

**MADISON COUNTY ALABAMA
FLOOD DAMAGE PREVENTION ORDINANCE**

**ARTICLE 1. STATUTORY AUTHORIZATION, FINDINGS OF FACT, PURPOSE
AND OBJECTIVES**

SECTION A. STATUTORY AUTHORIZATION

The Legislature of the State of Alabama has in Title 11, Chapter 19, Sections 1-24, authorized local government units to adopt regulations designed to promote the public health, safety, and general welfare of its citizenry. Therefore, the Madison County Commission as the governing body of the unincorporated area of Madison County, Alabama, does ordain as follows:

SECTION B. FINDINGS OF FACT

- (1) The special flood hazard areas of the unincorporated area of Madison County, Alabama, as shown on the Federal Emergency Management Agency Flood Insurance Rate Maps, community number 010151 are subject to periodic inundation which results in loss of life and property, health and safety hazards, disruption of commerce and governmental services, extraordinary public expenditures for flood relief and protection, and impairment of the tax base, all of which adversely affect the public health, safety and general welfare.
- (2) These flood losses are caused by the occupancy in flood hazard areas of uses vulnerable to floods, which are inadequately elevated, flood-proofed, or otherwise unprotected from flood damages, and by the cumulative effect of obstructions in floodplains causing increases in flood heights and velocities.

SECTION C. STATEMENT OF PURPOSE

It is the purpose of this ordinance to promote the public health, safety and general welfare and to minimize public and private losses due to flood conditions in areas of a Special Flood Hazard for the unincorporated area of Madison County, Alabama.

ARTICLE 2. DEFINITIONS

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

"Addition (to an existing building)" means any walled and roofed expansion to the perimeter of a building in which the addition is connected by a common load-bearing wall other than a fire wall. Any walled and roofed addition which is connected by a fire wall or is separated by an independent perimeter load-bearing wall shall be considered "New Construction".

"Appeal" means a request for a review of the Madison County Inspection Department's interpretation of any provision of this ordinance.

"Area of shallow flooding" means a designated AO or AH Zone on a community's Flood Insurance Rate Map (FIRM) with base flood depths from one to three feet, and/or where a clearly defined channel does not exist, where the path of flooding is unpredictable and indeterminate, and where velocity flow may be evident.

"Area of special flood hazard" is the land in the floodplain within a community subject to a one percent or greater chance of flooding in any given year. In the absence of official designation by the Federal Emergency Management Agency, Areas of Special Flood Hazard shall be those designated by the local community and referenced in Article 3, Section B.

"Base flood" means the flood having a one percent chance of being equaled or exceeded in any given year.

"Basement" means that portion of a building having its floor subgrade (below ground level) on all sides.

"Breakaway wall" means a wall that is not part of the structural support of the building and is intended through its design and construction to collapse under specific lateral loading forces, without causing damage to the elevated portion of the building or the supporting foundation system.

"Building" means any structure built for support, shelter, or enclosure for any occupancy or storage.

"Development" means any man-made change to improved or unimproved real estate, including, but not limited to, buildings or other structures, mining, dredging, filling, grading, paving, excavation, drilling operations, and permanent storage of equipment or materials. For purposes of this ordinance "development" does not include agricultural uses which consist of normal and customary farming practices such as the plowing, planting, cultivation, and harvesting of farm products.

"Elevated building" means a non-basement building built to have the lowest floor of the lowest enclosed area elevated above the ground level by means of fill, solid foundation perimeter walls, pilings, columns, piers, or shear walls adequately anchored so as not to impair the structural integrity of the building during a base flood event.

"Existing Construction" Any structure for which the "start of construction" commenced before June 26, 1981.

"Existing manufactured home park or subdivision" means a manufactured home park or subdivision for which the construction of facilities for servicing the lots on which the manufactured homes are to be affixed (including at a minimum the installation of utilities, the construction of streets, and final site grading or the pouring of concrete pads) is completed before June 26, 1981.

"Expansion to an existing manufactured home park or subdivision" means the preparation of additional sites by the construction of facilities for servicing the lots on which the manufactured homes are to be affixed, including the installation of utilities, the construction of streets, and either final site grading or the pouring of concrete pads.

"Flood" or **"flooding"** means a general and temporary condition of partial or complete inundation of normally dry land areas from:

- a. the overflow of inland waters; or
- b. the unusual and rapid accumulation or runoff of surface waters from any source.

"Flood Insurance Rate Map (FIRM)" means an official map of a community, issued by the Federal Insurance Administration, delineating the areas of special flood hazard and/or risk premium zones applicable to the community.

"Flood Insurance Study" the official report by the Federal Insurance Administration evaluating flood hazards and containing flood profiles and water surface elevations of the base flood.

"Floodplain" means any land area susceptible to flooding.

"Floodway" (Regulatory Floodway) means the channel of a river or other watercourse and the adjacent land areas that must be reserved in order to discharge the base flood without cumulatively increasing the water surface elevation more than a designated height.

"Functionally dependent facility" means a facility which cannot be used for its intended purpose unless it is located or carried out in close proximity to water, such as a docking or port facility necessary for the loading and unloading of cargo or passengers, shipbuilding, or ship repair facilities. The term does not include long-term storage, manufacture, sales, or service facilities.

"Highest adjacent grade" means the highest natural elevation of the ground surface, prior to construction, adjacent to the proposed walls of a structure.

"Historic Structure" means any structure that is;

- a. 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 listing on the National Register:
- b. Certified or preliminarily determined by the Secretary of the Interior as contributing to the historical significance of a registered historic district or a district preliminarily determined by the Secretary to qualify as a registered historic district:
- c. Individually listed on a state inventory of historic places and determined as eligible by states with historic preservation programs which have been approved by the Secretary of the Interior; or
- d. Individually listed on a local inventory of historic places and determined as eligible by communities with historic preservation programs that have been certified either:
 1. By an approved state program as determined by the Secretary of the Interior, or
 2. Directly by the Secretary of the Interior in states without approved programs.

Levee means a man-made structure, usually an earthen embankment, designed and constructed in accordance with sound engineering practices to contain, control, or divert the flow of water so as to provide protection from temporary flooding.

Lowest floor means the lowest floor of the lowest enclosed area

(including basement). An unfinished or flood resistant enclosure, used solely for parking of vehicles, building access, or storage, in an area other than a basement, is not considered a building's lowest floor, provided that such enclosure is not built so as to render the structure in violation of other provisions of this code.

"Manufactured home" means a building, transportable in one or more sections, built on a permanent chassis and designed to be used with or without a permanent foundation when connected to the required utilities. The term also includes park trailers, travel trailers, and similar transportable structures placed on a site for 180 consecutive days or longer and intended to be improved property.

"Mean Sea Level" means the average height of the sea for all stages of the tide. It is used as a reference for establishing various elevations within the floodplain. For purposes of this ordinance, the term is synonymous with National Geodetic Vertical Datum (NGVD) of 1929 or other datum.

"National Geodetic Vertical Datum (NGVD)" as corrected in 1929 is a vertical control used as a reference for establishing varying elevations within the floodplain.

"New construction" means any structure for which the "start of construction" commenced after June 26, 1981.

"New manufactured home park or subdivision" means a manufactured home park or subdivision for which the construction of facilities for servicing the lots on which the manufactured homes are to be affixed (including at a minimum, the installation of utilities, the construction of streets, and either final site grading or the pouring of concrete pads) is completed on or after June 26, 1981.

"Repetitive Loss" means flood-related damages sustained by a structure on two separate occasions during a 10-year period for which the cost of repairs at the time of each such flood event, on the average, equals or exceeds 25 percent of the market value of the structure before the damages occurred.

"Recreational vehicle" means a vehicle which is:

- a. Built on a single chassis;
- b. 400 square feet or less when measured at the largest horizontal projection;
- c. Designed to be self-propelled or permanently

towable by a light duty truck; and

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

"Start of construction" means the date the development permit was issued, provided the actual start of construction, repair, reconstruction, or improvement was within 180 days of the permit date. The actual start means the first placement of permanent construction of the structure such as the pouring of slabs or footings, installation of piles, construction of columns, or any work beyond the stage of excavation, and includes the placement of a manufactured home on a foundation. (Permanent construction does not include initial 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 buildings appurtenant to the permitted structure, such as garages or sheds not occupied as dwelling units or part of the main structure. (NOTE: accessory structures are NOT exempt from any ordinance requirements) For a substantial improvement, the actual start of construction means the first alteration of any wall, ceiling, floor, or other structural part of a building, whether or not that alteration affects the external dimensions of the building.

"Structure" means a walled and roofed building that is principally above ground, a manufactured home, a gas or liquid storage tank.

"Substantial damage" means 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 damages sustained by a structure on two separate occasions during a 10-year period for which the cost of repairs at the time of each such flood event, on the average, equals or exceeds 25 percent of the market value of the structure before the damages occurred.

"Substantial improvement" means 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 "repetitive loss" or "substantial damage", regardless of the actual repair work performed. The market value of the building

should be (1) the appraised value of the structure prior to the start of the initial repair or improvement, or (2) in the case of damage, the value of the structure prior to the damage occurring. This term includes structures which have incurred "substantial damage", regardless of the actual amount of repair work performed.

For the purposes of this definition, "substantial improvement" is considered to occur when the first alteration of any wall, ceiling, floor, or other structural part of the building commences, whether or not that alteration affects the external dimensions of the building. The term does not, however, include either: (1) Any project for improvement of a structure to correct existing violations of state or local health, sanitary, or safety code specifications which have been identified by the local code enforcement official and which are the minimum necessary to assure safe living conditions or; (2) Any alteration of a "historic structure", provided that the alteration will not preclude the structure's continued designation as a "historic structure".

"Substantially improved existing manufactured home parks or subdivisions" is where the repair, reconstruction, rehabilitation or improvement of the streets, utilities and pads equals or exceeds 50 percent of the value of the streets, utilities and pads before the repair, reconstruction or improvement commenced.

"Variance" is a grant of relief from the requirements of this ordinance which permits construction in a manner otherwise prohibited by this ordinance.

ARTICLE 3. GENERAL PROVISIONS

SECTION A. LANDS TO WHICH THIS ORDINANCE APPLIES

This ordinance shall apply to all Areas of Special Flood Hazard as defined herein, within the jurisdiction of the unincorporated area of Madison County, Alabama.

SECTION B. BASIS FOR AREA OF SPECIAL FLOOD HAZARD

The Areas of Special Flood Hazard identified by the Federal Emergency Management Agency in its Flood Insurance Study (FIS), dated April 20, 1998, with accompanying maps and other supporting data and any revision thereto, are adopted by reference and declared a part of this ordinance.

Areas of Special Flood Hazard may also include those areas known to have flooded historically or defined through standard

engineering analysis by governmental agencies or private parties but not yet incorporated in a Flood Insurance Study.

SECTION C. ESTABLISHMENT OF AN AREA OF SPECIAL FLOOD HAZARD DEVELOPMENT PERMIT

An Area of Special Flood Hazard Development Permit (ASFHDP) shall be required in conformance with the provisions of this ordinance prior to the commencement of any development activities within the special flood hazard areas, of the unincorporated area of Madison County.

SECTION D. COMPLIANCE

No structure or land shall hereafter be located, extended, converted or altered without full compliance with the terms of this ordinance and other applicable regulations.

SECTION E. ABROGATION AND GREATER RESTRICTIONS

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

SECTION F. INTERPRETATION

In the interpretation and application of this ordinance all provisions shall be:

- (1) considered as minimum requirements;
- (2) liberally construed in favor of the governing body, and;
- (3) deemed neither to limit nor repeal any other powers granted under state statutes.

SECTION G. WARNING AND DISCLAIMER OF LIABILITY

The degree of flood protection required by this ordinance is considered reasonable for regulatory purposes and is based on scientific and engineering considerations. Larger floods can and will occur; flood heights may be increased by man-made or natural causes. This ordinance does not imply that land outside the Areas of Special Flood Hazard or uses permitted within such areas will be free from flooding or flood damages. This ordinance shall not create liability on the part of Madison County Commission or by any agent, officer, or employee thereof for any damages that result from reliance on this ordinance or any

administrative decision lawfully made thereunder.

SECTION H. PENALTIES FOR VIOLATION

Violation of the provisions of this ordinance or failure to comply with any of its requirements, including violation of conditions and safeguards established in connection with grants of variance or special exceptions shall constitute a misdemeanor. Any person who violates this ordinance or fails to comply with any of its requirements shall, upon conviction thereof, be fined not more than \$500.00 or imprisoned for not more than 365 days, or both, 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 Madison County Commission from taking such other lawful actions as is necessary to prevent or remedy any violation.

ARTICLE 4. ADMINISTRATION

SECTION A. DESIGNATION OF MADISON COUNTY ENGINEER

The Madison County Engineer or his designee, is hereby appointed to administer and implement the provisions of this ordinance.

SECTION B. PERMIT PROCEDURE

Application for an Area of Special Flood Hazard Development Permit shall be made to the Madison County Inspection Department on forms furnished by the Department prior to any development activities in the special flood hazard areas, and may include, but not be limited to the following: plans in duplicate drawn to scale showing the elevations of area in question and the nature, location, dimensions, of existing or proposed structures, earthen fill placement, storage of materials or equipment, and drainage facilities.

(1) Application Stage: Additionally, the following applicable information must be provided by the applicant prior to the issuance of a permit.

(a) Elevation in relation to mean sea level (or highest adjacent grade) of the regulatory lowest floor level, including basement, of all proposed structures, certified by applicant's Alabama registered land surveyor or professional engineer to meet the criteria of Article 5;

(b) Elevation in relation to mean sea level to which

any non-residential structure will be flood-proofed, certified by applicant's Alabama registered professional engineer or architect to meet the criteria of Article 5;

- (c) Design certification from applicant's Alabama registered professional engineer or architect that any proposed non-residential flood-proofed structure will meet the flood-proofing criteria of Article 5, Sections B(2) and D(2);
 - (d) Description of the extent to which any watercourse will be altered or relocated as a result of a proposed development.
- (2) Construction Phase: Upon receipt of the Area of Special Flood Hazard Development permit the applicant shall become a permit holder. The permit holder must comply with the following applicable provisions during the construction phase of the development activity.

For all new construction and substantial improvements, the permit holder shall provide to the Madison County Inspection Department an as-built certification of the regulatory floor elevation or flood-proofing level using appropriate FEMA elevation or flood-proofing certificate immediately after the lowest floor or flood-proofing is completed. Any regulatory floor certification made relative to mean sea level shall be prepared by or under the direct supervision of the permit holder's Alabama registered land surveyor or professional engineer and certified by same. When flood-proofing is utilized for non-residential structures, said certification shall be prepared by or under the direct supervision of an Alabama professional engineer or architect and certified by same.

Any work undertaken prior to submission of these certifications shall be at the permit holder's risk. The Madison County Inspection Department shall review the above referenced certification data submitted. Deficiencies detected by such review shall be corrected by the permit holder immediately and prior to further progressive work being allowed to proceed. Failure to submit certification or failure to make said corrections required hereby, shall be cause to issue a stop-work order for the project.

SECTION C. DUTIES AND RESPONSIBILITIES OF THE MADISON COUNTY

ENGINEER

Duties of the Madison County Engineer or his designee shall include, but shall not be limited to:

- (1) Review all Floodplain Development Permits to assure that the permit requirements of this ordinance have been satisfied;
- (2) Review proposed development to assure that all necessary permits have been received from governmental agencies from which approval is required by Federal or State law, including section 404 of the Federal Water Pollution Control Act Amendments of 1972, 33 U.S.C. 1334. Require that the permit holder provide copies of such permits, and maintain them on file.
- (3) When Base Flood Elevation data or floodway data have not been provided in accordance with Article 3 Section B, then the permit holder shall obtain the services of an Alabama registered professional engineer to review and reasonably utilize any base flood elevation and floodway data available from a Federal, State or other sources in order to administer the provisions of Article 5.
- (4) Verify and record the actual elevation in relation to mean sea level (or highest adjacent grade) of the regulatory floor level, including basement, of all new construction or substantially improved structures in accordance with Article 4 B (2).
- (5) Verify and record the actual elevation, in relation to mean sea level to which any new or substantially improved structures have been flood-proofed, in accordance with Article 5, Sections B (2) and D (2).
- (6) When flood-proofing is utilized for a structure, the permit holder shall obtain certification of design criteria from an Alabama registered professional engineer or architect in accordance with Article 5(B)(1)(c) and Article 5(B)(2) or (D)(2).
- (7) Verify that the permit holder has notified adjacent communities and the Alabama Department of Natural Resources prior to any alteration or relocation of a watercourse and submit evidence of such notification to the Federal Emergency Management Agency (FEMA), and the Alabama Emergency Management Agency (AEMA).

- (8) For any altered or relocated watercourse, require that the applicant submit engineering data/analysis within six (6) months to the FEMA and State to ensure accuracy of community flood maps through the Letter of Map Revision process. Applicant's Alabama registered professional engineer shall provide documentation to assure flood carrying capacity of any altered or relocated watercourse is maintained.
- (9) Where interpretation is needed as to the exact location of boundaries of the Areas of Special Flood Hazard (for example, where there appears to be a conflict between a mapped boundary and actual field conditions) the Madison County Engineer or his designee shall make the necessary interpretation. Any person contesting the location of the boundary shall provide documentation by an Alabama registered land surveyor or licensed professional engineer to appeal the interpretation as provided in this Ordinance.
- (10) All records pertaining to the provisions of this ordinance shall be maintained in the office of the Madison County Inspection Department and shall be open for public inspection.

ARTICLE 5. PROVISIONS FOR FLOOD HAZARD REDUCTION

SECTION A. GENERAL STANDARDS

In all areas of Special Flood Hazard the following provisions are required:

- (1) New construction and substantial improvements of existing structures shall be anchored to prevent flotation, collapse or lateral movement of the structure;
- (2) New construction and substantial improvements of existing structures shall be constructed with materials and utility equipment resistant to flood damage;
- (3) New construction or substantial improvements of existing structures shall be constructed by methods and practices that minimize flood damage;
- (4) Elevated Buildings - All new construction or substantial improvements of existing structures that

include any fully enclosed area located below the lowest floor formed by foundation and other exterior walls shall be designed so as to be an unfinished or flood resistant enclosure. The enclosure shall be designed to equalize hydrostatic flood forces on exterior walls by allowing for the automatic entry and exit of floodwater.

- (a) Designs for complying with this requirement must either be certified by an Alabama professional engineer or architect or meet the following minimum criteria:
 - (i) Provide a minimum of two openings having a total net area of not less than one square inch for every square foot of enclosed area subject to flooding;
 - (ii) The bottom of all openings shall be no higher than one foot above grade; and,
 - (iii) Openings may be equipped with screens, louvers, valves or other coverings or devices provided they permit the automatic flow of floodwater in both directions.
 - (b) So as not to violate the "Lowest Floor" criteria of this ordinance, the unfinished or flood resistant enclosure shall only be used for parking of vehicles, limited storage of maintenance equipment used in connection with the premises, or entry to the elevated area ,and
 - (c) The interior portion of such enclosed area shall not be partitioned or finished into separate rooms.
- (5) All heating and air conditioning equipment and components, all electrical, ventilation, plumbing, and other service facilities shall be designed and/or located so as to prevent water from entering or accumulating within the components during conditions of flooding.
- (6) Manufactured homes shall be anchored to prevent flotation, collapse, or lateral movement. Methods of anchoring may include, but are not limited to, use of over-the-top or frame ties to ground anchors. This standard shall be in addition to and consistent with

applicable State requirements for resisting wind forces.

- (7) New and replacement water supply systems shall be designed to minimize or eliminate infiltration of flood waters into the system;
- (8) New and replacement sanitary sewage systems shall be designed to minimize or eliminate infiltration of flood waters into the systems and discharges from the systems into flood waters;
- (9) On-site waste disposal systems shall be located and constructed to avoid impairment to them or contamination from them during flooding, and;
- (10) Any alteration, repair, reconstruction or improvement to a structure which is not compliant with the provisions of this ordinance, shall be undertaken only if the nonconformity is not furthered, extended or replaced.

SECTION B. SPECIFIC STANDARDS

In all Areas of Special Flood Hazard designated as A1-30, AE, AH, or A, with an estimated Base Flood Elevation, the following provisions are required:

- (1) New construction and substantial improvements: Where base flood elevation data are available, new construction or substantial improvement of any structure or manufactured home shall have the lowest floor, including basement, elevated no lower than one foot above the base flood elevation. Should solid foundation perimeter walls be used to elevate a structure, openings sufficient to facilitate the unimpeded movements of flood waters shall be provided in accordance with standards of Article 5, Section A(4), "Elevated Buildings".
- (2) Non-Residential Construction: New construction or the substantial improvement of any non-residential structure located in A1-30, AE, or AH zones, may be flood-proofed in lieu of elevation. The structure, together with attendant utility and sanitary facilities, must be designed to be water tight to one (1) foot above the base flood elevation, with walls substantially impermeable to the passage of water, and structural components having the capability of

resisting hydrostatic and hydrodynamic loads and the effect of buoyancy. The permit holder's Alabama registered professional engineer or architect shall certify that the design and methods of construction are in accordance with accepted standards of practice for meeting the provisions above, and shall provide such certification to the official as set forth above and in Article 4, Section C(6).

(3) Standards for Manufactured Homes and Recreational Vehicles: Where base flood elevation data are available:

- (a) All manufactured homes placed or substantially improved on
 - (i) individual lots or parcels,
 - (ii) in new or substantially improved manufactured home parks or subdivisions,
 - (iii) in expansions to existing manufactured home parks or subdivisions, or
 - (iv) on a site in an existing manufactured home park or subdivision where a manufactured home has incurred "substantial damage" as the result of a flood, must have the lowest floor including basement elevated no lower than one foot above the base flood elevation.
- (b) Manufactured homes placed or substantially improved in an existing manufactured home park or subdivision may be elevated so that either:
 - (i) The lowest floor of the manufactured home is elevated no lower than one foot above the level of the base flood elevation, or
 - (ii) The manufactured home chassis is elevated and supported by reinforced piers (or other foundation elements of at least an equivalent strength) of no less than 36 inches in height above grade.
- (c) All Manufactured homes must be securely anchored to an adequately anchored foundation system to resist flotation, collapse and lateral movement. (Refer to Article 4, Section A above)

- (d) All recreational vehicles placed on sites must either:
- (i) Be on the site for fewer than 180 consecutive days, fully licensed and ready for highway use if it is licensed, on it's wheels or jacking system, attached to the site only by quick disconnect type utilities and security devices, and has no permanently attached structures or additions; or
 - (ii) The recreational vehicle must meet all the requirements for "New Construction", including the anchoring and elevation requirements of Article 4 Section B (3) (a) (c), above.
- (4) Floodway: Located within Areas of Special Flood Hazard established in Article 3, Section B, are areas designated as floodway. A floodway may be an extremely hazardous area due to velocity flood waters, debris or erosion potential. In addition, the area must remain free of encroachment in order to allow for the discharge of the base flood without increased flood heights. Therefore, the following provisions shall apply:
- (a) Encroachments are prohibited, including earthen fill, new construction, substantial improvements or other development within the regulatory floodway. Development may be permitted however, provided it is demonstrated through hydrologic and hydraulic analyses performed in accordance with standard engineering practice that the encroachment shall not result in any increase in flood levels or floodway widths during a base flood discharge. An Alabama registered professional engineer must provide supporting technical data and certification thereof.
 - (b) Only if Article 5 (B) (4) (a) above is satisfied, then any new construction or substantial improvement shall comply with all other applicable flood hazard reduction provisions of Article 4.

SECTION C. BUILDING STANDARDS FOR STREAMS WITHOUT ESTABLISHED BASE FLOOD ELEVATIONS AND/OR FLOODWAY (A-ZONES)

Located within the Areas of Special Flood Hazard established in Article 3, Section B, where streams exist but no base flood data have been provided (A-Zones), or where base flood data have been provided but a Floodway has not been delineated, the following provisions apply:

- (1) When base flood elevation data or floodway data have not been provided in accordance with Article 3(B), then the Madison County Inspection Department shall require the permit holder to obtain any scientific or historic Base Flood Elevation and floodway data available from a Federal, State, or other source, in order to administer the provisions of Article 5. Only if data are not available from these sources, then the following provisions (2&3) shall apply:
- (2) No encroachments, including structures or fill material, shall be located within an area equal to the width of the stream or twenty-five feet, whichever is greater, measured from the top of the stream bank, unless certification by an Alabama registered professional engineer is provided demonstrating that such encroachment shall not result in any increase in flood levels during the occurrence of the base flood discharge.
- (3) In special flood hazard areas without base flood elevation data, new construction and substantial improvements of existing structures shall have the lowest floor of the lowest enclosed area (including basement) elevated no less than three (3) feet above the highest adjacent grade at the building site. Openings sufficient to facilitate the unimpeded movements of flood waters shall be provided in accordance with standards of Article 5, Section A(4) "Elevated Buildings".

The permit holder shall have an Alabama professional engineer certify the lowest floor elevation level and the record shall become a permanent part of the permit file.

SECTION D. STANDARDS FOR AREAS OF SHALLOW FLOODING (AO ZONES)

Areas of Special Flood Hazard established in Article 3, Section B, may include designated "AO" shallow flooding areas. These areas have base flood depths of one to three feet (1'-3') above ground, with no clearly defined channel. The following provisions apply:

- (1) All new construction and substantial improvements of residential and non-residential structures shall have the lowest floor, including basement, elevated to the flood depth number specified on the Flood Insurance Rate Map (FIRM) above the highest adjacent grade. If no flood depth number is specified, the lowest floor, including basement, shall be elevated at least three feet (3) above the highest adjacent grade. Openings sufficient to facilitate the unimpeded movements of flood waters shall be provided in accordance with standards of Article 5, Section A(4), "Elevated Buildings".

The permit holder shall have an Alabama registered professional engineer or land surveyor certify the lowest floor elevation level and the record shall become a permanent part of the permit file.

- (2) New construction or the substantial improvement of a non-residential structure may be flood-proofed in lieu of elevation. The structure, together with attendant utility and sanitary facilities, must be designed to be water tight to the specified FIRM flood level plus two (2) feet, above highest adjacent grade, with walls substantially impermeable to the passage of water, and structural components having the capability of resisting hydrostatic and hydrodynamic loads and the effect of buoyancy. The permit holder's Alabama registered professional engineer or architect shall certify that the design and methods of construction are in accordance with accepted standards of practice for meeting the provisions above, and shall provide such certification to the official as set forth above and as required in Article 4(B)(1)(c) and (B)(2).
- (3) Drainage paths shall be provided to guide floodwater around and away from any proposed structure.

SECTION E. STANDARDS FOR SUBDIVISIONS

- (1) All subdivision proposals shall be consistent with the need to minimize flood damage;
- (2) All subdivision proposals shall have public utilities and facilities such as sewer, gas, electrical and water systems located and constructed to minimize flood damage;

- (3) All subdivision proposals shall have adequate drainage provided to reduce exposure to flood hazards, and;
- (4) Base flood elevation data shall be provided for subdivision proposals and all other proposed development, including manufactured home parks and subdivisions.

ARTICLE 5. VARIANCE PROCEDURES

- (A) The Madison County Commission shall hear and decide requests for appeals or variance from the requirements of this ordinance.
- (B) The Commission shall hear and decide appeals when it is alleged an error in any requirement, decision, or determination is made in the enforcement or administration of this ordinance.
- (C) Variances may be issued for the repair or rehabilitation of Historic Structures upon a determination that the proposed repair or rehabilitation will not preclude the structure's continued designation as an Historic Structure and the variance is the minimum to preserve the historic character and design of the structure.
- (D) Variances may be issued for development necessary for the conduct of a functionally dependent use, provided the criteria of this Article are met, no reasonable alternative exists, and the development is protected by methods that minimize flood damage during the base flood and create no additional threats to public safety.
- (E) Variances shall not be issued within any designated floodway if any increase in flood levels during the base flood discharge would result.
- (F) In reviewing such requests, the Madison County Board of Building Inspection Appeals shall consider all technical evaluations, relevant factors, and all standards specified in this and other sections of this ordinance.
- (G) **Conditions for Variances:**
 - (1) A variance shall be issued only when there is:

- (i) a finding of good and sufficient cause,
 - (ii) a determination that failure to grant the variance would result in exceptional hardship, and;
 - (iii) a determination that the granting of a variance will not result in increased flood heights, additional threats to public safety, extraordinary public expense, create nuisance, cause fraud on or victimization of the public, or conflict with existing local laws or ordinances.
- (2) The provisions of this Ordinance are minimum standards for flood loss reduction, therefore any deviation from the standards must be weighed carefully. Variances shall only be issued upon a determination that the variance is the minimum necessary, considering the flood hazard, to afford relief; and, in the instance of an Historic Structure, a determination that the variance is the minimum necessary so as not to destroy the historic character and design of the building.
- (3) Any applicant to whom a variance is granted shall be given written notice specifying the difference between the base flood elevation and the elevation of the proposed lowest floor and stating that the cost of flood insurance will be commensurate with the increased risk to life and property resulting from the reduced lowest floor elevation.
- (4) The Madison County Commission shall maintain the records of all appeal actions and report any variances to the Federal and State Emergency Management Agencies upon request.
- (I) Upon consideration of the factors listed above and the purposes of this ordinance, the Madison Commission may attach such conditions to the granting of variances as it deems necessary to further the purposes of this ordinance.