

CHAPTER SIXTEEN

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ARTICLE 1 — Statutory Authorization, Findings of Fact, Purpose and Objectives

16.0101 Statutory Authorization

The Legislature of the State of North Dakota has in North Dakota Century Code, Chapters 40-47, 11-33 and 58-03, delegated responsibility to local governmental units to adopt regulations designed to promote the public health, safety, and general welfare of its citizenry.

Therefore, the City Council of the City of Alexander, North Dakota does ordain as follows:

16.0102 Findings of Fact

1. The flood hazard areas of City of Alexander are subject to periodic inundation which can endanger life, result in loss of property, create health and safety hazards, disrupt commerce and governmental services, cause extraordinary public expenditures for flood protection and relief, and impair the tax base, all of which adversely affect the public health, safety, and general welfare.
2. Flood losses caused by the cumulative effect of obstructions in the special flood hazard areas cause increases in flood heights and velocities. Inadequately flood proofed elevated or otherwise unprotected structures also contribute to the flood loss.

16.0103 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 for 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 special flood hazard areas;
6. To help maintain a stable tax base by providing for the second use and development of special flood hazard areas so as to minimize future flood blight areas;
7. To ensure that potential buyers are notified that property is in a special flood hazard area; and,
8. To ensure that those who occupy the special flood hazard areas assume responsibility for their actions.

16.0104 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 floodplains, 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; and,

5. Preventing or regulating the construction of flood barriers which will unnaturally divert flood waters or which may increase flood hazards in other areas.

## ARTICLE 2 – Definitions

### 16.0201 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.

1. Appeal – a request for a review of the City Council’s interpretation of any provision of this ordinance or a request for a variance.
2. Base flood or 100-year flood – the flood having a one percent chance of being equaled or exceeded in any given year.
3. Base Flood Elevation – (BFE) the height of the base flood or 100-year flood usually in feet above mean sea level.
4. Basement – any area of the building having its floor subgrade (below ground level) on all sides.
5. Best Available Data – (BAD) water elevation information from any source used to estimate or determine a base flood elevation (i.e. high water mark).
6. Conveyance or hydraulic conveyance – a geometric characteristic of a river or watercourse at a given point that determines the flow-carrying capacity at that point.
7. Development – 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 located within the special flood hazard area.
8. Flood Insurance Rate Map – (FIRM) the official map issued by the Federal Emergency Management Agency where special flood hazard areas are designated as Zone A, AE, AO, AH, A1-A30 or A-99.
9. Flood Insurance Study – (FIS) the official report provided by the Federal Emergency Management Agency that includes flood profiles, the Flood Insurance Rate Map, and the water surface elevation of the base flood.
10. Flood or flooding – a general and temporary condition of partial or complete inundation of normally dry land areas from the overflow of inland or tidal waters and/or; from the unusual and rapid accumulation or runoff of surface waters from any source.
11. Flood proofing – (Dry) protection provided a structure, together with attendant utilities and sanitary facilities, which is watertight two feet above the base flood elevation with walls that are substantially impermeable to the passage of water.
12. Floodway or regulatory 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.
13. Lowest floor – the lowest floor of a structure including the basement.
14. 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. The term “manufactured home” does not include a “recreational vehicle”, but does include “mobile home”.
15. Manufactured Home Park or Subdivision – a parcel (or contiguous parcels) of land divided into two or more manufactured home lots for rent or sale.
16. New construction – structures for which the “start of construction” commenced on or after the effective date of this ordinance.
17. Reasonably safe from flooding – base flood waters will not inundate the land or damage structures to be removed from the special flood hazard area, and that any subsurface waters related to the base flood will not damage existing or proposed buildings.

18. Recreational vehicle – 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;
  - d. designed primarily not for use as a permanent dwelling but as temporary living quarters for recreational camping, travel, or seasonal use; including, but not limited to;
  - e. travel trailers, trailers on wheels, park-model trailers, and other similar vehicles.
19. Special Flood Hazard Area – (SFHA) an area of land that would be inundated by a flood having a one percent chance of being equaled or exceeded in any given year.
20. 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 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.
21. Structure – a walled and roofed building, including manufactured homes and gas or liquid above-ground storage tanks.
22. Substantial damage – damage of any origin sustained by a structure whereby the cost of restoring the building to its pre-damaged condition would equal or exceed 50 percent of the market value of the structure before the damage occurred.
23. 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:
  - 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 does not, however, include either:

  - a. Any project for improvement of a structure to comply with existing state or local health, sanitary, or safety code specifications which are solely necessary to assure safe living conditions; or
  - b. Any alteration of a structure listed on the National Register of Historic Places or a State Inventory of Historic Places.
24. Variance – a grant of relief from the requirements of this ordinance which permits construction in a manner that would otherwise be prohibited by this ordinance.

### ARTICLE 3 – General Provisions

#### 16.0301 Lands to Which This Ordinance Applies

This ordinance shall apply to all special flood hazard areas within the jurisdiction of the City of Alexander.

#### 16.0302 Basis for Establishing the Special Flood Hazard Areas

The special flood hazard areas identified by the Federal Emergency Management Agency in a scientific and engineering report entitled “The Flood Insurance Study for the City of Alexander, dated September 2<sup>nd</sup>, 2015, with an

accompanying Flood Insurance Rate Map is hereby adopted by reference and declared to be a part of this ordinance. The Flood Insurance Study is on file at the Alexander City Hall, 112 Manning Ave. Alexander, ND 58831.

16.0303 Compliance

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.

16.0304 Greater Restrictions

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

16.0305 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 nor repeal any other powers granted under state statutes.

16.0306 Warning and Disclaimer or 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 manmade or natural causes. This ordinance does not imply that land outside the special flood hazard areas or uses permitted within such areas will be free from flooding or flood damages. This ordinance shall not create liability on the part of the City of Alexander, any officer or employee thereof, or the Federal Emergency Management Agency, for any flood damages that result from reliance on this ordinance or any administrative decision lawfully made thereunder.

ARTICLE 4 – Administration

16.0401 Establishment of Development Permit

A development permit shall be obtained before construction or development begins within any special flood hazard area established in Section 16.0302. Application for a development permit shall be made on forms furnished by City Council 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 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 of all structures;
2. Elevation in relation to mean sea level to which any structure has been flood proofed;
3. Certification by a registered professional engineer or architect that the flood proofing methods for any non-residential structure meet the flood proofing criteria in Section 16.0502(2); and,
4. Description of the extent to which any watercourse will be altered or relocated as a result of proposed development.

16.0402 Designation of the Mayor and City Auditor

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

16.0403 Duties and Responsibilities of the Mayor and City Auditor

Duties of the Mayor and/or City Auditor shall include, but not be limited to:

1. Permit Review

- a. Review all development permits to determine that the permit requirements of this ordinance have been satisfied.
- b. 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.
- c. 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 16.0503(1) are met.

2. Use of Other Base Flood Data

When base flood elevation data has not been provided in accordance with Section 16.0302, Basis for Establishing the Special Flood Hazard Areas, the Mayor and/or City Auditor shall obtain, review, and reasonably utilize any base flood elevation data and floodway data available (known as best available data) from a federal, state, or other source, as criteria for requiring that new construction, substantial improvements, or other development in the floodplain are administered in accordance with Section 16.0502, Specific Standards.

3. Information to be Obtained and Maintained

- a. 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 flood proofed structures:
  - i. obtain and record the actual elevation (in relation to mean sea level) to which the structure has been flood proofed;
  - ii. maintain the flood proofing certifications required in Section 16.0401(3).
- c. Maintain for public inspection all records pertaining to the provisions of this ordinance.

4. Alteration of Watercourses

The responsible person shall:

- a. Notify nearby communities, water resource districts, and the North Dakota State Engineer, as necessary, prior to any alteration or relocation of a watercourse, and submit evidence of such notification to the Federal Emergency Management Agency.
- b. Require that maintenance is provided within the altered or relocated portion of said watercourse so that the flood carrying capacity is not diminished; and,
- c. Notify the appropriate water resource district prior to removal or placement of fill within two hundred feet of the bank of a body of water during normal flow or stage.

5. Interpretation of Flood Insurance Rate Map (FIRM) Boundaries

Make interpretation where needed, as to the exact location of the boundaries of the special flood hazard areas (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 16.0404.

16.0404 Variance Procedure

1. Appeal Board

- a. The City Council as established by City of Alexander shall hear and decide appeals and requests for variances from the requirements of this ordinance.

- b. The City Council shall hear and decide appeals when it is alleged there is an error in any requirement, decision, or determination in the enforcement or administration of this ordinance.
- c. Those aggrieved by the decision of the City Council or any taxpayer, may appeal such decision to the McKenzie County Court, as provided in NDCC 40-47-11, 11-33-12, or 58-03-14.
- d. In passing upon such applications, the City Council shall consider all technical evaluations, all relevant factors, standards specified in other sections of this ordinance; and:
  - i. the danger that materials may be swept onto other lands to the injury of others;
  - ii. the danger to life and property due to flooding or erosion damage;
  - iii. the susceptibility of the proposed facility and its contents to flood damage and the effect of such damage on the individual owner;
  - iv. the importance of the services provided by the proposed facility to the community;
  - v. the necessity to the facility of a waterfront location, where applicable;
  - vi. the availability of alternative locations, for the proposed use which are not subject to flooding or erosion damage;
  - vii. the compatibility of the proposed use with existing and anticipated development;
  - viii. the relationship of the proposed use to the comprehensive plan and floodplain management program for that area;
  - ix. the safety of access to the property in times of flood for ordinary and emergency vehicles;
  - x. the expected heights, velocity, duration, rate of rise, and sediment transport of the floodwaters and the effects of wave action, if applicable, expected at the site; and
  - xi. the costs of providing governmental services during and after flood conditions, including maintenance and repair of public utilities and facilities such as sewer, gas, electrical, and water systems, and streets and bridges.
- e. Generally, variances may be issued for new construction and substantial improvements to be erected on a lot of one-half acre to less in size contiguous to and surrounded by lots with existing structures constructed below the base flood level, providing items (i-xi) in Section 16.0404(d) have been fully considered. As the lot size increases beyond the one-half acre, the technical justification required for issuing the variance increases.
- f. Upon consideration of the factors of Section 16.0404(d) and the purposes of this ordinance, the City Council may attach such conditions to the granting of variances as it deems necessary to further the purposes of this ordinance.
- g. The Mayor and/or City Auditor shall maintain the records of all appeal actions and report any variances to the Federal Emergency Management Agency upon request.

## 2. Conditions for Variances

- a. Variances may be issued for the reconstruction, rehabilitation, or restoration of structures listed on the National Register of Historic Places or the State Inventory of Historic Places, without regard to the procedures set forth in the remainder of this section.
- b. Variances shall not be issued within the identified floodplain if any increase in flood levels during the base flood discharge would result.
- c. Variances shall only be issued upon a determination that the variance is the minimum necessary, considering the flood hazard, to afford relief.
- d. Variances shall only be issued upon:
  - i. a showing of good and sufficient cause;
  - ii. a determination that failure to grant the variance would result in exceptional hardship to the applicant; and,

- iii. a determination that the granting of a variance will not result in increased flood heights, additional threats to public safety, cause fraud on or victimization of the public as identified in Section 16.0404(d), or conflict with existing local laws or ordinances.
- e. Any applicant to whom a variance is granted shall be given written notice that the structure will be permitted to be built with a lowest floor elevation below the base flood elevation and that the cost of flood insurance will be commensurate with the increased risk resulting from the reduced lowest floor elevation.

ARTICLE 5 – Provisions for Flood Hazard Reduction

16.0501 General Standards

In all special flood hazard areas the following standards are required:

1. Anchoring
  - a. All new construction and substantial improvements, including additions, shall be anchored to prevent flotation, collapse or lateral movement of the structure.
  - b. All manufactured homes must be elevated and anchored to resist 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 requirement is in addition to applicable State and local anchoring requirements for resisting wind forces.
2. Construction Materials and Methods
  - a. All new construction and substantial improvements shall be constructed with materials and utility equipment resistant to flood damage.
  - b. All new and substantial improvements shall be constructed using methods and practices that minimize flood damage.
  - c. All new construction and substantial improvements shall be constructed with electrical, heating, ventilation, plumbing and air conditioning equipment, and other service facilities that are designed and/or located so as to prevent water from entering or accumulating within the components during conditions of flooding.
3. Utilities
  - a. All new and replacement water supply systems shall be designed to minimize or eliminate infiltration of flood waters into the system;
  - b. New and replacement sanitary sewage systems shall be designed to minimize or eliminate infiltration of flood waters into the systems and discharge from the systems into flood waters; and,
  - c. On-site waste disposal systems shall be located to avoid impairment to them or contamination from them during flooding.
4. 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 damage; and,
  - d. Base flood elevation data shall be provided for subdivision proposals and other proposed development which contain at least 50 lots or 5 acres (whichever is less).

16.0502 Specific Standards



In all special flood hazard areas where base flood elevation data have been provided as set forth in Section 16.0302 Basis for Establishing the Special Flood Hazard Areas or Section 16.0403(2), Use of Other Base Flood Data, the following provisions are required:

1. Residential Construction

New construction and substantial improvement of any residential structure shall have the lowest floor, including basement, elevated on fill to at least one foot above the base flood elevation.

2. Nonresidential Construction

Construction and substantial improvement of any nonresidential structure shall either have the lowest floor, including basement, elevated on fill to at least one foot above the base flood elevation or, together with attendant utility and sanitary facilities shall:

- a. Be flood proofed to at least two feet above the base flood elevation, so that below this elevation the structure is watertight with walls substantially impermeable to the passage of water.
- 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 standards of this subsection are satisfied. Such certification shall be provided to the official as set forth in Section 16.0403(3(b)).

3. Manufactured Homes

- a. Manufactured homes shall be anchored in accordance with Section 16.0501(1(b)).
- b. All manufactured homes or those to be substantially improved shall be elevated on a permanent foundation such that the lowest floor of the manufactured home is elevated on fill to at least one foot above the base flood elevation, and is securely anchored to an adequately anchored foundation system.

16.0503 Floodways

Located within the special flood hazard areas established in Section 16.0302 are areas designated as floodways. Since the floodway is an extremely hazardous area due to the velocity of flood waters which carry debris, potential projectiles, and erosion potential, the following provisions apply:

1. Prohibit encroachments, including fill, new construction, substantial improvements, and other development unless certification by a registered professional engineer or architect is provided demonstrating that encroachments shall not result in any increase in flood levels during the occurrence of the base flood discharge.
2. If Section 16.0503(1) is satisfied, all new construction and substantial improvements shall comply with all applicable flood hazard reduction provisions of ARTICLE 5 Provisions for Flood Hazard

ARTICLE 6 – Penalties for Violations

Violation of the provisions of this ordinance or failure to comply with any of its requirements, including violations on conditions and safeguards established in connection with grants or variances or conditional uses, shall constitute a misdemeanor. Any person who violates this ordinance or fails to comply with any of its requirements shall upon conviction thereof be punished by a fine not exceeding five hundred dollars (\$500.00) or by imprisonment not to exceed 30 days or by both such fine and imprisonment for each such offense, and in addition shall pay costs and expenses involved in the case. Each day such violation continues shall be considered a separate offense.

Nothing herein contained shall prevent the City Council from taking such other lawful action as is necessary to prevent or remedy any violation.

