the proposed development:
- Where development is proposed in a floodway, an engineering analysis indicating no rise of the Base Flood Elevation; and
- Any other such information that may be reasonably required by the Floodplain Administrator in order to review the application.

<u>Section 6</u>. Kirkland Municipal Code Section 21.56.070 is amended to read as follows.

### 21.56.070 Duties and responsibilities of the building official.

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

- Permit Review. (1)
- (A)Review all development permits to determine that the permit requirements of this chapter have been satisfied;
- Review all development permits to determine that all necessary permits have been obtained from those federal, state, or local governmental agencies from which prior approval is required;
- Review all development permits to determine if the proposed development is located in the floodway. If located in the floodway, assure that the Section 21.56.095(1) are met. assure that the encroachment provisions of
- Review all development permits to determine that the site is reasonably safe from flooding.
  - Notify FEMA when annexations occur in the special flood hazard area.
  - Use of Other Base Flood Data. When base flood elevation data has not been provided in accordance with Section 21.56.030, the building official shall obtain, review, and reasonably utilize any

base flood elevation and floodway data available from a federal, state or other source, in order to administer Sections 21.56.090 and 21.56.095.

(3) Information to Be Obtained and Maintained.

(A) Where base flood elevation data is provided through the flood insurance study, FIRM, or required as in subsection (2) of this section, obtain and record the actual elevation (in relation to mean sea level) of the lowest floor (including basement) of all new or substantially improved structures, and whether or not the structure contains a basement;

(B) For all new or substantially improved floodproofed nonresidential structures where base flood elevation data is provided through the flood insurance study, FIRM, or as required

as in subsection (2) of this section:

(i) Obtain and récord the elevation (in relation to mean sea level) to which the structure was floodproofed; and

(ii) Maintain the floodproofing certifications required in Section 21.56.060(3) and 21.56.095(i);

(C) Maintain records of all variance actions, including justification for their issuance.

(D) Maintain improvement and damage calculations.

(<u>EE</u>) Maintain for public inspection all records pertaining to the provisions of this chapter.

(4) Alteration of Watercourses.

(A) Notify adjacent communities and the Washington State Department of Ecology prior to any alteration or relocation of a watercourse, and submit evidence of such notification to the Federal Insurance Administration;

(B) Require that maintenance is provided within the altered or relocated portion of said watercourse so that the flood-carrying

capacity is not diminished.

(5) Interpretation of FIRM Boundaries. Make interpretations where needed, as to exact location of the boundaries of the areas of special flood hazards (for example, where there appears to be a conflict between a mapped boundary and actual field conditions). The person contesting the location of the boundary shall be given a reasonable opportunity to appeal the interpretation as provided in Section 21.56.075.

(6) Changes to the Special Flood Hazard Area.

(A) If a project will alter the BFE or boundaries of the SFHA, then the project proponent shall provide the community with engineering documentation and analysis regarding the proposed change. If the change to the BFE or boundaries of the SFHA would normally require a Letter of Map Change, then the project proponent shall initiate, and receive approval of, a Conditional Letter of Map Revision (CLOMR) prior to approval of the development permit. The project shall be constructed in a manner consistent with the approved CLOMR.

(B) If a CLOMR application is made, then the project proponent shall also supply the full CLOMR documentation package to the Floodplain Administrator to be attached to the floodplain development permit, including all required property owner

470 notifications.

<u>Section 7</u>. Kirkland Municipal Code Section 21.56.090 is amended to read as follows.

## 21.56.090 Provisions for flood hazard reduction—Specific standards.

In all areas of special flood hazards where base flood elevation data has been provided as set forth in Section <u>21.56.030</u> or <u>21.56.070(2)</u>, the following provisions are required:

(1) Residential Construction.

(A) New construction and substantial improvement of any residential structure shall have the lowest floor, including basement, elevated one foot or more above base flood elevation. Mechanical equipment and utilities shall be waterproof or elevated at least one foot above the base flood elevation.

- (B) Fully enclosed areas below the lowest floor that are subject to flooding are prohibited, or shall be designed to automatically equalize hydrostatic flood forces on exterior walls by allowing for the entry and exit of floodwaters. Designs for meeting this requirement must either be certified by a registered professional engineer or architect or must meet or exceed the following minimum criteria:
- (i) A minimum of two openings having a total net area of not less than one square inch for every square foot of enclosed area subject to flooding shall be provided.

(ii) The bottom of all openings shall be no higher than one foot above grade.

(iii) Openings may be equipped with screens, louvers, or other coverings or devices; provided, that they permit the automatic entry and exit of floodwaters.

(iv) A garage attached to a residential structure, constructed with the garage floor slab below the BFE, must be designed to allow for the automatic entry and exit of flood waters.

(C) New construction and substantial improvement of any residential structure in an AO zone shall meet the requirements in Section 21.56.105.

(D) New construction and substantial improvement of any residential structure in an Unnumbered A zone for which a BFE is not available and cannot be reasonably obtained shall be reasonably safe from flooding, but in all cases the lowest floor shall be at least two feet above the Highest Adjacent Grade.

- (2) Nonresidential Construction. Except in AO zones which are regulated under Section 21.56.105, Nnew construction and substantial improvement of any commercial, industrial or other nonresidential structure shall either have the lowest floor, including basement, elevated one foot or more above the level of the base flood elevation; or as required by ASCE 24, whichever is greater, together with attendant utility and sanitary facilities, shall:
- (A) Be floodproofed so that below one foot above the base flood level the structure is watertight with walls substantially impermeable to the passage of water or dry floodproofed to the elevation required by ASCE 24, whichever is greater;

(B) Have structural components capable of resisting hydrostatic

and hydrodynamic loads and effects of buoyancy;

(C) Be certified by a registered professional engineer or architect that the design and methods of construction are in accordance with accepted standards of practice for meeting provisions of this subsection based on their development and/or review of the structural designs, specifications and plans. Such certification shall be provided to the official as set forth in Section 21.56.070(3)(B);

(D) Nonresidential structures that are elevated, and not floodproofed, must meet the same standards for space below the lowest floor as described in subsection (1)(B) of this section;

(E) If located in an Unnumbered A zone for which a BFE is not available and cannot be reasonably obtained,

the structure shall be reasonably safe from flooding, but in all cases the lowest floor shall be at least two feet above the Highest

Adjacent Grade.

(EF) Applicants floodproofing nonresidential buildings shall be notified that flood insurance premiums will be based on rates that are one foot below the floodproofed level (e.g., a building constructed to the base flood level will be rated as one foot

546 below).

(3) Critical Facility. Construction of new critical facilities shall be, to the extent possible, located outside the limits of the special flood hazard area (SFHA) (one-hundred-year floodplain). Construction of new critical facilities shall be permissible within the SFHA if no feasible alternative site is available. Critical facilities constructed within the SFHA shall have the lowest floor elevated three feet above the level of the base flood elevation at the site or to the height of the five-hundred-year flood, whichever is higher. Access to and from the critical facility should also be protected to the height utilized above. Floodproofing and sealing measures must be taken to ensure that toxic substances will not be displaced by or released into floodwaters. Access routes elevated to or above the level of the base flood elevation shall be provided to all critical facilities to the extent possible.

(4) Manufactured Homes.

(A) All manufactured homes to be placed or substantially improved within zones A1—30, AH, and AE shall be elevated on a permanent foundation such that the lowest floor of the manufactured home is one foot or more above the base flood elevation; and be securely anchored to an adequately anchored foundation system to resist flotation, collapse and lateral movement in accordance with the provisions of Section 21.56.085(1)(B). This applies to manufactured homes:

(i) Outside of 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; or

(iv) In an existing manufactured home park or subdivision on a site which a manufactured home has incurred "substantial damage" as a result of a flood.

- (B) Manufactured homes to be placed or substantially improved on sites in an existing manufactured home park or subdivision that are not subject to the above manufactured home provisions shall be elevated so that either:
- (i) The lowest floor of the manufactured home is elevated one foot or more above the base flood elevation; or
- (ii) The manufactured home chassis is supported by reinforced piers or other foundation elements of at least equivalent strength that are no less than thirty-six inches in height above grade and are securely anchored to an adequately anchored foundation system to resist flotation, collapse and lateral movement.
- (5) Recreational vehicles placed on sites are required to either:(A) Be on the site for fewer than one hundred eighty

590 consecutive days; or

- (B) Be fully licensed and ready for highway use, on wheels or jacking system, attached to the site only by quick disconnect type utilities and security devices, and have no permanently attached additions; or
- (C) Meet the requirements of subsection (4) of this section.
- (6) If buildings or manufactured homes are constructed or substantially improved with fully enclosed areas below the lowest floor, the areas shall be used solely for parking of vehicles, building access, or storage.
- (7) Appurtenant Structures (Detached Garages & Small Storage Structures)
- (A) Appurtenant structures used solely for parking of vehicles or limited storage may be constructed such that the floor is below the BFE, provided the structure is designed and constructed in accordance with the following requirements:
- (i) Use of the appurtenant structure must be limited to parking of vehicles or limited storage;
- (ii) The portions of the appurtenant structure located below the BFE must be built using flood resistant materials;
- (iii) The appurtenant structure must be adequately anchored to prevent flotation, collapse, and lateral movement;
- (iv) Any machinery or equipment servicing the appurtenant structure must be elevated or flood proofed to or above the BFE;
- (v) The appurtenant structure must comply with floodway encroachment provisions in Section 5.4-1;
- (vi) The appurtenant structure must be designed to allow for the automatic entry and exit of floodwaters in accordance with Section 5.2-1(5).
- (vii) The structure shall have low damage potential, and
- (viii) If the structure is converted to another use, it must be brought into full compliance with the standards governing such use.
- (ix) The structure shall not be used for human habitation.
- (B) Detached garages, storage structures, and other appurtenant structures not meeting the above standards must be constructed in accordance with all applicable standards in Section 5.2-1.
  - (C) Upon completion of the structure, certification that the requirement of this section have been satisfied shall be provided to the Floodplain Administrator for verification.

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(8) In areas with BFEs (when a regulatory floodway has not been designated), no new construction, substantial improvements, or other development (including fill) shall be permitted within zones A1-30 and AE on the community's 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 community.

<u>Section 8</u>. If any provision of this ordinance or its application to any person or circumstance is held invalid, the remainder of the ordinance or the application of the provision to other persons or circumstances is not affected.

Section 9. This ordinance shall be in force and effect five days from and after its passage by the Kirkland City Council and publication pursuant to Section 1.08.017, Kirkland Municipal Code in the summary form attached to the original of this ordinance and by this reference approved by the City Council.

Passed by majority vote of the Kirkland City Council in open meeting this 4 day of August, 2020.

Signed in authentication thereof this 4 day of August, 2020.

Penny Sweet, Mayor

Attest:

Kathi Anderson, City Clerk

Approved as to Form:

Kevin Raymond, City Attorney

Publication Date: 08/10/2020

#### PUBLICATION SUMMARY OF ORDINANCE NO. 4732

AN ORDINANCE OF THE CITY OF KIRKLAND RELATING TO FLOOD DAMAGE PREVENTION AND AMENDING CHAPTER 21.56 OF THE KIRKLAND MUNICIPAL CODE.

- <u>SECTION 1</u>. Amends Kirkland Municipal Code (KMC) Section 21.56.010 relating to the statement of purpose for flood damage prevention.
- <u>SECTION 2</u>. Amends KMC Section 21.56.020 relating to flood damage prevention definitions.
- <u>SECTION 3</u>. Amends KMC Section 21.56.025 relating to land areas to which the flood damage prevention chapter applies.
- <u>SECTION 4</u>. Amends KMC Section 21.56.030 relating to the basis for establishing the areas of a special flood hazard.
- <u>SECTION 5</u>. Amends KMC Section 21.56.060 relating to the application for a development permit.
- <u>SECTION 6</u>. Amends KMC Section 21.56.070 relating to the duties and responsibilities of the building official.
- <u>SECTION 7</u>. Amends KMC Section 21.56.090 relating to the specific standards for provisions for flood hazard reduction.
  - SECTION 8. Provides a severability clause for the ordinance.
- <u>SECTION 9</u>. Authorizes publication of the ordinance by summary, which summary is approved by the City Council pursuant to Section 1.08.017 Kirkland Municipal Code and establishes the effective date as five days after publication of summary.

The full text of this Ordinance will be mailed without charge to any person upon request made to the City Clerk for the City of Kirkland. The Ordinance was passed by the Kirkland City Council at its meeting on the 4 day of August, 2020.

I certify that the foregoing is a summary of Ordinance 4732 approved by the Kirkland City Council for summary publication.

Kathi Anderson, City Clerk

