

Muddy

FLOOD DAMAGE PREVENTION ORDINANCE

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Base Flood Elevation (BFE) - The elevation in relation to mean sea level of the crest of the base flood.

Basement- That portion of a building having its floor sub-grade (below ground level) on all sides.

Building- A walled and roofed structure, including gas or liquid storage tank that is principally above ground including manufactured homes, prefabricated buildings and gas or liquid storage tanks. The term also includes recreational vehicles and travel trailers installed on a site for more than one hundred eighty (180) days per year.

Critical Facility- Any facility which is critical to the health and welfare of the population and, if flooded, would create an added dimension to the disaster. Damage to these critical facilities can impact the delivery of vital services, can cause greater damage to other sectors of the community, or can put special populations at risk.

Examples of critical facilities where flood protection should be required include: emergency services facilities (such as fire and police stations), schools, hospitals retirement homes and senior care facilities, major roads and bridges, critical utility sites (telephone switching stations or electrical transformers, and hazardous material storage facilities (chemicals, petrochemicals, hazardous or toxic substances).

Development- Any man-made change to real estate including, but not necessarily limited to:

1. Demolition, construction, reconstruction, repair, placement of a building, or any structural alteration to a building;
2. substantial improvement of an existing building;
3. installation of a manufactured home on a site, preparing a site for a manufactured home, or installing a travel trailer on a site for more than one hundred eighty (180) days per year;
4. installation of utilities, construction of roads, bridges, culverts or similar projects;
5. construction or erection of levees, dams walls or fences;
6. drilling, mining, filling, dredging, grading, excavating, paving, or other alterations of the ground surface;
7. storage of materials including the placement of gas and liquid storage tanks, and channel modifications or any other activity that might change the direction, height, or velocity of flood or surface waters.

“Development” does not include routine maintenance of existing buildings and facilities, resurfacing roads, or gardening, plowing, and similar practices that do not involve filing, grading, or construction of levees.

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 or buildings to be constructed (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.

Historic Structure- Any structure that is:

1. Listed individually in the National Register of Historic Places or preliminarily determined by the Secretary of the Interior as meeting the requirements for individual listing on the National Register.
2. Certified or preliminarily determined by the Secretary of the Interior as contributing to the historic district or a district preliminarily determined by the Secretary to qualify as a registered historic district.
3. Individually listed on the state inventory of historic places by the Illinois Historic Preservation Agency.
4. Individually listed on a local inventory of historic places that has been certified by the Illinois Historic Preservation Agency.

IDNR/OWR- Illinois Department of Natural Resources/Office of Water Resources.

IDNR /OWR Jurisdictional Stream- Illinois Department of Natural Resource Office of Water Resources has jurisdiction over any stream serving a tributary area of 640 acres or more in an urban area, or in the floodway of any stream serving a tributary area of 6,400 acres or more in a rural area. Construction on these streams requires a permit from the Department. (Ill Admin. Code tit. 17, pt. 3700.30). The Department may grant approval for specific types of activities by issuance of a statewide permit which meets the standards defined in Section 6 of this ordinance.

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 requirements of Section 7 of this ordinance.

Manufactured Home- A structure transportable in one or more sections that is built on a permanent chassis and is designed to be used with or without a permanent foundation when connected to required utilities.

Manufactured Home Park or Subdivision- A parcel (or contiguous parcels) of land divided into two or more lots for rent or sale.

New Construction- Structures for which the start of construction commenced or after the effective date of floodplain management regulations adopted by a community and includes any subsequent improvements of 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 or buildings to be constructed (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 the floodplain management regulations adopted by a community.

The term does not include:

1. Any project for improvement of a structure to comply with existing state or local health, sanitary, or safety code specifications which are solely necessary to assure safe living conditions, or
2. any alteration of a structure listed on the National Register of Historic Places or the Illinois Register of Historic Places.

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 required federal, state, and/or local permits and elevation certification is presumed to be in violation until such time as the documentation is provided.

Section 3. Base Flood Elevation.

This ordinance's protection standard is the base flood. The best available base flood data are listed below. Whenever a party disagrees with the best available data, the party shall finance the detailed engineering study needed to replace the existing data with better data and submit it to the FEMA and IDNR/OWR for approval prior to any development of the site.

- A. The base flood elevation for the floodplains of the Ohio River shall be as delineated on the 100-year flood profiles in the countywide Flood Insurance Study of Saline County prepared by the Federal Emergency Management Agency and dated 12/16/2011.
- B. The base flood elevation for each floodplain delineated as an "AH Zone" or AO Zone" shall be that elevation (or depth) delineated on the county wide Flood Insurance Rate Map of Saline County.
- C. The base flood elevation for each of the remaining floodplains delineated as an "A Zone" on the countywide Flood Insurance Rate Map of Saline County shall be according to the best data available from federal, state or sources. Should no other data exist, an engineering study must be financed by the applicant to determine base flood elevations.
- D. The base flood elevation for the floodplains of those parts of unincorporated Saline County that are within the extraterritorial jurisdiction of the Village of Muddy, or that may be annexed into the Village of Muddy, shall be as delineated on the 100-year flood profiles in the Flood Insurance Study of Saline County prepared by the Federal Emergency Management Agency and dated 12/16/2011.

Section 4. Duties of the Zoning Officer

The Zoning Officer shall be responsible for the general administration of this ordinance and ensure that all development activities within the floodplains under the jurisdiction of the Village of Muddy meet the requirements of this ordinance. Specifically, the Zoning Officer shall:

- A. Process development permits in accordance with Section 5;

A. The application for development permit shall be accompanied by:

1. drawings of the site, drawn to scale showing property line dimensions;
2. existing grade elevations and all changes in grade resulting from excavation or filling;
3. the location and dimensions of all buildings and additions to buildings;
4. the elevation of the lowest floor (including basement) of all proposed buildings subject to the requirements of Section 7 of this ordinance, and
5. cost of project or improvements as estimated by a licensed engineer or architect. A signed estimate by a contractor may also meet this requirement.

B. Upon receipt of an application for a development permit, the Zoning Officer shall compare the elevation of the site to the base flood elevation. Any development located on land that is shown by survey elevation to be below the current base flood elevation is subject to the provisions of this ordinance. In addition, any development located on land shown to be below the base flood elevation and hydraulically connected to a flood source, but not identified as floodplain on the current Flood Insurance Rate Map, is subject to the provisions of this ordinance. Any development located on land that can be shown by survey data to be higher than the current base flood elevation and which has not been filled after the date of the site's first Flood Insurance Rate Map is not in the floodplain and therefore not subject to the provisions of this ordinance.

The Zoning Officer shall maintain documentation of the existing ground elevation at the development site and certification that this ground elevation existed prior to the date of the site's first Flood Insurance Rate Map identification.

The Zoning Officer shall be responsible for obtaining from the applicant copies of all other federal, state, and local permits, approvals or permit-not-required letters that may be required for this type of activity. The Zoning Officer ***shall*** not issue a permit unless all other federal, state, and local permits have been obtained.

Section 6. Preventing Increased Flood Heights and Resulting Damages.

Within any floodway identified on the countywide Flood Insurance Rate Map, and within all other floodplains where a floodway has not been delineated, the following standards shall apply:

- A. Except as provided in Section 6(B) of this ordinance, no development shall be allowed which, acting in combination with existing and anticipated development will cause any increase in flood heights or velocities or threat to public health and safety. The following specific development activities shall be considered as meeting this requirement*:
 1. Bridge and culvert crossings of streams in rural areas meeting the conditions of the Illinois Department of Natural Resources, Office of Water Resources Statewide Permit Number 2:

Section 7. Protecting Buildings.

- A. In addition to the state permit and damage prevention requirements of Section 6 of this ordinance, all buildings located in the floodplain shall be protected from flood damage below the flood protection elevation. This building protection requirement applies to the following situations:
1. Construction or placement of a new building or alteration or addition to an existing building valued at more than one thousand dollars (\$1,000) or seventy (70) square feet.
 2. Substantial improvements or structural alterations made to an existing building that increase the floor area by more than twenty percent (20%) or equal or exceed the market value by fifty percent (50%). Alteration shall be figured cumulatively subsequent to the adoption of this ordinance. If substantially improved, the existing structure and the addition must meet the flood protection standards of this section.
 3. Repairs made to a substantially damaged building. These repairs shall be figured cumulatively subsequent to the adoption of this ordinance. If substantially damaged the entire structure must meet the flood protection standards of this section within 24 months of the date the damage occurred.
 4. Installing a manufactured home on a new site or a new manufactured home on an existing site. (The building protection requirements do not apply to returning a manufactured home to the same site it lawfully occupied before it was removed to avoid flood damage).
 5. Installing a travel trailer or recreational vehicle on a site for more than one hundred eighty (180) days per year.
 6. Repetitive loss to an existing building as defined in Section 2.
- B. Residential or non-residential buildings can meet the building protection requirements by one of the following methods:
1. The building may be constructed on permanent land fill in accordance with the following:
 - a. The lowest floor (including basement) shall be at or above the flood protection elevation.
 - b. The fill shall be placed in layers no greater than six inches before compaction and should extend at least ten (10) feet beyond the foundation before sloping below the flood protection elevation.
 - c. The fill shall be protected against erosion and scour during flooding by vegetative cover, riprap, or other structural measure.
 - d. The fill shall be composed of rock or soil and not incorporated debris or refuse material, and

per one (1) square foot of enclosed area. The openings shall be no more than one (1) foot above grade.

- c. The interior grade of the crawlspace below the flood protection elevation must not be more than two (2) feet below the lowest adjacent exterior grade.
- d. The interior height of the crawlspace measured from the interior grade of the crawl to the top of the foundations wall must not exceed four (4) feet at any point.
- e. An adequate drainage system must be installed to remove floodwaters from the interior area of the crawlspace within a reasonable period of time after a flood event.
- f. Portions of the building below the flood protection elevation must be constructed with materials resistant to flood damage, and
- g. Utility systems within the crawlspace must be elevated above the flood protection elevation.

C. Non-residential buildings may be structurally dry flood proofed (in lieu of elevation) provided a licensed professional engineer or architect certifies that:

1. Below the flood protection elevation the structure and attendant utility facilities are watertight and capable of resisting the effects of the base flood.
2. The building design accounts for flood velocities, duration, rate of rise, hydrostatic and hydrodynamic forces, the effects of buoyancy, and the impact from debris and ice.
3. Flood proofing measures will be incorporated into the building design and operable without human intervention and without an outside source of electricity.
4. Levees, berms, floodwalls and similar works are not considered flood proofing for the purpose of this subsection.

D. Manufactured homes or travel trailers to be permanently installed on site shall be:

1. Elevated to or above the flood protection elevation in accordance with Section 7(B), and
2. anchored to resist flotation, collapse, or lateral movement by being tied down in accordance with the rules and regulations for the Illinois Mobile Home Tie-Down Act issued pursuant to 77 Ill. Adm. Code § 870.

E. Travel trailers and recreational vehicles on site for more than one hundred eighty (180) days per year shall meet the elevation requirements of section 7(D) unless the following conditions are met:

1. The vehicle must be either self-propelled or towable by a light duty truck.
2. The hitch must remain on the vehicle at all times.
3. The vehicle must not be attached to external structures such as decks and porches
4. The vehicle must be designed solely for recreation, camping, travel, or seasonal use rather than as a permanent dwelling.

11. The lowest floor elevation should be documented and the owner advised of the flood insurance implications.

Section 8. Subdivision Requirements

The Village Board shall take into account hazards, to the extent that they are known, in all official actions related to land management use and development.

- A. New subdivisions, manufactured home parks, annexation agreements, planned unit developments, and additions to manufactured home parks and subdivisions shall meet the damage prevention and building protections standards of Sections 6 and 7 of this ordinance. Any proposal for such development shall include the following data:
 1. The base flood elevation and the boundary of the floodplain, where the base flood elevation is not available from an existing study, the applicant shall be responsible for calculating the base flood elevation;
 2. the boundary of the floodway when applicable, and
 3. a signed statement by a Licensed Professional Engineer that the proposed plat or plan accounts for changes in the drainage of surface waters in accordance with the Plat Act (765 ILCS 205/2).

Streets, blocks lots, parks and other public grounds shall be located and laid out in such a manner as to preserve and utilize natural streams and channels. Wherever possible the floodplains shall be included within parks or other public grounds.

Section 9. Public Health and Other Standards

- A. Public health standards must be met for all floodplain development. In addition to the requirements of Sections 6 and 7 of this ordinance the following standards apply:
 1. No development in the floodplain shall include locating or storing chemicals, explosives, buoyant materials, flammable liquids, pollutants, or other hazardous or toxic materials below the flood protection elevation unless such materials are stored in a flood proofed and anchored storage tank and certified by a professional engineer or flood proofed building constructed according to the requirements of Section 7 of this ordinance.
 2. Public utilities and facilities such as sewer, gas and electric shall be located and constructed to minimize or eliminate flood damage.
 3. Public sanitary sewer systems and water supply systems shall be located and constructed to minimize or eliminate infiltration of flood waters into the systems and discharges from the systems into flood waters.
 4. New and replacement on-site sanitary sewer lines or waste disposal systems shall be located and constructed to avoid impairment to them or contamination from them during flooding. Manholes or other above ground openings located below the flood protection elevation shall be watertight.

B. The Village Board shall notify an applicant in writing that a variance from the requirements of the building protection standards of Section 7 that would lessen the degree of protection to a building will:

1. Result in increased premium rates for flood insurance up to twenty-five dollars (\$25) per one hundred dollars (\$100) of insurance coverage;
2. increase the risk to life and property, and
3. require that the applicant proceed with knowledge of these risks and that the applicant acknowledge in writing the assumption of the risk and liability.

C. Historic Structures

- a. Variances to the building protection requirements of Section 7 of this ordinance which are requested in connection with reconstruction, repair, or alteration of a historic site or historic structure as defined in "Historic Structures", may be granted using criteria more permissive than the requirements of Sections 6 and 7 of this ordinance subject to the conditions that:
 1. The repair or rehabilitation is the minimum necessary to preserve the historic character and design of the structure.
 2. The repair or rehabilitation will not result in the structure being removed as a certified historic structure.

D. Agriculture

Any variance granted for an agricultural structure shall be decided individually based on a case by case analysis of the building's unique circumstances. Variances granted shall meet the following conditions as well as those criteria and conditions set forth in this ordinance.

In order to minimize flood damages during the 100-year flood and the threat to public health and safety, the following conditions shall be included for any variance issued for agricultural structures that are constructed at-grade and wet-flood proofed.

1. All agricultural structures considered for a variance from the floodplain management regulations of this ordinance shall demonstrate that the varied structure is located in wide, expansive floodplain areas and no other alternate location outside of the special flood hazard area exists for the agricultural structure. Residential structures or animal confinement facilities, such as farm houses, cannot be considered agricultural structures.
2. Use of the varied structures must be limited to agricultural purposes in zone A only as identified on the community's Flood Insurance Rate Map (FIRM).
3. For any new or substantially damaged agricultural structures, the exterior and interior building components and elements (i.e., foundation, wall framing, exterior and interior finishes, flooring, etc.) below the base flood elevation, must be built with flood-resistant materials in accordance with Section 7 of this ordinance.
4. The agricultural structures must be adequately anchored to prevent flotation, collapse, or lateral movement of the structures in accordance with Section 7 of this ordinance. All of the building's structural components must be capable of

2. Any person who violates this ordinance shall upon conviction thereof be fined not less than fifty dollars (\$50) or more than seven hundred fifty (\$750) for each offense.
 3. A separate offense shall be deemed committed upon each day during or on which a violation occurs or continues, and
 4. The Village of Muddy shall record a notice of violation on the title of the property.
- B. The Municipal Attorney shall inform the owner that any such violation is considered a willful act to increase flood damages and therefore may cause coverage by a Standard Flood Insurance Policy to be suspended.

The Municipal Attorney is authorized to issue an order requiring the suspension of the subject development. The stop-work order shall be in writing, indicate the reason for the issuance, and shall order the action, if necessary, to resolve the circumstances requiring the stop-work order. The stop-work order constitutes a suspension of the permit.

No site development permit shall be permanently suspended or revoked until a hearing is held by the Village Board. Written notice of such hearing shall be served on the permittee and shall state:

1. The grounds for the complaint, reasons for suspension or revocation, and
2. The time and place of the hearing.

At such hearing the permittee shall be given an opportunity to present evidence on their behalf. At the conclusion of the hearing, the Village Board shall determine whether the permit shall be suspended or revoked.

- C. Nothing herein shall prevent the Village of Muddy from taking such other lawful action to prevent or remedy any violations. All costs connected therewith shall accrue to the person or persons responsible.

Section 14. Abrogation and Greater Restrictions.

This ordinance repeals and replaces other ordinances adopted by the Village of Muddy to fulfill the requirements of the National Flood Insurance Program including ordinance dated 11/27/1989. However, this ordinance does not repeal the original resolution or ordinance adopted to achieve eligibility in the program. Nor does this ordinance repeal, abrogate, or impair any existing easements, covenants, or deed restrictions. Where this ordinance and other ordinance easements, covenants or deed restrictions conflict or overlap, whichever imposes the more stringent restrictions shall prevail.

