

Permit#: _____

PERMIT FEE: \$75.00

FLOOD PLAIN PERMIT APPLICATION FORM

Comment: Zoning permit, construction plans, specifications & calculations shall be submitted for approval and will be incorporated into and become the approved permit documents.

Project: _____ Name of Owner: _____

Address: _____ Lot Number: _____ Plat: _____

Township/City: _____ Parcel ID#: _____ Zoning Permit # _____ Date: _____

Estimated Cost: \$ _____

Name of Contact Person: _____ Contact Person Address: _____

Contact Person Phone #: _____ Fax #: _____

E-Mail: _____

Name of Contractor: _____ Contractor's Address: _____

Contractor's Phone #: () _____ Fax #: () _____

E-Mail: _____

(To receive inspection times & inspections results, you must have email address in order to receive)

Print Applicant's Name: _____ Signature: _____ Date _____

RESIDENTIAL INFORMATION

INFORMATION FOR ONE, TWO OR THREE FAMILY CONSTRUCTION
AND ACCESSORY BUILDINGS

New: _____ Alteration: _____ Addition: _____

Total Square Feet of Habitable Space: _____ *Total Square Feet of Non-Habitable Space: _____

Accessory Structures: _____ Total Square Feet: _____

COMMERCIAL INFORMATION

CONSTRUCTION INCLUDING FOUR FAMILY RESIDENTIAL BUILDINGS
AND ACCESSORY STRUCTURES

New: _____ Alteration: _____ Addition: _____

Group & Total Square Feet: _____ Use Group & Total Square Feet: _____

**GREENE COUNTY DEPARTMENT OF BUILDING REGULATION
667 DAYTON-XENIA ROAD, XENIA, OHIO 45385
937-562-7420; FAX- 937-562-7425
WEB SITE: WWW.CO.GREENE.OH.US**

June 3, 2014

FLOOD HAZARD AREA DEVELOPMENT PERMIT ADMINISTRATIVE CHECKLIST

NOTE: *The following is to be completed by the local floodplain administrator. All references to elevations are in feet mean sea level (m.s.l.) according to the datum used on the effective Flood Insurance Rate Maps.*

1. The proposed development is in:
- An identified floodway.
 - Does a hydrologic and hydraulic engineering analysis accompany the application Y / N
 - Does the analysis have a certification that flood heights will not be increased Y / N
 - Is the analysis certified by a Registered Professional Engineer Y / N
 - A flood hazard area where base flood elevations exist with no identified floodway.
 - Does a hydrologic and hydraulic engineering analysis accompany the application Y / N
 - Does the analysis have a certification that flood heights will be increased less than the height designated in the community's flood damage reduction regulations (in no case will this be more than one foot) Y / N
 - Is the analysis certified by a Registered Professional Engineer Y / N
 - An area within the floodplain fringe.
 - An approximate flood hazard area (Zone A).
 - Within the banks of a watercourse.
 - Does an analysis demonstrating that the flood carrying capacity has not been diminished accompany the application Y / N

Base flood elevation (100-year) at proposed site _____ feet m.s.l.
 Data source _____
 Map effective date _____ Community-Panel No. _____

2. Does proposed development meet NFIP and local "Use and Development Standards" of your regulations?
- Permitted Use.
 - Water and wastewater systems standards met.
 - Subdivision standards met (All public utilities and facilities safe from flooding, adequate drainage, flood elevations generated where applicable).
 - Residential/non-residential structures standards met. Lowest floor elevation _____ feet m.s.l.
 - Substantial improvement / substantial damage Y / N
 - Anchored properly (manufactured home affixed to permanent foundation) Y / N
 - Utilities protected against flooding Y / N
 - Construction materials below flood protection elevation resistant to flood damage Y / N
 - Lowest floor elevated to or above flood protection elevation (BFE + freeboard) Y / N
 - Has an enclosure below lowest floor (crawl space, walkout basement) Y / N
 - Enclosure have proper number and area of openings Y / N
 - Enclosure unfinished and only used for parking, materials storage or entry Y / N
 - Accessory structure standards met (square footage, use, foundation openings). Y / N
 - Recreational vehicle standards met.
 - Above ground gas or liquid storage tank anchored.
 - Flood carrying capacity maintained for floodway development, areas where FEMA has provided BFE data but no floodways, or for alterations of a watercourse.
3. Does proposed development trigger requirement to submit a Letter of Map Revision or Conditional Letter of Map Revision? Y / N

DECISION RECORD

4. The proposed development is in compliance with applicable floodplain standards. **FLOOD HAZARD AREA DEVELOPMENT PERMIT ISSUED ON _____.**
5. The proposed development is not in compliance with applicable floodplain standards. **FLOOD HAZARD AREA DEVELOPMENT PERMIT DENIED ON _____.** Reason(s):

6. The proposed development is exempt from the floodplain standards per Section _____ of the Flood Damage Prevention Ordinance (Resolution) No. _____.

Administrator's Signature: _____ Date: _____

FLOOD HAZARD AREA DEVELOPMENT PERMIT APPLICATION

Application is hereby made for a DEVELOPMENT PERMIT as required by the Special Purpose Flood Damage Reduction Regulations No. _____ of _____ (village/city/county) for development in an identified flood hazard area. All activities shall be completed in accordance with the requirements of said regulations. The development to be performed is described below and in attachments hereto. The applicant understands and agrees that:

- The permit applied for, if granted, is issued on the representations made herein;
- Any permit issued may be revoked because of any breach of representation;
- Once a permit is revoked all work shall cease until the permit is reissued or a new permit is issued;
- Any permit issued on this application will not grant any right or privilege to erect any structure or sue any premises described for any purposes or in any manner prohibited by the ordinances, codes, or regulations of the municipality;
- The applicant hereby gives consent to the Floodplain Administrator to enter and inspect activity covered under the provisions of the floodplain regulations;
- If issued, the FHA Development Permit form will be posted in a conspicuous place on the premises in plain view; and,
- If issued, the permit will expire if no work is commenced within one year of issuance.

Owner's Name: _____ Builder/Developer: _____

Address: _____ Address: _____

Phone: _____ Phone: _____

LOCATION OF DEVELOPMENT SITE

1. Location of proposed development site address: _____
2. Legal description: _____

Attach a location map showing the location of the development site relative to adjacent sites. A location map may be a copy of the tax or plat map, including scale, showing the parcel where development activity will occur.

DESCRIPTION OF WORK

3a. Kind of development proposed (check all that apply):

- | | |
|--|--|
| <input type="checkbox"/> Residential structure | <input type="checkbox"/> Non-residential structure |
| <input type="checkbox"/> New structure | <input type="checkbox"/> New structure |
| <input type="checkbox"/> Addition to structure | <input type="checkbox"/> Addition to structure |
| <input type="checkbox"/> Renovations/repairs/maintenance | <input type="checkbox"/> Renovations/repairs/maintenance |
| <input type="checkbox"/> Manufactured home installation | |
|
 | |
| <input type="checkbox"/> Accessory structure: Dimensions: _____ | |
| <input type="checkbox"/> Filling or grading | <input type="checkbox"/> Dredging or excavation or mining |
| <input type="checkbox"/> Materials/equipment storage: Describe type _____ | |
| <input type="checkbox"/> Watercourse alteration (any change that occurs within the banks of a watercourse) | |
| <input type="checkbox"/> Water supply / sewage disposal | <input type="checkbox"/> Bridge or culvert placement / replacement |
| <input type="checkbox"/> Subdivision greater than 50 lots or 5 acres | <input type="checkbox"/> Other development greater than 5 acres |
| <input type="checkbox"/> Other: _____ | |

Additional activity description: _____

3b. If the proposed construction is an addition, renovation, repair or maintenance to an existing structure, indicate the cost of proposed construction \$ _____. What is the estimated market value of the existing structure \$ _____?

NOTES AND ADDITIONAL SUBMITTAL REQUIREMENTS:

- In addition to completion of this form the applicant agrees to submit any additional information required by the floodplain administrator in order to determine that the proposed development is compliant with the local and federal flood damage prevention criteria of the National Flood Insurance Program. Site plans for all development proposals must:
 - Be drawn to scale with north arrow.
 - Show property boundaries, floodway, and floodplain lines.
 - Show dimensions of the lot.
 - Show dimensions and location of existing and/or proposed development on the site.
 - Show areas to be cut and filled.
- Applications for residential and non-residential structures must also include:
 - The proposed lowest floor elevation based on the datum used on the effective Flood Insurance Rate Map and base flood elevation for the site.
 - Identification of whether the structure has a basement or enclosure below the lowest floor, and if it contains a basement or enclosure, detailed drawings showing foundation openings to allow passage of floodwaters.
 - Description of how building utilities will be protected from flood waters including drawings showing locations of such utilities.
 - Detailed description of anchoring system for all mobile and manufactured homes.
 - Description of construction materials that will be used below the flood protection elevation.
- An existing structure must comply with the flood protection standards if it is substantially improved (an improvement equal to or greater than 50% of the market value of the structure). The "substantial improvement" definition applies to existing structures only and that once a structure meets the definition of "new construction" any further improvements to that structure must meet "new construction" requirements. For floodplain management purposes "new construction" means structures for which "start of construction" began on or after the effective date of the initial Flood Insurance Rate Map issued by FEMA for the community.
- Any Pre-FIRM structure within the FHA that has sustained damage from any source (flood, fire, etc...) must be evaluated to determine if the structure is "substantially damaged" (damaged to 50% or more of the market value of the structure). If the structure is "substantially damaged, the structure must be brought into compliance with the flood protection standards.
- For subdivision proposals greater than 5 acres or 50 lots, or large-scale developments greater than 5 acres, a hydrologic and hydraulic analysis must be conducted to determine base flood elevations in flood hazard areas where no base flood elevations are provided.
- A Conditional Letter of Map Revision (CLOMR) must be obtained for proposed projects that would result in more than a 1.0 foot increase in BFE on a watercourse that has been studied through detailed hydrologic and hydraulic analyses where BFEs have been specified, but no floodway has been designated **OR** when a project proposed (totally or partially within the floodway) along a watercourse for which detailed analyses have been conducted and BFEs and a floodway have been designated would result in any (greater than 0.0 foot) increase in the BFE.
- Applications for non-residential structures proposed to be floodproofed must have a completed FEMA floodproofing certification form attached (can only be completed by a Registered Professional Engineer or Architect).
- All development proposals determined to be located in a floodway must be accompanied by a hydrologic and hydraulic analysis showing impacts on of the development on flood heights (can only be completed by a Registered Professional Engineer).
- Development proposals that are considered alterations of a watercourse must be accompanied by an analysis showing that the flood carrying capacity of the watercourse has not been reduced.

I AGREE THAT ALL STATEMENTS IN AND ATTACHMENTS TO THIS APPLICATION ARE A TRUE DESCRIPTION OF THE EXISTING PROPERTY AND THE PROPOSED DEVELOPMENT ACTIVITY. I UNDERSTAND THE DEVELOPMENT REQUIREMENTS FOR SPECIAL FLOOD HAZARD AREA ACTIVITIES PER THE APPROPRIATE ORDINANCE OR RESOLUTION AND AGREE TO ABIDE THERETO. I UNDERSTAND IT IS MY RESPONSIBILITY TO OBTAIN ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL PERMITS.

Applicant's Signature: _____

Date: ____/____/____

ENGINEERING "NO-RISE" CERTIFICATION

This is to certify that I am a duly qualified engineer licensed to practice in the State of Ohio. It is to further certify that the attached technical data supports the fact that

proposed development: _____ in the floodway will
(Name of Development)

not increase the Base Flood Elevations (100-year flood), floodway elevations and the floodway widths on _____ at published sections in
(Name of Stream)

the Flood Insurance Study for _____, dated _____
(Name of Community)

and will not increase the Base Flood Elevations (100-year flood), floodway elevations, and floodway widths at unpublished cross-sections in the vicinity of the proposed development.

Date _____

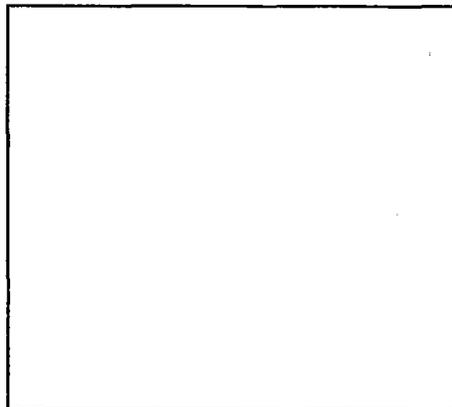
Signature _____

Phone Number _____ **EMAIL** _____

Representing _____

Address _____

City _____ **State** _____ **Zip Code** _____



CERTIFYING SEAL OR STAMP

**FLOOD DAMAGE REDUCTION
RESOLUTION
GREENE COUNTY, OHIO**

SECTION 101.01: GENERAL PROVISIONS

101.01.1 Statutory Authorization

This resolution is adopted pursuant to authorization contained in Sections 307.37 and 307.85 of the Ohio Revised Code. This resolution adopts regulations for areas of special flood hazard that are necessary for participation in the National Flood Insurance Program. Therefore, the Board of County Commissioners of Greene County, State of Ohio does ordain as follows:

101.01.2 Findings of Fact

Greene County has special flood hazard areas that are subject to periodic inundation which may result in loss of life and property, health and safety hazards, disruption of commerce and governmental services, extraordinary public expenditures for flood protection and relief, and impairment of the tax base. Additionally, structures that are inadequately elevated, floodproofed, or otherwise protected from flood damage also contribute to the flood loss. In order to minimize the threat of such damages and to achieve the purposes hereinafter set forth, these regulations are adopted.

101.01.3 Statement of Purpose

It is the purpose of these regulations to promote the public health, safety and general welfare, and to:

- A. Protect human life and health;
- B. Minimize expenditure of public money for costly flood control projects;
- C. Minimize the need for rescue and relief efforts associated with flooding and generally undertaken at the expense of the general public;
- D. Minimize prolonged business interruptions;
- E. Minimize damage to public facilities and utilities such as water and gas mains, electric, telephone and sewer lines, streets and bridges located in areas of special flood hazard;
- F. Help maintain a stable tax base by providing for the proper use and development of areas of special flood hazard so as to protect property and minimize future flood blight areas;
- G. Ensure that those who occupy the areas of special flood hazard assume responsibility for their actions;
- H. Minimize the impact of development on adjacent properties within and near flood prone areas;
- I. Ensure that the flood storage and conveyance functions of the floodplain are maintained;

Continuation of Page 1.

- J. Minimize the impact of development on the natural, beneficial values of the floodplain;
- K. Prevent floodplain uses that are either hazardous or environmentally incompatible; and
- L. Meet community participation requirements of the National Flood Insurance Program.

101.01.4 Methods of Reducing Flood Loss

In order to accomplish its purposes, these regulations include methods and provisions for:

- A. Restricting or prohibiting uses which are dangerous to health, safety, and property due to water hazards, or which result in damaging increases in flood heights or velocities;
- B. Requiring that uses vulnerable to floods, including facilities which serve such uses, be protected against flood damage at the time of initial construction;
- C. Controlling the alteration of natural floodplains, stream channels, and natural protective barriers, which help accommodate or channel flood waters;
- D. Controlling filling, grading, dredging, excavating, and other development which may increase flood damage; and,
- E. Preventing or regulating the construction of flood barriers which will unnaturally divert flood waters or which may increase flood hazards in other areas.

101.01.5 Lands to Which These Regulations Apply

These regulations shall apply to all areas of special flood hazard within the jurisdiction of the Greene County as identified in Section 101.01.6, including any additional areas of special flood hazard annexed by Greene County.

101.01.6 Basis for Establishing the Areas of Special Flood Hazard

For the purposes of these regulations, the following studies and / or maps are adopted:

- A. "Flood Insurance Study Greene County, Ohio (Unincorporated Areas)" and "Flood Insurance Rate Map Greene County, Ohio (Unincorporated Areas)" both effective August 18, 1992.
- B. Other studies and / or maps which may be relied upon for establishment of the flood protection elevation, delineation of the 100-year floodplain, floodways or delineation of other areas of special flood hazard.
- C. Any hydrologic and hydraulic engineering analysis authored by a registered Professional Engineer in the State of Ohio which has been approved by the Greene County as required by Section 101.04.3 Subdivisions and Large Developments.

Continuation of Page 2.

D. Any revisions to the aforementioned maps and / or studies are hereby adopted by reference and declared to be a part of these regulations. Such maps and/or studies are on file at the Greene County Building Regulation, 667 Dayton-Xenia Road, Xenia, Ohio 45385.

101.01.7 Abrogation and Greater Restrictions

These regulations are not intended to repeal any existing resolutions including subdivision regulations, zoning or building codes. In the event of a conflict between these regulations and any other resolution, the more restrictive shall be followed. These regulations shall not impair any deed restriction covenant or easement but the land subject to such interests shall also be governed by the regulations.

101.01.8 Interpretation

In the interpretation and application of these regulations, all provisions shall be:

- A. Considered as minimum requirements;
- B. Liberally construed in favor of the governing body; and,
- C. Deemed neither to limit nor repeal any other powers granted under state statutes.
- D. Where a provision of these regulations may be in conflict with a state or Federal law, such state or Federal law shall take precedence over these regulations.

101.01.9 Warning and Disclaimer of Liability

The degree of flood protection required by these regulations is considered reasonable for regulatory purposes and is based on scientific and engineering considerations. Larger floods can and will occur on rare occasions. Flood heights may be increased by man-made or natural causes. These regulations do not imply that land outside the areas of special flood hazard or uses permitted within such areas will be free from flooding or flood damage. These regulations shall not create liability on the part of the Greene County, any officer or employee thereof, or the Federal Emergency Management Agency, for any flood damage that results from reliance on these regulations or any administrative decision lawfully made thereunder.

101.01.10 Severability

Should any section or provision of these regulations be declared by the courts to be unconstitutional or invalid, such decision shall not affect the validity of the regulations as a whole, or any part thereof other than the part so declared to be unconstitutional or invalid.

SECTION 101.02: DEFINITIONS

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

Accessory Structure

A structure on the same lot with, and of a nature customarily incidental and subordinate to, the principal structure.

Appeal

A request for review of the floodplain administrator's interpretation of any provision of these regulations or a request for a variance.

Base Flood

The flood having a one percent chance of being equaled or exceeded in any given year. The base flood may also be referred to as the 1% chance annual flood or one-hundred (100) year flood.

Base (100-Year) Flood Elevation (BFE)

The water surface elevation of the base flood in relation to a specified datum, usually the National Geodetic Vertical Datum of 1929 or the North American Vertical Datum of 1988, and usually expressed in Feet Mean Sea Level (MSL). In Zone AO areas, the base flood elevation is the natural grade elevation plus the depth number (from 1 to 3 feet).

Basement

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

Building Official

The State Certified Building Officer charged with the administration and enforcement of these regulations, or regularly authorized deputy or deputies.

Critical Feature

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

Development

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

Enclosure Below the Lowest Floor

See "Lowest Floor."

Equal Degree of Encroachment

A standard applied in determining encroachment limits such that the floodplain lands on both sides of a river, stream, or other watercourse are capable of conveying a proportionate share of flood discharge considering the effects of encroachment on the hydraulic efficiency of the floodplain along both sides of the river, stream, or other watercourse for a significant reach.

Executive Order 11988 (Floodplain Management)

Issued by President Carter in 1977, this order requires that no federally assisted activities be conducted in or have the potential to affect identified special flood hazard areas, unless there is no practicable alternative.

Federal Emergency Management Agency (FEMA)

The agency with the overall responsibility for administering the National Flood Insurance Program.

Fill

A deposit of earth material placed by artificial means.

Flood or Flooding

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

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

Flood Hazard Boundary Map (FHBM)

Usually the initial map, produced by the Federal Emergency Management Agency, or U.S. Department of Housing and Urban Development, for a community depicting approximate special flood hazard areas.

Flood Insurance Rate Map (FIRM)

An official map on which the Federal Emergency Management Agency or the U.S. Department of Housing and Urban Development has delineated the areas of special flood hazard.

Flood Insurance Rate Zones

Zone designations on FHBMs and FIRMs that indicate the magnitude of the flood hazard in specific areas of a community. Following are the zone definitions:

Zone A:

Special flood hazard areas inundated by the 100-year flood; base flood elevations are not determined.

Zones A1-30 and Zone AE:

Continuation of Page 5.

Special flood hazard areas inundated by the 100-year flood; base flood elevations are determined.

Zone AO:

Special flood hazard areas inundated by the 100-year flood; with flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths are determined.

Zone AH:

Special flood hazard areas inundated by the 100-year flood; flood depths of 1 to 3 feet (usually areas of ponding); base flood elevations are determined.

Zone A99:

Special flood hazard areas inundated by the 100-year flood to be protected from the 100-year flood by a Federal flood protection system under construction; no base flood elevations are determined.

Zone B and Zone X (shaded):

Areas of 500-year flood; areas subject to the 100-year flood with average depths of less than 1 foot or with contributing drainage area less than 1 square mile; and areas protected by levees from the base flood.

Zone C and Zone X (unshaded):

Areas determined to be outside the 500-year floodplain.

Flood Insurance Study (FIS)

The official report in which the Federal Emergency Management Agency or the U.S. Department of Housing and Urban Development has provided flood profiles, floodway boundaries (sometimes shown on Flood Boundary and Floodway Maps), and the water surface elevations of the base flood.

Flood Protection Elevation

The Flood Protection Elevation, or FPE, is the base flood elevation plus 2 feet of freeboard. In areas where no base flood elevations exist from any authoritative source, the flood protection elevation can be historical flood elevations, or base flood elevations determined and/or approved by the floodplain administrator.

Floodway

A floodway is the channel of a river or other watercourse and the adjacent land areas that have been reserved in order to pass the base flood discharge. A floodway is typically determined through a hydraulic and hydrologic engineering analysis such that the cumulative increase in the water surface elevation of the base flood discharge is no more than a designated height. In no case shall the designated height be more than one foot at any point within the community.

The floodway is an extremely hazardous area, and is usually characterized by any of the following: Moderate to high velocity flood waters, high potential for debris and projectile impacts, and moderate to high erosion forces.

Freeboard

A factor of safety usually expressed in feet above a flood level for the purposes of floodplain management. Freeboard tends to compensate for the many unknown factors that could contribute to flood heights greater than the height calculated for a selected size flood and floodway conditions, such as wave action, obstructed bridge openings, debris and ice jams, and the hydrologic effect of urbanization in a watershed.

Historic structure

Any structure that is:

1. Listed individually in the National Register of Historic Places (a listing maintained by the U.S. Department of Interior) or preliminarily determined by the Secretary of the Interior as meeting the requirements for individual listings on the National Register;
2. 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; or
3. Individually listed on the State of Ohio's inventory of historic places maintained by the Ohio Historic Preservation Office.

Hydrologic and Hydraulic Engineering Analysis

An analysis performed by a professional engineer, registered in the State of Ohio, in accordance with standard engineering practices as accepted by FEMA, used to determine flood elevations and/or floodway boundaries.

Letter of Map Change (LOMC)

A Letter of Map Change is an official FEMA determination, by letter, to amend or revise effective Flood Insurance Rate Maps, Flood Boundary and Floodway Maps, and Flood Insurance Studies. LOMC's are broken down into the following categories:

Letter of Map Amendment (LOMA)

A revision based on technical data showing that a property was incorrectly included in a designated special flood hazard area. A LOMA amends the current effective Flood Insurance Rate Map and establishes that a specific property is not located in a special flood hazard area.

Letter of Map Revision (LOMR)

A revision based on technical data that, usually due to manmade changes, shows changes to flood zones, flood elevations, floodplain and floodway delineations, and planimetric features. One common type of LOMR, a LOMR-F, is a determination concerning whether a structure or parcel has been elevated by fill above the base flood elevation and is, therefore, excluded from the special flood hazard area.

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Conditional Letter of Map Revision (CLOMR)

A formal review and comment by FEMA as to whether a proposed project complies with the minimum National Flood Insurance Program floodplain management criteria. A CLOMR does not amend or revise effective Flood Insurance Rate Maps, Flood Boundary and Floodway Maps, or Flood Insurance Studies.

Lowest floor

The lowest floor of the lowest enclosed area (including basement) of a structure. This definition excludes an “enclosure below the lowest floor” which is an unfinished or flood resistant enclosure usable solely for parking of vehicles, building access or storage, in an area other than a basement area, provided that such enclosure is built in accordance with the applicable design requirements specified in these regulations for enclosures below the lowest floor.

Manufactured home

A structure, transportable in one or more sections, which is built on a permanent chassis and is designed for use with or without a permanent foundation when connected to the required utilities. The term "manufactured home" does not include a "recreational vehicle". For the purposes of these regulations, a manufactured home includes manufactured homes and mobile homes as defined in Chapter 3733 of the Ohio Revised Code.

Manufactured home park

As specified in the Ohio Administrative Code 3701-27-01, a manufactured home park means any tract of land upon which three or more manufactured homes, used for habitation are parked, either free of charge or for revenue purposes, and includes any roadway, building, structure, vehicle, or enclosure used or intended for use as part of the facilities of the park. A tract of land that is subdivided and the individual lots are not for rent or rented, but are for sale or sold for the purpose of installation of manufactured homes on the lots, is not a manufactured home park, even though three or more manufactured homes are parked thereon, if the roadways are dedicated to the local government authority.

National Flood Insurance Program (NFIP)

The NFIP is a Federal program enabling property owners in participating communities to purchase insurance protection against losses from flooding. This insurance is designed to provide an insurance alternative to disaster assistance to meet the escalating costs of repairing damage to buildings and their contents caused by floods. Participation in the NFIP is based on an agreement between local communities and the Federal government that states if a community will adopt and enforce floodplain management regulations to reduce future flood risks to all development in special flood hazard areas, the Federal government will make flood insurance available within the community as a financial protection against flood loss.

New construction

Structures for which the "start of construction" commenced on or after the initial effective date of the Greene County Flood Insurance Rate Map, August 18, 1992, and includes any subsequent improvements to such structures.

Person

Includes any individual or group of individuals, corporation, partnership, association, or any other entity, including state and local governments and agencies. An agency is further defined in the Ohio Revised Code Section 111.15 as any governmental entity of the state and includes, but is not limited to, any board, department, division, commission, bureau, society, council, institution, state college or university, community college district, technical college district, or state community college. "Agency" does not include the general assembly, the controlling board, the adjutant general's department, or any court.

Program Deficiency

A defect in a community's floodplain management regulations or administrative procedures that impairs effective implementation of those floodplain management regulations.

Reach

The hydraulic engineering term describing longitudinal segments of a river, stream, or other watercourse.

Recreational vehicle

A vehicle which is:

1. Built on a single chassis.
2. 400 square feet or less when measured at the largest horizontal projection.
3. Designed to be self-propelled or permanently towable by a light duty truck.
4. Designed primarily not for use as a permanent dwelling but as temporary living quarters for recreational, camping, travel, or seasonal use.

Registered Professional Architect

A person registered to engage in the practice of architecture under the provisions of sections 4703.01 to 4703.19 of the Revised Code.

Registered Professional Engineer

A person registered as a professional engineer under Chapter 4733 of the Revised Code.

Registered Professional Surveyor

A person registered as a professional surveyor under Chapter 4733 of the Revised Code.

Special Flood Hazard Area

Also known as “Areas of Special Flood Hazard”, it is the land in the floodplain subject to a one percent or greater chance of flooding in any given year. Special flood hazard areas are designated by the Federal Emergency Management Agency on Flood Insurance Rate Maps, Flood Insurance Studies, Flood Boundary and Floodway Maps and Flood Hazard Boundary Maps as Zones A, AE, AH, AO, A1-30, and A99. Special flood hazard areas may also refer to areas that are flood prone and designated from other federal state or local sources of data including but not limited to historical flood information reflecting high water marks, previous flood inundation areas, and flood prone soils associated with a watercourse.

Start of construction

The date the building 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 of permanent construction of a structure on a site, such as the pouring of slab or footings, the installation of piles, the construction of columns, or any work beyond the stage of excavation; or the placement of a manufactured home on a foundation. Permanent construction does not include land preparation, such as clearing, grading and filling; nor does it include the installation of streets and/or walkways; nor does it include excavation for a basement, footings, piers, or foundations or the erection of temporary forms; nor does it include the installation on the property of accessory buildings, such as garages or sheds not occupied as dwelling units or not part of the main structure. For a substantial improvement, the actual start of construction means the first alteration of any wall, ceiling, floor, or other structural part of a building, whether or not that alteration affects the external dimensions of a building.

Structure

Walled and roofed building, manufactured home or gas or liquid storage tank that are principally above ground.

Substantial Damage

Damage of any origin sustained by a structure whereby the cost of restoring the structure to its before damaged condition would equal or exceed 50 percent of the market value of the structure before the damage occurred. Substantial damage also means flood related damage sustained by a structure on two separate occasions during a ten (10) year period for which the cost of repairs exceed 35 percent of the market value of the structure before the damage occurred.

Substantial Improvement

Any reconstruction, rehabilitation, addition, or other improvement of a structure, the cost of which equals or exceeds 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. The term does not, however, include:

1. Any improvement to a structure which is considered "new construction,"
2. 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 prior to the application for a development permit by the local code enforcement official and which are the minimum necessary to assure safe living conditions; or
3. Any alteration of a "historic structure," provided that the alteration will not preclude the structure's continued designation as a "historic structure".

Variance

A grant of relief from the standards of these regulations consistent with the variance conditions herein.

Violation

The failure of a structure or other development to be fully compliant with these regulations.

SECTION 101.03: ADMINISTRATION

101.03.1 Designation of the Floodplain Administrator

The Building Officer is hereby appointed to administer and implement these regulations and is referred to herein as the Floodplain Administrator.

101.03.2 Duties and Responsibilities of the Floodplain Administrator

The duties and responsibilities of the Floodplain Administrator shall include but are not limited to:

- A. Evaluate applications for permits to develop in special flood hazard areas.
- B. Interpret floodplain boundaries and provide flood hazard and flood protection elevation information.
- C. Issue permits to develop in special flood hazard areas when the provisions of these regulations have been met, or refuse to issue the same in the event of noncompliance.
- D. Inspect buildings and lands to determine whether any violations of these regulations have been committed.

- E. Make and permanently keep all records for public inspection necessary for the administration of these regulations including Flood Insurance Rate Maps, Letters of Map Amendment and Revision, records of issuance and denial of permits to develop in special flood hazard areas, determinations of whether development is in or out of special flood hazard areas for the purpose of issuing floodplain development permits, elevation certificates, variances, and records of enforcement actions taken for violations of these regulations.
- F. Enforce the provisions of these regulations.
- G. Provide information, testimony, or other evidence as needed during variance hearings.
- H. Coordinate map maintenance activities and FEMA follow-up.
- I. Conduct substantial damage determinations to determine whether existing structures, damaged from any source and in special flood hazard areas identified by FEMA, must meet the development standards of these regulations.

101.03.3 Floodplain Development Permits

It shall be unlawful for any person to begin construction or other development activity including but not limited to filling; grading; construction; alteration, remodeling, or expanding any structure; or alteration of any watercourse wholly within, partially within or in contact with any identified special flood hazard area, as established in Section 101.01.6, until a floodplain development permit is obtained from the Floodplain Administrator. Such floodplain development permit shall show that the proposed development activity is in conformity with the provisions of these regulations. No such permit shall be issued by the Floodplain Administrator until the requirements of these regulations have been met.

101.03.4 Application Required

An application for a floodplain development permit shall be required for all development activities located wholly within, partially within, or in contact with an identified special flood hazard area. Such application shall be made by the owner of the property or his/her authorized agent, herein referred to as the applicant, prior to the actual commencement of such construction on a form furnished for that purpose. Where it is unclear whether a development site is in a special flood hazard area, the Floodplain Administrator may require an application for a floodplain development permit to determine the development's location. Such applications shall include, but not be limited to:

- A. Site plans drawn to scale showing the nature, location, dimensions, and topography of the area in question; the location of existing or proposed structures, fill, storage of materials, drainage facilities, and the location of the foregoing.
- B. Elevation of the existing, natural ground where structures are proposed.
- C. Elevation of the lowest floor, including basement, of all proposed structures.

- D. Such other material and information as may be requested by the Floodplain Administrator to determine conformance with, and provide enforcement of these regulations.
- E. Technical analyses conducted by the appropriate design professional registered in the State of Ohio and submitted with an application for a floodplain development permit when applicable:
 - 1. Floodproofing certification for non-residential floodproofed structure as required in Section 101.04.5.
 - 2. Certification that fully enclosed areas below the lowest floor of a structure not meeting the design requirements of Section 101.04.4(E) are designed to automatically equalize hydrostatic flood forces.
 - 3. Description of any watercourse alteration or relocation that the flood carrying capacity of the watercourse will not be diminished, and maintenance assurances as required in Section 101.04.9(C).
 - 4. A hydrologic and hydraulic analysis demonstrating that the cumulative effect of proposed development, when combined with all other existing and anticipated development will not increase the water surface elevation of the base flood by more than one foot in special flood hazard areas where the Federal Emergency Management Agency has provided base flood elevations but no floodway as required by Section 101.04.9(B).
 - 5. A hydrologic and hydraulic engineering analysis showing impact of any development on flood heights in an identified floodway as required by Section 101.04.9(A).
 - 6. Generation of base flood elevation(s) for subdivision and large scale developments as required by Section 101.04.3.

101.03.5 Review and Approval of a Floodplain Development Permit Application

A. Review

- 1. After receipt of a complete application, the Floodplain Administrator shall review the application to ensure that the standards of these regulations have been met. No floodplain development permit application shall be reviewed until all information required in Section 101.03.4 has been received by the Floodplain Administrator.

2. The Floodplain Administrator shall review all floodplain development permit applications to assure that all necessary permits have been received from those federal, state or local governmental agencies from which prior approval is required. The applicant shall be responsible for obtaining such permits as required including permits issued by the U.S. Army Corps of Engineers under Section 10 of the Rivers and Harbors Act and Section 404 of the Clean Water Act, and the Ohio Environmental Protection Agency under Section 401 of the Clean Water Act.

B. Approval

Within thirty (30) days after the receipt of a complete application, the Floodplain Administrator shall either approve or disapprove the application. If an application is approved, a floodplain development permit shall be issued. All floodplain development permits shall be conditional upon the commencement of work within one (1) year. A floodplain development permit shall expire one (1) year after issuance unless the permitted activity has been substantially begun and is thereafter pursued to completion.

101.03.6 Inspections

The Floodplain Administrator shall make periodic inspections at appropriate times throughout the period of construction in order to monitor compliance with permit conditions.

101.03.7 Post-Construction Certifications Required

The following as-built certifications are required after a floodplain development permit has been issued:

- A. For new or substantially improved residential structures, or nonresidential structures that have been elevated, the applicant shall have a *Federal Emergency Management Agency Elevation Certificate* completed by a registered surveyor to record as-built elevation data. For elevated structures in Zone A and Zone AO areas without a base flood elevation, the elevation certificate may be completed by the property owner or owner's representative.
- B. For all development activities subject to the standards of Section 101.03.10(A), a Letter of Map Revision.

101.03.8 Revoking a Floodplain Development Permit

A floodplain development permit shall be revocable, if among other things, the actual development activity does not conform to the terms of the application and permit granted thereon. In the event of the revocation of a permit, an appeal may be taken to the Variance Board in accordance with Section 101.05 of these regulations.

101.03.9 Exemption from Filing a Development Permit

An application for a floodplain development permit shall not be required for:

- A. Maintenance work such as roofing, painting, and basement sealing, or for small nonstructural development activities (except for filling and grading) valued at less than \$5,000.
- B. Development activities in an existing or proposed manufactured home park that are under the authority of the Ohio Department of Health and subject to the flood damage reduction provisions of the Ohio Administrative Code Section 3701.
- C. Major utility facilities permitted by the Ohio Power Siting Board under Section 4906 of the Ohio Revised Code.
- D. Hazardous waste disposal facilities permitted by the Hazardous Waste Siting Board under Section 3734 of the Ohio Revised Code.
- E. Development activities undertaken by a federal agency and which are subject to Federal Executive Order 11988 – Floodplain Management.

Any proposed action exempt from filing for a floodplain development permit is also exempt from the standards of these regulations.

101.03.10 Map Maintenance Activities

To meet National Flood Insurance Program minimum requirements to have flood data reviewed and approved by FEMA, and to ensure that Greene County's flood maps, studies and other data identified in Section 101.01.6 accurately represent flooding conditions so appropriate floodplain management criteria are based on current data, the following map maintenance activities are identified:

A. Requirement to Submit New Technical Data

1. For all development proposals that impact floodway delineations or base flood elevations, the community shall ensure that technical data reflecting such changes be submitted to FEMA within six months of the date such information becomes available. These development proposals include:
 - a. Floodway encroachments that increase or decrease base flood elevations or alter floodway boundaries;
 - b. Fill sites to be used for the placement of proposed structures where the applicant desires to remove the site from the special flood hazard area;
 - c. Alteration of watercourses that result in a relocation or elimination of the special flood hazard area, including the placement of culverts; and
 - d. Subdivision or large scale development proposals requiring the establishment of base flood elevations in accordance with Section 101.04.3.
2. It is the responsibility of the applicant to have technical data, required in accordance with Section 101.03.10(A), prepared in a format required for a Conditional Letter of Map Revision or Letter of Map Revision, and submitted to FEMA. Submittal and processing fees for these map revisions shall be the responsibility of the applicant.

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3. The Floodplain Administrator shall require a Conditional Letter of Map Revision prior to the issuance of a floodplain development permit for:
 - a. Proposed floodway encroachments that increase the base flood elevation; and
 - b. Proposed development which increases the base flood elevation by more than one foot in areas where FEMA has provided base flood elevations but no floodway.
4. Floodplain development permits issued by the Floodplain Administrator shall be conditioned upon the applicant obtaining a Letter of Map Revision from FEMA for any development proposal subject to Section 101.03.10(A)(1).

B. Right to Submit New Technical Data

The Floodplain Administrator may request changes to any of the information shown on an effective map that does not impact floodplain or floodway delineations or base flood elevations, such as labeling or planimetric details. Such a submission shall include appropriate supporting documentation made in writing by the President of **The Board** of County Commissioners of Greene County, and may be submitted at any time.

C. Annexation / Detachment

Upon occurrence, the Floodplain Administrator shall notify FEMA in writing whenever the boundaries of Greene County have been modified by annexation or the community has assumed authority over an area, or no longer has authority to adopt and enforce floodplain management regulations for a particular area. In order that Greene County's Flood Insurance Rate Map accurately represent the Greene County boundaries, include within such notification a copy of a map of Greene County suitable for reproduction, clearly showing the new corporate limits or the new area for which Greene County has assumed or relinquished floodplain management regulatory authority.

101.03.11 Data Use and Flood Map Interpretation

The following guidelines shall apply to the use and interpretation of maps and other data showing areas of special flood hazard:

- A. In areas where FEMA has not identified special flood hazard areas, or in FEMA identified special flood hazard areas where base flood elevation and floodway data have not been identified, the Floodplain Administrator shall review and reasonably utilize any other flood hazard data available from a federal, state, or other source.
- B. Base flood elevations and floodway boundaries produced on FEMA flood maps and studies shall take precedence over base flood elevations and floodway boundaries by any other source that reflect a reduced floodway width and/or lower base flood elevations. Other sources of data, showing increased base flood elevations and/or

- larger floodway areas than are shown on FEMA flood maps and studies, shall be reasonably used by the Floodplain Administrator.
- C. When Preliminary Flood Insurance Rate Maps and / or Flood Insurance Study have been provided by FEMA:
1. Upon the issuance of a Letter of Final Determination by the FEMA, the preliminary flood hazard data shall be used and replace all previously existing flood hazard data provided from FEMA for the purposes of administering these regulations.
 2. Prior to the issuance of a Letter of Final Determination by FEMA, the use of preliminary flood hazard data shall only be required where no base flood elevations and /or floodway areas exist or where the preliminary base flood elevations or floodway area exceed the base flood elevations and/or floodway widths in existing flood hazard data provided from FEMA. Such preliminary data may be subject to change and / or appeal to FEMA.
- D. The Floodplain Administrator shall make interpretations, where needed, as to the exact location of the flood boundaries and areas of special flood hazard. A person contesting the determination of the location of the boundary shall be given a reasonable opportunity to appeal the interpretation as provided in Section 101.05, Appeals and Variances.
- E. Where a map boundary showing an area of special flood hazard and field elevations disagree, the base flood elevations or flood protection elevations (as found on an elevation profile, floodway data table, established high water marks, etc.) shall prevail.

101.03.12 Substantial Damage Determinations

Damages to structures may result from a variety of causes including flood, tornado, wind, heavy snow, fire, etc. After such a damage event, the Floodplain Administrator shall:

- A. Determine whether damaged structures are located in special flood hazard areas;
- B. Conduct substantial damage determinations for damaged structures located in special flood hazard areas; and
- C. Make reasonable attempt to notify owners of substantially damaged structures of the need to obtain a floodplain development permit prior to repair, rehabilitation, or reconstruction.

Additionally, the Floodplain Administrator may implement other measures to assist with the substantial damage determination and subsequent repair process. These measures include issuing press releases, public service announcements, and other public information materials related to the floodplain development permits and repair of damaged structures; coordinating with other federal, state, and local agencies to assist with substantial damage determinations; providing owners of damaged structures

materials and other information related to the proper repair of damaged structures in special flood hazard areas; and assist owners of substantially damaged structures with Increased Cost of Compliance insurance claims.

SECTION 101.04: USE AND DEVELOPMENT STANDARDS FOR FLOOD HAZARD REDUCTION

The following use and development standards apply to development wholly within, partially within, or in contact with any special flood hazard area as established in Section 101.01.6 or 101.03.11(A):

101.04.1 Use Regulations

A. Permitted Uses

All uses not otherwise prohibited in this section or any other applicable land use regulation adopted by Greene County are allowed provided they meet the provisions of these regulations.

B. Prohibited Uses

1. Private water supply systems in all special flood hazard areas identified by FEMA, permitted under Section 3701 of the Ohio Revised Code.
2. Infectious waste treatment facilities in all special flood hazard areas, permitted under Section 3734 of the Ohio Revised Code.
3. Storage of hazardous materials within the 100-year flood plain is prohibited.

101.04.2 Water and Wastewater Systems

The following standards apply to all water supply, sanitary sewerage and waste disposal systems not otherwise regulated by the Ohio Revised Code:

- A. All new and replacement water supply systems shall be designed to minimize or eliminate infiltration of flood waters into the systems;
- B. New and replacement sanitary sewerage systems shall be designed to minimize or eliminate infiltration of flood waters into the systems and discharge from the systems into flood waters; and,
- C. On-site waste disposal systems shall be located to avoid impairment to or contamination from them during flooding.

101.04.3 Subdivisions and Large Developments

- A. All subdivision proposals shall be consistent with the need to minimize flood damage and are subject to all applicable standards in these regulations;

- B. All subdivision proposals shall have public utilities and facilities such as sewer, gas, electrical, and water systems located and constructed to minimize flood damage;
- C. All subdivision proposals shall have adequate drainage provided to reduce exposure to flood damage; and
- D. In all areas of special flood hazard where base flood elevation data are not available, the applicant shall provide a hydrologic and hydraulic engineering analysis that generates base flood elevations for all subdivision proposals and other proposed developments containing at least 50 lots or 5 acres, whichever is less.
- E. The applicant shall meet the requirement to submit technical data to FEMA in Section 101.03.10(A)(1)(d) when a hydrologic and hydraulic analysis is completed that generates base flood elevations as required by Section 101.04.3(D).
- F. All plans submitted for subdivisions shall identify the Special Flood Hazard area, the floodway and the base flood elevations.
- G. In subdivisions all lots or parcels shall have a minimum buildable area outside the natural 100 year flood plain. The buildable area shall be large enough to accommodate the primary structure, any accessory structures, sewage disposal systems or water supply wells, if applicable.
- H. All street surfaces within the subdivision shall be located at or above the base flood elevation.

101.04.4 Residential Structures

- A. New construction and substantial improvements shall be anchored to prevent flotation, collapse, or lateral movement of the structure resulting from hydrodynamic and hydrostatic loads, including the effects of buoyancy. Where a structure, including its foundation members, is elevated on fill where the lowest portion of all horizontal structural members supporting floors, including basement, be elevated to or above the base flood elevation, the requirements for anchoring (101.04.4(A)) and construction materials resistant to flood damage (101.04.4(B)) are satisfied.
- B. New construction and substantial improvements shall be constructed with methods and materials resistant to flood damage.
- C. New construction and substantial improvements shall be constructed with electrical, heating, ventilation, plumbing and air conditioning equipment and other service facilities that are designed and/or elevated so as to prevent water from entering or accumulating within the components during conditions of flooding.
- D. New construction and substantial improvement of any residential structure, including manufactured homes, shall have the lowest portion of all horizontal structural members supporting floors, including basement, elevated to or above the flood protection elevation. Where flood protection elevation data are not available, the structure shall have the lowest portion of all horizontal structural members supporting floors, including basement, elevated at least two feet above the highest adjacent natural grade.
- E. New construction and substantial improvements, including manufactured homes, that do not have basements and that have the lowest portion of all horizontal structural

members supporting floors elevated to the flood protection elevation using pilings, columns, posts, or solid foundation perimeter walls with openings sufficient to allow unimpeded movement of flood waters may have an enclosure below the lowest floor provided the enclosure meets the following standards:

1. Be used only for the parking of vehicles, building access, or storage; and
 2. be designed and certified by a registered professional engineer or architect to automatically equalize hydrostatic flood forces on exterior walls by allowing for the entry and exit of floodwaters; or
 3. have a minimum of two openings on different walls having a total net area not less than one square inch for every square foot of enclosed area, and the bottom of all such openings being no higher than one foot above grade. The openings may be equipped with screens, louvers, or other coverings or devices provided that they permit the automatic entry and exit of floodwaters.
- F. Manufactured homes shall be affixed to a permanent foundation and anchored to prevent flotation, collapse or lateral movement of the structure resulting from hydrodynamic and hydrostatic loads, including the effects of buoyancy. Methods of anchoring may include, but are not limited to, use of over-the-top or frame ties to ground anchors.
- G. Repair or rehabilitation of historic structures upon a determination that the proposed repair or rehabilitation will not preclude the structure's continued designation as a historic structure and is the minimum necessary to preserve the historic character and design of the structure, shall be exempt from the development standards of Section 101.04.4.
- H. In AO Zones, new construction and substantial improvement shall have adequate drainage paths around structures on slopes to guide floodwaters around and away from the structure.
- I. All new structures and substantial improvement shall be constructed and placed on the building site so as to offer the minimum obstruction to the flow of flood waters such that:
- a. Whenever possible, the longitudinal axis shall be parallel to the direction of flood flow.
 - b. So far as practicable, placement shall be approximately on the same flood flow lines as those of existing, neighboring, adjoining, and adjacent structures.

101.04.5 Nonresidential Structures

- A. New construction and substantial improvement of any commercial, industrial or other nonresidential structure shall meet the requirements of Section 101.04.4 (A) – (C) and (E) – (G).
- B. New construction and substantial improvement of any commercial, industrial or other non-residential structure shall either have the lowest portion of all horizontal structural members supporting floors, including basement, elevated to or above the

level of the flood protection elevation; or, together with attendant utility and sanitary facilities, shall meet all of the following standards:

1. Be dry floodproofed so that the structure is watertight with walls substantially impermeable to the passage of water to the level of the flood protection elevation;
 2. Have structural components capable of resisting hydrostatic and hydrodynamic loads and effects of buoyancy; and,
 3. Be certified by a registered professional engineer or architect, through the use of a *Federal Emergency Management Agency Floodproofing Certificate*, that the design and methods of construction are in accordance with Section 101.04.5(B)(1) and (2).
 4. All openings below the base flood elevation shall be provided with watertight closures and shall have adequate structural capacity to support all flood loads acting upon the closure surfaces.
 5. All floor and wall penetrations for plumbing, mechanical, and electrical systems shall be made watertight to prevent flood seepage through spaces between the penetration and wall construction materials. Sanitary sewer and storm drainage systems that have openings below the base flood elevation shall be provided with shutoff valves or closure devices to prevent backwater flow during conditions of flooding.
- C. Where flood protection elevation data are not available, the structure shall have the lowest portion of all horizontal structural members supporting floors, including basement, elevated at least two feet above the highest adjacent natural grade.

101.04.6 Accessory Structures

Relief to the elevation or dry floodproofing standards may be granted for accessory structures containing no more than 600 square feet. Such structures must meet the following standards:

- A. They shall not be used for human habitation;
- B. They shall be constructed of flood resistant materials;
- C. They shall be constructed and placed on the lot to offer the minimum resistance to the flow of flood waters;
- D. They shall be firmly anchored to prevent flotation;
- E. Service facilities such as electrical and heating equipment shall be elevated or floodproofed to or above the level of the flood protection elevation; and
- F. They shall meet the opening requirements of Section 101.04.4(E)(3);

101.04.7 Recreational Vehicles

Recreational vehicles must meet at least one of the following standards:

- A. They shall not be located on sites in special flood hazard areas for more than 180 days, or
- B. They must be fully licensed and ready for highway use, or
- C. They must meet all standards of Section 101.04.4.

101.04.8 Above Ground Gas or Liquid Storage Tanks

All above ground gas or liquid storage tanks shall be anchored to prevent flotation or lateral movement resulting from hydrodynamic and hydrostatic loads.

101.04.9 Assurance of Flood Carrying Capacity

Pursuant to the purpose and methods of reducing flood damage stated in these regulations, the following additional standards are adopted to assure that the reduction of the flood carrying capacity of watercourses is minimized:

A. Development in Floodways

- 1. In floodway areas, development shall cause no increase in flood levels during the occurrence of the base flood discharge. Prior to issuance of a floodplain development permit, the applicant must submit a hydrologic and hydraulic analysis, conducted by a registered professional engineer, demonstrating that the proposed development would not result in any increase in the base flood elevation; or
- 2. Development in floodway areas causing increases in the base flood elevation may be permitted provided all of the following are completed by the applicant:
 - a. Meet the requirements to submit technical data in Section 101.03.10(A);
 - b. An evaluation of alternatives which would not result in increased base flood elevations and an explanation why these alternatives are not feasible;
 - c. Certification that no structures are located in areas which would be impacted by the increased base flood elevation;
 - d. Documentation of individual legal notices to all impacted property owners within and outside the community, explaining the impact of the proposed action on their property; and
 - e. Concurrence of the President of **The Board** of County Commissioners of Greene County and the Chief Executive Officer of any other communities impacted by the proposed actions.

B. Development in Riverine Areas with Base Flood Elevations but No Floodways

- 1. In riverine special flood hazard areas identified by FEMA where base flood elevation data are provided but no floodways have been designated, the cumulative effect of any proposed development, when combined with all other existing and anticipated development, shall not increase the base flood elevation more than 1.0 (one) foot at any point. Prior to issuance of a floodplain

development permit, the applicant must submit a hydrologic and hydraulic analysis, conducted by a registered professional engineer, demonstrating that this standard has been met; or,

2. Development in riverine special flood hazard areas identified by FEMA where base flood elevation data are provided but no floodways have been designated causing more than one foot increase in the base flood elevation may be permitted provided all of the following are completed by the applicant:
 - a. An evaluation of alternatives which would result in an increase of one foot or less of the base flood elevation and an explanation why these alternatives are not feasible;
 - b. Section 101.04.9(2)(A), items (a) and (c)-(e).

C. Alterations of a Watercourse

For the purpose of these regulations, a watercourse is altered when any change occurs within its banks. The extent of the banks shall be established by a field determination of the "bankfull stage." The field determination of "bankfull stage" shall be based on methods presented in Chapter 7 of the *USDA Forest Service General Technical Report RM-245, Stream Channel Reference Sites: An Illustrated Guide to Field Technique* or other applicable publication available from a Federal, State, or other authoritative source. For all proposed developments that alter a watercourse, the following standards apply:

1. The bankfull flood carrying capacity of the altered or relocated portion of the watercourse shall not be diminished. Prior to the issuance of a floodplain development permit, the applicant must submit a description of the extent to which any watercourse will be altered or relocated as a result of the proposed development, and certification by a registered professional engineer that the bankfull flood carrying capacity of the watercourse will not be diminished.
2. Adjacent communities, the U.S. Army Corps of Engineers, and the Ohio Department of Natural Resources, Division of Water, must be notified prior to any alteration or relocation of a watercourse. Evidence of such notification must be submitted to the Federal Emergency Management Agency.
3. The applicant shall be responsible for providing the necessary maintenance for the altered or relocated portion of said watercourse so that the flood carrying capacity will not be diminished. The Floodplain Administrator may require the permit holder to enter into an agreement with Greene County specifying the maintenance responsibilities. If an agreement is required, it shall be made a condition of the floodplain development permit.
4. The applicant shall meet the requirements to submit technical data in Section 101.03.10(A)(1)(c) when an alteration of a watercourse results in the relocation or elimination of the special flood hazard area, including the placement of culverts.

101.04.10 Fill

- A. Fill shall be composed of clean granular or earthen material.
- B. Any fill proposed to be deposited shall be shown to have some beneficial purpose and that the amount to be deposited is not greater than is absolutely necessary for that purpose.
- C. The fill shall be shown on a plan giving all dimensions of the fill, the materials of the fill and the method of compaction.
- D. All fill shall be protected from erosion by rip-rap, vegetative cover, bulk headings or other form of erosion protection.
- E. When expected base flood velocities exceed five feet per second, Rip-rap protection shall be provided or acceptable alternative.
- F. When expected, base flood velocities are five feet per second or less. Protection shall be provided by vegetative cover.
- G. Fill supporting structures must be compacted to 95 percent of the maximum density obtainable with the standard proctor test method or acceptable equivalent.
- H. Where structures are to be constructed on fill, the fill shall be no lower than 1.0 (one) foot above the flood protection elevation and shall extend at least 1.0 (one) foot beyond the footprint of the structure.

101.04.11 Floodproofing Methods

Floodproofing measures such as the following shall be designed to be consistent with the base flood elevation for the particular special flood hazard area, flood velocities, durations, rate of rise, hydrostatic and hydrodynamic forces and other factors associated with the base flood. The Building Official shall require the certification of a registered professional engineer or architect that the floodproofing measures are consistent with the base flood elevation and associated flood factors for the particular area. The following floodproofing measures may be required without limitation because of specific enumeration:

- A. Anchorage to resist flotation and lateral movement.
- B. Installation of watertight doors, bulkheads, and shutters or similar methods of construction.
- C. Reinforcement of walls to resist water pressures.
- D. Use of paints, membranes, or mortars to prevent seepage of water through walls.
- E. Addition of mass or weight to structures to resist floatation.
- F. Installation of pumps to lower water levels in structures.
- G. Construction to resist rupture or collapse caused by water pressure or floating debris.
- H. Installation of valves or controls on sanitary and storm drains which will permit the drains to be closed to prevent backup of sewage and storm waters into the buildings or structures.
- I. Location of all electrical equipment, circuits, and installed electrical appliances in a manor which will assure they are not subject to flooding and to provide protection from inundation by the base flood.

- J. Location of any structural storage facilities for chemicals, explosive, buoyant materials, flammable liquids, or other toxic materials which could be hazardous to public health, safety, and welfare in a manner which will assure that the facilities are situated at elevations above the height associated with the base flood elevation or are adequately Floodproofed to prevent floatation of storage containers or damage to storage containers which could result in the escape of toxic materials into floodwaters.

SECTION 101.05: APPEALS AND VARIANCES

101.05.1 Appeals Board Established

The Greene County Commercial Board of Appeals or Greene County Residential Board of Appeals shall serve as the Appeals Board for these regulations. Meetings of the Appeals Board shall be held as needed and shall be held at the call of the Chairperson, or in his absence, the Acting Chairperson. All meetings of the Appeals Board shall be open to the public except that the Board may deliberate in executive sessions as part of quasi-judicial hearings in accordance with law. The Appeals Board shall keep minutes of its proceedings showing the vote of each member upon each question and shall keep records of all official actions. Records of the Appeals Board shall be kept and filed in Greene County Building Regulation, 667 Dayton-Xenia Road, Xenia, Ohio 45385.

101.05.2 Powers and Duties

- A. The Appeals Board shall hear and decide appeals where it is alleged there is an error in any order, requirement, decision or determination made by the Floodplain Administrator in the administration or enforcement of these regulations.
- B. Authorize variances in accordance with Section 101.05.4 of these regulations.

101.05.3 Appeals

Any person affected by any notice and order, or other official action of the Floodplain Administrator may request and shall be granted a hearing on the matter before the Appeals Board provided that such person shall file, within 30 days of the date of such notice and order, or other official action, a brief statement of the grounds for such hearing or for the mitigation of any item appearing on any order of the Floodplain Administrator's decision. Such appeal shall be in writing, signed by the applicant, and be filed with the Floodplain Administrator. Upon receipt of the appeal, the Floodplain Administrator shall transmit said notice and all pertinent information on which the Floodplain Administrator's decision was made to the Appeals Board.

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Upon receipt of the notice of appeal, the Appeals Board shall fix a reasonable time for the appeal, give notice in writing to parties in interest, and decide the appeal within a reasonable time after it is submitted.

101.05.4 Variances

Any person believing that the use and development standards of these regulations would result in unnecessary hardship may file an application for a variance. The Appeals Board shall have the power to authorize, in specific cases, such variances from the standards of these regulations, not inconsistent with Federal regulations, as will not be contrary to the public interest where, owing to special conditions of the lot or parcel, a literal enforcement of the provisions of these regulations would result in unnecessary hardship.

A. Application for a Variance

1. Any owner, or agent thereof, of property for which a variance is sought shall make an application for a variance by filing it with the Floodplain Administrator, who upon receipt of the variance shall transmit it to the Appeals Board.
2. Such application at a minimum shall contain the following information: Name, address, and telephone number of the applicant; legal description of the property; parcel map; description of the existing use; description of the proposed use; location of the floodplain; description of the variance sought; and reason for the variance request. In addition, the appeal of variance application shall be in writing and shall state:
 - a. The section of code in question for which a variance is sought; and
 - b. The solution, material, or method proposed for flood protection; and
 - c. The reasons why the Building Officer is in error or the variance is adequate
3. The applicant may be required to furnish all or part of the following as is deemed necessary by the Building Officer:
 - a. Plans in duplicate to scale showing the nature, location, dimensions and elevation of the lot, existing or proposed structures, fill, storage of materials, floodproofing measures, and the relationship of the above to the special flood hazard area and base flood elevation.
 - b. A typical valley cross section showing the special flood hazard area, elevations of land areas, cross sectional areas to be occupied by proposed development, and bank-full stage as well as base flood elevations.
 - c. Plan (surface view) showing elevations or contours of the ground; pertinent structure, fill, or storage elevations; size, location, and spatial arrangement of all proposed and existing structures on the site; location and elevations of streets, water supply, sanitary facilities; photographs showing existing land uses and vegetation upstream and downstream, soil types, and other pertinent information.
 - d. Profile showing the slope of the bottom of the channel or flow line of the floodway.

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- e. Specifications for building construction and materials for floodproofing, filling, dredging, grading, channel improvement, storage of materials, water supply, and sanitary facilities.

B. Notice for Public Hearing

The Appeals Board shall schedule and hold a public hearing within thirty (30) days after the receipt of an application for a variance from the Floodplain Administrator. Prior to the hearing, a notice of such hearing shall be given in one (1) or more newspapers of general circulation in the community at least ten (10) days before the date of the hearing.

C. Public Hearing

At such hearing the applicant shall present such statements and evidence as the Appeals Board requires. In considering such variance applications, the Appeals Board shall consider and make findings of fact on all evaluations, all relevant factors, standards specified in other sections of these regulations and the following factors:

1. The danger that materials may be swept onto other lands to the injury of others.
2. The danger to life and property due to flooding or erosion damage.
3. The susceptibility of the proposed facility and its contents to flood damage and the effect of such damage on the individual owner.
4. The importance of the services provided by the proposed facility to the community.
5. The availability of alternative locations for the proposed use which are not subject to flooding or erosion damage.
6. The necessity to the facility of a waterfront location, where applicable.
7. The compatibility of the proposed use with existing and anticipated development.
8. The relationship of the proposed use to the comprehensive plan and floodplain management program for that area.
9. The safety of access to the property in times of flood for ordinary and emergency vehicles.
10. The expected heights, velocity, duration, rate of rise, and sediment transport of the flood waters and the effects of wave action, if applicable, expected at the site.
11. The costs of providing governmental services during and after flood conditions, including maintenance and repair of public utilities and facilities such as sewer, gas, electrical, and water systems, and streets and bridges.

Variations shall only be issued upon:

1. A showing of good and sufficient cause.
2. A determination that failure to grant the variance would result in exceptional hardship due to the physical characteristics of the property. Increased cost or

inconvenience of meeting the requirements of these regulations does not constitute an exceptional hardship to the applicant.

3. A determination that the granting of a variance will not result in increased flood heights beyond that which is allowed in these regulations; additional threats to public safety; extraordinary public expense, nuisances, fraud on or victimization of the public, or conflict with existing local laws.
4. A determination that the structure or other development is protected by methods to minimize flood damages.
5. A determination that the variance is the minimum necessary, considering the flood hazard, to afford relief.

Upon consideration of the above factors and the purposes of these regulations, the Appeals Board may attach such conditions to the granting of variances as it deems necessary to further the purposes of these regulations.

D. Other Conditions for Variances

1. Variances shall not be issued within any designated floodway if any increase in flood levels during the base flood discharge would result.
2. Generally, variances may be issued for new construction and substantial improvements to be erected on a lot of one-half acre or less in size contiguous to and surrounded by lots with existing structures constructed below the base flood level, providing items in Section 101.05.4(C)(1) to (11) have been fully considered. As the lot size increases beyond one-half acre, the technical justification required for issuing the variance increases.
3. Any applicant to whom a variance is granted shall be given written notice that the structure will be permitted to be built with a lowest floor elevation below the base flood elevation and the cost of flood insurance will be commensurate with the increased risk resulting from the reduced lowest floor elevation.

101.05.5 Procedure at Hearings

1. All testimony shall be given under oath.
2. A complete record of the proceedings shall be kept, except confidential deliberations of the Board, but including all documents presented and a verbatim record of the testimony of all witnesses.
3. The applicant shall proceed first to present evidence and testimony in support of the appeal or variance.
4. The administrator may present evidence or testimony in opposition to the appeal or variance.
5. All witnesses shall be subject to cross-examination by the adverse party or their counsel.
6. Evidence that is not admitted may be proffered and shall become part of the record for appeal.

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7. The Board shall issue subpoenas upon written request for the attendance of witnesses. A reasonable deposit to cover the cost of issuance and service shall be collected in advance.
8. The Board shall prepare conclusions of fact supporting its decision. The decision may be announced at the conclusion of the hearing and thereafter issued in writing or the decision may be issued in writing within a reasonable time after the hearing.

101.05.6 Appeal to the Court

Those aggrieved by the decision of the Appeals Board may appeal such decision to the Greene County Court of Common Pleas, as provided in Chapter 2506 of the Ohio Revised Code.

SECTION 101.06: ENFORCEMENT

101.06.1 Compliance Required

- A. No structure or land shall hereafter be located, erected, constructed, reconstructed, repaired, extended, converted, enlarged or altered without full compliance with the terms of these regulations and all other applicable regulations which apply to uses within the jurisdiction of these regulations, unless specifically exempted from filing for a development permit as stated in Section 101.03.9.
- B. Failure to obtain a floodplain development permit shall be a violation of these regulations and shall be punishable in accordance with Section 101.06.3.
- C. Floodplain development permits issued on the basis of plans and applications approved by the Floodplain Administrator authorize only the use, and arrangement, set forth in such approved plans and applications or amendments thereto. Use, arrangement, or construction contrary to that authorized shall be deemed a violation of these regulations and punishable in accordance with Section 101.06.3.

101.06.2 Notice of Violation

Whenever the Floodplain Administrator determines that there has been a violation of any provision of these regulations, he shall give notice of such violation to the person responsible therefore and order compliance with these regulations as hereinafter provided. Such notice and order shall:

- A. Be put in writing on an appropriate form;
- B. Include a list of violations, referring to the section or sections of these regulations that have been violated, and order remedial action which, if taken, will effect compliance with the provisions of these regulations;
- C. Specify a reasonable time for performance;
- D. Advise the owner, operator, or occupant of the right to appeal;

- E. Be served on the owner, occupant, or agent in person. However, this notice and order shall be deemed to be properly served upon the owner, occupant, or agent if a copy thereof is sent by registered or certified mail to the person's last known mailing address, residence, or place of business, and/or a copy is posted in a conspicuous place in or on the dwelling affected.

101.06.3 Violations and Penalties

Violation of the provisions of these regulations or failure to comply with any of its requirements shall be deemed to be a strict liability offense, and shall constitute a minor misdemeanor. Any person who violates these regulations or fails to comply with any of its requirements shall upon conviction thereof be fined or imprisoned as provided by the laws of Greene County. In addition, any person who violates these regulations or fails to comply with any of its requirements (including violations of conditions and safeguards established in connection with conditions) shall upon conviction thereof be fined not more than \$150 and in addition, shall pay all costs and expenses involved in the case. Each day such violation continues shall be considered a separate offense. Nothing herein contained shall prevent the Greene County from taking such other lawful action as is necessary to prevent or remedy any violation. Greene County shall prosecute any violation of these regulations in accordance with the penalties stated herein.

SECTION 101.07: ADOPTION

This Resolution shall take effect on the thirty-first day following the date of its adoption.
Resolution [RESOLUTION NUMBER] adopted on [ADOPTION DATE] is hereby repealed.

Adopted by the Board of County Commissioners on this [DAY] day of [MONTH], [YEAR].

Roll Call Vote:

Attest:

CERTIFICATION OF PUBLIC NOTICES (COUNTIES)

In accordance with the Ohio Revised Code, Section 307.37 and 307.39, public hearings were held on the May 9, 2006 and May 18, 2006 at regular meetings of the Board of County Commissioners. Notice of these hearings was published once a week for two weeks immediately preceding the hearings in the Dayton Daily News on April 25, 2006 and May 2, 2006. A notice of adoption and availability was published within ten days after adoption in the [NEWSPAPER NAME] on [DATE OF PUBLICATION].

CERTIFIED BY: _____
(Name, Title)

DATE: _____ |