#### ORDINANCE NO. <u>93605-1016</u>

# AN ORDINANCE AMENDING CHAPTER FOUR AND FIVE OF TITLE TEN OF THE CITY CODE RELATING TO FLOODPLAIN MANAGEMENT REGULATIONS IN THE CITY OF MUSCATINE, IOWA.

WHEREAS, The Federal Emergency Management Agency (FEMA) has completed a Flood Hazard Determination modifying the Flood Insurance Study and Flood Insurance Rate Map for Muscatine County, including the City of Muscatine which become effective on November 4, 2016; and

WHEREAS, In order for City of Muscatine residents and businesses to be able to continue to participate in the National Flood Insurance Program, the City of Muscatine must by November 4<sup>th</sup> incorporated the revised Flood Insurance Rate Map Panels, effective November 4, 2016, with issued as a result of the Flood Hazard Determination into the City of Muscatine Floodplain Management Regulations (Chapter 4 and 5 of Title 10 of the City Code); and

WHEREAS, The City of Muscatine in order to ensure that residents will continue to be eligible to participate in the National Flood Insurance Program has prepared an ordinance to Chapter Four and Five of Title Ten that will bring the City's floodplain management regulations into compliance with Title 44 Code of Federal Regulations 60.3; and

### NOW, THEREFORE BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF MUSCATINE, IOWA:

SECTION 1. The currently adopted versions of Chapter Four and Chapter Five of Title Ten of the City Code are here by deleted and Exhibit A as attached hereby to is adopted in lieu thereof.

SECTION 2. If any section, provision or part of this ordinance shall be adjudged invalid or unconstitutional, such adjudication shall not affect the validity of the ordinance as a whole or any section, provision or part thereof not adjudged invalid or unconstitutional.

SECTION 3. Any Ordinance or part thereof in conflict or inconsistent with the provisions of this Ordinance is repealed.

SECTION 4. This ordinance shall be in effect from and after November 4, 2016.

### PASSED, APPROVED AND ADOPTED this 6<sup>th</sup> day of October 2016.

## BY THE CITY COUNCIL OF THE CITY OF MUSCATINE, IOWA

Diana L. Broderson, Mayor

ATTEST:

Gregg Mandsager, City Administrator

First Reading: September 15, 2016 Second Reading: October 6, 2016 Third Reading: October 6, 2016

Publication: October 142016

Title 10 – Zoning Chapter 4 – FP Flood Plain District

#### **SECTIONS:**

10-4-1 Intent and Purpose

10-4-2 District Boundaries

10-4-3 General Provisions

10-4-4 Permissive Uses

10-4-5 Conditional Uses

10-4-6 Height, Area, Parking Requirements

10-4-7 Flood Control Manual

10-4-8 Administration

10-4-9 Definitions

#### 10-4-1 Intent and Purpose.

- A. The Legislature of the State of Iowa has in Chapter 414, Code of Iowa, as amended, delegated the power to cities to enact zoning regulations to secure safety from flood and to promote health and the general welfare.
- B. It is the purpose of the Flood Plain District to apply special regulations to the use of land in those areas of the City which are subject to predictable inundations at frequent intervals and to assure that flood carrying capacity within the altered or relocated portion of any watercourse is maintained. Such land use controls are necessary to qualify property owners for flood insurance under the National Flood Insurance Act of 1968 (as amended).
- C. The regulations, while permitting reasonable economic and social use of such properties, will help protect health, safety, and general welfare and reduce financial burdens imposed on the community, governmental units, and its individuals caused by frequent and periodic floods and the overflow of lands.
- D. The standards required by this Chapter are considered reasonable for regulatory purposes. This Chapter does not imply that areas outside the designated Floodplain (Overlay) District areas will be free from flooding or flood damages. This Chapter shall not create liability on the part of the City of Muscatine or any officer or employee thereof for any flood damages that result from reliance on this Chapter or any administrative decision lawfully made there under.

#### 10-4-2 District Boundaries.

A. The boundaries of the Flood Plain District are hereby established as the areas classified as "Zone AE or Zone A" on the Flood Insurance Rate Map (FIRM) for Muscatine County and Incorporated Areas, City of Muscatine, Panels 19139C0185C, 192C, 225C, dated July 18, 201; Panels 19139C0169D, 175D, 187D, 188D, 189D, 193D, 281D, 282D, 301D, dated April 16, 2014, and Panels 19139C0179E 183E, 184E, 191E, dated November 4, 2016 which were prepared as part of the Flood Insurance Study for Muscatine County. Which is (are) hereby adopted by reference and declared to be the Official Floodplain Zoning Map. The

flood profiles and all explanatory material contained with the Flood Insurance Study are also declared to be a part of this ordinance.

B. All lands included in such Flood Plain Districts shall be subject to the terms imposed herein, in addition to the terms imposed by any other zoning use district in which said lands should be located.

#### 10-4-3 General Provisions

- A. It is not intended by this Chapter to repeal, abrogate or impair any existing easements, covenants, or deed restrictions. However, where this Chapter imposes greater restrictions, the provision of this Chapter shall prevail.
- B. All activities in this district shall obtain all necessary permits have been received as required by Federal or State law (including Section 404 of the Federal Water Pollution Control Act Amendments of 1972, 33 U.S.C. 1334).
- C. No use shall affect the capacity or conveyance of the channel or floodway of any tributary to the main stream, drainage ditch or any other drainage facility or system.

#### 10-4-4 Permissive Uses

When the use proposed herein is allowable in a zoning district, the following uses and types of activities are permitted in the district; provided that such uses and types of activities do not entail any man-made changes to improved or unimproved real estate, including but not limited to buildings or other structures (including the placement of factory built buildings), mining, dredging, filling, grading, paving, excavation, or drilling operations.

- A. Agricultural uses such as general farming, pasture, grazing, outdoor plant nurseries, horticulture, viticulture, truck farming, forestry, sod farming and wild crop harvesting.
- B. Open recreational uses such as golf courses, tennis courts, driving ranges, archery ranges, picnic grounds, boat launching ramps, swimming areas, parks, wildlife and nature preserves, game farms, fish hatcheries, shooting preserves, target ranges, trap and skeet ranges, hinting and fishing areas, hiking and horseback riding trails.
- C. Marinas.
- D. Industrial-commercial uses such as loading areas, parking areas, airport landing strips.
- E. For residential districts, area within the Flood Plain District, may be used for computing lot area requirements and may, therefore, be used for yard and park areas.
- F. Storage yard for materials and equipment not subject to removal or major damage by flood waters.

#### 10-4-5 Conditional Uses.

- A. Any permissive or conditional use in the Zoning District applicable to the location in question and not identified as a permissive use in Section 10-4-4 is considered a conditional use.
- B. Any man-made change to improved or unimproved real estate located in the Flood Plain District, including but not limited to buildings or other structures (including the placement of factory built buildings), mining, dredging, filling, grading, paving, excavation, or drilling operations, is considered a conditional use.
- C. In addition to complying with the provisions contained within Section 10-22-1 of the City Code, conditional uses in the Flood Plain District must meet the following criteria to be approved:
  - 1. Any proposed new construction or substantial improvements including the placement of factory built buildings shall meet the following standards:
    - a. 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, designed and/or modified and anchored to prevent flotation, collapse, or lateral movement of the structure.
    - b. Use construction materials and equipment that are resistant to flood damage.
    - c. Use construction methods and practices that shall minimize flood damage.
    - d. New and substantially improved structures must 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.
    - e. Factory-built homes including those placed in existing factory built home parks or subdivisions shall be elevated on a permanent foundation such that the lowest floor of the structures is a minimum of one (1) foot above the one hundred(100) year flood.
    - f. All new construction or substantial improvements of residential structures located in the flood plain shall have the lowest floor (including basement) elevated one (1) foot above the level of the one hundred (100) year flood.
    - g. All new and substantially improved residential and nonresidential structures with fully enclosed areas below the "lowest floor" (not including basements) that are subject to flooding shall be designed to

automatically equalize hydrostatic flood forces on exterior walls by allowing for the entry and exit of flood waters. Designs for meeting this requirement must either be certified by a registered professional engineer or meet or exceed the following minimum criteria:

- 1. 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.
- 2. The bottom of all openings shall be no higher than one foot above grade.
- 3 Openings may be equipped with screens, louvers, valves, or other coverings or devices provided that they permit the automatic entry and exit of floodwaters.
- h. All new construction or substantial improvements of nonresidential structures located in the Flood Plain District shall have the lowest floor (including basement) flood proofed and elevated one (1) foot above the level of the one hundred (100) year flood. When floodproofing is utilized, a professional engineer registered in the State of Iowa shall certify that:
  - 1. The floodproofing methods used are adequate to withstand the flood depths, pressures, velocities, impact and uplift forces and other factors associated with the 100-year flood; and
  - 2. That the structure, below the 100-year flood level is watertight with walls substantially impermeable to the passage of water.
  - i. All utility and sanitary facilities shall be flood proofed one (1) foot above the level of the one hundred (100) year flood so that any space below the level of the one hundred (100) year flood is watertight with walls substantially impermeable to the passage of water with structural components having the capability of resisting hydrostatic and hydrodynamic loads and effects of buoyancy.
  - j. On site waste disposal systems shall be located or designed to avoid impairment to the system or contamination from the system during flooding.
  - k. All new and replacement sanitary sewage systems shall be designed to minimize or eliminate infiltration of flood waters into the system as well as the discharge of effluent into flood waters.
  - 1. Wastewater treatment facilities (other than on-site systems) shall be provided with a level of flood protection equal to or greater than one (1) foot above the 100-year flood elevation.
  - m. New or replacement water supply systems shall be designed to minimize or eliminate infiltration of flood waters into the system.

- n. Water supply treatment facilities shall be provided with a level of protection equal to or greater than one (1) foot above the one hundred (100) year flood elevation.
- o. Utilities such as a gas or electrical system shall be located and constructed to minimize or eliminate flood damage to the system and the risk associated with such flood damaged or impaired systems.
- p. All applicants for conditional use permits for new or substantially improved structures shall be accompanied by records of elevations and flood proofing levels, and whether or not such structures contain a basement. It shall be the responsibility of the applicant to obtain the appropriate topographic data, engineering studies, or other studies needed by the Zoning Board of Adjustment, the City Administrator or his/her designee, and/or other appropriate agency or official. All such data shall be prepared and certified by technically qualified persons and will be maintained by the City Administrator or his/her designee.
- q. All applicants for conditional use permits for new or substantially improved structures shall be reviewed by the City Administrator or his/her designee to determine if the site of the proposed improvements is reasonably safe from flooding and that all necessary permits have been received as required by Federal or State law (including Section 404 of the Federal Water Pollution Control Act Amendments of 1972, 33 U.S.C. 1334).
- r. Storage of materials and equipment that are flammable, explosive or injurious to human, animal or plant life is prohibited unless elevated a minimum of one (1) foot above the one hundred (100) year flood level. Other material and equipment must either be similarly elevated or (i) not be subject to major flood damage and be anchored to prevent movement due to flood waters or (ii) be readily removable from the area within the time available after flood warning.
- s. Flood control structural works such as levees, flood walls, etc. shall provide, at a minimum, protection from a one hundred (100) year flood with a minimum of 3 feet (3') of design freeboard and shall provide for adequate interior drainage. In addition, structural flood control works shall be approved by the Department of Natural Resources.
- u. The exemption of detached garages, sheds, and similar structures from the one hundred (100) year flood elevation requirements may result in increased premium rates for insurance coverage of the structure and contents, however, said detached garages, sheds, and similar accessory type structures are exempt from the one hundred (100) year flood elevation requirements when:
  - 1. The structure shall not be used for human habitation.
  - 2. The structure shall be designed to have low flood damage potential.

- 3. The structure shall be constructed and placed on the building site so as to offer minimum resistance to the flow of floodwaters.
- 4. Structures shall be firmly anchored to prevent flotation which may result in damage to other structures.
- 5. The structure's service facilities such as electrical and heating equipment shall be elevated or flood proofed to at least one (1) foot above the one hundred (100) year flood level.
- 2. All subdivision proposals and all other proposed new developments located in the Flood Plain District shall be reviewed by the appropriate agency to assure that:
  - a. All such proposals are consistent with the need to minimize flood damage.
  - b. All public utilities and facilities, such as sewer, gas, electrical, and water systems, are located and constructed to minimize or eliminate flood damage.
  - c. Adequate drainage is provided to reduce exposure to flood hazards.
  - d. All such proposals greater than fifty (50) lots or five (5) acres, whichever is lesser, include, within such proposals, base flood elevation data.
- 3. Factory built home development is considered a conditional use in the Flood Plain District, provided the subject property is appropriately zoned for such use and further provided that such development follows the procedures designed in the Zoning Ordinance for consideration of such use.
  - A. For new factory built home parks, for expansions to existing factory built home parks and for existing factory built home parks where the repair, reconstruction, or improvement of streets, utilities, and pads equal or exceeds fifty percent (50%) of the value of the streets, utilities, and pads before the repair, reconstruction, or improvement has commenced, it is required that:
    - 1. Ground anchors for tie downs be provided in accordance with the Mobile Home Manufacturers Association standards.
    - 2. The special flood hazard is disclosed to the factory built home and/or lot purchaser or lessee in the purchase contract, deed or lease. Notification of both the one hundred (100) year flood elevation and the regulatory flood protection elevation shall be provided.
    - 3. Adequate surface drainage and easy access for a hauler is provided.
    - 4. In the instance of elevation on piers, lots are large enough to permit steps, and steel reinforcement is provided for piers more than six feet (6') high.
    - 5. Stands or lots are elevated on compacted fill or piers so that the lowest floor of the home will be one foot (1') above the level of the one hundred (100) year flood.
  - B. For factory built homes moving into existing factory built home parks, where concrete pads for the placement of factory built homes are in existence and where street and utility connections are in existence, it is required that:

- 1. Ground anchors for tie downs are required in accordance with the Mobile Home Manufacturers Association standards.
- 2. The special flood hazard is disclosed to the factory built home and/or lot purchaser or lessee in the purchase contract, deed, or lease. Notification of both the one hundred (100) year flood elevation and the regulatory flood protection elevation shall be provided.
- 4. All pressurized tanks and other containers storing materials or bulk materials hazardous to the public health, safety, and welfare shall be anchored to prevent lateral movement, collapse, flotation, or buoyancy.
- 5. Further, requirements for recreational vehicles placed on sites within Zone AE on on the Flood Insurance Rate Map (FIRM) for Muscatine County and Incorporated Areas, City of Muscatine, Panels 19139C0185C, 192C, 225C, dated July 18, 201; Panels 19139C0169D, 175D, 187D, 188D, 189D, 193D, 281D, 282D, 301D, dated April 16, 2014, and Panels 19139C0179E 183E, 184E, 191E, dated November 4, 2016:
  - A. Be on the site for fewer than 180 consecutive days.
  - B. Be fully licensed and ready for highway use, or
  - C. Meet the permit, elevation and anchoring requirements for "manufactured homes".
  - D. A recreational vehicle is ready for highway use if it is on its wheels or jacking system, is attached to the site only by disconnect type utilities and security devices, and has no permanent attached additions.

#### 10-4-6 Height, Area, Parking Requirements

The height, area, and parking requirements must conform to the district on which the Flood Plain District is superimposed.

#### 10-4-7 Flood Control Manual

The 2002 Flood Control Manual for the City of Muscatine, as amended, is hereby adopted by reference. Said Flood Control Manual shall have the same force and effect as though fully set forth herein. Copies of said Flood Control Manual are available in the office of the City Clerk.

#### 10-4-8 Administration

Duties and responsibilities of the City Administrator or his/her designee, specifically relating to this Chapter, shall include, but not necessarily be limited to the following:

A. Review conditional use permit applications to assure that all necessary permits have been obtained from federal, state and local governmental agencies including approval when required from the Department of Natural Resources for floodplain construction.

- B. Record and maintain a record of (i) the elevation (in relation to North American Vertical Datum 1988) of the lowest floor (including basement) of all new or substantially improved structures or (ii) the elevation to which new or substantially improved structures have been floodproofed.
- C. Notify adjacent communities/counties and the Department of Natural Resources prior to any proposed alteration or relocation of a watercourse and submit evidence of such notifications to the Federal Emergency Management Agency.
- D. Submit to the Federal Insurance Administrator an annual report concerning the City of Muscatine's participation, utilizing the annual report form supplied by the Federal Insurance Administrator.
- E. Notify the Federal Insurance Administration of any annexations or modifications to the City of Muscatine corporate limit.

#### 10-4-9 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.

Basement - Any enclosed area of a building which has its floor' or lowest level below ground level (subgrade) on all sides. Also see "lowest floor."

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.

Existing Factory-Built Home Park or Subdivision - A factory-built home park or subdivision for which the construction of facilities for servicing the lots on which the factory-built 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 August 25, 1981.

Expansion of Existing Factory-Built Home Park or Subdivision - The preparation of additional sites by the construction of facilities for servicing the lots on which the factory-built 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).

Factory-Built Home - Any structure, designed for residential use, which is wholly or in substantial part, made, fabricated, formed or assembled in manufacturing facilities for installation or assembly and installation, on a building site. For the purpose of this Ordinance factory-built homes include mobile homes, manufactured homes and modular homes and also include park trailers, travel trailers and other similar vehicles placed on a site for greater than 180 consecutive days.

Factory-Built Home Park - A parcel or contiguous parcels of land divided into two or more factory-built home lots for rent or sale.

Flood - A general and temporary condition of partial or complete inundation of normally dry land areas resulting from the overflow of streams or rivers or from the unusual and rapid runoff of surface waters from any source.

Flood Elevation - The elevation floodwaters would reach at a particular site during the occurrence of a specific flood. For instance, the 100-year flood elevation is the elevation of flood waters related to the occurrence of the 100-year flood.

- A. For locations in areas classified as "Zone AE" on the Flood Insurance Rate Map (FIRM) for Muscatine County and Incorporated Areas, City of Muscatine, Panels 19139C0185C, 192C, 225C, dated July 18, 201; Panels 19139C0169D, 175D, 187D, 188D, 189D, 193D, 281D, 282D, 301D, dated April 16, 2014, and Panels 19139C0179E 183E, 184E, 191E, dated November 4, 2016:the flood elevation is the base flood elevation shown on the Flood Insurance Rate Map.
- B. For locations in areas classified as "Zone A" on the Flood Insurance Rate Map (FIRM) for Muscatine County and Incorporated Areas, City of Muscatine, Panels 19139C0185C, 192C, 225C, dated July 18, 201; Panels 19139C0169D, 175D, 187D, 188D, 189D, 193D, 281D, 282D, 301D, dated April 16, 2014, and Panels 19139C0179E 183E, 184E, 191E, dated November 4, 2016:, and located south of Hershey Avenue one of the two methods shall be used to calculate the base flood elevation:
  - 1. Computed using data on file with the City Engineer. or:
  - 2. The Iowa Department of Natural Resources may be contacted to compute such data. The applicant will be responsible for providing the Department of Natural Resources with sufficient technical information to make such a calculation.

C. For locations in areas classified as "Zone A" on the Flood Insurance Rate Map (FIRM) for Muscatine County and Incorporated Areas, City of Muscatine, Panels 19139C0185C, 192C, 225C, dated July 18, 201; Panels 19139C0169D, 175D, 187D, 188D, 189D, 193D, 281D, 282D, 301D, dated April 16, 2014, and Panels 19139C0179E 183E, 184E, 191E, dated November 4, 2016:, and located north of Hershey Avenue, the Iowa Department of Natural Resources shall be contacted to compute such data. The applicant will be responsible for providing the Department of Natural Resources with sufficient technical information to make such a calculation.

Flood Insurance Rate Map - The official map prepared as part of (but published separately from) the Flood Insurance Study which delineates both the flood hazard areas and the risk premium zones applicable to the community.

Flood Insurance Study - A study initiated, funded, and published by the Federal Insurance Administration for the purpose of evaluating in detail the existence and severity of flood hazards; providing the city with the necessary information for adopting a flood plain management program; and establishing actuarial flood insurance rates.

Flood Plain - Any land area susceptible to being inundated by water as a result of a flood.

Flood Plain Management - An overall program of corrective and preventive measures for reducing flood damages and promoting the wise use of flood plains, including but not limited to emergency preparedness plans, flood control works, floodproofing and flood plain management regulations.

Floodproofing - Any combination of structural and nonstructural additions, changes, or adjustments to structures, including utility and sanitary facilities, which will reduce or eliminate flood damage to such structures.

Floodway Fringe - Those portions of the flood plain, other than the floodway, which can be filled, leveed, or otherwise obstructed without causing substantially higher flood levels or flow velocities.

Historic Structure - Any structure that is:

- A. Listed individually in the National Register of Historic Places (a listing maintained by the Department of Interior) or preliminarily determined by the Secretary of the Interior as meeting the requirements for individual listing on the National Register;
- 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;
- 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 Interior, or
  - 2. Directly by the Secretary of Interior in states without approved programs.

Lowest Floor - The floor of the lowest enclosed area in a building including a basement except when all the following criteria are met:

- A. The enclosed area is designed to flood to equalize hydrostatic pressure during floods with walls or openings that satisfy the provisions of Section 10-4-4(C)1(d), and
- B. The enclosed area is unfinished (not carpeted, drywalled, etc.) and used solely for low damage potential uses such as building access, parking or storage, and
- C. Machinery and service facilities (e.g., hot water heater, furnace, electrical service) contained in the enclosed area are located at least one (1) foot above the 100-year flood level, and
- D. The enclosed area is not a "basement" as defined in this section.

In cases where the lowest enclosed area satisfies criteria A,B,C, and d above, the lowest floor is the floor of the next highest enclosed area that does not satisfy the criteria above.

New Construction: structures for which the start of construction commenced on or after August 25, 1981 and includes any subsequent improvements to such structures.

New Factory-Built Home Park or Subdivision - A factory-built home park or subdivision for which the construction of facilities for servicing the lots on which the factory-built 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 first floodplain management regulations adopted by the community.

One Hundred (100) Year Flood - A flood, the magnitude of which has a one (1) percent chance of being equaled or exceeded in any given year or which, on the average, will be equaled or exceeded at least once every one hundred (100) years.

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

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.

Substantial Damage - A damage or any original 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.

Special Flood Hazard Area - The land subject to the "100-year flood". This land is identified as Zone A or AE on the Flood Insurance Rate Map for Muscatine County and Incorporated Areas, City of Muscatine, Panels 19139C0185C, 192C, 225C, dated July 18, 201; Panels 19139C0169D, 175D, 187D, 188D, 189D, 193D, 281D, 282D, 301D, dated April 16, 2014, and Panels 19139C0179E 183E, 184E, 191E, dated November 4, 2016.

Start of Construction - Includes substantial improvement, and means the date the development permit was issued, provided the actual start of construction, repair, reconstruction, rehabilitation, addition, placement, or other improvement, was within 180 days of the permit date. The actual start means either the first placement or permanent construction of a structure on a site, such as pouring of a slab or footings, the installation of pile, the construction of columns, or any work

beyond the stage of excavation; or the placement of a factory-built 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 the building, whether or not that alteration affects the external dimensions of the building.

Structure - Anything constructed or erected on the ground or attached to the ground, including, but not limited to, buildings, factories, sheds, cabins, factory-built homes, storage tanks, and other similar uses.

Substantial Improvement - Any reconstruction, rehabilitation, addition, or other improvement of a structure, which satisfies following criteria:

- A. The cost of which equals or exceeds 50 percent of the market value of the structure before the "start of construction" of the improvement. This term includes structures which have incurred "substantial damage," regardless of the actual repair work performed.
- B. Any addition which increases the original floor area of a building by 25 percent or more. All additions constructed after August 25, 1981 shall be added to any proposed addition in determining whether the total increase in original floor space would exceed 25 percent

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 which have been identified by the local code enforcement official and which are the minimum necessary to assure safe living conditions or
- B. Any alterations of a "historic structure," provided that the alteration will not preclude the structure's continued designation as a "historic structure."

Violation - The failure of a structure or other development to be fully compliant with the regulations contained in this chapter.

#### Title 10 – Zoning

Chapter 5 – FC Flood Channel (Floodway) District

#### **SECTIONS:**

10-5-1 Intent and Purpose

10-5-2 District Boundaries

10-5-3 Permissive Uses

10-5-4 Conditional Uses

10-5-5 Responsibility for Studies

#### 10-5-1 Intent and Purpose.

A. The Legislature of the State of Iowa has in Chapter 414, Code of Iowa, as amended, delegated the power to cities to enact zoning regulations to secure safety from flood and to promote health and the general welfare.

- B. It is the purpose of the Flood Channel (Floodway) District to apply special regulations to the use of land in those areas of the City which are subject to predictable inundation and flow of flood waters such that the floodway efficiency will not be affected, or its capacity restricted. Such land use controls are necessary to qualify property owners for flood insurance under the National Flood Insurance Act of 1968 (as amended). The regulations, while permitting reasonable economic and social use of such properties, will help protect the public health, safety, and general welfare and reduce financial burdens imposed on the community, governmental units, and its individuals caused by frequent and periodic floods and the overflow of lands.
- C. The standards required by this Chapter are considered reasonable for regulatory purposes. This Chapter does not imply that areas outside the designated Floodway District areas will be free from flooding or flood damages. This Chapter shall not create liability on the part of the City of Muscatine or any officer or employee thereof for any flood damages that result from reliance on this Chapter or any administrative decision lawfully made there under.
- D. It is not intended by this Chapter to repeal, abrogate or impair any existing easements, covenants, or deed restrictions. However, where this Chapter imposes greater restrictions, the provision of this Chapter shall prevail.

#### 10-5-2 District Boundaries.

The boundaries of the Flood Channel (Floodway) District are here by established as the areas shown as "Floodway Areas in Zone AE" as shown on the Flood Insurance Rate Map (FIRM) for Muscatine County and Incorporated Areas, City of Muscatine Panels 19139C0185C, 192C, 225C, dated July 18, 201; Panels 19139C0169D, 175D, 187D, 188D, 189D, 193D, 281D, 282D, 301D, dated April 16, 2014, and Panels 19139C0179E

183E, 184E, 191E, dated November 4, 2016, which were prepared as part of the Flood Insurance Study for Muscatine County. Which is (are) hereby adopted by reference and declared to be the Official Floodplain Zoning Map. The flood profiles and all explanatory material contained with the Flood Insurance Study are also declared to be a part of this ordinance.

All lands included in such Flood Channel (Floodway) District shall be subject to the terms imposed herein.

#### 10-5-3 General Provisions

- A. It is not intended by this Chapter to repeal, abrogate or impair any existing easements, covenants, or deed restrictions. However, where this Chapter imposes greater restrictions, the provision of this Chapter shall prevail.
- B. All activities in this district shall obtain all necessary permits have been received as required by Federal or State law (including Section 404 of the Federal Water Pollution Control Act Amendments of 1972, 33 U.S.C. 1334).
- C. No use shall affect the capacity or conveyance of the channel or floodway of any tributary to the main stream, drainage ditch or any other drainage facility or system.

#### 10-5-4 Permissive Uses.

The following open space uses shall be permitted within the Flood Channel (Floodway) District to the extent that they are not prohibited by any other ordinance and provided that they do not require structures, placement of factory built buildings, fill, other obstructions, excavation, alteration of a watercourse, or storage of materials or equipment unless as otherwise provided by this Ordinance.

- A. Agricultural uses such as general farming, pasture, grazing, outdoor plant nurseries, horticulture, viticulture, truck farming, forestry, sod farming and wild crop harvesting.
- B. Industrial and commercial uses such as docks, dock piers, boat landings, loading areas, parking areas, and airport landing strips.
- C. Open recreational uses such as golf courses, tennis courts, driving ranges, archery ranges, picnic grounds, boat launching ramps, swimming areas, parks, wildlife and nature preserves, game farms, fish hatcheries, shooting preserves, target ranges, trap and skeet ranges, hinting and fishing areas, hiking and horseback riding trails.
- D. Open space, nonstructural uses such as lawns, gardens, parking areas, and play areas.
- E. For residential districts, area within the Flood Channel (Floodway), may be used for computing lot area requirements.
- F. Other water-oriented uses such as dams, power plants, underground pipelines, canals, drainage ditches, and bridges, provided such uses shall be approved by the Iowa Department of Natural Resources and meet other applicable Federal, State, and local regulations (including Section 404 of the Federal Water Pollution Control Act Amendments of 1972, 33 U.S.C. 1334).

#### 10-5-5 Conditional Uses.

Any use that includes structures, placement of factory built buildings, fill, other obstructions, excavation, alteration of a watercourse, or storage of materials or equipment requires a conditional use permit.

No structure (temporary or permanent), fill (including fill for roads and levees), deposit, obstruction, storage of materials or equipment, or other uses shall be permitted which acting alone or in combination with existing or proposed uses affects 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 in flood levels within the community during the occurrence of the base flood. For any such use, review shall be conducted by the Iowa Department of Natural Resources to determine if the proposed use would increase in flood levels within the community during the occurrence of the base flood.

#### 10-5-6 Responsibility for Studies

Where topographic data, engineering studies, or other studies are needed by the appropriate City agency and/or Iowa Department of Natural Resources to determine the effects of flooding on a structure and/or the effects of the structure on the flow of water, the applicant shall submit such data or studies. All such data shall be prepared by technically qualified persons. All such data shall be maintained by the City of Muscatine

#### 10-5-7 Administration

Duties and responsibilities of the City Administrator or his/her designee, specifically relating to this Chapter, shall include, but not necessarily be limited to the following:

A. Review conditional use permit applications to assure that all necessary permits have been obtained from federal, state and local governmental agencies including approval when required from the Department of Natural Resources for floodplain construction.

B. Notify adjacent communities/counties and the Department of Natural Resources prior to any proposed alteration or relocation of a watercourse and submit evidence of such notifications to the Federal Emergency Management Agency.

#### 10-5-8 Definitions.

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, additionally definition as contained in Section 10-4-9 shall also apply to this Chapter.

#### PROOF OF PUBLICATION

I, Jeff Lee, being duly sworn, on my oath, say that I am an advertising clerk at the Muscatine Journal, a newspaper of general circulation, published in the City of Muscatine, Muscatine County, Iowa; and that the following Notice:

Muscatine City Clerk

Ordinance No. 93605-1016

Of which the annexed printed slip is a true, correct and complete copy, was published in said Muscatine Journal one time having been made there in on:

October 14, 2016

STATE OF IOWA MUSCATINE COUNTY

ef Lee

14th day of October, 2016

Stefanie D. Trinh, Notary Public



Stefanie D. Trinh Iowa Notarial Seal Commission number 778997 My Commission Expires 06/20/2019

ORDINANCE NO. 93605-1016
AN ORDINANCE AMENDING CHAPTER
FOUR AND FIVE OF TITLE TEN OF
THE CITY CODE RELATING TO
FLOODPLAIN MANAGEMENT
REGULATIONS IN THE
CITY OF MUSCATINE, IOWA.
WHEREAS, The Federal Emergency
Management Agency (FEMA) has completed a Flood Hazard Determination
modifying the Flood Insurance Study and
Flood Insurance Rate Map for Muscatine
County, including the City of Muscatine
which become effective on November 4,
2016; and

WHEREAS. The City of Muscatine residency and so of the Floor in order to the Chapter 4, 2016; and WHEREAS. In order for City of Muscatine residents and businesses to be able to continue to participate in the National Flood Insurance Program, the City of Muscatine must by November 4th incorporated the revised Flood Insurance Rate Map Panels, effective November 4, 2016, with issued as a result of the Flood Hazard Determination into the City of Muscatine Floodplain Management Regulations (Chapter 4 and 5 of Title 10 of the City Code); and

Code); and WHEREAS, The City of Muscatine in order to ensure that residents will continue to be eligible to participate in the National Flood Insurance Program has prepared an ordinance to Chapter Four and Five of Title Ten that will bring the City's floodplain management regulations into compliance with Title 44 Code of Federal Regulations 60.3; and

compliance with Trile 44 Code of Federal Regulations 60.3; and NOW, THEREFORE BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF MUSCATINE, IOWA: SECTION 1. The currently adopted versions of Chapter Four and Chapter Five of Title Ten of the City Code are here by deleted and Exhibit A as attached hereby to is adopted in lieu thereof. SECTION 2. If any section, provision or part of this ordinance shall be adjudged invalid or unconstitutional, such adjudication shall not affect the validity of the ordinance as a whole or any section, provision or part thereof not adjudged invalid or unconstitutional.

sion or part thereof not adjudged invalid or unconstitutional.

SECTION 3. Any Ordinance or part thereof in conflict or inconsistent with the provisions of this Ordinance is repealed.

SECTION 4. This ordinance shall be in effect from and after November 4. 2016.

PASSED, APPROVED AND ADOPTED this 6th day of October 2016.

BY THE CITY OF MUSCATINE, IOWA Diana L. Broderson, Mayor ATTEST:

ATTEST: Gregg Mandsager, City Administrator

First Reading: September 15, 2016 Second Reading: October 6, 2016 Third Reading: October 6, 2016 Publication: October 14, 2016 Title 10 - Zoning Chapter 4 - FP Flood Plain District SECTIONS:

SECTIONS:
10-4-1 Intent and Purpose
10-4-2 District Boundaries
10-4-3 General Provisions
10-4-4 Permissive Uses
10-4-5 Conditional Uses
10-4-6 Height, Area, Parking Requirements

10-4-5 Coltrollar deeps 10-4-7 Cherichard Schrift and 10-4-8 Administration 10-4-9 Definitions 10-4-9 Definitions 10-4-1 Intent and Purpose. A. The Legislature of the State of Iowa, as amended, delegated the power to cities to enact zoning regulations to secure safety from flood and to promote health and the general welfare. B. It is the purpose of the Flood Plain District to apply special regulations to the use of land in those areas of the City which are subject to predictable inundations at frequent intervals and to assure that flood carrying capacity within the altered or relocated portion of any watercourse is maintained. Such land use controls are necessary to qualify property owners for flood insurance under the National Flood Insurance Act of 1968 (as amended). C. The regulations, while permitting rea-

amended).

C. The regulations, while permitting reasonable economic and social use of such properties, will help protect health, safety, and general welfare and reduce financial burdens imposed on the community, governmental units, and its individuals caused by frequent and periodic floods and the overflow of lands.

D. The standards required by this Chapter are considered reasonable for regulatory purposes. This Chapter does not imply that areas outside the designated

Floodplain (Overlay): District areas will be free from flooding or flood damages. This Chapter shall not create liability on the part of the City of Müscatine or any officer or employee thereof for any flood damages that result from reliance on this Chapter or any administrative decision lawfully made there under.

10-4-2 District Boundaries.

A The houndaries of the Flood Plain Dis-

iawnuly made errer under.

10-4-2 District Boundaries.

A. The boundaries of the Flood Plain District are hereby established as the areas classified as "Zone AE or Zone A" on the Flood Insurance Rate Map (FIRM) for Muscatine County and Incorporated Areas, City of Muscatine, Panels 19139C0186C, 192C, 225C, dated July 18, 201; Panels 19139C0169D, 175D, 187D, 188D, 189D, 193D, 281D, 282D, 301D, dated April 16, 2014, and Panels 19139C0179E 183E, 184E, 191E, dated November 4, 2016 which were prepared as part of the Flood Insurance Study for Muscatine County. Which is (are) hereby adopted by reference and declared to be the Official Floodplain Zoning Map. The flood price and all explanatory material contained with the Flood Insurance Study are also declared to be a part of this ordinance.

nance.

B. All lands included in such Flood Plain Districts shall be subject to the terms Imposed herein, in addition to the terms imposed by any other zoning use district in which said lands should be located.

10-4-3 General Provisions

A. it is not intended by this Chapter to repeat, abrogate or impair any existing easements, covenants, or deed restrictions. However, where this Chapter imposes greater restrictions, the provision

tions. However, where this Chapter imposes greater restrictions, the provision of this Chapter shall prevail.

B. All activities in this district shall obtain all necessary permits have been received as required by Federal or State law (including Section 404 of the Federal Water Pollution Control Act Amendments of 1972, 33 U.S.C. 1334).

C. No use shall affect the capacity or conveyance of the channel or floodway of any tributary to the main stream, drainage ditch or any other drainage facility or system.

dich or any other drainage facility or system.

10-4-4 Permissive Uses
When the Use proposed herein is allowable in a zoning district, the following uses and types of activities are permitted in the district; provided that such uses and types of activities do not entail any man-made changes to improved or unitroved real estate, including but not timited to buildings or other structures (includings), mining, dredging, filling, grading, paving, excavation, or drilling operations.

ing, paving, excavation, or drilling operations.

A. Agricultural uses such as general
farming, pasture, grazing, outdoor plant
rurseries, horticulture, viticulture, truck
farming, forestry, sod farming and wild
crop harvesting.

B. Open recreational uses such as golf
courses, tennis courts, driving ranges, archery ranges, picnic grounds, boat
launching ramps, swimming areas, parks,
wildlife and nature preserves, game
farms, fish hatcheries, shooting preserves, target ranges, trap and skeet
ranges, hinting and fishing areas, hiking
and horseback riding trails.

C. Marrhas.

D. Industrial-commercial uses such as
loading areas, parking areas, alrport landing strips.

E. For residential districts, area within the
Flood Plain District, may be used for computing lot area requirements and may,
therefore, be used for yard and park
areas.

F. Storage yard for materials and equip-

puting lot area requirements and may, therefore, be used for yard and park areas.

F. Storage yard for materials and equipment not subject to removal or major damage by flood waters.

10-4-5 Conditional Uses.

A. Any permissive or conditional use in the Zoning District applicable to the location in question end not identified as a permissive use in Section 10-4-4 is considered a conditional use.

B. Any man-made change to improved or unimproved real estate located in the Flood Plan District, including but not limited to buildings or other structures (including the placement of factory built buildings), mining, dredging, filling, grading, paving, excavation, or drilling operations, is considered a conditional use.

C. In addition to complying with the provisions contained within Section 10-22-1 of the City Code, conditional uses in the Flood Plain District must meet the following criteria to be approved:

1. Any proposed new construction or substantial improvements including the placement of factory built buildings shall meet the following standards:

a. 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, designed and/or modified and anchored to prevent flotation, collapse, or lateral movement of the structure.

D. Use construction materials and equipment that are resistant to flood damage.
 C. Use construction methods and practices that shall minimize flood damage.
 A wand substantially improved structures must 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.
 Factory-built homes including those placed in existing factory built home parks or subdivisions shall be elevated on a permanent foundation such that the lowest floor of the structures is a minimum of one (1) foot above the one hundred(100) year flood.
 All new construction or substantial improvements of residential structures located in the flood plain shall have the lowest floor (including basement) elevated one (1) foot above the level of the one hundred (100) year flood.
 All new and substantially improved residential and nonresidential structures with fully enclosed areas below the "lowest floor" (not including basements) that are subject to flooding shall be designed to automatically equalize hydrostatic flood forces on extenor walls by allowing for the entry and exit of flood waters. Designs for meeting this requirement must either be certified by a registered professional engineer or meet or exceed the following minimum criteria:

 1. 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 not experings or devices provided that they permit the automatic entry and exit of floodwaters.

All new construction or substantial improvements of nonresidential structures.

All new construction or substantial improvements of nonresidential structures.

the automatic entry and skit of localea-ters.

h. All new construction or substantial im-provements of nonresidential structures located in the Flood Plain District shall have the lowest floor (including base-ment) flood proofed and elevated one (1) foot above the level of the one hundred (100) year flood. When floodproofing is utilized, a professional engineer regis-tered in the State of lows shall certify that:

that:

1. The floodproofing methods used are adequate to withstand the flood depths, pressures, velocities, impact and uplift forces and other factors associated with

the 100-year flood; and 2. That the structure, below the 100-year flood level is watertight with walls sub-stantially impermeable to the passage of

flood fevel is watertight with walls substantially impermeable to the passage of
water.

i. All utility and sanitary facilities shall be
flood procied one (1) foot above the level
of the one hundred (100) year flood so
that any space below the level of the one
hundred (100) year flood is watertight
with walls substantially impermeable to
the passage of water with structural components having the capability of resisting
hydrostatic and hydrodynamic loads and
effects of buoyancy.

j. On site waste disposal systems shall be
located or designed to avoid impalment
to the system or contamination from the
system during flooding.

k. All new and replacement sanitary sewage systems shall be designed to minimize or eliminate infiltration of flood waters into the system as well as the discharge of effluent into flood waters.

I. Wastewater treatment facilities (other
than on-site systems) shall be provided
with a level of flood protection equal to or
greater than one (1) foot above the
100-year flood elevation.

m. New or replacement water supply systems shall be designed to minimize or
eliminate infiltration of flood waters into
the system.

n. Water supply treatment facilities shall

m. New or replacement water supply systems shall be designed to minimize or eliminate infilitation of flood waters into the system.

n. Water supply treatment facilities shall be provided with a level of protection equal to or greater than one (1) foot above the one hundred (100) year flood elevation.

o. Utilities such as a gas or electrical system shall be located and constructed to minimize or eliminate flood damage to the system and the risk associated with such flood damaged or impaired systems.

p. All applicants for conditional use permits for new or substantially improved structures shall be accompanied by records of elevations and flood profing levels, and whether or not such structures contain a basement, it shall be the responsibility of the applicant to obtain the appropriate topographic data, engineering studies, or other studies needed by the Zoning Board of Adjustment, the City Administrator or his/her designee, and/or other appropriate agency or official. All such data shall be prepared and cartified by technically qualified persons and will be maintained by the City Administrator or his/her designee.

q. All applicants for conditional use permits for new or substantially improved structures shall be reviewed by the City Administrator or his/her designee to determine if the site of the proposed improvements is reasonably safe from flooding and that all necessary permits

have been received as required by Federal or State law (Including Section 404 of the Federal Water Politidon Control Act Amendments of 1972, 33 U.S.C. 1334).

r. Storage of materials and equipment that are flammable, explosive or injurious to human, animal or plant life is prohibted unless elevated a minimum of one (1) foot above the one hundred (100) year flood level. Other material and equipment must either be similarly elevated or (i) not be subject to major flood damage and be anchored to prevent movement due to flood waters or (ii) be readily removable from the area within the time available after flood warning.

s. Flood control structural works such as levees, flood walls, etc. shall provide, at a minimum, protection from a one hundred (100) year flood with a minimum of 3 feet (3) of design freeboard and shall provide for adequate interior drainage. In addition, structural flood control works shall be approved by the Department of Natural Resources.

u. The exemption of detached garages, sheds, and similar structures from the

un approved by the Department of Natural Resources.

u. The exemption of detached garages, sheds, and similar structures from the one hundred (100) year flood elevation requirements may result in increased premium rates for insurance coverage of the structure and contents, however, said detached garages, sheds, and similar accessory type structures are exempt from the one hundred (100) year flood elevation requirements when:

1. The structure shall not be used for human habitation.

The structure shall be designed to have low flood damage potential.
 The structure shall be constructed and placed on the building site so as to offer minimum resistance to the flow of flood-instructure.

placed on the building site so as to offer minimum resistance to the flow of flood-waters.

4. Structures shall be firmly anchored to prevent flotation which may result in damage to other structures.

5. The structure's service facilities such as electrical and heating equipment shall be elevated or flood proofed to at least one (1) foot above the one hundred (100) year flood level.

2. All subdivision proposals and all other proposed new developments located in the Flood Plain District shall be reviewed by the appropriate agency to assure that:

a. All such proposals are consistent with the need to minimize flood damage.

b. All public utilities and facilities, such as sewer, gas, electrical, and water systems, are located and constructed to minimize or eliminate flood damage.

c. Adequate drainage is provided to reduce exposure to flood hazards.

d. All such proposals greater than fifty (50) lots or five (5) acrss, whichever is lesser. Include, within such proposals, base flood elevation data.

3. Factory built home development is considered a conditional use in the Flood Plain District, provided the subject property is appropriately zoned for such use and further provided that such development tollows the procedures designed in the Zoning Ordinance for consideration of synchoses.

A For new factory built home parks, for avacaloge the audition to the subject of avacaloge to a such use.

the Zoning Ordinance for consustration of such use.

A For new factory built home parks, for expansions to existing factory built home parks and for existing factory built home parks where the repair, reconstruction, or improvement of streets, utilities, and pade equal or exceeds fifty percent (50%) of the value of the streets, utilities, and pade before the repair, reconstruction, or improvement has commenced, it is required that:

1. Ground anchors for tie downs be pro-vided in accordance with the Mobile Home Manufacturers Association stand-

Home Manufacturers Association standards.

2. The special flood hazard is disclosed to the tectory built home and/or lot purchaser or lessee in the purchase contract, deed or lease. Notification of both the one hundred (100) year flood elevation and the regulatory flood protection elevation shall be provided.

3. Adequate surface drainage and easy access for a hauler is provided.

4. In the instance of elevation on piers, lots are large enough to permit steps, and steel reinforcement is provided for plars more than six feet (6) high.

5. Stands or lots are elevated on compacted fill or piers so that the lowest floor of the home will be one foot (1) above the level of the one hundred (100) year flood.

the level of the one number (100) year flood.

B. For factory built hornes moving into existing factory built horne parks, where concrete pads for the placement of factory built homes are in existence and where street and utility, connections are in existence, it is required that:

1. Ground anchors for tile downs are required in accordance, with the Mobile Home Manufacturers Association standards.

Annual actions and a series of the factory built home and/or lot purchaser or lessee in the purchase contract, deed, or lease. Notification of both the one hundred (100) year flood elevation and the regulatory flood protection elevation shall be provided.

4. All pressurized terms and uner-containers storing materials or bulk materials hazardous to the public health, safety, and welfare shall be anchored to prevent lateral movement, collapse, flotation, or buoyancy.

5. Further, requirements for recreational vehicles placed on sites within Zone AE on on the Flood Insurance Rate Map (FIRM) for Muscatine County and Incorporated Areas, City of Muscatine, Panels 19139C0185C, 192C, 225C, dated July 18, 201; Panels 19139C0169D, 175D, 187D, 188D, 189D, 193D, 281D, 282D, 301D, dated April 16, 2014, and Panels 19139C0179E 183E, 194E, 191E, dated November 4, 2016:

A. Be on the site for fewer than 180 consecutive days.

secutive days.

B. Be fully licensed and ready for highway

use, or C. Meet the permit, elevation and anchoring requirements for "manufactured homes".

D. A recreational vehicle is ready for highway use if it is on its wheels or jacking system, is attached to the site only by disconnect type utilities and security devices, and has no permanent attached additions.

10-4-6 Height, Area, Parking Require-

ments
The height, area, and parking requirements must conform to the district on
which the Flood Plain District is superim-

which the Flood Plain District is superimposed.

10-4-7 Flood Control Manual
The 2002 Flood Control Manual for the
City of Muscatine, as amended, is hereby
adopted by reference. Said Flood Control
Manual shall have the same force and effect as though fully set forth herein. Coples of said Flood Control Manual are
available in the office of the City Clerk.

10-4-8 Administration
Duties and responsibilities of the City Administrator or his/her designee, specifically relating to this Chapter, shall include,
but not necessarily be limited to the following:

lowing: A. Review conditional use permit applica-A. Review conditional use permit applications to assure that all necessary permits
have been obtained from federal, state
and local governmental agencies including approval when required from the Department of Natural Resources for
floodplain construction.

B. Record and maintain a record of (i) the
elevation (in relation to North American

floodplain construction.

B. Record and maintain a record of (i) the elevation (in relation to North American Vertical Datum 1988) of the lowest floor (including basement) of all new or substantially improved structures or (ii) the elevation to which new or substantially improved structures have been floodproofed.

C. Notify adjacent communities/counties and the Department of Natural Resources prior to any proposed alteration or relocation of a watercourse and submit evidence of such notifications to the Federal Emergency Management Agency.

D. Submit to the Federal Insurance Administrator an annual report concerning the City of Muscatine's participation, utilizing the annual report form supplied by the Federal Insurance Administrator.

E. Notify the Federal Insurance Administration of any annexations or modifications to the City of Muscatine corporate limit.

10-4-9 Definitions.

limit.

10-4-9 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.

give this ordinated its index formation application.

Basement - Any enclosed area of a building which has its floor or lowest level below ground level (subgrade) on all sides.

Also see "lowest floor."

Also see "towest itoor."
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.

grading, paving, excavation or drilling operations. Existing Factory-Built Home Park or Subdivision - A factory-built home park or subdivision for which the construction of facilities for servicing the lots on which the factory-built 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 August 25, 1981. Expansion of Existing Factory-Built Home Park or Subdivision - The preparation of additional sites by the construction of facting at a minimum, the installation of utilities, the construction of streets, and either final site grading or the pouring of concrete pads).

either final site grading or the bouring of concrete pads). Factory-Built Home - Any structure, designed for residential use, which is wholly or in substantial part, made, fabricated, formed or assembled in manufacturing facilities for installation or assembly and installation, on a building site. For the purpose of this Ordinance factory-built homes include mobile homes, manufactured homes and modular homes and also include park

ments for individual listing on the lutational Register;
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catcurate nhe base noto elevation:

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Rais Map.

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B. For locations in sneas classified as B. For locations in sneas classified was (FRM) for Muscatine County and Insurance Rais Comporated Areas, City of Muscatine Panels 19139Co185C, 198C, 283C, 198C, 283C, 2914, 2913, 2910, 281

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ing quarters for recitationists, Campring, framps, or leasened as the recitation of the VP Floodway, Ploodway, Plood

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

years.

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A Built on a single chassle;

A Built on a single chassle;

When the largest her or less when measured at the largest horizontal projection;

C. Designed to be self-propelled or permanently towable by a light duty fruct;

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Unching A - bool Flux (100) Year Flood A - B flood, One Hundred (10) perOne Hundred of which he as one of the count chance of being aqueled or exceeded in any given year or which, on the severage, will be equaled or exceeded at least once every one hundred (100)

luves Heatory-Built Home Park or Subdivision - A teatory-Built home park or subdivision - A teatory-built home park or subdivision for which the construction of teatory-built homes are to be affixed teatory-built homes are to be affixed (including at a minimum, the installation of utilities, the construction of arrests, and either first atta grading or the pouring of the area of a tilest foodplain manity concrete passes) is completed on or affair the affective date of first foodplain manity.

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New Construction: structures for which the start of construction commenced on or after August 25, 1981 and includes any aubsequent improvements to such structures.

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except when all the following criteria are except when all the following criteria are passentially listed on a local inventory or historic places in communities with historic presentation programs are destroe without approved programs as destroe without approved programs as destroe without approved programs as destroe without approved programs are destroe without approved programs and it by an approved state without approved in a building in the provided programs and provided and provided provided programs and provided provide

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hier:

A. Any project for improvement of a structure during to conscious de violations of state of local health, sanitary, or salety code specifications which have been dentified to dentified on by the local code enforcement official and by the local code enforcement official and which are a minimum necessary to seven early enforce of a "historic structure," by the local code of a "historic structure, it is a minimum of a sincture of a citide the structure's confinitude designation are a "historic structure".

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apply to this Chapter. Words or phrases used in this ordinance shall be interpreted so as to give them the meant usage and to give this ordinance its most near sonable application, additionally definition, sonable application, additionally definition, as ontained in Section 10-4-9 shall also apply to this Chapter.

lowing:

A. Review conditional use permit applications to assure that all necessary permits have been obtained from flederal, statistical permits and local governmental agencies including approval when required from the Destination of Metama Resources for Communities/counties and the Department of Natural Resources for any proposed affertation to reforce that the Communities of the Natural Resources and such and the Pederal School of the Natural Resources and such and the Pederal School of Natural Resources and such and the Natural Resources and the Natural Resources

equipment, or other uses affail be perimited which acting abone or in combustion with a starting abone or in combustion with a starting or proposed uses affects
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t Wo structura (temporary or permaneant), Wo structura (Wo structura) (III) (including III) for teads and leves), deeposts, obstruction, etorage of materials or posts, obstruction, etorage altail be permitted which starting alone or in combrast into with a strict and the compressed uses affects from with artisting of proceed uses affects.

10-5-5 Conditional Uses.
10-5-5 Conditional Uses.
May use that includes structures, placemen bi factory built buildings, fill, other watercourse, or rationage of materials or equipment requires a conditional use permit.

No structure of the conditional use permits.

Jowa Department of Natural Resources of the Constitution of Section and meet other applicable Federal Gestions and local regulations (including Section Got into Federal Water Pollution Control Act Amendments of 1972, 35 U.S.C. (334).

Trees residential districts, snea within the Ficot residential districts, snea within the Flood Channel (Floodway), may be used for computing of sare featurement and snear snear serial be sphorded and snear shall be approved by the provided such uses shall be approved by the constant of Matural Resources lows Department of Matural Resources over the provided snear shall be sphorded and snear shall be sphorded the snear provided snear shall be sphorded to the snear provided snear shall be sphorded to the snear shall be sphorded to the snear shall be sphorded to the snear shall be snear shall be sphorded to the snear shall be snear snear shall be snear s

landing strips.

C. Open recreational uses such as golf sounds, driving ranges, arrons, driving ranges, arrons, driving ranges, parts, parts,

ulcin or any other distinge iscinity or system.

10-5-4 Permissive Uses.

10-5-4 Permissive Uses.

10-6-4 Permissive Uses

A. It is not intended by unis chapter to repeat, abrogate or impair any axisting desements, covenante, or deed destrictions. However, where his Chapter innual chapter established the Chapter shall prevail of this Chapter shall prevail all necessary permits have been received as all necessary permits have been received by Federal or 15kie law Water Poliution Control AD, or The Chantenth of 1972, 33 U.S.C. 1334).

C. No use shall affect the capacity or conveyed to the chantenth of the Chapter of the channel of th