

ORDINANCE 2023-20

AN ORDINANCE AMENDING THE STANDARDS FOR FEMA MAPS AND RELATED FLOOD INSURANCE PROVISIONS

WHEARAS; The City has ordinances which facilitate FEMA rules and regulations in relation to flood plains and the various flood zones; and

WHEARAS; The City is required to periodically verify the ordinance is in compliance with the federal rules related to FEMA; and

WHEARAS; The City has reviewed its ordinances and needs to make the appropriate adjustments below.

NOW THEREFORE, BE IT ORDAINED by the North Ogden City Council that the North Ogden City Code be amended as follows.

SECTION 1: The North Ogden City Code Title 10 Chapter 4 be rewritten as outlined below.

10-4-1: STATUTORY AUTHORIZATION; FINDINGS OF FACT; PURPOSE; METHODS

- A. Statutory Authorization: The legislature of the state of Utah has delegated the authority to local governmental units, by virtue of Utah Code § 10-8-84, to pass ordinances and regulations designated to promote the public health, safety, and general welfare of its citizens, and to adopt regulations designed to minimize flood losses. Therefore, the city council of North Ogden City, Utah, does hereby ordain as follows.
- B. Findings Of Fact:
1. The flood hazard areas of North Ogden City are subject to periodic inundation that results in loss of life and property, health and safety hazards, disruption of commerce and governmental services, and extraordinary public expenditures for flood protection and relief, all of which adversely affect the public health, safety and general welfare.
 2. These flood losses are created by the cumulative effect of obstructions in floodplains which cause an increase in flood heights and velocities, and by the occupancy of flood hazard areas by uses vulnerable to floods and hazardous to other lands because they are inadequately elevated, floodproofed or otherwise protected from flood damage.
- C. Statement Of Purpose: It is the purpose of this chapter 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 to:

1. Protect human life and health;
2. Minimize expenditure of public money for costly flood control projects;
3. Minimize the need for rescue and relief efforts associated with flooding and generally undertaken at the expense of the general public;
4. Minimize prolonged business interruptions;
5. Minimize damage to public facilities and utilities such as water and gas mains, electric, telephone and sewer lines, streets and bridges located in floodplains;
6. Help maintain a stable tax base by providing for the sound use and development of flood prone areas in such a manner as to minimize future flood blight areas; and
7. Ensure that potential buyers are notified that property is in a flood area.

D. Methods Of Reducing Flood Losses: In order to accomplish its purposes, this chapter uses the following methods:

1. Restrict or prohibit uses that are dangerous to health, safety or property in times of flood, or cause excessive increases in flood heights or velocities;
2. Require that uses vulnerable to floods, including facilities which serve such uses, be protected against flood damage at the time of initial construction;
3. Control the alteration of natural floodplains, stream channels, and natural protective barriers, which are involved in the accommodation of floodwaters;
4. Control filling, grading, dredging and other development which may increase flood damage;
5. Prevent or regulate the construction of flood barriers which will unnaturally divert floodwaters or which may increase flood hazards to other lands.

10-4-2: DEFINITIONS

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

ALLUVIAL FAN FLOODING: Flooding occurring on the surface of an alluvial fan or similar landform which originates at the apex and is characterized by high velocity flows, active processes of erosion, sediment transport, and deposition, and unpredictable flow paths.

APEX: A point on an alluvial fan or similar landform below which the flow path of the major stream that formed the fan becomes unpredictable and alluvial fan flooding can occur.

AREA OF SHALLOW FLOODING: A designated AO, AH, or VO zone on a community's flood insurance rate map (FIRM) with a one percent (1%) chance or greater annual chance of flooding to an average depth of one to three feet (3') where a clearly defined channel does not exist, where the path of flooding is unpredictable and where velocity flow may be evident. Such

flooding is characterized by ponding or sheet flow.

AREA OF SPECIAL FLOOD HAZARD: The land in the floodplain within a community subject to a one percent (1%) or greater chance of flooding in any given year. The area may be designated as zone A on the flood hazard boundary map (FHBM). After detailed ratemaking has been completed in preparation for publication of the FIRM, zone A usually is refined into zone A, AE, AH, AO, A1-99, VO, V1-30, VE or V.

BASE FLOOD: The flood having a one percent (1%) chance of being equaled or exceeded in any given year.

BASEMENT: Any area of the building having its floor subgrade (below ground level) on all sides.

CRITICAL FEATURE: An integral and readily identifiable part of a flood protection system, without which the flood protection provided by the entire system would be compromised.

DEVELOPMENT: Any manmade change in improved and unimproved real estate including, but not limited to, buildings or other structures, mining, dredging, filling, grading, paving, excavation or drilling operations or storage of equipment or materials.

ELEVATED BUILDING: A nonbasement building: a) built, in the case of a building in zones A1-30, AE, A, A99, AO, AH, B, C, X, and D, to have the top of the elevated floor, or in the case of a building in zone V1-30, VE, or V, to have the bottom of the lowest horizontal structure member of the elevated floor elevated above the ground level by means of pilings, columns (posts and piers), or shear walls parallel to the flow of the water and b) adequately anchored so as not to impair the structural integrity of the building during a flood of up to the magnitude of the base flood. In the case of zones A1-30, AE, A, A99, AO, AH, B, C, X, and D, "elevated building" also includes a building elevated by means of fill or solid foundation perimeter walls with openings sufficient to facilitate the unimpeded movement of floodwaters. In the case of zones V1-30, VE, or V, "elevated building" also includes a building otherwise meeting the definition of "elevated building", even though the lower area is enclosed by means of breakaway walls if the breakaway walls meet the standards of section 60.3(e)(5) of the national flood insurance program regulations.

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

EXISTING MANUFACTURED HOME PARK OR SUBDIVISION: A manufactured home park or subdivision for which the construction of facilities for servicing the lots on which the manufactured homes are to be affixed (including, at a minimum, the installation of utilities, the construction of streets, and either final site grading or the pouring of concrete pads) is completed before the effective date of the floodplain management regulations adopted by a community.

EXPANSION TO AN EXISTING MANUFACTURED HOME PARK OR SUBDIVISION: The preparation of additional sites by the construction of facilities for servicing the lots on which the manufactured homes are to be affixed (including the installation of utilities, the construction of streets, and either final site grading or the pouring of concrete pads).

FLOOD INSURANCE RATE MAP (FIRM): An official map of a community, on which the federal emergency management agency has delineated both the areas of special flood hazard and the risk premium zones applicable to the community.

FLOOD INSURANCE STUDY: The official report provided by the federal emergency management agency. The report contains flood profiles, water surface elevation of the base flood, as well as the floodway boundary-floodway map.

FLOOD OR FLOODING: A general and temporary condition of partial or complete inundation of normally dry land areas from:

- A. The overflow of inland or tidal waters;
- B. The unusual and rapid accumulation or runoff of surface waters from any source.

FLOOD PROTECTION SYSTEM: Those physical structural works for which funds have been authorized, appropriated, and expended and which have been constructed specifically to modify flooding in order to reduce the extent of the areas within a community subject to a "special flood hazard" and the extent of the depths of associated flooding. Such a system typically includes hurricane tidal barriers, dams, reservoirs, levees or dikes. These specialized flood modifying works are those constructed in conformance with sound engineering standards.

FLOODPLAIN MANAGEMENT: The operation of an overall program of corrective and preventive measures for reducing flood damage, including, but not limited to, emergency preparedness plans, flood control works and floodplain management regulations.

FLOODPLAIN MANAGEMENT REGULATIONS: Zoning ordinances, subdivision regulations, building codes, health regulations, special purpose ordinances (such as a floodplain ordinance, grading ordinance and erosion control ordinance) and other applications 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.

FLOODPLAIN OR FLOOD PRONE AREA: Any land area susceptible to being inundated by water from any source (see definition of Flood Or Flooding).

FLOODPROOFING: Any combination of structural and nonstructural additions, changes, or adjustments to structures which reduce or eliminate flood damage to real estate or improved real property, water, and sanitary facilities, structures and their contents.

FLOODWAY (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 a designated height.

FUNCTIONALLY DEPENDENT USE: A use that 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 shipbuilding and ship repair facilities, but does not include long term storage or related manufacturing facilities.

HIGHEST ADJACENT GRADE: The highest natural elevation of the ground surface prior to construction next to the proposed walls of a structure.

HISTORIC STRUCTURE: Any structure that is:

- A. Listed individually in the National Register of Historic Places (a listing maintained by the department of the interior) or preliminarily determined by the secretary of the interior as meeting the requirements for individual listing on the national register,
- B. Certified or preliminarily determined by the secretary of the interior as contributing to the historical significance of a registered historic district or a district preliminarily determined by the secretary to qualify as a registered historic district,
- C. Individually listed on a state inventory of historic places in states with historic preservation programs which have been approved by the secretary of the interior, or
- D. Individually listed on a local inventory of historic places in communities with historic preservation programs that have been certified either:
 1. By an approved state program as determined by the secretary of the interior, or
 2. Directly by the secretary of the interior in states without approved programs.

LEVEE: A manmade structure, usually an earthen embankment, designed and constructed in accordance with sound engineering practices to contain, control, or divert the flow of water so as to provide protection from temporary flooding.

LEVEE SYSTEM: A flood protection system that consists of a levee, or levees, and associated structures, such as closure and drainage devices, which are constructed and operated in accordance with sound engineering practices.

LOWEST FLOOR: The lowest floor of the lowest enclosed area (including basement). An unfinished or flood-resistant enclosure, usable solely for parking of vehicles, building access or storage in an area other than a basement area is not considered a building's lowest floor, provided that such enclosure is not built so as to render the structure in violation of the applicable non elevation design requirement of section 60.3 of the national flood insurance program regulations.

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".

MANUFACTURED HOME PARK OR SUBDIVISION: A parcel (or contiguous parcels) of land divided into two (2) or more manufactured home lots for rent or sale.

MEAN SEA LEVEL: For purposes of the national flood insurance program, the national geodetic vertical datum (NGVD) of 1929 or other datum, to which base flood elevations shown on a community's flood insurance rate map are referenced.

NEW CONSTRUCTION: For which the "start of construction" commenced on or after the effective date of an initial FIRM 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.

NEW MANUFACTURED HOME PARK OR SUBDIVISION: A manufactured home park or subdivision for which the construction of facilities for servicing the lots on which the manufactured homes are to be affixed (including, at a minimum, the installation of utilities, the construction of streets, and either final site grading or the pouring of concrete pads) is completed on or after the effective date of floodplain management regulations adopted by a community.

RECREATIONAL VEHICLE: A vehicle which is:

- A. Built on a single chassis;
- B. Four hundred (400) square feet or less when measured at the largest horizontal projections;
- 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.

START OF CONSTRUCTION (For Other Than New Construction Or Substantial Improvements Under The Coastal Barrier Resources Act (Pub. L 97-348)): Includes substantial improvement and means the date the building permit was issued, provided the actual start of construction, repair, reconstruction, rehabilitation, addition, placement, or other improvement was within one hundred eighty (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 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.

STRUCTURE: A walled and roofed building, including a gas or liquid storage tank, that is principally aboveground, as well as a manufactured home.

SUBSTANTIAL DAMAGE: Damage of any origin sustained by a structure whereby the cost of restoring the structure to its before damaged condition would equal or exceed fifty percent (50%) of the market value of the structure before the damage occurred.

SUBSTANTIAL IMPROVEMENT: Any reconstruction, rehabilitation, addition, or other improvement of a structure, the cost of which equals or exceeds fifty percent (50%) of the market value of the structure before "start of construction" of the improvement. This includes structures that have incurred "substantial damage", regardless of the actual repair work performed. The term does not, however, include either:

- A. Any project for improvement of a structure to correct existing violations of state or local health, sanitary, or safety code specifications that have been identified by the local code enforcement official and which are the minimum necessary conditions, or
- B. Any alteration of a "historic structure", provided that the alteration will not preclude the structure's continued designation as a "historic structure".

VARIANCE: A grant of relief to a person from the requirements of this chapter when specific enforcement would result in unnecessary hardship. A variance, therefore, permits construction or development in a manner otherwise prohibited by this chapter. (For full requirements see section 60.6 of the national flood insurance program regulations.)

VIOLATION: The failure of a structure or other development to be fully compliant with the community's floodplain management regulations. A structure or other development without the elevation certificate, other certifications, or other evidence of compliance required in section 60.3(b)(5), (c)(4), (c)(10), (d)(3), (e)(2), (e)(4), or (e)(5) is presumed to be in violation until such time as that documentation is provided.

WATER SURFACE ELEVATION: The height, in relation to the national geodetic vertical datum (NGVD) of 1929 (or other datum, where specified), of floods of various magnitudes and frequencies in the floodplains of coastal or riverine areas.

10-4-3: GENERAL PROVISIONS

- A. **Lands To Which This Chapter Applies:** This chapter shall apply to all areas of special flood hazard within the jurisdiction of North Ogden City.
- B. **Basis For Establishing Areas Of Special Flood Hazard:** The areas of special flood hazard identified by the federal emergency management agency in a scientific and engineering report entitled, "The Flood Insurance Study For North Ogden City", dated November 30, 2023, with accompanying flood insurance rate maps and flood boundary-floodway maps (FIRM and FBFM) and any revisions thereto are hereby adopted by reference and declared to be a part of this chapter.
- C. **Establishment Of Development Permit:** A development permit shall be required to ensure conformance with the provisions of this chapter.
- D. **Compliance:** No structure or land shall hereafter be located, altered, or have its use changed without full compliance with the terms of this chapter and other applicable regulations.
- E. **Abrogation And Greater Restrictions:** This chapter is not intended to repeal, abrogate,

or impair any existing easements, covenants, or deed restrictions. However, where this chapter and another ordinance, easement, covenant, or deed restriction conflict or overlap, whichever imposes the more stringent restrictions shall prevail.

- F. Interpretation: In the interpretation and application of this chapter, 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.
- G. Warning And Disclaimer Of Liability: The degree of flood protection required by this chapter is considered reasonable for regulatory purposes and is based on scientific and engineering considerations. On rare occasions greater floods can and will occur and flood heights may be increased by manmade or natural causes. This chapter 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 chapter shall not create liability on the part of the community or any official or employee thereof for any flood damages that result from reliance on this chapter or any administrative decision lawfully made thereunder.
- H. Compliance: No structures or developments including buildings, recreation vehicles, or manufactured homes or land shall hereafter be located, altered, or have its use changed without full compliance with the terms of this ordinance and other applicable regulations. Nothing herein shall prevent North Ogden City from taking such lawful action as is necessary to prevent or remedy any violations.
- I. Penalties for Noncompliance: In accordance with Section 59.2(b) of CFR 44, Chapter 1, of the NFIP regulation, to qualify for the sale of federally subsidized flood insurance, a community must adopt floodplain management regulations that meet or exceed the minimum standards of Section 60. "These regulations must include effective enforcement provisions." In accordance with Section 60.1(b) of CFR 44, Chapter 1, of the NFIP regulations, "These regulations must be legally enforceable, applied uniformly throughout the community to all privately and publicly owned land within flood-prone (i.e. mudflow) or flood-related erosion areas, and the community must provide that the regulations take precedence over less restrictive conflicting local laws, ordinances, or codes."
1. 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. Violation 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 guilty of a class B misdemeanor with penalties as outlined in title 1 of this code, and in addition shall pay all costs and expenses involved in the case. Nothing herein contained shall prevent North Ogden City from taking such other lawful action as is

necessary to prevent or remedy any violation.

- J. Severability: If any section, provision, or portion of this ordinance is adjudged unconstitutional or invalid by a court, the remainder of the ordinance shall not be affected.

10-4-4: FLOODPLAIN ADMINISTRATOR

- A. Designation: The North Ogden City building official is hereby appointed the floodplain administrator to administer and implement the provisions of this chapter and other appropriate sections of 44 CFR (national flood insurance program regulations) pertaining to floodplain management.
- B. Duties And Responsibilities: Duties and responsibilities of the floodplain administrator shall include, but not be limited to, the following:
1. Maintain and hold open for public inspection all records pertaining to the provisions of this chapter.
 2. Review permit application to determine whether proposed building site, including the placement of manufactured homes, will be reasonably safe from flooding.
 3. Review, approve or deny all applications for development permits required by adoption of this chapter.
 4. Review permits for proposed development to assure that all necessary permits have been obtained from those federal, state or local governmental agencies (including section 404 of the federal water pollution control act amendments of 1972, 33 USC 1334) from which prior approval is required.
 5. Where interpretation is needed as to the 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 floodplain administrator shall make the necessary interpretation.
 6. Notify, in riverine situations, adjacent communities and the Utah state office of emergency management, prior to any alteration or relocation of a watercourse, and submit evidence of such notification to the federal emergency management agency.
 7. Assure that the flood carrying capacity within the altered or relocated portion of any watercourse is maintained.
 8. When base flood elevation data has not been provided in accordance with CCNO 10-4- 3B, the floodplain administrator shall obtain, review and reasonably utilize any base flood elevation data and floodway data available from a federal, state or other source, in order to administer the provisions of CCNO 10-4-7.
 9. 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, AE, and AH 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 1.00* feet at any point within the community unless the community has adopted higher standard options.

10.

10-4-5: PERMIT PROCEDURES

A. Application for a development permit shall be presented to the floodplain administrator on forms furnished by him/her and may include, but not be limited to, plans in duplicate drawn to scale showing the location, dimensions, and elevation of proposed landscape alterations, existing and proposed structures, including the placement of manufactured homes, and the location of the foregoing in relation to areas of special flood hazard. Additionally, the following information is required:

1. Elevation (in relation to mean sea level), of the lowest floor (including basement) of all new and substantially improved structures,
2. Elevation in relation to mean sea level to which any nonresidential structure shall be floodproofed,
3. A certificate from a registered professional engineer or architect that the nonresidential floodproofed structure shall meet the floodproofing criteria of CCNO 10-4-7B2.
4. Description of the extent to which any watercourse or natural drainage will be altered or relocated as a result of proposed development,
5. Maintain a record of all such information in accordance with CCNO 10-4-4B1.

B. Approval or denial of a development permit by the floodplain administrator shall be based on all of the provisions of this chapter and the following relevant factors:

1. The danger to life and property due to flooding or erosion damage,
2. The susceptibility of the proposed facility and its contents to flood damage and the effect of such damage on the individual owner,
3. The danger that materials may be swept onto other lands to the injury of others,
4. The compatibility of the proposed use with existing and anticipated development,
5. The safety of access to the property in times of flood for ordinary and emergency vehicles,
6. The costs of providing governmental services during and after flood conditions including maintenance and repair of streets and bridges, and public utilities and facilities such as sewer, gas, electrical and water systems,

7. 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,
8. The necessity to the facility of a waterfront location, where applicable,
9. The availability of alternative locations, not subject to flooding or erosion damage, for the proposed use,
10. The relationship of the proposed use to the comprehensive plan for that area.

10-4-6: VARIANCE PROCEDURES

- A. The appeal board consisting of the city council shall hear and render judgment on requests for variances from the requirements of this chapter.
- B. The appeal board shall hear and render judgment on an appeal only when it is alleged there is an error in any requirement, decision, or determination made by the floodplain administrator in the enforcement or administration of this chapter.
- C. Any person or persons aggrieved by the decision of the appeal board may appeal such decision in the courts of competent jurisdiction.
- D. The floodplain administrator shall maintain a record of all actions involving an appeal and shall report variances to the federal emergency management agency upon request.
- E. 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 chapter.
- F. Variances may be issued for new construction and substantial improvements to be erected on a lot of one-half ($\frac{1}{2}$) acre or less in size contiguous to and surrounded by lots with existing structures constructed below the base flood level, providing the relevant factors in CCNO 10-4- 5B have been fully considered. As the lot size increases beyond the one-half ($\frac{1}{2}$) acre, the technical justification required for issuing the variance increases.
- G. Upon consideration of the factors noted above and the intent of this chapter, the appeal board may attach such conditions to the granting of variances as it deems necessary to further the purpose and objectives of this chapter (CCNO 10-4-1C).
- H. Variances shall not be issued within any designated floodway if any increase in flood levels during the base flood discharge would result.
- I. Variances may be issued for the repair or rehabilitation of historic structures upon a determination that the proposed repair or rehabilitation will not preclude the structure's continued designation as a historic structure and the variance is the minimum necessary to preserve the historic character and design of the structure.
- J. Prerequisites for granting variances:

1. Variances shall only be issued upon a determination that the variance is the minimum necessary, considering the flood hazard, to afford relief.
 2. Variances shall only be issued upon:
 - a. Showing a good and sufficient cause,
 - b. A determination that failure to grant the variance would result in exceptional hardship to the applicant, and
 - c. A determination that the granting of a variance will not result in increased flood heights, additional threats to public safety, extraordinary public expense, create nuisances, cause fraud on or victimization of the public, or conflict with existing local laws or ordinances.
 3. Any applicant to whom a variance is granted shall be given written notice that the structure will be permitted to be built with the 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.
- K. Variances may be issued for new construction and substantial improvements and for other development necessary for the conduct of a functionally dependent use provided that:
1. The criteria outlined in subsections A through I of this section are met, and
 2. The structure or other development is protected by methods that minimize flood damages during the base flood and create no additional threats to public safety.

10-4-7: FLOOD HAZARD REDUCTION

- A. General Standards: In all areas of special flood hazards the following provisions are required for all new construction and substantial improvements:
1. All new construction or substantial improvements shall be designed (or modified) and adequately anchored to prevent flotation, collapse or lateral movement of the structure resulting from hydrodynamic and hydrostatic loads, including the effects of buoyancy;
 2. All new construction or substantial improvements shall be constructed by methods and practices that minimize flood damage;
 3. All new construction or substantial improvements shall be constructed with materials resistant to flood damage;
 4. All new construction or 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;

5. All new and replacement water supply systems shall be designed to minimize or eliminate infiltration of floodwaters into the system;
 6. New and replacement sanitary sewage systems shall be designed to minimize or eliminate infiltration of floodwaters into the system and discharge from the systems into floodwaters; and
 7. On site waste disposal systems shall be located to avoid impairment to them or contamination from them during flooding.
- B. Specific Standards: In all areas of special flood hazards where base flood elevation data has been provided as set forth in: 1) CCNO 10-4-3B, 2) CCNO 10-4-4B8, or 3) subsection C3 of this section, 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 to one foot above the base flood elevation. A registered professional engineer, architect, or land surveyor shall submit a certification to the floodplain administrator that the standard of this subsection as proposed in CCNO 10-4-5A1, is satisfied.
 2. Nonresidential Construction: New construction and substantial improvements of any commercial, industrial or other nonresidential structure shall either have the lowest floor (including basement) elevated to one foot above the base flood level or together with attendant utility and sanitary facilities, be designed so that below the base flood level the structure is watertight with walls substantially impermeable to the passage of water and with structural components having the capability of resisting hydrostatic and hydrodynamic loads and effects of buoyancy. A registered professional engineer or architect shall develop and/or review structural design, specifications, and plans for the construction, and shall certify that the design and methods of construction are in accordance with accepted standards of practices as outlined in this subsection. A record of such certification which includes the specific elevation (in relation to mean sea level) to which such structures are floodproofed shall be maintained by the floodplain administrator.
 3. Manufactured Homes: Require that all manufactured homes to be placed within zone A on a community's FHBM or FIRM shall be installed using methods and practices that minimize flood damage. For the purposes of this requirement, 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.
 - a. Manufactured homes that are placed or substantially improved within Zones A1-30, AH, and AE on the community's FIRM on sites outside of a manufactured home park or subdivision; in a new manufactured home park or subdivision; in an expansion to an existing manufactured home park or subdivision; or in an existing manufactured home park or

subdivision on which a manufactured home has incurred "substantial damage" as a result of a flood, be elevated on a permanent foundation such that the lowest floor of the manufactured home is elevated to one foot above the BFE, unless a higher standard option was selected, and be securely anchored to an adequately anchored foundation system to resist flotation, collapse, and lateral movement.

4. Enclosures: New construction and substantial improvements, with fully enclosed areas below the lowest floor that are to be used solely for parking of vehicles, building access, or storage in an area other than a basement, and are subject to flooding 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:
 - a. A minimum of two openings having a total net area of not less than 1 square inch for every square foot of enclosed area subject to flooding shall be provided.
 - b. The bottom of all openings shall be no higher than 1 foot above grade.
 - c. Openings may be equipped with screens, louvers, valves, or other coverings or devices provided that they permit the automatic entry and exit of floodwaters.
 - d. The development and construction of the structure must conform with the provision in FEMA/Federal Insurance Administration (FIA)-Technical Bulletins 1 and 2. Certification and documentation from a professional, licensed engineer or architect is required if the structure's lowest floor is built below the BFE.
5. Recreational Vehicle Standards: In all Areas of Special Flood Hazard, Recreational Vehicles, must either:
 - a. Be on the site for fewer than 180 consecutive days;
 - b. Be fully licensed and ready for highway use, on its wheels or jacking system, attached to the site only by quick disconnect type utilities and security devices, and have no permanently attached structures or addition, or
 - c. The recreational vehicle must meet all the requirements for ARTICLE IV, SECTION D PERMIT PROCEDURES, including the anchoring and elevation requirements of "manufactured homes" of this ordinance.

C. Standards For Subdivision Proposals:

1. All subdivision proposals including the placement of manufactured home parks and subdivisions shall be consistent with CCNO 10-4-1B, C, and D.
2. All proposals for the development of subdivisions including the placement of

manufactured home parks and subdivisions shall meet development permit requirements of CCNO 10-4-3C, CCNO 10-4-5 and the provisions of this section.

3. Base flood elevation data shall be generated for subdivision proposals and other proposed development including the placement of manufactured home parks and subdivisions which is greater than fifty (50) lots or five (5) acres, whichever is less, if not otherwise provided pursuant to CCNO 10-4-3B or CCNO 10-4-4-B8.
 4. All subdivision proposals including the placement of manufactured home parks and subdivisions shall have adequate drainage provided to reduce exposure to flood hazards.
 5. All subdivision proposals including the placement of manufactured home parks and subdivisions shall have public utilities and facilities such as sewer, gas, electrical and water systems located and constructed to minimize or eliminate flood damage.
- D. Standards for Areas of Shallow Flooding (AO/AH Zones): within Zones AH or AO adequate drainage paths around structures on slopes, to guide flood waters around and away from proposed structures.
- E. Floodways: Floodways located within SFHAs are extremely hazardous areas due to the velocity of flood waters that carry debris, potential projectiles, and erosion potential, the following provisions shall apply:
1. Designate a regulatory floodway that will not increase the base flood elevation more than 1 foot.
 2. Encroachments are prohibited, including fill, new construction, substantial improvements and other development within the adopted regulatory floodway unless it has been demonstrated through hydrologic and hydraulic analyses performed in accordance with standard engineering practice that the proposed encroachment would not result in any increase greater than 0.00 feet, unless higher standard option selected, in flood levels within the community during the occurrence of the base flood discharge.
 3. All new construction and substantial improvements shall comply with all applicable flood hazard reduction provisions of Article V in this ordinance.
 4. Under the provisions of 44 CFR Chapter 1, Section 65.12, of the NFIP Regulations, a community may permit encroachments within the adopted regulatory floodway that would result in an increase in BFEs, provided that the community first applies for a conditional FIRM and floodway revision through FEMA.

SECTION 2: This ordinance shall take effect upon adoption.

PASSED and ADOPTED this 14th day of November 2023.

North Ogden City:

S. Neal Berube
S. Neal Berube
North Ogden City Mayor

CITY COUNCIL VOTE AS RECORDED:

	Aye	Nay
Council Member Barker:	<u> x </u>	<u> </u>
Council Member Covering:	<u> </u>	excused <u> </u>
Council Member Ekstrom:	<u> x </u>	<u> </u>
Council Member Dalpiaz:	<u> x </u>	<u> </u>
Council Member Swanson:	<u> x </u>	<u> </u>

(In event of a tie vote of the Council):
 Mayor Berube:

ATTEST:

Rian Santoro
Rian Santoro
City Recorder

