



# Oregon

Theodore R. Kubongski, Governor

Department of Land Conservation and Development

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Salem, OR 97301-2540

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## NOTICE OF ADOPTED AMENDMENT

1/26/2010

**TO:** Subscribers to Notice of Adopted Plan  
or Land Use Regulation Amendments

**FROM:** Plan Amendment Program Specialist

**SUBJECT:** City of Elkton Plan Amendment  
DLCD File Number 001-09

The Department of Land Conservation and Development (DLCD) received the attached notice of adoption. A Copy of the adopted plan amendment is available for review at the DLCD office in Salem and the local government office.

Appeal Procedures\*

**DLCD ACKNOWLEDGMENT or DEADLINE TO APPEAL:** Friday, February 05, 2010

This amendment was submitted to DLCD for review prior to adoption with less than the required 45-day notice. Pursuant to ORS 197.830(2)(b) only persons who participated in the local government proceedings leading to adoption of the amendment are eligible to appeal this decision to the Land Use Board of Appeals (LUBA).

If you wish to appeal, you must file a notice of intent to appeal with the Land Use Board of Appeals (LUBA) no later than 21 days from the date the decision was mailed to you by the local government. If you have questions, check with the local government to determine the appeal deadline. Copies of the notice of intent to appeal must be served upon the local government and others who received written notice of the final decision from the local government. The notice of intent to appeal must be served and filed in the form and manner prescribed by LUBA, (OAR Chapter 661, Division 10). Please call LUBA at 503-373-1265, if you have questions about appeal procedures.

**\*NOTE:** THE APPEAL DEADLINE IS BASED UPON THE DATE THE DECISION WAS MAILED BY LOCAL GOVERNMENT. A DECISION MAY HAVE BEEN MAILED TO YOU ON A DIFFERENT DATE THAT IT WAS MAILED TO DLCD. AS A RESULT, YOUR APPEAL DEADLINE MAY BE EARLIER THAN THE ABOVE DATE SPECIFIED.

**Cc:** Linda Higgins, City of Elkton  
Gloria Gardiner, DLCD Urban Planning Specialist  
John Renz, DLCD Regional Representative  
Chris Shirley, FEMA Specialist

<paa> YA



# DLCD

DEPT OF

JAN 19 2010

## Notice of Adoption

LAND CONSERVATION  
AND DEVELOPMENT

**THIS FORM MUST BE MAILED TO DLCD  
WITHIN 5 WORKING DAYS AFTER THE FINAL DECISION  
PER ORS 197.610, OAR CHAPTER 660 - DIVISION 18**

Jurisdiction: CITY OF ELKTON

Local file number:

Date of Adoption: JAN. 14, 2010

Date Mailed: JAN. 15, 2010

Was a Notice of Proposed Amendment (Form 1) mailed to DLCD? **Select one** Date: Nov. 2, 2009

Comprehensive Plan Text Amendment

Comprehensive Plan Map Amendment

Land Use Regulation Amendment

Zoning Map Amendment

New Land Use Regulation

Other:

Summarize the adopted amendment. Do not use technical terms. Do not write "See Attached".

Ordinance #159 Flood damage Prevention Ordinance

An Ordinance concerning flood hazards; requiring permits; setting standards for construction; repealing prior ordinances 51, 78 & 95 flood damage prevention and declaring an emergency.

Does the Adoption differ from proposal? Please select one

No, except Ordinance Title

Plan Map Changed from:

to:

Zone Map Changed from:

to:

Location:

Acres Involved:

Specify Density: Previous:

New:

Applicable statewide planning goals:

**1**  **2**  **3**  **4**  **5**  **6**  **7**  **8**  **9**  **10**  **11**  **12**  **13**  **14**  **15**  **16**  **17**  **18**  **19**

Was an Exception Adopted?  YES  NO

Did DLCD receive a Notice of Proposed Amendment...

45-days prior to first evidentiary hearing?

Yes  No

If no, do the statewide planning goals apply?

Yes  No

If no, did Emergency Circumstances require immediate adoption?

Yes  No

DLCD File No. 001-09 (17932) [15942]

DLCD file No. \_\_\_\_\_

Please list all affected State or Federal Agencies, Local Governments or Special Districts:

DLCL, FEMA, Douglas County, City of Elkton

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Local Contact: **Linda Higgins**

Phone: (541) 584-2547 Extension:

Address: **P.O. Box 508**

Fax Number: 541-584-2547

City: **Elkton**

Zip: 97436

E-mail Address: **cityofelkton@cascadeaccess.com**

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## **ADOPTION SUBMITTAL REQUIREMENTS**

This form **must be mailed** to DLCD **within 5 working days after the final decision**  
per ORS 197.610, OAR Chapter 660 - Division 18.

1. **Send this Form and TWO Complete Copies** (documents and maps) of the Adopted Amendment to:  
**ATTENTION: PLAN AMENDMENT SPECIALIST**  
**DEPARTMENT OF LAND CONSERVATION AND DEVELOPMENT**  
**635 CAPITOL STREET NE, SUITE 150**  
**SALEM, OREGON 97301-2540**
2. Electronic Submittals: At least **one** hard copy must be sent by mail or in person, or by emailing
3. **Please Note:** Adopted materials must be sent to DLCD not later than **FIVE (5) working days** following the date of the final decision on the amendment.
4. Submittal of this Notice of Adoption must include the text of the amendment plus adopted findings and supplementary information.
5. The deadline to appeal will not be extended if you submit this notice of adoption within five working days of the final decision. Appeals to LUBA may be filed within **twenty-one (21) days** of the date, the Notice of Adoption is sent to DLCD.
6. In addition to sending the Notice of Adoption to DLCD, you must notify persons who participated in the local hearing and requested notice of the final decision.
7. **Need More Copies?** You can now access these forms online at \_\_\_\_\_ . Please print on \_\_\_\_\_. You may also call the DLCD Office at (503) 373-0050; or Fax your request to: (503) 378-5518; or Email your request to \_\_\_\_\_ - **Attention: Plan Amendment Specialist.**

## **ORDINANCE # 159**

### **FLOOD DAMAGE PREVENTION ORDINANCE**

#### **AN ORDINANCE CONCERNING FLOOD HAZARDS; REQUIRING PERMITS; SETTING STANDARDS FOR CONSTRUCTION; REPEALING PRIOR ORDINANCES 51, 78 & 95 FLOOD DAMAGE PREVENTION AND DECLARING AN EMERGENCY**

**THE CITY OF ELKTON ORDAINS AS FOLLOWS:**

#### **1.0 AUTHORIZATION, FINDINGS OF FACT, PURPOSE, AND OBJECTIVES**

##### **1.1 AUTHORIZATION**

The State of Oregon has in statutes delegated the responsibility to local governmental units to adopt regulations designed to promote the public health, safety, and general welfare of its citizenry. Therefore, the City of Elkton, does ordain as follows:

##### **1.2 FINDINGS OF FACT**

- (1) The flood hazard areas of the City of Elkton are subject to periodic inundation which results in loss of life and property, health, and safety hazards, disruption of commerce and governmental services, extraordinary public expenditures for flood protection and relief, and impairment of the tax base, all of which adversely affect the public health, safety, and general welfare.
- (2) These flood losses are caused by the cumulative effect of obstructions in areas of special flood hazards which increase flood heights and velocities, and when inadequately anchored, damage uses in other areas. Uses that are inadequately flood proofed, elevated, or otherwise protected from flood damage also contribute to the flood loss.

##### **1.3 STATEMENT OF PURPOSE**

It is the purpose of this ordinance 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.

##### **1.4 METHODS OF REDUCING FLOOD LOSSES**

In order to accomplish its purposes, this ordinance includes methods and provisions for:

- (1) Restricting or prohibiting uses which are dangerous to health, safety, and property due to water or erosion hazards, or which result in damaging increases in erosion or in flood heights or velocities;
- (2) Requiring that uses vulnerable to floods, including facilities which serve such uses, be protected against flood damage at the time of initial construction;

- (3) Controlling the alteration of natural flood plains, stream channels, and natural protective barriers, which help accommodate or channel flood waters;
- (4) Controlling filling, grading, dredging, and other development which may increase flood damage;
- (5) Preventing or regulating the construction of flood barriers which will unnaturally divert flood waters or may increase flood hazards in other areas.
- (6) Coordinating and supplementing the provisions of the state building code with local land use and development ordinances

## 2.0 DEFINITIONS

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

**"APPEAL"** means a request for a review of the interpretation of any provision of this ordinance or a request for a variance.

**"AREA OF SHALLOW FLOODING"** means a designated AO, or AH Zone on the Flood Insurance Rate Map (FIRM). The base flood depths range from one to three feet; 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 and AH indicates ponding.*

**"AREA OF SPECIAL FLOOD HAZARD"** means the land in the flood plain 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.

**"BASE FLOOD"** means the flood having a one percent chance of being equaled or exceeded in any given year. Also referred to as the "100-year flood." Designation on maps always includes the letters A or V.

**"BASEMENT"** means any area of the building having its floor sub grade (below ground level) on all sides.

**"BELOW-GRADE CRAWL SPACE"** means an enclosed area below the base flood elevation in which the interior grade is not more than two feet below the lowest adjacent exterior grade and the height, measured from the interior grade of the crawlspace to the top of the crawlspace foundation, does not exceed 4 feet at any point

**"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, installations which produce, use or store hazardous materials or hazardous waste.*

**"DEVELOPMENT"** means any man-made change to improved or unimproved real estate, including but not limited to buildings or other structures, mining, dredging, filling, grading, paving, excavation or drilling operations or storage of equipment or materials located within the area of special flood hazard.

**"ELEVATED BUILDING"** means for insurance purposes, a nonbasement building which has its lowest elevated floor raised above ground level by foundation walls, shear walls, post, piers, pilings, or columns.

**"EXISTING MANUFACTURED HOME PARK OR SUBDIVISION"** means a manufactured home park 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.

**"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).

**"FLOOD" OR "FLOODING"** means a general and temporary condition of partial or complete inundation of normally dry land areas from:

- (1) The overflow of inland or tidal waters and/or
- (2) The unusual and rapid accumulation of runoff of surface waters from any source.

**"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.

**"FLOOD INSURANCE STUDY"** means the official report provided by the Federal Insurance Administration that includes flood profiles, the Flood Boundary-Floodway Map, and the water surface elevation of the base flood.

**"FLOODWAY"** means the channel of a river or other watercourse and the adjacent land areas that must be reserved in order to discharge the base flood without cumulatively increasing the water surface elevation more than one foot.

**"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 non-elevation design requirements of this ordinance found at Section 5.2-1(2).

**"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 attached to the required utilities. *The term "manufactured home" does not include a "recreational vehicle."*

**"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.

**"NEW CONSTRUCTION"** means structures for which the "start of construction" commenced on or after the effective date of this ordinance.

**"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 or after the effective date of adopted floodplain management regulations.

***"RECREATIONAL VEHICLE" means a vehicle which is:***

- (a) *Built on a single chassis;*
- (b) *400 square feet or less when measured at the largest horizontal projection;*
- (c) *Designed to be self-propelled or permanently towable by a light duty truck; and*
- (d) *Designed primarily not for use as a permanent dwelling but as temporary living quarters for recreational, camping, travel, or seasonal use.*

**"SEVERABILITY"**

If any section clause, sentence, or phrase of the Ordinance is held to be invalid or unconstitutional by any court of competent jurisdiction, then said holding shall in no way effect the validity of the remaining portions of this Ordinance.

**"START OF CONSTRUCTION"** includes substantial improvement, and means the date the building permit was issued provided the actual start of construction, repair, reconstruction, placement or other improvement was within 180 days of the permit date. The actual start means either the first placement of permanent construction of a structure on 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 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.

**"STATE BUILDING CODE"** means the combined specialty codes adopted by the State of Oregon.

**"STRUCTURE"** means a walled and roofed building including a gas or liquid storage tank that is principally above ground.

**"SUBSTANTIAL DAMAGE"** means damage of any origin sustained by a structure whereby the cost of restoring the structure to its before damaged condition would equal or exceed 50 percent of the market value of the structure before the damage occurred.

**"SUBSTANTIAL IMPROVEMENT"** means any repair, reconstruction, or improvement of a structure, the cost of which equals or exceeds 50 percent of the market value of the structure either:

- (1) Before the improvement or repair is started; or
- (2) 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 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 structure listed on the National Register of Historic Places or a State Inventory of Historic Places.

**"VARIANCE"** means a grant of relief from the requirements of this ordinance which permits construction in a manner that would otherwise be prohibited by this ordinance.

**"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.

### **3.0 GENERAL PROVISIONS**

#### **3.1 LANDS TO WHICH THIS ORDINANCE APPLIES**

This ordinance shall apply to all areas of special flood hazards within the jurisdiction of the City of Elkton.

#### **3.2 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 Douglas County, Oregon and Incorporated Areas*", dated February 17, 2010", with accompanying Flood Insurance Map (FIRM) is hereby adopted by reference and declared to be part of this ordinance. The Flood Insurance Study and the FIRM are on file at Elkton City Hall, 366 First Street, Elkton, Oregon. *The best available information for flood hazard area identification as outlined in Section 4-3.2 shall be the basis for regulation until a new FIRM is issued which incorporates the data utilized under Section 4.3-2.*

#### **3.3 PENALTIES FOR NONCOMPLIANCE**

*No structure or land shall hereafter be constructed, located, extended, converted, or altered without full compliance with the terms of this ordinance and other applicable regulations. Violations of the provisions of this ordinance by failure to comply with any of its requirements (including violations of conditions and safeguards established in connection with conditions) shall constitute a misdemeanor. Any person who violates this ordinance or fails to comply with any of its requirements shall upon conviction thereof be fined not more than \$1500.00, for each violation, and in addition shall pay all costs and expenses involved in the case. Nothing*

*herein contained shall prevent the City of Elkton from taking such other lawful action as is necessary to prevent or remedy any violation.*

### **3.4 ABROGATION AND GREATER RESTRICTIONS**

*This ordinance is not intended to repeal, abrogate, or impair any existing easements, covenants, or deed restrictions. However, where this ordinance and another ordinance, state building code, easement, covenant, or deed restriction conflict or overlap, whichever imposes the more stringent restrictions shall prevail.*

### **3.5 INTERPRETATION**

*In the interpretation and application of this ordinance, all provisions shall be:*

- (1) Considered as minimum requirements;*
- (2) Liberally construed in favor of the governing body; and,*
- (3) Deemed neither to limit or repeal any other powers granted under State statutes and rules including the state building code.*

### **3.6 WARNING AND DISCLAIMER OF LIABILITY**

*The degree of flood protection required by this ordinance is considered reasonable for regulatory purposes and is based on scientific and engineering considerations. Larger floods can and will occur on rare occasions. Flood heights may be increased by man-made or natural causes. This ordinance does not imply that land outside the areas of special flood hazards or uses permitted within such areas will be free from flooding or flood damages. This ordinance shall not create liability on the part of city/town/county/tribe, any officer or employee thereof, or the Federal Insurance Administration, for any flood damages that result from reliance on this ordinance or any administrative decision lawfully made hereunder.*

## **4.0 ADMINISTRATION**

### **4.1 ESTABLISHMENT OF DEVELOPMENT PERMIT REQUIRED**

#### **4.1.1 DEVELOPMENT PERMIT**

A development permit shall be obtained before construction or development begins within any area of special flood hazard established in Section 3.2. The permit shall be for all structures including manufactured homes, as set forth in the "DEFINITIONS", and for all development including fill and other activities, also set forth in the "DEFINITIONS".

#### **4.1-2 Application for Development Permit**

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

- (1) Elevation in relation to mean sea level, of the lowest floor (including basement) of all structures;*
- (2) Elevation in relation to mean sea level of flood proofing in any structure;*
- (3) Certification by a registered professional engineer or architect that the flood proofing methods for any nonresidential structure meet the flood proofing criteria in Section 5.2-2; and*
- (4) Description of the extent to which a watercourse will be altered or relocated as a result of proposed development.*

### **4.2 DESIGNATION OF THE LOCAL ADMINISTRATOR**

The Elkton City Administration is hereby appointed to administer and implement this ordinance by granting or denying development permit applications in accordance with its provisions.



### **4.3 DUTIES AND RESPONSIBILITIES OF THE LOCAL ADMINISTRATOR**

Duties of the local administrator shall include, but not be limited to:

#### **4.3-1 PERMIT REVIEW**

- (1) Review all development permits to determine that the permit requirements and conditions of this ordinance have been satisfied.
- (2) 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.
- (3) Review all development permits to determine if the proposed development is located in the floodway. If located in the floodway, assure that the encroachment provisions of Section 5.4(1) are met.

#### **4.3-2 USE OF OTHER BASE FLOOD DATA**

When base flood elevation data has not been provided (*A and V Zones*) in accordance with Section 3.2, BASIS FOR ESTABLISHING THE AREAS OF SPECIAL FLOOD HAZARD, the Elkton City Council 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 5.2, SPECIFIC STANDARDS, and 5.4 FLOODWAYS.

#### **4.3-3 INFORMATION TO BE OBTAINED AND MAINTAINED**

- (1) Where base flood elevation data is provided through the Flood Insurance Study, FIRM, or required as in Section 4.3-2 obtain and record the actual (as-built) elevation (in relation to mean sea level) of the lowest floor (including basements and below-grade crawlspaces) of all new or substantially improved structures, and whether or not the structure contains a basement.
- (2) For all new or substantially improved flood proofed structures where elevation data is provided through the Flood Insurance Study, FIRM, or as required in Section 4.3-2:
  - (i) Obtain and record the actual elevation (in relation to mean sea level) to which the structure was flood proofed, and
  - (ii) Maintain the flood proofing certifications required in Section 4.1-2(3).
- (3) Maintain for public inspection all records pertaining to the provision of this ordinance.

#### **4.3-4(1) ALTERATION OF WATERCOURSES**

*Notify adjacent communities, the State Department of Land Conservation and Development, and other appropriate state and federal agencies prior to any alteration or relocation of a watercourse, and submit evidence of such notification to the Federal Insurance Administration.*

#### **4.3-4(2) ALTERATION OF WATERCOURSES**

*Require that maintenance is provided within the altered or relocated portion of said watercourse so that the flood carrying capacity is not diminished.*

#### **4.3-5 INTETPRETATION 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. Such appeals shall be granted consistent with the standards of Section 60.6 of the Rules and Regulations of the National Flood Insurance Program (44 CFR)."

### **5.0 PROVISIONS FOR FLOOD HAZARD REDUCTION**

#### **5.1 GENERAL STANDARDS**

In all areas of special flood hazards, the following standards are required:

### **5.1-1(1) ANCHORING**

All new construction and substantial improvements shall be anchored to prevent flotation, collapse, or lateral movement of the structure.

### **5.1-1(2) ANCHORING**

*All manufactured homes must likewise be anchored to prevent flotation, collapse, or lateral movement, and shall be installed using methods and practices that minimize flood damage. Anchoring methods may include, but are not limited to; use of over-the-top or frame ties to ground anchors (Reference FEMA's "Manufactured Home Installation in Flood Hazard Areas" guidebook for additional techniques).*

### **5.1-2(1) CONSTRUCTION MATERIALS AND METHODS**

*All new construction and substantial improvements shall be constructed with materials and utility equipment resistant to flood damage.*

### **5.1-2(2) CONSTRUCTION MATERIALS AND METHODS**

*All new construction and substantial improvements shall be constructed using methods and practices that minimize flood damage.*

### **5.1-2(3) CONSTRUCTION MATERIALS AND METHODS**

*Electrical, heating, ventilation, plumbing, and air-conditioning equipment and other service facilities shall be designed and/or otherwise elevated or located so as to prevent water from entering or accumulating within the components during conditions of flooding.*

### **5.1-3(1), (3), and (4) UTILITIES**

(1) All new and replacement water supply systems shall be designed to minimize or eliminate infiltration of flood waters into the systems;

(2) New and replacement sanitary sewerage systems shall be designed to minimize or eliminate infiltration of flood waters into the systems and discharges from the systems into flood waters; and

(3) Onsite waste disposal systems shall be located to avoid impairment to them or contamination from them during flooding. *consistent with the Oregon Department of Environmental Quality*

### **5.1-4 SUBDIVISION PROPOSALS**

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

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

(3) All subdivision proposals shall have adequate drainage provided to reduce exposure to flood damage; and

(4) Where base flood elevation data has not been provided or is not available from another authorized source, it shall be generated for subdivision proposals and other proposed developments which contain at least 50 lots or 5 acres (whichever is less).

### **5.1-5 REVIEW OF BUILDING PERMITS**

Where elevation data is not available either through the Flood Insurance Study, FIRM, or from another authoritative source (Section 4.3-2), applications for building permits shall be reviewed to assure that

proposed construction will be reasonably safe from flooding. The test of reasonableness is a local judgment and includes use of historical data, high water marks, photographs of past flooding, etc., where available. Failure to elevate at least two feet above the highest adjacent grade in these zones may result in higher insurance rates.

## **5.2 SPECIFIC STANDARDS**

In all areas of special flood hazards where base flood elevation data has been provided (Zones A1-30, AH, and AE on the communities FIRM) as set forth in Section 3.2, BASIS FOR ESTABLISHING THE AREAS OF SPECIAL FLOOD HAZARD, or Section 4.3-2, Use of Other Base Flood Data (*In A and V Zones*), the following provisions are required:

### **5.2-1 RESIDENTIAL CONSTRUCTION**

(1) New construction and substantial improvement of any residential structure shall have the lowest floor, including basement, elevated a minimum of one (1) foot above the base flood elevation.

(2) 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.

### **5.2-2 NONRESIDENTIAL CONSTRUCTION**

New construction and substantial improvement of any commercial, industrial or other nonresidential structure shall either have the lowest floor, including basement, elevated at or above the level of the base flood elevation; or, together with attendant utility and sanitary facilities, shall:

(1) be flood proofed so that below the base flood level the structure is watertight with walls substantially impermeable to the passage of water;

*(2) have structural components capable of resisting hydrostatic and hydrodynamic loads and effects of buoyancy;*

(3) 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 design, specifications and plans. Such certifications shall be provided to the official as set forth in Section 4.3-3(2).

(4) Nonresidential structures that are elevated, not flood proofed, must meet the same standards for space below the lowest floor as described in 5.2-1(2).

(5) Applicants flood proofing nonresidential buildings shall be notified that flood insurance premiums will be based on rates that are one foot below the flood proofed level (e.g. a building flood proofed to the base flood level will be rated as one foot below the base flood level).

### **5.2-3 MANUFACTURED HOMES**

(1) All manufactured homes to be placed or substantially improved on sites:

*(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 which a manufactured home has incurred "substantial damage" as the result of a flood;*

*shall be elevated on a permanent foundation such that the finished floor of the manufactured home is elevated a minimum of 18 inches (46 cm) above the base flood elevation and be securely anchored to an adequately anchored foundation system to resist flotation, collapse and lateral movement.*

*(2) Manufactured homes to be placed or substantially improved on sites in an existing manufactured home park or subdivision that are not subject to the provisions of (1) above, be elevated so that either:*

*(i) The finished floor of the manufactured home is 18 inches (46 cm) 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 36 inches in height above grade and be securely anchored to an adequately anchored foundation system to resist flotation, collapse, and lateral movement.*

#### **5.2-4 RECREATIONAL VEHICLES**

*Recreational vehicles placed on sites are required to either:*

*(i) Be on the site for fewer than 180 consecutive days,*

*(ii) Be fully licensed and ready for highway use, 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*

*(iii) Meet the requirements of 5.2-3 above and the elevation and anchoring requirements for manufactured homes.*

#### **5.2-5 Below-grade crawl spaces**

*Below-grade crawlspaces are allowed subject to the following standards as found in FEMA Technical Bulletin 11-01, Crawlspace Construction for Buildings Located in Special Flood Hazard Areas:*

*i. The building must be designed and adequately anchored to resist flotation, collapse, and lateral movement of the structure resulting from hydrodynamic and hydrostatic loads, including the effects of buoyancy. Hydrostatic loads and the effects of buoyancy can usually be addressed through the required openings stated in Section B below. Because of hydrodynamic loads, crawlspace construction is not allowed in areas with flood velocities greater than five (5) feet per second unless the design is reviewed by a qualified design professional, such as a registered architect or professional engineer. Other types of foundations are recommended for these areas.*

*ii. The crawlspace is an enclosed area below the base flood elevation (BFE) and, as such, must have openings that equalize hydrostatic pressures by allowing the automatic entry and exit of floodwaters. The bottom of each flood vent opening can be no more than one (1) foot above the lowest adjacent exterior grade.*

*iii. Portions of the building below the BFE must be constructed with materials resistant to flood damage. This includes not only the foundation walls of the crawlspace used to elevate the building, but also any joists, insulation, or other materials that extend below the BFE. The recommended construction practice is to elevate the bottom of joists and all insulation above BFE.*

*iv. Any building utility systems within the crawlspace must be elevated above BFE or designed so that floodwaters cannot enter or accumulate within the system components during flood conditions. Ductwork, in particular, must either be placed above the BFE or sealed from floodwaters.*

*v. The interior grade of a crawlspace below the BFE must not be more than two (2) feet below the lowest adjacent exterior grade.*

*vi. The height of the below-grade crawlspace, measured from the interior grade of the crawlspace to the top of the crawlspace foundation wall must not exceed four (4) feet at any point. The height limitation is the maximum*

*allowable unsupported wall height according to the engineering analyses and building code requirements for flood hazard areas.*

*vii. There must be an adequate drainage system that removes floodwaters from the interior area of the crawlspace. The enclosed area should be drained within a reasonable time after a flood event. The type of drainage system will vary because of the site gradient and other drainage characteristics, such as soil types. Possible options include natural drainage through porous, well-drained soils and drainage systems such as perforated pipes, drainage tiles or gravel or crushed stone drainage by gravity or mechanical means.*

*viii. The velocity of floodwaters at the site should not exceed five (5) feet per second for any crawlspace. For velocities in excess of five (5) feet per second, other foundation types should be used.*

*viii. Citizens should be aware about the increased insurance cost associated with below-grade crawlspaces. There is a charge added to the basic policy premium for a below-grade crawlspace.*

### **5.3 FLOODWAYS**

(1) Prohibit encroachments, including fill, new construction, substantial improvements, and other development unless certification by a registered professional engineer is provided demonstrating through hydrologic and hydraulic analyses performed in accordance with standard engineering practice that the proposed encroachment would not result in any increase in flood levels during the occurrence of the base flood discharge.

(2) If Section (1) above is satisfied, all new construction and substantial improvements shall comply with all applicable flood hazard reduction provisions of Section 5.0, PROVISIONS FOR FLOOD HAZARD REDUCTION

*(3) Projects for stream habitat restoration may be permitted in the floodway provided:*

*(i) The project qualifies for a Department of the Army, Portland District Regional General Permit for Stream Habitat Restoration (NWP-2007-1023); and,*

*(ii) A qualified professional (a Registered Professional Engineer; or staff of NRCS; the county; or fisheries, natural resources, or water resources agencies) has provided a feasibility analysis and certification that the project was designed to keep any rise in 100-year flood levels as close to zero as practically possible given the goals of the project; and,*

*(iii) No structures would be impacted by a potential rise in flood elevation; and,*

*(iv) An agreement to monitor the project, correct problems, and ensure that flood carrying capacity remains unchanged is included as part of the local approval.*

*(4) New installation of manufactured dwellings are prohibited (2002 Oregon Manufactured Dwelling and Park Specialty Code). Manufactured dwellings may only be located in floodways according to one of the following conditions:*

*(i) If the manufactured dwelling already exists in the floodway, the placement was permitted at the time of the original installation, and the continued use is not a threat to life, health, property, or the general welfare of the public; or*

*(ii) A new manufactured dwelling is replacing an existing manufactured dwelling whose original placement was permitted at the time of installation and the replacement home will not be a threat to life, health, property, or the general welfare of the public and it meets the following criteria*

*1. As required by 44 CFR Chapter 1, Subpart 60.3(d)(3), it must be demonstrated through hydrologic and hydraulic analyses performed in accordance with standard engineering practices that the manufactured dwelling and any accessory buildings, accessory structures, or any property improvements (encroachments) will not result in any increase in flood levels during the occurrence of the base flood discharge;*

*2. The replacement manufactured dwelling and any accessory buildings or accessory structures (encroachments) shall have the finished floor elevated a minimum of 18 inches (46 cm) above the BFE as identified on the Flood Insurance Rate Map;*

3. *The replacement manufactured dwelling is placed and secured to a foundation support system designed by an Oregon professional engineer or architect and approved by the authority having jurisdiction;*
4. *The replacement manufactured dwelling, its foundation supports, and any accessory buildings, accessory structures, or property improvements (encroachments) do not displace water to the degree that it causes a rise in the water level or diverts water in a manner that causes erosion or damage to other properties;*
5. *The location of a replacement manufactured dwelling is allowed by the local planning department's ordinances; and*
6. *Any other requirements deemed necessary by the authority having jurisdiction.*
7. *The replacement manufactured dwelling is placed and secured to a foundation support system designed by an Oregon professional engineer or architect and approved by the authority having jurisdiction;*
8. *The replacement manufactured dwelling, its foundation supports, and any accessory buildings, accessory structures, or property improvements (encroachments) do not displace water to the degree that it causes a rise in the water level or diverts water in a manner that causes erosion or damage to other properties;*
9. *The location of a replacement manufactured dwelling is allowed by the local planning department's ordinances; and*
10. *Any other requirements deemed necessary by the authority having jurisdiction. in the Tsunami Inundation Zone.*

**5.4 CRITICAL FACILITY**

*Construction of new critical facilities shall be, to the extent possible, located outside the limits of the Special Flood Hazard Area (SFHA) (100-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 or to the height of the 500-year flood, whichever is higher. Access to and from the critical facility should also be protected to the height utilized above. Flood proofing 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.*

In as much as this ordinance is necessary for the immediate reservation of the public health, peace, and safety of the City of Elkton, in that residents and inhabitants of the City of Elkton who reside or plan to reside in flood hazard areas be made aware of the possible danger existing to their property due to unforeseen flooding and that they be able to protect themselves against flood damage, it is deemed necessary that an emergency be and the same hereby is declared to exist, and this ordinance shall be in force and effect from and after its passage by council and approved by the Mayor.

ADOPTED BY THE COMMON COUNCIL of the City of Elkton this 14<sup>th</sup> day of Jan, 2010

APPROVED AND SIGNED by the Mayor of the City of Elkton this 14<sup>th</sup> day of Jan, 2010

Rebecca Swearingen  
Mayor

Linda Higgins  
Attest

Yeas: 3 present  
Nays: 0

City of Elkhart  
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