

**ARTICLE 6
FLOOD DAMAGE PREVENTION ORDINANCE**

TABLE OF CONTENTS

SUBARTICLE 1. <u>STATUTORY AUTHORIZATION, FINDINGS OF FACT, PURPOSE AND OBJECTIVES</u>		
Section A.	Statutory Authorization	3
Section B.	Findings of Fact	3
Section C.	Statement of Purpose	3
Section D.	Objectives	4
Section E.	Methods of Reducing Flood Losses	4
SUBARTICLE 2. <u>DEFINITIONS</u>		
4		
SUBARTICLE 3. <u>GENERAL PROVISIONS</u>		
Section A.	Lands to Which This Ordinance Applies	15
Section B.	Basis for Establishing the Areas of Special Flood Hazard	15
Section C.	Establishment of Floodplain Development Permit	16
Section D.	Compliance	16
Section E.	Abrogation and Greater Restrictions	16
Section F.	Interprétation	16
Section G.	Warning and Disclaimer of Liability	16
Section H.	Penalties for Violation	16
SUBARTICLE 4. <u>ADMINISTRATION</u>		
Section A.	Designation of Flood Damage Prevention Ordinance Administrator	17
Section B.	Permit Procedures	17
Section C.	Powers, Duties and Responsibilities of the Floodplain Administrator	18
SUBARTICLE 5. <u>PROVISIONS FOR FLOOD HAZARD REDUCTION</u>		
Section A.	General Standards	20
Section B.	Specific Standards	21
Section D.	Standards for Shallow Flooding Zones	24
Section F.	Standards for Subdivision Proposals	24
Section H.	Critical Facilities	26
SUBARTICLE 6. <u>VARIANCE PROCEDURES</u>		
Section A.	Designation of Variance and Appeals Board	26
Section B.	Duties of Variance and Appeals Board	26
Section C.	Variance Procedures	26

Section D.	Conditions for Variances	27
Section E.	Variance Notification	28
Section F.	Historic Structures	28
Section G.	Special Conditions	28
Section H.	Floodway	28
SUBARTICLE 7.	SEVERABILITY	28

This Table of Contents is for convenience of reference only and is not a part of the Regulation.

FLOOD DAMAGE PREVENTION ORDINANCE

SUBARTICLE 1. STATUTORY AUTHORIZATION, FINDINGS OF FACT, PURPOSE AND OBJECTIVES.

SECTION A. STATUTORY AUTHORIZATION.

The Legislature of the State of Mississippi has in Title 17, Chapter 1, Mississippi Code 1972 Annotated delegated the responsibility to local government units to adopt regulations designed to promote the public health, safety, and general welfare of its citizenry. Therefore, the Board of Directors of the PEARL RIVER VALLEY WATER SUPPLY DISTRICT, an agency of the State of Mississippi does hereby adopt the following floodplain management regulations.

SECTION B. FINDINGS OF FACT.

- (1) The flood hazard areas of the Pearl River Valley Water Supply District 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 protection and relief, 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 cumulative effect of obstructions in floodplains causing increases in flood heights and velocities, and by the occupancy in flood hazard areas by uses vulnerable to floods or hazardous to other lands which are inadequately elevated, flood-proofed, or otherwise unprotected from flood damages.

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 specific areas by provisions designed to:

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

SECTION D. OBJECTIVES.

The objectives of this ordinance are:

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

SECTION E. METHODS OF REDUCING FLOOD LOSSES.

In order to accomplish its purposes, this ordinance includes methods and provisions for:

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

SUBARTICLE 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.

A Zone means portions of the SFHA in which the principle source of flooding is runoff from rainfall, snowmelt, or a combination of both. In A zones, floodwaters may move slowly or

rapidly, but waves are usually not a significant threat to buildings. Areas of 100-year flood, base flood elevations and flood hazard factors not determined.

A1 – A30 and AE zone is the Special Flood Hazard Area inundated by the 100-year flood, base flood elevations are determined.

Accessory structure (Appurtenant structure) means a structure, which is located on the same parcel of property as the principle structure and the use of which is incidental to the use of the principle structure. Accessory structures should constitute a minimal initial investment, may not be used for human habitation, and be designed to have minimal flood damage potential. Examples of accessory structures are detached garages, carports, storage sheds, pole barns, and hay sheds.

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 firewall. Any walled and roofed addition, which is connected by a firewall or is separated by independent perimeter load-bearing walls, is new construction.

Appeal means a request for a review of the floodplain administrator’s interpretation of any provision of this ordinance or a request for a variance.

AR/A1 – A30, AR/AE, AR/AH, AR/AO, and AR/A zones are SFHAs that result from the decertification of a previously accredited flood protection system that is in the process of being restored to provide a 100-year or greater level of flood protection. After restoration is complete, these areas will still experience residual flooding from other flooding sources.

A99 zone is that part of the SFHA 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.

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.

B and X zones (shaded) are 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.

Base flood means the flood having a one percent chance of being equaled or exceeded in any given year (also called the “100-year flood”).

Base Flood Elevation (BFE) is the elevation shown on the Flood Insurance Rate Map (FIRM) for Zones AE, AH, A1-30, AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO, V1-V30, and VE that indicates the water surface elevation resulting from a flood that has a 1-percent or greater chance of being equaled or exceeded in any given year.

Basement means that portion of a building having its floor sub-grade (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 see **Structure**.

C and X (unshaded) zones are areas determined to be outside the 500-year floodplain.

Community is a political entity that has the authority to adopt and enforce floodplain ordinances for the area under its jurisdiction.

Community Rating System (CRS) is a program developed by the Federal Insurance Administration to provide incentives for those communities in the Regular Program that have gone beyond the minimum floodplain management requirements to develop extra measures to provide protection from flooding.

Critical facility means a facility for which even a slight chance of flooding might be too great. Critical facilities include, but are not limited to schools, nursing homes, hospitals, police, fire and emergency response installations, installations which produce, use or store hazardous materials or hazardous waste.

D zone is an area in which the flood hazard is undetermined.

Dam is any artificial barrier, including appurtenant works, constructed to impound or divert water, waste-water, liquid borne materials, or solids that may flow if saturated. All structures necessary to maintain the water level in an impoundment or to divert a stream from its course will be considered one dam.

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, excavating, drilling operations, or storage of materials or equipment.

Elevated building means a non-basement building built to have the lowest floor elevated above the ground level by means of fill, solid foundation perimeter walls, pilings, columns (posts and piers), shear walls, or breakaway walls.

Elevation Certificate is a certified statement that verifies a building's elevation information.

Emergency Program means the first phase under which a community participates in the NFIP. It is intended to provide a first layer amount of insurance at subsidized rates on all insurable buildings in that community before the effective date of the initial FIRM.

Enclosure Below the Lowest Floor see "Lowest Floor."

Encroachment means the advance or infringement of uses, plant growth, fill, excavation, buildings, permanent structures or development into a floodplain, which may impede or alter the flow capacity of a floodplain.

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.

Existing Construction any structure for which the “start of construction” commenced before October 18, 1974 for areas within Hinds County, August 11, 1978 for areas within Madison County, May 20, 1977 for areas within Leake County, June 17, 1977 for areas within Scott County, and December 13, 1974 for areas within Rankin County.

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 either final site grading or the pouring of concrete pads) is completed before the effective date of the floodplain management regulations adopted by a community before October 18, 1974 for areas within Hinds County, August 11, 1978 for areas within Madison County, May 20, 1977 for areas within Leake County, June 17, 1977 for areas within Scott County, and December 13, 1974 for areas within Rankin County.

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).

Fill means a deposit of earth material placed by artificial means.

Five-Hundred Year Flood means the flood that has a 0.2 percent chance of being equaled or exceeded in any year. Areas subject to the 500-year flood have a moderate to low risk of flooding.

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 or tidal waters;
- b.) The unusual and rapid accumulation or runoff of surface waters from any source.

Flood Boundary and Floodway Map (FBFM) means the official map on which the Federal Emergency Management Agency (FEMA) or Federal Insurance Administration (FIA) has delineated the areas of flood hazards and regulatory floodway.

Flood Hazard Boundary Map (FHBM) means an official map of a community, issued by FEMA, where the boundaries of the areas of special flood hazard have been identified as Zone A.

Flood Insurance Rate Map (FIRM) means an official map of a community, on which FEMA has delineated both the areas of special flood hazard and the risk premium zones applicable to the community.

Flood Insurance Study (FIS) is the official hydraulic & hydrologic report provided by FEMA. The report contains flood profiles, as well as the FIRM, FHBM (where applicable) and the water surface elevation of the base flood.

Floodplain means any land area susceptible to being inundated by flood waters from any source.

Floodplain management means the operation of an overall program of corrective and preventive measures for reducing flood damage and preserving and enhancing, where possible, natural resources in the floodplain, including but not limited to emergency preparedness plans, flood control works, floodplain management regulations, and open space plans.

Floodplain Administrator is the individual appointed to administer and enforce the floodplain management regulations.

Floodplain management regulations means this ordinance and other zoning ordinances, subdivision regulations, building codes, health regulations, special purpose ordinances, and other applications of police power which control development in flood-prone areas. This term describes federal, state or local regulations in any combination thereof, which provide standards for preventing and reducing flood loss and damage.

Floodproofing Certificate is a form used to certify compliance for non-residential structures as an alternative to elevating buildings to or above the BFE.

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 one foot.

Floodway fringe means that area of the floodplain on either side of the regulatory floodway where encroachment may be permitted without additional hydraulic and/or hydrologic analysis.

Freeboard means a factor of safety, usually expressed in feet above the BFE, which is applied for the purposes of floodplain management. It is used to compensate for the many unknown factors that could contribute to flood heights greater than those calculated for the base flood.

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, ship repair, or seafood processing facilities. The term does not include long-term storage, manufacture, sales, or service facilities.

Hardship (as related to variances of this ordinance) means the exceptional hardship that would result from a failure to grant the requested variance. The Board of Directors requires that the variance is exceptional, unusual, and peculiar to the property involved. Mere economic or financial hardship alone is NOT exceptional. Inconvenience, aesthetic considerations, physical handicaps, personal preferences, or the disapproval of one's neighbors likewise cannot, as a rule, qualify as an exceptional hardship. All of these problems can be resolved through other means without granting a variance, even if the alternative is more expensive, or requires the property owner to build elsewhere or put the parcel to a different use than originally intended.

Hazard potential means the possible adverse incremental consequences that result from the release of water or stored contents due to failure of a dam or mis-operation of a dam or appurtenances. The hazard potential classification of a dam does not reflect in any way on the current condition of a dam and its appurtenant structures (e.g., safety, structural integrity, flood routing capacity).

High hazard dam means a class of dam in which failure may cause loss of life, serious damage to residential, industrial, or commercial buildings; or damage to, or disruption of, important public utilities or transportation facilities such as major highways or railroads. Dams which meet the statutory thresholds for regulation that are proposed for construction in established or proposed residential, commercial, or industrial areas will be assigned this classification, unless the applicant provides convincing evidence to the contrary. A development permit is required for a building and associated fill downstream from a dam at any location where flooding can be reasonably anticipated from principal or emergency spillway discharges, or from overtopping and failure of the dam. The dam at the Ross Barnett Reservoir spillway is a “high hazard dam” for purposes of this ordinance.

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

Historic Structure means any structure that is:

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

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

Increased Cost of Compliance (ICC) means the cost to repair a substantially damaged building that exceeds the minimal repair cost and that is required to bring a substantially damaged building into compliance with the local flood damage prevention ordinance. Acceptable mitigation measures are elevation, relocation, demolition, or any combination thereof. All

renewal and new business policies with effective dates on or after June 1, 1997, will include ICC coverage.

Letter of Map Change (LOMC) 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 SFHA. A LOMA amends the current effective FIRM and establishes that a specific property is not located in a SFHA.

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 LORM, a LOMR-F, is a determination concerning whether a structure or parcel has been elevated by fill above the BFE and is, therefore, excluded from the SFHA.

Conditional Letter of Map Revision (CLOMR)

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

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.

Levee system means a flood protection system which consists of a levee, or levees, and associated structures, such as closure and drainage devices, which are constructed and operated in accordance with sound engineering practices. For a levee system to be recognized, the following criteria must be met. All closure devices or mechanical systems for internal drainage, whether manual or automatic, must be operated in accordance with an officially adopted operation manual (a copy of which must be provided to FEMA by the operator when levee or drainage system recognition is being sought or revised). All operations must be under the jurisdiction of a Federal or State agency, an agency created by Federal or State law, or an agency of a community participating in the NFIP.

Low hazard dam means a class of dam in which failure would at the most result in damage to agricultural land, farm buildings (excluding residences), or minor roads.

Lowest adjacent grade means the elevation of the sidewalk, patio, deck support, or basement entryway immediately next to the structure and after the completion of construction. It does not include earth that is emplaced for aesthetic or landscape reasons around a foundation wall. It does include natural ground or properly compacted fill that comprises a component of a building's foundation system.

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 the non-elevation provisions of this code.

Manufactured home means a structure, transportable in one or more sections, which is built on a permanent chassis and designed to be used with or without a permanent foundation when attached to the required utilities. The term manufactured home does not include a "recreational vehicle."

Manufactured home park or subdivision means a parcel (or contiguous parcels) of land divided into two or more manufactured home lots for rent or sale.

Map Panel Number is the four-digit number followed by a letter suffix assigned by FEMA on a flood map. The first four digits represent the map panel, and the letter suffix represents the number of times the map panel has been revised.

Map Amendment means a change to an effective NFIP map that results in the exclusion from the SFHA or an individual structure or a legally described parcel of land that has been inadvertently included in the SFHA (i.e., no alterations of topography have occurred since the date of the first NFIP map that showed the structure or parcel to be within the SFHA).

Market value means the building value, excluding the land (as agreed between a willing buyer and seller), as established by what the local real estate market will bear. Market value can be established by independent certified appraisal, replacement cost depreciated by age of building (Actual Cash Value) or adjusted assessed values.

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).

Mitigation means sustained actions taken to reduce or eliminate long-term risk to people and property from hazards and their effects. The purpose of mitigation is twofold: to protect people and structures, and to minimize the costs of disaster response and recovery.

National Flood Insurance Program (NFIP) is the federal program that makes flood insurance available to owners of property in participating communities nationwide through the cooperative efforts of the Federal Government and the private insurance industry.

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 structures for which the start of construction commenced on or after the effective date of a floodplain management regulation adopted by a community and includes any subsequent improvements to such structures.

New manufactured home park or subdivision 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 the effective date of floodplain regulations adopted by a community.

Non-Residential means, but is not limited to; small business concerns, churches, schools, farm buildings (including grain bins and silos), poolhouses, clubhouses, recreational buildings, mercantile structures, agricultural and industrial structures, warehouses, and hotels or motels with normal room rentals for less than 6 months duration.

Obstruction includes, but is not limited to, any dam, wall, wharf, embankment, levee, dike, pile, abutment, protection, excavation, channelization, bridge, conduit, culvert, building, wire, fence, rock, gravel, refuse, fill, structure, vegetation or other material in, along, across or projecting into any watercourse which may alter, impede, retard or change the direction and/or velocity of the flow of water, or due to its location, its propensity to snare or collect debris carried by the flow of water, or its likelihood of being carried downstream.

One-Hundred Year Flood (100-Year Flood) is the flood that has a 1-percent or greater chance of being equaled or exceeded in any given year. Any flood zone that begins with the letter A or V is subject to the 100-year flood. Over the life of a 30-year loan, there is a 26-percent chance of experiencing such a flood with the SFHA.

Participating Community is any community that voluntarily elects to participate in the NFIP by adopting and enforcing floodplain management regulations that are consistent with the standards of the NFIP.

Post-FIRM Construction means construction or substantial improvement that started on or after the effective date of the initial FIRM of the community or after December 31, 1974, whichever is later.

Pre-FIRM Construction means construction or substantial improvement, which started on or before December 31, 1974, or before the effective date of the initial FIRM of the community, whichever is later.

Probation a means of formally notifying participating communities of violations and deficiencies in the administration and enforcement of the local floodplain management regulations.

Public safety and nuisance, anything which is injurious to safety or health of an entire community or neighborhood, or any considerable number of persons, or unlawfully obstructs the free passage or use, in the customary manner, of any navigable lake, or river, bay, stream, canal, or basin.

Recreational vehicle means a vehicle that 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.

Regular Program means the phase of the community's participation in the NFIP where more comprehensive floodplain management requirements are imposed and higher amounts of insurance are available based upon risk zones and elevations determined in a FIS.

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 one foot.

Repair means the reconstruction or renewal of any part of an existing building.

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, equals or exceeds twenty-five percent of the market value of the structure before the damage occurred.

Section 1316 is that section of the National Flood Insurance Act of 1968, as amended, which states that no new flood insurance coverage shall be provided for any property that the Administrator finds has been declared by a duly constituted state or local zoning authority or other authorized public body to be in violation of state or local laws, regulations, or ordinances that are intended to discourage or otherwise restrict land development or occupancy in flood-prone areas.

Significant hazard dam means a dam assigned the significant hazard potential classification where failure may cause damage to main roads, minor railroads, or cause interruption of use, or service of relatively important public utilities.

Special flood hazard area (SFHA) means that portion of the floodplain subject to inundation by the base flood and/or flood-related erosion hazards as shown on a FHBM or FIRM as Zone A, AE, A1 – A30, AH, AO, AR, V, VE, or V1-V30.

Start of construction (for other than new construction or substantial improvements under the Coastal Barrier Resources Act P. L. 97-348), includes substantial improvement, and means the date the building 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 a building (including a manufactured home) on a site, such as the pouring of slabs or footings, installation of piles, construction of columns, or any work beyond the stage of excavation or 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 building. For 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 all walled and roofed buildings, including gas or liquid storage tanks and manufactured homes that are principally above ground.

Subdivision means any division, for the purposes of sale, lease, or development, either on the installment plan or upon any and all other plans, terms and conditions, of any tract or parcel of land into two (2) or more lots or parcels.

Subrogation means an action brought by FEMA when flood damages have occurred, flood insurance has been paid, and all or part of the damage can be attributed to acts or omissions by a community or other third party.

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. The term includes Repetitive Loss buildings (see definition).

For the purposes of this definition, “repair” is considered to occur when the first repair or reconstruction of any wall, ceiling, floor, or other structural part of the building commences.

The term does not apply to:

- a.) Any project for improvement of a building required to comply with existing health, sanitary, or safety code specifications which have been identified by the Code Enforcement Official and which are solely necessary to assure safe living conditions, or
- b.) Any alteration of a “historic structure” provided that the alteration will not preclude the structure’s continued designation as a “historic structure”, or
- c.) Any improvement to a building.

Substantial Improvement means any combination of reconstruction, alteration, or improvement to a building, taking place during the life of the building, in which the cumulative percentage of improvement equals or exceeds fifty percent of the current market value of the building. For the purposes of this definition, an improvement occurs 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. This term includes structures, which have incurred “repetitive loss” or “substantial damage”, regardless of the actual repair work done.

The term does not apply to:

- a.) any project for improvement of a building required to comply with existing health, sanitary, or safety code specifications which have been identified by the Code Enforcement Official and which are solely necessary to assure safe living conditions, or
- b.) Any alteration of a “historic structure” provided that the alteration will not preclude the structure’s continued designation as a “historic structure.” or

c.) Any building that has been damaged from any source or is categorized as repetitive loss.

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.

Suspension means the removal of a participating community from the NFIP because the community has not enacted and/or enforced the proper floodplain management regulations required for participation in the NFIP.

Variance is a grant of relief from the requirements of this ordinance, which permits construction in a manner otherwise prohibited by this ordinance where specific enforcement would result in unnecessary hardship.

Violation means the failure of a structure or other development to be fully compliant with this ordinance. A structure or other development without the elevation certificate, other certifications, or other evidence of compliance required in this ordinance is presumed to be in violation until such time as that documentation is provided.

Watercourse means a lake, river, creek, stream, wash, channel or other topographic feature on or over which waters flow at least periodically. Watercourse includes specifically designated areas in which substantial flood damage may occur.

Water surface elevation means the height, in relation to the National Geodetic Vertical Datum (NGVD) of 1929, (or other datum, where specified) of floods of various magnitudes and frequencies in the floodplains of coastal or riverine areas.

X zone means the area where the flood hazard is less than that in the SFHA. Shaded X zones shown on recent FIRMs (B zones on older FIRMs) designate areas subject to inundation by the flood with a 0.2-percent annual probability of being equaled or exceeded (the 500-year flood). Unshaded X zones (C zones on older FIRMS) designate areas where the annual exceedance probability of flooding is less than 0.2 percent.

Zone means a geographical area shown on a Flood Hazard Boundary Map or a Flood Insurance Rate Map that reflects the severity or type of flooding in the area.

SUBARTICLE 3. GENERAL PROVISIONS.

SECTION A. LANDS TO WHICH THIS ORDINANCE APPLIES.

This ordinance shall apply to all areas of special flood hazard (SFHA within the jurisdiction of the Board of Directors of the PEARL RIVER VALLEY WATER SUPPLY DISTRICT.

SECTION B. BASIS FOR ESTABLISHING THE AREAS OF SPECIAL FLOOD HAZARD.

The areas of special flood hazard identified by the Federal Emergency Management Agency in the Flood Insurance Rate Map (multiple panels) numbers 25, 50, 55, 60, 65 and 70 dated January 1, 1996 and March 2, 1993 respectively, and other supporting data are adopted by reference and declared to be a part of this ordinance. The Flood Insurance Study and / or maps are on file at the office of the Pearl River Valley Water Supply District, Permit Department.

SECTION C. ESTABLISHMENT OF FLOODPLAIN DEVELOPMENT PERMIT.

A development permit shall be required in conformance with the provision of this ordinance prior to the commencement of any development activities in the areas of special flood hazard.

SECTION D. COMPLIANCE.

No structure or land shall hereafter be located, extended, converted or structurally 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 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 consideration. Larger floods can and will occur on rare occasions.

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 {governing body} of {county or municipality} or by any officer or employee thereof for any flood damages that result from reliance on this ordinance or any administrative decision lawfully made thereunder.

SECTION H. PENALTIES 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 **\$1,000.00** or imprisoned for not more than **15** 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 Floodplain Administrator from taking such other lawful actions as is necessary to prevent or remedy any violation.

SUBARTICLE 4. ADMINISTRATION.

SECTION A. DESIGNATION OF FLOOD DAMAGE PREVENTION ORDINANCE ADMINISTRATOR.

The Board of Directors of the PEARL RIVER VALLEY WATER SUPPLY DISTRICT hereby appoints the Building Official or, in his absence, the General Manager, to administer and implement the provisions of this ordinance and is herein referred to as the Floodplain Administrator and/or the administrator.

SECTION B. PERMIT PROCEDURES.

Application for a Development Permit shall be made to the Floodplain Administrator on forms furnished by him or her prior to any development activities, and may include, but not be limited to, the following plans in duplicate drawn to scale showing the nature, location, dimensions, and elevations of the area in question; existing or proposed structures, earthen fill, storage of materials or equipment, drainage facilities, and the location of the foregoing. Specifically, the following information is required:

(1) Application Stage.

- a.) Elevation in relation to mean sea level of the proposed lowest floor (including basement) of all buildings;
- b.) Elevation in relation to mean sea level to which any non-residential building will be flood-proofed;
- c.) Certificate from a registered professional engineer or architect that the non-residential flood-proofed building will meet the floodproofing criteria in SUBARTICLE 5, Section B (2) and Section D (2);
- d.) Description of the extent to which any watercourse will be altered or relocated as result of proposed development, and;

(2) Construction Stage:

Upon placement of the lowest floor, or flood-proofing by whatever construction means, it shall be the duty of the permit holder to submit to the Floodplain Administrator a

certification of the NGVD elevation of the lowest floor or floodproofed elevation, as built, in relation to mean sea level. Said certification shall be prepared by or under the direct supervision of a registered land surveyor or professional engineer and certified by same. When floodproofing is utilized for a particular building said certification shall be prepared by or under the direct supervision of a professional engineer or architect and certified by same.

Any work undertaken prior to submission of the certification shall be at the permit holder' risk. (The Floodplain Administrator shall review the lowest floor & floodproofing elevation survey data submitted.) The permit holder immediately and prior to further progressive work being permitted to proceed shall correct deficiencies detected by such review. Failure to submit the survey or failure to make said corrections required hereby, shall be cause to issue a stop-work order for the project.

SECTION C. POWERS, DUTIES AND RESPONSIBILITIES OF THE FLOODPLAIN ADMINISTRATOR.

The Floodplain Administrator and/or staff is hereby authorized and directed to enforce the provisions of this ordinance. The administrator is further authorized to render interpretations of this ordinance, which are consistent with its spirit and purpose.

Right of Entry

- (1) Whenever necessary to make an inspection to enforce any of the provisions of this ordinance, or whenever the administrator has reasonable cause to believe that there exists in any building or upon any premises any condition or ordinance violation which makes such building, structure or premises unsafe, dangerous or hazardous, the administrator may enter such building, structure or premises at all reasonable times to inspect the same or perform any duty imposed upon the administrator by this ordinance.
- (2) If such building or premises are occupied, he shall first present proper credentials and request entry. If such building, structure, or premises are unoccupied, he shall first make a reasonable effort to locate the owner or other persons having charge or control of such request entry.
- (3) If entry is refused, the administrator shall have recourse to every remedy provided by law to secure entry.
- (4) When the administrator shall have first obtained a proper inspection warrant or other remedy provided by law to secure entry, no owner or occupant or any other persons having charge, care or control of any building, structure, or premises shall fail or neglect, after proper request is made as herein provided, to promptly permit entry therein by the administrator for the purpose of inspection and examination pursuant to this ordinance.

Stop Work Orders

- (1) Upon notice from the administrator, work on any building, structure or premises that is being done contrary to the provisions of this ordinance shall immediately cease. Such notice shall be in writing and shall be given to the owner of the property, or to his agent,

or to the person doing the work, and shall state the conditions under which work may be resumed.

Revocation of Permits

- (1) The administrator may revoke a permit or approval, issued under the provisions of this ordinance, in case there has been any false statement or misrepresentation as to the material fact in the application or plans on which the permit or approval was based.
- (2) The administrator may revoke a permit upon determination by the administrator that the construction, erection, alteration, repair, moving, demolition, installation, or replacement of the structure for which the permit was issued is in violation of, or not in conformity with, the provisions of this ordinance.

Duties of the administrator shall include, but not be limited to:

- (1) Review all development permits to assure that the permit requirements of this ordinance have been satisfied;
- (2) Advise permittee that additional federal or state permits may be required, and if specific federal or state permit requirements are known, require that copies of such permits be provided and maintained on file with the development permit.
- (3) Notify adjacent communities, the State NFIP Coordinator, and other federal and/or state agencies with statutory or regulatory authority prior to any alteration or relocation of a watercourse.
- (4) Assure that maintenance is provided within the altered or relocated portion of said watercourse so that the flood-carrying capacity is not diminished.
- (5) Verify and record the actual elevation (in relation to mean sea level) of the lowest floor (including basement) of all new or substantially improved buildings, in accordance with SUBARTICLE 4, Section B (2).
- (6) Verify and record the actual elevation (in relation to mean sea level) to which the new or substantially improved buildings have been floodproofed, in accordance with SUBARTICLE 4, Section B (2).
- (7) Review certified plans and specifications for compliance.
- (8) 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 Floodplain Administrator shall make the necessary interpretation. The person contesting the location of the boundary shall be given a reasonable opportunity to appeal the interpretation as provided in this SUBARTICLE.

- (9) When base flood elevation data or floodway data have not been provided in accordance with SUBARTICLE 3, Section B, then the Floodplain Administrator shall obtain, review and reasonably utilize any base flood elevation and floodway data available from a federal, state or other source, in order to administer the provisions of SUBARTICLE 5.
- (10) Provide information, testimony, or other evidence, as needed during variance request hearings.
- (11) When damage occurs to a building or buildings, the following actions shall be conducted:
 - a.) Determine whether damaged structures are located within the Special Flood Hazard Area;
 - b.) Conduct damage assessments for those damaged structures located in the SFHA, and;
 - c.) Make a reasonable attempt to notify owner(s) of damaged structure(s) of the requirement to obtain a building permit / floodplain development permit prior to repair, rehabilitation, or reconstruction.

SUBARTICLE 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 shall be anchored to prevent flotation, collapse or lateral movement of the structure;
- (2) 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;
- (3) New construction and substantial improvements shall be constructed with materials and utility equipment resistant to flood damage;
- (4) New construction or substantial improvements shall be constructed by methods and practices that minimize flood damage;
- (5) Electrical, heating, ventilation, plumbing, air conditioning equipment 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, such facilities shall be located a minimum of One Foot above the Base Flood Elevation;
- (6) New and replacement water supply systems shall be designed to minimize or eliminate infiltration of flood waters into the system;

- (7) 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;
- (8) On-site waste disposal systems shall be located and constructed to avoid impairment to them or contamination from them during flooding;
- (9) Any alteration, repair, reconstruction or improvements to a building that is in compliance with the provisions of this ordinance shall meet the requirements of “new construction” as contained in this ordinance; and,
- (10) Any alteration, repair, reconstruction or improvements to a building that is not in compliance with the provisions of this ordinance, shall be undertaken only if said non-conformity is not furthered, extended, or replaced.
- (11) New construction and substantial improvement of any building shall have the lowest floor (including basement) at least one foot above the centerline of the designated street, unless the topography of the property does not allow for strict adherence as determined by the Floodplain Administrator.
- (12) New construction and substantial improvements built on fill shall be constructed on the properly designed and compacted fill that extends beyond the building walls before dropping below the base flood elevation, and shall have appropriate protection from erosion and scour. *

SECTION B. SPECIFIC STANDARDS.

In all areas of special flood hazard where base flood elevation data have been provided, as set forth in SUBARTICLE 3, Section B, the following provisions are required:

- (1) Residential Construction. New construction or substantial improvement of any residential building (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 floodwaters shall be provided in accordance with standards of SUBARTICLE 5, Section B (3).
- (2) Non-Residential Construction. New construction or substantial improvement of any commercial, industrial, or non-residential building (or manufactured home) shall have the lowest floor, including basement, elevated to no lower than One foot above the level of the base flood elevation. Buildings located in all A-Zones may be flood-proofed in lieu of being elevated provided that all areas of the building below the BFE (plus any community free board) elevation are water tight with walls substantially impermeable to the passage of water, and use structural components having the capability of resisting hydrostatic and hydrodynamic loads and the effect of buoyancy. A registered professional engineer or architect shall certify that the standards of this subsection are satisfied. Such certification shall be provided to the official as set forth in SUBARTICLE 4, Section C (9).

- (3) Elevated Buildings. New construction or substantial improvements of elevated buildings that include fully enclosed areas formed by foundation and other exterior walls below the base flood elevations shall be designed to preclude finished living space and designed to allow for the entry and exit of floodwaters to automatically equalize hydrostatic flood forces on exterior walls.
- a.) Designs for complying with this requirement must either be certified by a 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 foundation interior grade (which must be equal to in elevation or higher than the exterior foundation grade);
 - (iii) Openings may be equipped with screens, louvers, valves or other coverings or devices provided they permit the automatic flow of floodwaters in both directions;
 - (iv) Limited to less than 300 square feet; and,
 - (v) Limited in use to parking, storage and building access.
- b.) Access to the enclosed area shall be minimum necessary to allow for parking of vehicles (garage door) or limited storage of maintenance equipment used in connection with the premises (standard exterior door) or entry to the living area (stairway or elevator); and
- c.) The interior portion of such enclosed area shall not be partitioned or finished into separate rooms.
- (4) Detached storage buildings, shed, or other like accessory improvements, excluding detached garages, carports, and boat houses used primarily for parking and storage of vehicles, will be allowed up to no more than 100 square feet of unfinished, non-partitioned and enclosed storage space. Such storage space shall not be used for human habitation and shall be limited to storage of items that can withstand exposure to the elements and have low flood damage potential. The storage space shall be constructed of flood resistant or breakaway materials, and equipment and service utilities, such as electrical outlets, shall be limited to essential lighting and other incidental uses, and must be elevated or floodproofed. Openings to preclude hydrostatic loading and allow ventilation as provided in Section B. 3. shall also be required. These accessory structures shall be constructed and placed on the building site so as to offer the minimum resistance to the flow of floodwaters.
- (5) Accessory improvements and other apparent structures shall be firmly anchored to prevent flotation that may result in damage to other structures.

(6) Standards for Manufactured Homes and Recreational Vehicles.

- a.) All manufactured homes placed, or substantially improved, on individual lots or parcels, in existing manufactured home parks or subdivisions, in expansions to existing manufactured home parks or subdivisions, in new manufactured home parks or subdivisions or in substantially improved manufactured home parks or subdivisions, must meet all the requirements for new construction, including elevation and anchoring.

Manufactured homes must be:

- (i) Elevated on a permanent foundation, and
- (ii) Have its lowest frame member elevated no lower than one foot above the level of the base flood elevation, and
- (iii) Be securely anchored to an adequately anchored foundation system to resist flotation, collapse and lateral movement.

- b.) All recreational vehicles placed on sites must either:

- (i) Be on site for fewer than 180 consecutive days, or
- (ii) Be fully licensed and ready for highway use, or
- (iii) Must meet all the requirements for new construction, including anchoring and elevation requirements of SUBARTICLE 5, Section B (4)(a) or (b) (i) and (iii), above.

A recreational vehicle is ready for highway use if it is licensed and insured in accordance with the State of Mississippi motor vehicle regulations, is on its wheels or jacking system, is attached to the site only by quick disconnect type utilities and security devices and has no permanently attached additions. All recreational vehicles, which are not self-propelled, must comply with FEMA Technical Bulletin "Guidelines for the Placement of Temporary Structures in Special Flood Hazard Areas."

- d.) All above ground gas or liquid storage tanks shall be anchored to prevent flotation or lateral movement.

(7) Floodways. Located within areas of special flood hazard established in SUBARTICLE 3, Section B, are areas designated as floodways. Since the floodway is an extremely hazardous area due to the velocity of flood waters which carry debris, potential projectiles and has erosion potential, the following provisions shall apply:

- a.) Prohibit encroachments, including fill, new construction, substantial improvements and other developments unless certification (with supporting technical data) by a registered professional engineer is provided demonstrating that encroachments shall not result in any increase in flood levels during occurrence of the base flood discharge;

- b.) If SUBARTICLE 5, Section B (5)(a) is satisfied, all new construction and substantial improvements shall comply with all applicable flood hazard reduction provisions of SUBARTICLE 5.
- c.) Prohibit the placement of manufactured homes (mobile homes), except in an existing manufactured homes (mobile homes) park or subdivision. A replacement manufactured home may be placed on a lot in an existing manufactured home park or subdivision provided the anchoring standards of SUBARTICLE 5, Section A (2), and the elevation standards of SUBARTICLE 5, Section B (1) and the encroachment standards of SUBARTICLE 5, Section B (5) (a), are met.

SECTION C. RESERVED FOR FUTURE USE.

SECTION D. STANDARDS FOR SHALLOW FLOODING ZONES.

Located within the areas of special flood hazard established in SUBARTICLE 3, Section B, are areas designated as shallow flooding areas. These areas have flood hazards associated with base flood depths of one to three feet (1 – 3'), where a clearly defined channel does not exist and the water path of flooding is unpredictable and indeterminate; therefore, the following provisions apply:

- (1) All new construction and substantial improvements of residential structures shall:

Have the lowest floor, including basement, elevated to or above either the base flood elevation or in Zone AO the flood depth specified on the Flood Insurance Rate Map, above the highest adjacent grade. In Zone AO, if no flood depth is specified, the lowest floor, including basement, shall be elevated no less than two (2) feet above the highest adjacent grade with an additional freeboard of at least 1 foot.

- (2) All new construction and substantial improvements of non-residential structures shall:

- a.) Have the lowest floor, including basement, elevated to or above either the base flood elevation or in Zone AO the flood depth specified on the Flood Insurance Rate Map, above the highest adjacent grade. In Zone AO, if no flood depth is specified, the lowest floor, including basement, shall be elevated no less than two (2) feet above the highest adjacent grade with an additional freeboard of at least 1 foot.)
- b.) Together with attendant utility and sanitary facilities be completely floodproofed either to the base flood elevation or above or, in Zone AO, to or above the specified flood depth plus a minimum of one foot so that any space below that level is watertight with walls substantially impermeable to the passage of water and with structural components having the capability of resisting hydrostatic and hydrodynamic loads and effects of buoyancy. Certification is required as stated in SUBARTICLE 5, Section B (2).

SECTION E. RESERVED FOR FUTURE USE.

SECTION F. STANDARDS FOR SUBDIVISION PROPOSALS.

- (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 all new subdivision proposals and other proposed development (including manufactured home parks and subdivisions), which is greater than five lots or five acres, whichever is the lesser.
- (5) Where only a small portion of the subdivision lot or lots is in a designated Zone A Special Flood Hazard Area inundated by 100-year flood with no base flood elevations determined and there is sufficient ground slope on the site to avoid possible flooding of structures in Zone X areas determined to be outside 500 year floodplain, the Floodplain Administrator may waive the requirement for a study to determine the base flood elevations.
- (6) In order for the Floodplain Administrator to consider waiving the requirement of Section E (4) the applicant must provide an accurate topographic data and map for the lot or lots in question certified by a licensed land surveyor and/or professional civil engineer indicating sufficient detail to allow a thorough review by the Floodplain Administrator.
- (7) Each proposed parcel must have a designated buildable pad or site above the 100-year flood plain. The distance of the buildable pad or site above the 100- year flood plain shall depend on the slope of the ground and in accordance with the following table:

Distance in feet from Zone A 100 year floodplain	Minimum Slope from Zone A – 100 year flood plain to ground level at pad
20	5%
30	3.33%
40	2.50%
50	2.0%
60	1.67%
70	1.43%
80	1.25%
90	1.11%
100	1.0%

Residential or non-residential structures lowest floor elevation also must be elevated 1.5 feet above the ground level on the buildable pad or site.

- (8) If a waiver is granted for Section E (4) the subdivider/applicant must comply with the following:

- a.) File restrictive covenants on the lot or lots prohibiting construction within the designated special flood hazard area inundated by the 100-year flood and requirement for elevated lowest floor elevation.
 - b.) Place a statement on the face of the plat prohibiting construction in the designated area of special flood hazard inundated by the 100-year flood.
- (9) Notice must be sent to the State NFIP Coordinator indicating that a waiver has been granted for Section E (4) providing written details of the waiver for any waiver granted by the Floodplain Administrator.

SECTION G. RESERVED FOR FUTURE USE.

SECTION H. CRITICAL FACILITIES.

Construction of new or substantially improved critical facilities shall be, to the extent possible, located outside the limits of the special flood hazard area (SFHA) (100-year floodplain). Construction of new critical facilities shall be permissible within the SFHA if no feasible alternative site is available. Critical facilities constructed within the SFHA shall have the lowest floor elevated three feet (approximate 500-year floodplain) or more above the level of the base flood elevation at the site. Floodproofing and sealing measures must be taken to ensure that toxic substances will not be displaced by or released into floodwaters. Access routes elevated to or above the level of the base flood elevation shall be provided to all critical facilities to the extent possible.

SUBARTICLE 6. VARIANCE PROCEDURES.

SECTION A. DESIGNATION OF VARIANCE AND APPEALS BOARD.

The Board of Directors of the PEARL RIVER VALLEY WATER SUPPLY DISTRICT shall hear and decide appeals and requests for variances from requirements of this ordinance.

SECTION B. DUTIES OF VARIANCE AND APPEALS BOARD.

The board shall hear and decide appeals when it is alleged an error in any requirement, decision, or determination is made by the Floodplain Administrator in the enforcement or administration of this ordinance. Any person aggrieved by the decision of the board may appeal such decision to a court of competent jurisdiction within the county in which the affected property is located.

SECTION C. VARIANCE PROCEDURES.

In passing upon such applications, the Board of Directors shall consider all technical evaluations, all relevant factors, standards specified in other sections of this ordinance, and:

- (1) The danger that materials may be swept onto other lands to the injury of others;
- (2) The danger of 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 necessity to the facility of a waterfront location, where applicable;
- (6) The availability of alternative locations for the proposed use which are not subject to flooding or erosion damage;
- (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 of transport of the flood waters and the effects of wave action, if applicable, expected at the site; and,
- (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.
- (12) Upon consideration of factors listed above, and the purpose of this ordinance, the Board of Directors may attach such conditions to the granting of variances as it deems necessary to further the purposes of this ordinance.
- (13) Variances shall not be issued within any designated floodway if any increase in flood levels during the base flood discharge would result. *

SECTION D. CONDITIONS FOR VARIANCES.

- (1) Variances shall only be issued when there is:
 - a.) A showing of good and sufficient cause;
 - b.) A determination that failure to grant the variance would result in exceptional hardship; and,
 - c.) A determination that the granting of a variance will not result in increased flood heights, additional threats to public expense, create nuisance, cause fraud on or victimization of the public, or conflict with existing local laws or ordinances.
- (2) 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 to which the lowest floor is to be built and stating that the cost of flood insurance will be commensurate with the increased risk resulting from the reduced lowest floor elevation. (See SUBARTICLE 6, Section E.)
- (4) The Floodplain Administrator shall maintain the records of all appeal actions and report any variances to the Federal Emergency Management Agency or Mississippi Emergency Management Agency upon request. (See Section E.)

SECTION E. VARIANCE NOTIFICATION.

Any applicant to whom a variance is granted shall be given written notice over the signature of a community official that:

- (1) The issuance of a variance to construct a structure below the base flood elevation will result in increased premium rates for flood insurance up to amounts as high as \$25 for \$100 of insurance coverage, and;
- (2) Such construction below the base flood level increases risks to life and property. A copy of the notice shall be recorded by the Floodplain Administrator in the Office of the Chancery Clerk and shall be recorded in a manner so that it appears in the chain of title of the affected parcel of land.

The Floodplain Administrator will maintain a record of all variance actions, including justification for their issuance, and report such variances issued in the community's biennial report submission to the Federal Emergency Management Agency.

SECTION F. HISTORIC STRUCTURES.

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.

SECTION G. SPECIAL CONDITIONS.

Upon consideration of the factors listed in SUBARTICLE 6, and the purposes of this ordinance, the Board of Directors may attach such conditions to the granting of variances, as it deems necessary to further the purposes of this ordinance.

SECTION H. FLOODWAY. *

Variances shall not be issued by a community within any designated regulatory floodway if any increase in flood levels during the base flood discharge would result.

SUBARTICLE 7. SEVERABILITY.

If any section, clause, sentence, or phrase of the Ordinance is held to be invalid or unconstitutional by any court of competent jurisdiction, then said holding shall in no way effect the validity of the remaining portions of this Ordinance.

ARTICLE 6
FLOOD DAMAGE PREVENTION ORDINANCE

TABLE OF CONTENTS

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

Section A.	Statutory Authorization	3
Section B.	Findings of Fact	3
Section C.	Statement of Purpose	3
Section D.	Objectives	4
Section E.	Methods of Reducing Flood Losses	4

SUBARTICLE 2. DEFINITIONS 4

SUBARTICLE 3. GENERAL PROVISIONS

Section A.	Lands to Which This Ordinance Applies	15
Section B.	Basis for Establishing the Areas of Special Flood Hazard	15
Section C.	Establishment of Floodplain Development Permit	16
Section D.	Compliance	16
Section E.	Abrogation and Greater Restrictions	16
Section F.	Interprétation	16
Section G.	Warning and Disclaimer of Liability	16
Section H.	Penalties for Violation	16

SUBARTICLE 4. ADMINISTRATION

Section A.	Designation of Flood Damage Prevention Ordinance Administrator	17
Section B.	Permit Procedures	17
Section C.	Powers, Duties and Responsibilities of the Floodplain Administrator	18

SUBARTICLE 5. PROVISIONS FOR FLOOD HAZARD REDUCTION

Section A.	General Standards	20
Section B.	Specific Standards	21
Section D.	Standards for Shallow Flooding Zones	24
Section E.	Standards for Subdivision Proposals	24
Section H.	Critical Facilities	26

SUBARTICLE 6. VARIANCE PROCEDURES

Section A.	Designation of Variance and Appeals Board	26
Section B.	Duties of Variance and Appeals Board	26
Section C.	Variance Procedures	26

<u>Section D.</u>	<u>Conditions for Variances</u>	<u>27</u>
<u>Section E.</u>	<u>Variance Notification</u>	<u>28</u>
<u>Section F.</u>	<u>Historic Structures</u>	<u>28</u>
<u>Section G.</u>	<u>Special Conditions</u>	<u>28</u>
<u>Section H.</u>	<u>Floodway</u>	<u>28</u>
<u>SUBARTICLE 7.</u>	<u>SEVERABILITY</u>	<u>28</u>

FLOOD DAMAGE PREVENTION ORDINANCE

SUBARTICLE 1. STATUTORY AUTHORIZATION, FINDINGS OF FACT, PURPOSE AND OBJECTIVES.

SECTION A. STATUTORY AUTHORIZATION.

The Legislature of the State of Mississippi has in Title 17, Chapter 1, Mississippi Code ~~of 1972,~~ 1972 Annotated delegated the responsibility to local ~~governmental~~government units to adopt regulations designed to promote the public health, safety, and general welfare of its citizenry. ~~The legislature of the State of Mississippi has in Sections 51-9-101 through 51-9-163 of the Mississippi Code of 1972 delegated specifically to the Pearl River Valley Water Supply District the authority to adopt regulations designed to promote the public health, safety and general welfare of the residents within District Properties.~~ Therefore, the Board of Directors of the ~~Pearl River Valley Water Supply District does ordain as follows:~~ PEARL RIVER VALLEY WATER SUPPLY DISTRICT, an agency of the State of Mississippi does hereby adopt the following floodplain management regulations.

~~1.1.1 Findings Of Fact.~~

SECTION B. FINDINGS OF FACT.

- (1) ~~(a)~~ The flood hazard areas ~~within Reservoir Project Area~~of the Pearl River Valley Water Supply District 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 protection and relief, and impairment of the tax base, all of which adversely affect the public health, safety and general welfare.
- (2) ~~(b)~~ These flood losses ~~within the Reservoir Project Area~~ are caused by the cumulative effect of obstructions in floodplains causing increases in flood heights and velocities, and by the occupancy in flood hazard areas by uses vulnerable to floods or hazardous to other lands which are inadequately elevated, flood-proofed, or otherwise unprotected from flood damages.

~~1.1.2 Statement of Purpose.~~

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 specific areas ~~within the Reservoir Project Area~~ by provisions designed to:

- (1) ~~(a)~~ ~~restrict~~Restrict or prohibit uses which are dangerous to health, safety and property due to water or erosion hazards, ~~or~~ which result in damaging increases in erosion or in flood heights ~~or~~ velocities;

- (2) ~~(b) require~~Require that uses vulnerable to floods, including facilities which serve such uses, be protected against flood damage at the time of initial construction;
- (3) ~~(c) control~~Control the alteration of natural floodplains, stream channels, and natural protective barriers which are involved in the accommodation of flood waters;
- (4) ~~(d) control~~Control filling, grading, dredging and other development which may increase erosion or flood damage, and;
- (5) ~~(e) prevent~~Prevent or regulate the construction of flood barriers which will unnaturally divert ~~flood waters~~floodwaters or which may increase flood hazards to other lands.

~~1.1.3 Objectives.~~

SECTION D. OBJECTIVES.

The objectives of this ordinance are:

1. ~~(a) to~~To protect human life and health;
2. ~~(b) to~~To minimize expenditure of public money for costly flood control projects;
3. ~~(c) to~~To minimize the need for rescue and relief efforts associated with flooding and generally undertaken at the expense of the general public;
4. ~~(d) to~~To minimize prolonged business interruptions;
5. ~~(e) to~~To minimize damage to public facilities and utilities such as water and gas mains, electric, telephone and sewer lines, street and bridges located in floodplains;
6. ~~(f) to~~To help maintain a stable tax base by providing for the sound use and development of flood prone areas in such a manner as to minimize flood blight areas~~;~~₂ and~~;~~₃
7. ~~(g) to insure~~To ensure that potential ~~home buyers~~homebuyers are notified that property is in a flood area.

~~1.2 Definitions.~~

SECTION E. METHODS OF REDUCING FLOOD LOSSES.

In order to accomplish its purposes, this ordinance includes methods and provisions for:

- (1) Restricting or prohibiting uses which are dangerous to health, safety, and property due to water or erosion hazards, or which result in damaging increases in erosion or in flood heights or velocities;
- (2) Requiring that uses vulnerable to floods, including facilities which serve such uses, be protected against flood damage at the time of initial construction;

- (3) Controlling the alteration of natural floodplains, stream channels, and natural protective barriers, which help accommodate or channel flood waters;
- (4) Controlling filling, grading, dredging, and other development which may increase flood damage; and,
- (5) Preventing or regulating the construction of flood barriers that will unnaturally divert floodwaters or may increase flood hazards in other areas.

SUBARTICLE 2. DEFINITIONS.

Unless specifically defined below, words or ~~phases~~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.

A Zone means portions of the SFHA in which the principle source of flooding is runoff from rainfall, snowmelt, or a combination of both. In A zones, floodwaters may move slowly or rapidly, but waves are usually not a significant threat to buildings. Areas of 100-year flood, base flood elevations and flood hazard factors not determined.

A1 – A30 and AE zone is the Special Flood Hazard Area inundated by the 100-year flood, base flood elevations are determined.

Accessory structure (Appurtenant structure) means a structure, which is located on the same parcel of property as the principle structure and the use of which is incidental to the use of the principle structure. Accessory structures should constitute a minimal initial investment, may not be used for human habitation, and be designed to have minimal flood damage potential. Examples of accessory structures are detached garages, carports, storage sheds, pole barns, and hay sheds.

"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~~firewall. Any walled and roofed addition, which is connected by a ~~fire-wall~~firewall or is separated by independent perimeter load-bearing walls, is new construction.

"Appeal" means a request for a review of the ~~General Manager~~floodplain administrator's interpretation of any provision of this ordinance or a request for a variance.

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

AR/A1 – A30, AR/AE, AR/AH, AR/AO, and AR/A zones are SFHAs that result from the decertification of a previously accredited flood protection system that is in the process of being restored to provide a 100-year or greater level of flood protection. After restoration is complete, these areas will still experience residual flooding from other flooding sources.

A99 zone is that part of the SFHA 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.

"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.

B and X zones (shaded) are 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.

"Base flood" means the flood having a one percent chance of being equaled or exceeded in any given year (also called the "100-year flood").

Base Flood Elevation (BFE) is the elevation shown on the [Flood Insurance Rate Map \(FIRM\)](#) for Zones AE, AH, A1-30, AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO, V1-V30, and VE that indicates the water surface elevation resulting from a flood that has a 1-percent or greater chance of being equaled or exceeded in any given year.

"Basement" means that portion of a building having its floor ~~subgrade~~[sub-grade](#) (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.~~

Building see [Structure](#).

C and X (unshaded) zones are areas determined to be outside the 500-year floodplain.

Community is a political entity that has the authority to adopt and enforce floodplain ordinances for the area under its jurisdiction.

Community Rating System (CRS) is a program developed by the Federal Insurance Administration to provide incentives for those communities in the Regular Program that have gone beyond the minimum floodplain management requirements to develop extra measures to provide protection from flooding.

Critical facility means a facility for which even a slight chance of flooding might be too great. Critical facilities include, but are not limited to schools, nursing homes, hospitals, police, fire and emergency response installations, installations which produce, use or store hazardous materials or hazardous waste.

D zone is an area in which the flood hazard is undetermined.

Dam is any artificial barrier, including appurtenant works, constructed to impound or divert water, waste-water, liquid borne materials, or solids that may flow if saturated. All structures necessary to maintain the water level in an impoundment or to divert a stream from its course will be considered one dam.

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, excavating, drilling operations, or ~~permanent~~ storage of materials or equipment.

~~"District Properties" or "District Property" means land owned by the District regardless of whether such land has been leased to third parties.~~

Elevated building means a non-basement building built to have the lowest floor elevated above the ground level by means of fill, solid foundation perimeter walls, pilings, columns (posts and piers), shear walls, or breakaway walls.

Elevation Certificate is a certified statement that verifies a building's elevation information.

Emergency Program means the first phase under which a community participates in the NFIP. It is intended to provide a first layer amount of insurance at subsidized rates on all insurable buildings in that community before the effective date of the initial FIRM.

Enclosure Below the Lowest Floor see "Lowest Floor."

Encroachment means the advance or infringement of uses, plant growth, fill, excavation, buildings, permanent structures or development into a floodplain, which may impede or alter the flow capacity of a floodplain.

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.

~~"Existing Construction" means~~ any structure for which the ~~"start of construction" commenced before March 2, 1993.~~"start of construction" commenced before October 18, 1974 for areas within Hinds County, August 11, 1978 for areas within Madison County, May 20, 1977 for areas within Leake County, June 17, 1977 for areas within Scott County, and December 13, 1974 for areas within Rankin County.

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 either final site grading or the pouring of concrete pads) is completed before ~~March 2, 1993.~~the effective date of the floodplain management regulations adopted by a community before October 18, 1974 for areas within Hinds County, August 11, 1978 for areas within Madison County, May 20, 1977 for areas within Leake County, June 17, 1977 for areas within Scott County, and December 13, 1974 for areas within Rankin County.

"Expansion to an existing manufactured home park or subdivision" means the preparation of additional sites by the ~~consideration~~ 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).

Fill means a deposit of earth material placed by artificial means.

Five-Hundred Year Flood means the flood that has a 0.2 percent chance of being equaled or exceeded in any year. Areas subject to the 500-year flood have a moderate to low risk of flooding.

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

a.) ~~(a) the~~ The overflow of inland or tidal waters;

a.) ~~(b) the~~ The unusual and rapid accumulation ~~of~~ or runoff of surface waters from any source.

Flood Boundary and Floodway Map (FBFM) means the official map on which the Federal Emergency Management Agency (FEMA) or Federal Insurance Administration (FIA) has delineated the areas of flood hazards and regulatory floodway.

"Flood Hazard Boundary Map (FHBM)" means an official map of a community, issued by ~~the Federal Emergency Management Agency~~ FEMA, where the boundaries of the areas of special flood hazard have been ~~defined~~ identified as Zone A.

"Flood Insurance Rate Map (FIRM)" means an official map of a community, on which ~~the Federal Emergency Management Agency~~ FEMA has delineated both the areas of special flood hazard and the risk premium zones applicable to the community.

"Flood Insurance Study" (FIS) is the official hydraulic & hydrologic report provided by ~~the Federal Emergency Management Agency~~ FEMA. The report contains flood profiles, as well as the ~~Flood Boundary Floodway Map~~ FIRM, FHBM (where applicable) and the water surface elevation of the base flood.

Floodplain means any land area susceptible to being inundated by flood waters from any source.

Floodplain management means the operation of an overall program of corrective and preventive measures for reducing flood damage and preserving and enhancing, where possible, natural resources in the floodplain, including but not limited to emergency preparedness plans, flood control works, floodplain management regulations, and open space plans.

Floodplain Administrator is the individual appointed to administer and enforce the floodplain management regulations.

Floodplain management regulations means this ordinance and other zoning ordinances, subdivision regulations, building codes, health regulations, special purpose ordinances, and other applications of police power which control development in flood-prone areas. This term

describes federal, state or local regulations in any combination thereof, which provide standards for preventing and reducing flood loss and damage.

Floodproofing Certificate is a form used to certify compliance for non-residential structures as an alternative to elevating buildings to or above the BFE.

"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 one foot.

~~"Floor" means the top surface of an enclosed area in a building (including basement), i.e., top of slab in concrete slab construction or top of wood flooring in wood frame construction. The term does not include the floor of a garage used solely for parking vehicles.~~

Floodway fringe means that area of the floodplain on either side of the regulatory floodway where encroachment may be permitted without additional hydraulic and/or hydrologic analysis.

Freeboard means a factor of safety, usually expressed in feet above the BFE, which is applied for the purposes of floodplain management. It is used to compensate for the many unknown factors that could contribute to flood heights greater than those calculated for the base flood.

"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, ship repair, or seafood processing facilities. The term does not include long-term storage, manufacture, sales, or service facilities.

Hardship (as related to variances of this ordinance) means the exceptional hardship that would result from a failure to grant the requested variance. The Board of Directors requires that the variance is exceptional, unusual, and peculiar to the property involved. Mere economic or financial hardship alone is NOT exceptional. Inconvenience, aesthetic considerations, physical handicaps, personal preferences, or the disapproval of one's neighbors likewise cannot, as a rule, qualify as an exceptional hardship. All of these problems can be resolved through other means without granting a variance, even if the alternative is more expensive, or requires the property owner to build elsewhere or put the parcel to a different use than originally intended.

Hazard potential means the possible adverse incremental consequences that result from the release of water or stored contents due to failure of a dam or mis-operation of a dam or appurtenances. The hazard potential classification of a dam does not reflect in any way on the current condition of a dam and its appurtenant structures (e.g., safety, structural integrity, flood routing capacity).

High hazard dam means a class of dam in which failure may cause loss of life, serious damage to residential, industrial, or commercial buildings; or damage to, or disruption of, important public utilities or transportation facilities such as major highways or railroads. Dams which meet the statutory thresholds for regulation that are proposed for construction in established or proposed residential, commercial, or industrial areas will be assigned this classification, unless the applicant provides convincing evidence to the contrary. A development permit is required for a building and associated fill downstream from a dam at any location where flooding can be

reasonably anticipated from principal or emergency spillway discharges, or from overtopping and failure of the dam. The dam at the Ross Barnett Reservoir spillway is a “high hazard dam” for purposes of this ordinance.

“Highest adjacent grade” means the highest natural elevation of the ground surface, prior to construction, next to the proposed walls of a building.

“Historic Structure” means any structure that is:

- a.) ~~(1)~~ Listed individually in the National Register of Historic Places (a listing maintained by the Department of Interior) or preliminarily determined by the ~~Secondary~~ Secretary of the Interior as meeting the requirements for individual listing on the National Register;
- a.) ~~(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;
- c.) ~~(3)~~ Individually listed on a state inventory of historic places in states with historic preservation programs which have been approved by the Secretary of the Interior; or
- d.) ~~(4)~~ Individually listed on a local inventory ~~of~~ historic places in communities with historic preservation programs that have been certified either:
 - 1. ~~a.~~ —By an approved state program as determined by the Secretary of the Interior, or
 - 2. ~~b.~~ —Directly by the Secretary of the Interior in states without approved programs.

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

Increased Cost of Compliance (ICC) means the cost to repair a substantially damaged building that exceeds the minimal repair cost and that is required to bring a substantially damaged building into compliance with the local flood damage prevention ordinance. Acceptable mitigation measures are elevation, relocation, demolition, or any combination thereof. All renewal and new business policies with effective dates on or after June 1, 1997, will include ICC coverage.

Letter of Map Change (LOMC) 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 SFHA. A LOMA amends the current effective FIRM and establishes that a specific property is not located in a SFHA.

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 LORM, a LOMR-F, is a determination concerning whether a structure or parcel has been elevated by fill above the BFE and is, therefore, excluded from the SFHA.

Conditional Letter of Map Revision (CLOMR)

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

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.

Levee system means a flood protection system which consists of a levee, or levees, and associated structures, such as closure and drainage devices, which are constructed and operated in accordance with sound engineering practices. For a levee system to be recognized, the following criteria must be met. All closure devices or mechanical systems for internal drainage, whether manual or automatic, must be operated in accordance with an officially adopted operation manual (a copy of which must be provided to FEMA by the operator when levee or drainage system recognition is being sought or revised). All operations must be under the jurisdiction of a Federal or State agency, an agency created by Federal or State law, or an agency of a community participating in the NFIP.

Low hazard dam means a class of dam in which failure would at the most result in damage to agricultural land, farm buildings (excluding residences), or minor roads.

Lowest adjacent grade means the elevation of the sidewalk, patio, deck support, or basement entryway immediately next to the structure and after the completion of construction. It does not include earth that is emplaced for aesthetic or landscape reasons around a foundation wall. It does include natural ground or properly compacted fill that comprises a component of a building's foundation system.

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 the non-elevation provisions of this code.

"Manufactured home" means a ~~building~~structure, transportable in one or more sections, which is built on a permanent chassis and designed to be used with or without a permanent foundation when ~~connected~~attached 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.~~manufactured home does not include a "recreational vehicle."

Manufactured home park or subdivision means a parcel (or contiguous parcels) of land divided into two or more manufactured home lots for rent or sale.

Map Panel Number is the four-digit number followed by a letter suffix assigned by FEMA on a flood map. The first four digits represent the map panel, and the letter suffix represents the number of times the map panel has been revised.

Map Amendment means a change to an effective NFIP map that results in the exclusion from the SFHA or an individual structure or a legally described parcel of land that has been inadvertently included in the SFHA (i.e., no alterations of topography have occurred since the date of the first NFIP map that showed the structure or parcel to be within the SFHA).

Market value means the building value, excluding the land (as agreed between a willing buyer and seller), as established by what the local real estate market will bear. Market value can be established by independent certified appraisal, replacement cost depreciated by age of building (Actual Cash Value) or adjusted assessed values.

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).

Mitigation means sustained actions taken to reduce or eliminate long-term risk to people and property from hazards and their effects. The purpose of mitigation is twofold: to protect people and structures, and to minimize the costs of disaster response and recovery.

National Flood Insurance Program (NFIP) is the federal program that makes flood insurance available to owners of property in participating communities nationwide through the cooperative efforts of the Federal Government and the private insurance industry.

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~~structures for which the "start of construction" ~~commenced after March 2, 1993.~~ ~~The term also~~ commenced on or after the effective date of a floodplain management regulation adopted by a community and includes any subsequent improvements to such ~~structure~~structures.

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 ~~March 2, 1993.~~the effective date of floodplain regulations adopted by a community.

Non-Residential means, but is not limited to; small business concerns, churches, schools, farm buildings (including grain bins and silos), poolhouses, clubhouses, recreational buildings, mercantile structures, agricultural and industrial structures, warehouses, and hotels or motels with normal room rentals for less than 6 months duration.

Obstruction includes, but is not limited to, any dam, wall, wharf, embankment, levee, dike, pile, abutment, protection, excavation, channelization, bridge, conduit, culvert, building, wire, fence, rock, gravel, refuse, fill, structure, vegetation or other material in, along, across or projecting into any watercourse which may alter, impede, retard or change the direction and/or velocity of the flow of water, or due to its location, its propensity to snare or collect debris carried by the flow of water, or its likelihood of being carried downstream.

One-Hundred Year Flood (100-Year Flood) is the flood that has a 1-percent or greater chance of being equaled or exceeded in any given year. Any flood zone that begins with the letter A or V is subject to the 100-year flood. Over the life of a 30-year loan, there is a 26-percent chance of experiencing such a flood with the SFHA.

Participating Community is any community that voluntarily elects to participate in the NFIP by adopting and enforcing floodplain management regulations that are consistent with the standards of the NFIP.

Post-FIRM Construction means construction or substantial improvement that started on or after the effective date of the initial FIRM of the community or after December 31, 1974, whichever is later.

Pre-FIRM Construction means construction or substantial improvement, which started on or before December 31, 1974, or before the effective date of the initial FIRM of the community, whichever is later.

Probation a means of formally notifying participating communities of violations and deficiencies in the administration and enforcement of the local floodplain management regulations.

Public safety and nuisance. anything which is injurious to safety or health of an entire community or neighborhood, or any considerable number of persons, or unlawfully obstructs the free passage or use, in the customary manner, of any navigable lake, or river, bay, stream, canal, or basin.

"Recreational vehicle" means a vehicle ~~which~~that is:

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

Regular Program means the phase of the community's participation in the NFIP where more comprehensive floodplain management requirements are imposed and higher amounts of insurance are available based upon risk zones and elevations determined in a FIS.

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 one foot.

Repair means the reconstruction or renewal of any part of an existing building.

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, equals or exceeds twenty-five percent of the market value of the structure before the damage occurred.

Section 1316 is that section of the National Flood Insurance Act of 1968, as amended, which states that no new flood insurance coverage shall be provided for any property that the Administrator finds has been declared by a duly constituted state or local zoning authority or other authorized public body to be in violation of state or local laws, regulations, or ordinances that are intended to discourage or otherwise restrict land development or occupancy in flood-prone areas.

Significant hazard dam means a dam assigned the significant hazard potential classification where failure may cause damage to main roads, minor railroads, or cause interruption of use, or service of relatively important public utilities.

Special flood hazard area (SFHA) means that portion of the floodplain subject to inundation by the base flood and/or flood-related erosion hazards as shown on a FHBM or FIRM as Zone A, AE, A1 – A30, AH, AO, AR, V, VE, or V1-V30.

"Start of construction" (for other than new construction or substantial improvements under the Coastal Barrier Resources Act (P. L. 97-438)348), includes substantial improvement, and means the date the building 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 a building (including a manufactured home) on a site, such as the pouring of slabs or footings, installation ~~or~~of piles, 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 building. 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, or other man-made facilities or infrastructures.~~**Structure** means all walled and roofed buildings, including gas or liquid storage tanks and manufactured homes that are principally above ground.

Subdivision means any division, for the purposes of sale, lease, or development, either on the installment plan or upon any and all other plans, terms and conditions, of any tract or parcel of land into two (2) or more lots or parcels.

Subrogation means an action brought by FEMA when flood damages have occurred, flood insurance has been paid, and all or part of the damage can be attributed to acts or omissions by a community or other third party.

~~"Substantial damage"~~**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 ~~immediately~~ before the damage occurred. The term includes Repetitive Loss buildings (see definition).

For the purposes of this definition, "repair" is considered to occur when the first repair or reconstruction of any wall, ceiling, floor, or other structural part of the building commences.

The term does not apply to:

- a.) Any project for improvement of a building required to comply with existing health, sanitary, or safety code specifications which have been identified by the Code Enforcement Official and which are solely necessary to assure safe living conditions, or
- b.) Any alteration of a "historic structure" provided that the alteration will not preclude the structure's continued designation as a "historic structure", or
- c.) Any improvement to a building.

~~"Substantial improvement"~~**Improvement** means any combination of ~~repairs~~, reconstruction, alteration, or ~~improvements~~improvement to a building, taking place during the life of ~~a~~the building, in which the cumulative ~~cost~~percentage of improvement equals or exceeds fifty percent of the current market value of the building. ~~The market value of the building should be (1) the appraised value of the building immediately prior to the start of the initial repair or improvement, or (2) in the case of damage, the value of the building immediately prior to the damage occurring. This term includes structures which have incurred "substantial damage", regardless of the actual repair work performed.~~ For the purposes of this definition, ~~"substantial an~~improvement" ~~is considered to occur~~ occurs 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 any project for improvement of a building required to comply with existing health, sanitary, or safety code specifications which have been identified by the Code Enforcement Official and which are solely necessary to assure safe living conditions.~~ This term includes structures, which have incurred "repetitive loss" or "substantial damage", regardless of the actual repair work done.

The term does not apply to:

- a.) any project for improvement of a building required to comply with existing health, sanitary, or safety code specifications which have been identified by the Code Enforcement Official and which are solely necessary to assure safe living conditions, or

b.) Any alteration of a “historic structure” provided that the alteration will not preclude the structure’s continued designation as a “historic structure.” or

c.) Any building that has been damaged from any source or is categorized as repetitive loss.

“Substantially improved existing manufactured home parks or ~~subdivision~~ 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.

Suspension means the removal of a participating community from the NFIP because the community has not enacted and/or enforced the proper floodplain management regulations required for participation in the NFIP.

“Variance” is a grant of relief from the requirements of this ordinance, which permits construction in a manner otherwise prohibited by this ordinance where specific enforcement would result in unnecessary hardship.

~~1.3 — General Provisions.~~

~~1.3.1 — Lands To Which This Ordinance Applies.~~

Violation means the failure of a structure or other development to be fully compliant with this ordinance. A structure or other development without the elevation certificate, other certifications, or other evidence of compliance required in this ordinance is presumed to be in violation until such time as that documentation is provided.

Watercourse means a lake, river, creek, stream, wash, channel or other topographic feature on or over which waters flow at least periodically. Watercourse includes specifically designated areas in which substantial flood damage may occur.

Water surface elevation means the height, in relation to the National Geodetic Vertical Datum (NGVD) of 1929, (or other datum, where specified) of floods of various magnitudes and frequencies in the floodplains of coastal or riverine areas.

X zone means the area where the flood hazard is less than that in the SFHA. Shaded X zones shown on recent FIRMS (B zones on older FIRMS) designate areas subject to inundation by the flood with a 0.2-percent annual probability of being equaled or exceeded (the 500-year flood). Unshaded X zones (C zones on older FIRMS) designate areas where the annual exceedance probability of flooding is less than 0.2 percent.

Zone means a geographical area shown on a Flood Hazard Boundary Map or a Flood Insurance Rate Map that reflects the severity or type of flooding in the area.

SUBARTICLE 3. GENERAL PROVISIONS.

SECTION A. LANDS TO WHICH THIS ORDINANCE APPLIES.

This ordinance shall apply ~~solely~~ to ~~those~~ all areas of special flood hazard (SFHA) within the ~~District Property~~ jurisdiction of the Board of Directors of the PEARL RIVER VALLEY WATER SUPPLY DISTRICT.

~~1.3.2 Basis For Establishing The Areas Of Special Flood Hazard.~~

SECTION B. BASIS FOR ESTABLISHING THE AREAS OF SPECIAL FLOOD HAZARD.

The areas of special flood hazard identified by the Federal Emergency Management Agency in ~~its~~ the Flood Insurance ~~Study, dated March 2, 1993, with accompanying maps~~ Rate Map (multiple panels) numbers 25, 50, 55, 60, 65 and 70 dated January 1, 1996 and March 2, 1993 respectively, and other supporting data, ~~and any revision thereto,~~ are adopted by reference and declared to be a part of this ordinance. The Flood Insurance Study and / or maps are on file at the office of the Pearl River Valley Water Supply District, Permit Department.

~~1.3.3 Establishment Of Development Permit.~~

SECTION C. ESTABLISHMENT OF FLOODPLAIN DEVELOPMENT PERMIT.

A development permit shall be required in conformance with the provision of this ordinance prior to the commencement of any development activities in the areas of special flood hazard.-

~~1.3.4 Compliance.~~

SECTION D. COMPLIANCE.

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

~~1.3.5 Abrogation And Greater Restrictions.~~

SECTION E. ABROGATION AND GREATER RESTRICTIONS.

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

~~1.3.6 Interpretation.~~

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.~~

~~1.3.7 Warning And Disclaimer Of Liability.~~

- (1) Considered as minimum requirements;
- (1) Liberaly 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 consideration. Larger floods can and will occur on rare occasions.-

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 ~~Pearl River Valley Water Supply District or on the part of any director, officer, agent,~~ {governing body} of {county or municipality} or by any officer or ~~contractor~~ employee thereof for any flood damages that result from reliance on this ordinance or any administrative decision lawfully made ~~hereunder. thereunder.~~

~~1.3.8—Penalties For Violation.~~

SECTION H. PENALTIES 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 **\$1,000.00** or imprisoned for not more than **15** 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 ~~Pearl River Valley Water Supply District~~ Floodplain Administrator from taking such other lawful actions as is necessary to prevent or remedy any violation. ~~—A determination that the penalty specified herein is unenforceable for any reason shall not affect any other provision of this ordinance.—~~

SUBARTICLE 4. ADMINISTRATION.

SECTION A. DESIGNATION OF FLOOD DAMAGE PREVENTION ORDINANCE ADMINISTRATOR.

~~1.4—Administration.~~

~~1.4.1—Designation Of Local Administrator.~~

The ~~General Manager of the District is hereby appointed as Local Administrator~~ Board of Directors of the PEARL RIVER VALLEY WATER SUPPLY DISTRICT hereby appoints the Building Official or, in his absence, the General Manager, to administer and implement the

provisions of this ordinance and is herein referred to as the Floodplain Administrator and/or the administrator.

~~1.4.2—Permit Procedures.~~

SECTION B. PERMIT PROCEDURES.

Application for a Development Permit shall be made to the ~~General Manager~~Floodplain Administrator on forms furnished by him or her prior to any development activities, and may include, but not be limited to, the following plans in duplicate drawn to scale showing the nature, location, dimensions, and elevations of the area in question; existing or proposed structures, earthen fill, storage of materials or equipment, drainage facilities, and the location of the foregoing. ~~The General Manager may delegate administrative duties to the Assistant General Manager and/or District Building Inspector.~~ Specifically, the following information is required:-

(1) ~~(a)~~ Application Stage.

- a.) ~~(i)~~ Elevation in relation to mean sea level of the proposed lowest floor (including basement) of all buildings;
- b.) ~~(ii)~~ Elevation in relation to mean sea level to which any ~~nonresidential~~non-residential building will be flood-proofed;
- c.) ~~(iii)~~ Certificate from a registered professional engineer or architect that the non-residential flood-proofed building will meet the ~~flood proofing~~floodproofing criteria in SUBARTICLE 5, Section 6.5.2 (b) B (2) and Section D (2);
- d.) ~~(iv)~~ Description of the extent to which any watercourse will be altered or relocated as result of proposed development, and;

(2) ~~(b)~~ Construction Stage.:

~~Provide a floor elevation or floor proofing certification after the lowest floor is completed.~~—Upon placement of the lowest floor, or flood-proofing by whatever construction means, ~~whichever is applicable,~~ it shall be the duty of the permit holder to submit to the ~~Assistant General Manager~~Floodplain Administrator a certification of the NGVD elevation of the lowest floor or ~~flood proofed~~floodproofed elevation, ~~whichever is applicable,~~ as built, in relation to mean sea level. Said certification shall be prepared by or under the direct supervision of a registered land surveyor or professional engineer and certified by same. When ~~flood proofing~~floodproofing is utilized for a particular building, said certification shall be prepared by or under the direct supervision of a professional engineer or architect and certified by same.—

Any work undertaken prior to submission of the certification shall be at the permit holder's risk. ~~The Assistant General Manager' risk.~~ (The Floodplain Administrator shall review the lowest floor & floodproofing elevation survey data submitted. Deficiencies detected by such review shall be corrected by the) The permit holder immediately and prior to further progressive work being permitted to proceed shall correct deficiencies

detected by such review. Failure to submit the survey or failure to make said corrections required hereby, shall be cause to issue a stop-work order for the project.-

~~1.4.3—Duties And Responsibilities Of The Local Administrator.~~

SECTION C. POWERS, DUTIES AND RESPONSIBILITIES OF THE FLOODPLAIN ADMINISTRATOR.

The Floodplain Administrator and/or staff is hereby authorized and directed to enforce the provisions of this ordinance. The administrator is further authorized to render interpretations of this ordinance, which are consistent with its spirit and purpose.

Right of Entry

- (1) Whenever necessary to make an inspection to enforce any of the provisions of this ordinance, or whenever the administrator has reasonable cause to believe that there exists in any building or upon any premises any condition or ordinance violation which makes such building, structure or premises unsafe, dangerous or hazardous, the administrator may enter such building, structure or premises at all reasonable times to inspect the same or perform any duty imposed upon the administrator by this ordinance.
- (2) If such building or premises are occupied, he shall first present proper credentials and request entry. If such building, structure, or premises are unoccupied, he shall first make a reasonable effort to locate the owner or other persons having charge or control of such request entry.
- (3) If entry is refused, the administrator shall have recourse to every remedy provided by law to secure entry.
- (4) When the administrator shall have first obtained a proper inspection warrant or other remedy provided by law to secure entry, no owner or occupant or any other persons having charge, care or control of any building, structure, or premises shall fail or neglect, after proper request is made as herein provided, to promptly permit entry therein by the administrator for the purpose of inspection and examination pursuant to this ordinance.

Stop Work Orders

- (1) Upon notice from the administrator, work on any building, structure or premises that is being done contrary to the provisions of this ordinance shall immediately cease. Such notice shall be in writing and shall be given to the owner of the property, or to his agent, or to the person doing the work, and shall state the conditions under which work may be resumed.

Revocation of Permits

- (1) The administrator may revoke a permit or approval, issued under the provisions of this ordinance, in case there has been any false statement or misrepresentation as to the material fact in the application or plans on which the permit or approval was based.

- (2) The administrator may revoke a permit upon determination by the administrator that the construction, erection, alteration, repair, moving, demolition, installation, or replacement of the structure for which the permit was issued is in violation of, or not in conformity with, the provisions of this ordinance.

Duties of the ~~General Manager as Local Administrator~~administrator shall include, but not be limited to:-

- (1) ~~(a)~~ Review all development permits to assure that the permit requirements of this ordinance have been satisfied;
- (2) ~~(b)~~ Advise permittee that additional federal or state permits may be required, and if specific federal or state permit requirements are known, require that copies of such permits be provided and maintained on file with the development permit.
- (3) ~~(c)~~ Notify adjacent communities ~~and the Mississippi Emergency Management Agency, the State NFIP Coordinator, and other federal and/or state agencies with statutory or regulatory authority~~ prior to any alteration or relocation of a watercourse, ~~and submit evidence of such notification to the Federal Emergency Management Agency.~~
- (4) ~~(d)~~ Assure that maintenance is provided within the altered or relocated portion of said watercourse so that the flood-carrying capacity is not diminished.
- (5) ~~(e)~~ Verify and record, ~~from information furnished,~~ the actual elevation (in relation to mean sea level) of the lowest floor (including basement) of all new or substantially improved buildings, in accordance with SUBARTICLE 4, Section 6.4.2B (b2).
- (6) ~~(f)~~ Verify and record, ~~from information furnished,~~ the actual elevation (in relation to mean sea level) to which the new or substantially improved buildings have been ~~flood-proofed~~floodproofed, in accordance with SUBARTICLE 4, Section 6.4.2B (b2).

~~(g) — When flood-proofing is utilized for a particular building, the General Manager shall obtain certification from a registered professional engineer or architect, in accordance with Section 6.5.2 (b).~~

- (7) Review certified plans and specifications for compliance.

- (8) ~~(h)~~ 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 ~~General Manager~~Floodplain Administrator shall make the necessary interpretation. The person contesting the location of the boundary shall be given a reasonable opportunity to appeal the interpretation as provided in this ~~section~~SUBARTICLE.

- (9) ~~(i)~~ When base flood elevation data or floodway data have not been provided in accordance with SUBARTICLE 3, Section 6.3.2, B, then the ~~General Manager~~Floodplain Administrator shall obtain, review and reasonably utilize any base flood elevation and

floodway data available from a federal, state or other source, in order to administer the provisions of ~~Section 6.5, SUBARTICLE 5.~~

~~(j) — All records pertaining to the provisions of this ordinance shall be maintained in the offices of the District and shall be open for public inspection.~~

~~1.4.4 Variance Procedures.~~

~~(a) — The Shoreline Development Committee (or successor committee) of the Pearl River Valley Water Supply District shall hear and decide appeals and requests for variances from the requirements of this ordinance.~~

~~(b) — The Shoreline Development Committee (or successor committee) shall hear and decide appeals when it is alleged there is an error in any requirement, decision, or determination made by the General Manager in the enforcement or administration of this ordinance.~~

~~(c) — Any person aggrieved by the decision of the Shoreline Development Committee or any taxpayer may appeal such decision to the Board of Directors of the District. The Board of Directors shall hear the appeal at the next regularly scheduled meeting of the Board at least ten days after written notice of appeal is filed with the Assistant Secretary of the District. A decision shall be rendered within thirty days from the meeting of the Board at which the appeal is presented. Any person aggrieved by the final decision of the Board of Directors may appeal such decision to the Chancery Court of the First Judicial District of Hinds County, Mississippi, which court is vested with jurisdiction of the entire project area pursuant to Section 51-9-109 of the Mississippi Code of 1972, as amended.~~

~~(d) — Variances may be issued for the repair or rehabilitation of historic structures upon a determination that the proposed repair or rehabilitation will not preclude the structure's continued designation as a historic structure and the variance is the minimum to preserve the historic character and design of the structure.~~

~~(e) — In passing upon such applications, the General Manager (and, upon request of the General Manager, the Shoreline Development Committee) shall consider all technical evaluations, all relevant factors, all standards specified in other sections of this ordinance, and:~~

~~(i) — the danger that materials may be swept onto other lands to the injury of others;~~

~~(ii) — the danger to life and property due to flooding or erosion damage;~~

~~(iii) — the susceptibility of the proposed facility and its contents to flood damage and the effect of such damage on the individual owner;~~

~~(iv) — the importance of the services provided by the proposed facility to the community;~~

~~(v) — the necessity of the facility to a waterfront location, in the case of a functionally dependent facility;~~

~~(vi) — the availability of alternative locations, not subject to flooding or erosion damage, for the proposed use;~~

~~(vii) — the compatibility of the proposed use with existing and anticipated development;~~

~~(viii) — the relationship of the proposed use to the comprehensive plan and floodplain management program for that area;~~

~~(ix) — the safety of access to the property in times of flood for ordinary and emergency vehicles;~~

~~(x) — 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; and,~~

~~(xi) — 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.~~

~~(f) — Upon consideration of the factors listed above, and the purposes of this ordinance, the General Manager may attach such conditions to the granting of variances as deemed necessary to further the purposes of this ordinance.~~

~~(g) — Variances shall not be issued within any designated floodway if any increase in flood levels during the base flood discharge would result.~~

~~(h) — Conditions for Variances:~~

~~(i) — 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 a historical building, a determination that the variance is the minimum necessary so as not to destroy the historic character and design of the building;~~

~~(ii) — Variance shall only be issued upon (i) a showing 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.~~

~~(iii) — Any applicant to whom a variance is granted shall be given written notice specifying the difference between the base flood elevation and the elevation to which the building is to be built and stating that the cost of flood insurance will be commensurate with the increased risk resulting from the reduced lowest floor elevation.~~

~~(iv) The Assistant Secretary of the District on behalf of the General Manager shall maintain the record of all appeal actions and report any variances to the Federal Emergency Management Agency upon request.~~

~~1.5 Provisions for Flood Hazard Reduction.~~

~~1.5.1 General Standards.~~

- (10) Provide information, testimony, or other evidence, as needed during variance request hearings.
- (11) When damage occurs to a building or buildings, the following actions shall be conducted:
- a.) Determine whether damaged structures are located within the Special Flood Hazard Area;
 - b.) Conduct damage assessments for those damaged structures located in the SFHA, and;
 - c.) Make a reasonable attempt to notify owner(s) of damaged structure(s) of the requirement to obtain a building permit / floodplain development permit prior to repair, rehabilitation, or reconstruction.

SUBARTICLE 5. PROVISIONS FOR FLOOD HAZARD REDUCTION.

SECTION A. GENERAL STANDARDS.

In all areas of special flood hazard the following provisions are required:

- (1) ~~(a)~~ New construction and substantial improvements shall be anchored to prevent flotation, collapse or lateral movement of the structure;
- (2) ~~(b)~~ 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;
- (3) ~~(c)~~ New construction and substantial improvements shall be constructed with materials and utility equipment resistant to flood damage;
- (4) ~~(d)~~ New construction or substantial improvements shall be constructed by methods and practices ~~and~~ that minimize flood damage;
- (5) ~~(e)~~ Electrical, heating, ventilation, plumbing, air conditioning equipment, 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, such facilities shall be located a minimum of One Foot above the Base Flood Elevation;

- (6) ~~(f)~~ New and replacement water supply systems shall be designed to minimize or eliminate infiltration of flood waters into the system;
- (7) ~~(g)~~ 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;
- (8) ~~(h)~~ On-site waste disposal systems shall be located and constructed to avoid impairment to them or contamination from them during flooding; ~~and~~;
- (9) ~~(i)~~ Any alteration, repair, reconstruction or improvements to a building ~~which~~that is in compliance with the provisions of this ordinance, shall meet the requirements of ~~"~~ "new construction" as contained in this ordinance; ~~and~~;
- (10) ~~(j)~~ Any alteration, repair, reconstruction or improvements to a building ~~which~~that is not in compliance with the provisions of this ordinance, shall be undertaken only if said non-conformity is not furthered, extended, or replaced.

~~1.5.2 Specific Standards.~~

- (11) New construction and substantial improvement of any building shall have the lowest floor (including basement) at least one foot above the centerline of the designated street, unless the topography of the property does not allow for strict adherence as determined by the Floodplain Administrator.
- (12) New construction and substantial improvements built on fill shall be constructed on the properly designed and compacted fill that extends beyond the building walls before dropping below the base flood elevation, and shall have appropriate protection from erosion and scour.*

SECTION B. SPECIFIC STANDARDS.

In all areas of special flood hazard where base flood elevation data have been provided, as set forth in SUBARTICLE 3, Section 6.3.2, or Section 6.4.3 (i)B, the following provisions are required:

- (1) ~~(a)~~ Residential Construction. New construction or substantial improvement of any residential building (or manufactured home) shall have the lowest floor, including basement, elevated no lower than ~~one~~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~~floodwaters shall be provided in accordance with standards of SUBARTICLE 5, Section 6.5.2B (e3).
- (2) ~~(b)~~ Non-Residential Construction. New construction or substantial improvement of any commercial, industrial, or non-residential building (or manufactured home) shall have the lowest floor, including basement, elevated to no lower than ~~one~~One foot above the level of the base flood elevation. Buildings located in all A-~~zones~~Zones may be flood-proofed in lieu of being elevated provided that all areas of the building below the ~~required~~BFE

(plus any community free board) elevation are water tight with walls substantially impermeable to the passage of water, and use structural components having the capability of resisting hydrostatic and hydrodynamic loads and the effect of buoyancy. A registered professional engineer or architect shall certify that the standards of this subsection are satisfied. Such certification shall be provided to the official as set forth in SUBARTICLE 4, Section 6.4.2C (a)-(iii)9.

(3) ~~(e)~~ Elevated Buildings. New construction or substantial improvements of elevated buildings that include fully enclosed areas formed by foundation and other exterior walls below the base flood ~~elevation~~elevations shall be designed to preclude finished living space and designed to allow for the entry and exit of floodwaters to automatically equalize hydrostatic flood forces on exterior walls. ~~Designs for complying with this requirement must either be certified by a professional engineer or architect or meet the following minimum criteria:~~

a.) Designs for complying with this requirement must either be certified by a 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~~foundation interior grade (which must be equal to in elevation or higher than the exterior foundation grade);-

(iii) Openings may be equipped with screens, louvers, valves or other coverings or devices provided they permit the automatic flow of floodwaters in both directions;-

(iv) Limited to less than 300 square feet; and,

(v) Limited in use to parking, storage and building access.

b.) ~~(iv)~~ Access to the enclosed area shall be ~~the~~ minimum necessary to allow for parking of vehicles (garage door) or limited storage of maintenance equipment used in connection with the premises (standard exterior door) or entry to the living area (stairway or elevator); and,-

c.) ~~(v)~~ The interior portion of such enclosed area shall not be partitioned or finished into separate rooms.-

(4) Detached storage buildings, shed, or other like accessory improvements, excluding detached garages, carports, and boat houses used primarily for parking and storage of vehicles, will be allowed up to no more than 100 square feet of unfinished, non-partitioned and enclosed storage space. Such storage space shall not be used for human habitation and shall be limited to storage of items that can withstand exposure to the elements and have low flood damage potential. The storage space shall be constructed of flood resistant or breakaway materials, and equipment and service utilities, such as

electrical outlets, shall be limited to essential lighting and other incidental uses, and must be elevated or floodproofed. Openings to preclude hydrostatic loading and allow ventilation as provided in Section B. 3. shall also be required. These accessory structures shall be constructed and placed on the building site so as to offer the minimum resistance to the flow of floodwaters.

(5) Accessory improvements and other apparent structures shall be firmly anchored to prevent flotation that may result in damage to other structures.

(6) ~~(d)~~ Standards for Manufactured Homes and Recreational Vehicles.

a.) ~~(i)~~ All manufactured homes placed, or substantially improved, on individual lots or parcels, in existing manufactured home parks or subdivisions, in expansions to existing manufactured home parks or subdivisions, in new manufactured home parks or subdivisions or in substantially improved manufactured home parks or subdivisions, must meet all the requirements for new construction, including elevation and anchoring.

~~(ii) All manufactured homes placed or substantially improved in an existing manufactured home park or subdivision must be elevated so that:~~

Manufactured homes must be:

(i) Elevated on a permanent foundation, and

(ii) ~~(1) The~~Have its lowest floor of the manufactured home is frame member elevated no lower than one foot above the level of the base flood elevation, ~~or~~and

~~(2) The manufactured home chassis is supported by reinforced piers or other foundation elements of at least an equivalent strength, of no less than 36 inches in height above grade.~~

(iii) ~~(3) The manufactured home must be~~Be securely anchored to ~~the~~an adequately anchored foundation system to resist flotation, collapse and lateral movement.

~~(4) In an existing manufactured home park or subdivision on which a manufactured home has incurred "substantial damage" as the result of a flood, any manufactured home placed or substantially improved must meet the standards of Section 6.5.2 (d) (ii) (1) and (3) above.~~

b.) ~~(iii)~~ All recreational vehicles placed on sites must either:

(i) ~~(1)~~ Be on site for fewer than 180 consecutive days, or

(ii) Be fully licensed and ready for highway use*, or

- (iii) ~~(2) The recreational vehicle must~~ Must meet all the requirements for new construction, including anchoring and elevation requirements of SUBARTICLE 5, Section 6.5.2B (d4)(a) or (b) (i) or 6.5.2 (d) (ii) (1) and (3iii)-, above.

*A recreational vehicle is ready for highway use if it is licensed and insured in accordance with the State of Mississippi motor vehicle regulations, is on its wheels or jacking system, is attached to the site only by quick disconnect type utilities and security devices and has no permanently attached ~~structures~~additions. All recreational vehicles, which are not self-propelled, must comply with FEMA Technical Bulletin "Guidelines for the Placement of Temporary Structures in Special Flood Hazard Areas."

d.) All above ground gas or liquid storage tanks shall be anchored to prevent flotation or lateral movement.

(7) (e) Floodways. Located within areas of special flood hazard established in SUBARTICLE 3, Section 6.3.2,B, are areas designated as floodways. Since the floodway is an extremely hazardous area due to the velocity of flood waters which carry debris, potential projectiles and has erosion potential, the following provisions shall apply:

- a.) (i)—Prohibit encroachments, including fill, new construction, substantial improvements and other developments unless certification (with supporting technical data) by a registered professional engineer is provided demonstrating that encroachments shall not result in any increase in flood levels during occurrence of the base flood discharge;
- b.) (ii)—If SUBARTICLE 5, Section 6.5.2B (5)(a) is satisfied, all new construction and substantial improvements shall comply with all applicable flood hazard reduction provisions of ~~Section 6.5.~~SUBARTICLE 5.
- c.) (iii)—Prohibit the placement of manufactured homes (mobile homes), except in an existing manufactured homes (mobile homes) park or subdivision. A replacement manufactured home may be placed on a lot in an existing manufactured home park or subdivision provided the anchoring standards of SUBARTICLE 5, Section 6.5.1A (b2), and the elevation standards ~~and of SUBARTICLE 5, Section B (1) and the~~ encroachment standards of SUBARTICLE 5, Section 6.5.2B (d5) (a), are met.

~~1.5.3 Standards for Streams Without Established Base Flood Elevation and/or Floodways.~~

SECTION C. RESERVED FOR FUTURE USE.

SECTION D. STANDARDS FOR SHALLOW FLOODING ZONES.

~~(a)~~—Located within the areas of special flood hazard established in ~~Section 6.3.2., where streams exist but where no base flood data has been provided or where base flood data has been provided without floodways~~SUBARTICLE 3, Section B, are areas designated as shallow

flooding areas. These areas have flood hazards associated with base flood depths of one to three feet (1 – 3’), where a clearly defined channel does not exist and the water path of flooding is unpredictable and indeterminate; therefore, the following provisions apply:

~~(b) — No encroachments, including fill material or structures shall be located within areas of special flood hazard, unless certification by a registered professional engineer is provided demonstrating that the cumulative effect of the proposed development, when combined with all other existing and anticipated development will not increase the water surface elevation of the base flood more than one foot at any point within the community. The engineering certification should be supported by technical data that conforms to standard hydraulic engineering principles.~~

(1) All new construction and substantial improvements of residential structures shall:

Have the lowest floor, including basement, elevated to or above either the base flood elevation or in Zone AO the flood depth specified on the Flood Insurance Rate Map, above the highest adjacent grade. In Zone AO, if no flood depth is specified, the lowest floor, including basement, shall be elevated no less than two (2) feet above the highest adjacent grade with an additional freeboard of at least 1 foot.

(2) ~~(e) New~~All new construction ~~or~~and substantial improvements of ~~buildings shall be elevated or flood proofed to elevations established in accordance with Section 6.5.2.~~non-residential structures shall:

~~1.5.4 Standards For Subdivision Proposals.~~

- a.) Have the lowest floor, including basement, elevated to or above either the base flood elevation or in Zone AO the flood depth specified on the Flood Insurance Rate Map, above the highest adjacent grade. In Zone AO, if no flood depth is specified, the lowest floor, including basement, shall be elevated no less than two (2) feet above the highest adjacent grade with an additional freeboard of at least 1 foot.)
- b.) Together with attendant utility and sanitary facilities be completely floodproofed either to the base flood elevation or above or, in Zone AO, to or above the specified flood depth plus a minimum of one foot so that any space below that level is watertight with walls substantially impermeable to the passage of water and with structural components having the capability of resisting hydrostatic and hydrodynamic loads and effects of buoyancy. Certification is required as stated in SUBARTICLE 5, Section B (2).

SECTION E. RESERVED FOR FUTURE USE.

SECTION F. STANDARDS FOR SUBDIVISION PROPOSALS.

(1) ~~(a)~~All subdivision proposals shall be consistent with the ~~needs~~need to minimize flood damage;

- (2) ~~(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;
- (3) ~~(c)~~ All subdivision proposals shall have adequate drainage provided to reduce exposure to flood hazards; ~~and;~~
- (4) ~~(d)~~ Base flood elevation data shall be provided for all new subdivision proposals and other proposed development (including manufactured home parks and subdivisions), which is greater than five lots or five acres, whichever is the lesser ~~of fifty lots or five acres.~~

~~1.5.5 Standards For Areas Of Shallow Flooding (AO Zones):~~

~~(a) — Located within the areas of special flood hazard established in Section 6.3.2 are areas designated as shallow flooding areas. These areas have special flood hazards associated with base flood depths of one to three feet (1' 3') where a clearly defined channel does not exist and where the path of flooding is unpredictable and indeterminate; therefore, the following provisions apply:~~

~~(b) — All new construction and substantial improvements of residential buildings shall have the lowest floor, including basement, elevated to the depth number specified on the Flood Insurance Rate Map, in feet, above the highest adjacent grade. If no depth number is specified, the lowest floor, including basement, shall be elevated, at least two (2) feet above the highest adjacent grade.~~

~~(c) — All new construction and substantial improvements of non-residential buildings shall:~~

~~(i) — have the lowest floor, including basement, elevated to the depth number specified on the Flood Insurance Rate Map, in feet, above the highest adjacent grade. If no depth number is specified, the lowest floor, including basement shall be elevated at least two (2) feet above the highest adjacent grade, or;~~

~~(ii) — together with attendant utility and sanitary facilities be completely flood proofed to or above the level so that any space below that level is watertight with walls substantially impermeable to the passage of water and with structural components having the capability ~~or~~ resisting hydrostatic and hydrodynamic loads and effects of buoyancy.~~

(5) Where only a small portion of the subdivision lot or lots is in a designated Zone A Special Flood Hazard Area inundated by 100-year flood with no base flood elevations determined and there is sufficient ground slope on the site to avoid possible flooding of structures in Zone X areas determined to be outside 500 year floodplain, the Floodplain Administrator may waive the requirement for a study to determine the base flood elevations.

(6) In order for the Floodplain Administrator to consider waiving the requirement of Section E (4) the applicant must provide an accurate topographic data and map for the lot or lots

in question certified by a licensed land surveyor and/or professional civil engineer indicating sufficient detail to allow a thorough review by the Floodplain Administrator.

- (7) Each proposed parcel must have a designated buildable pad or site above the 100-year flood plain. The distance of the buildable pad or site above the 100- year flood plain shall depend on the slope of the ground and in accordance with the following table:

<u>Distance in feet from Zone A 100 year floodplain</u>	<u>Minimum Slope from Zone A – 100 year flood plain to ground level at pad</u>
<u>20</u>	<u>5%</u>
<u>30</u>	<u>3.33%</u>
<u>40</u>	<u>2.50%</u>
<u>50</u>	<u>2.0%</u>
<u>60</u>	<u>1.67%</u>
<u>70</u>	<u>1.43%</u>
<u>80</u>	<u>1.25%</u>
<u>90</u>	<u>1.11%</u>
<u>100</u>	<u>1.0%</u>

Residential or non-residential structures lowest floor elevation also must be elevated 1.5 feet above the ground level on the buildable pad or site.

- (8) If a waiver is granted for Section E (4) the subdivider/applicant must comply with the following:
- a.) File restrictive covenants on the lot or lots prohibiting construction within the designated special flood hazard area inundated by the 100-year flood and requirement for elevated lowest floor elevation.
 - b.) Place a statement on the face of the plat prohibiting construction in the designated area of special flood hazard inundated by the 100-year flood.
- (9) Notice must be sent to the State NFIP Coordinator indicating that a waiver has been granted for Section E (4) providing written details of the waiver for any waiver granted by the Floodplain Administrator.

SECTION G. RESERVED FOR FUTURE USE.

SECTION H. CRITICAL FACILITIES.

Construction of new or substantially improved critical facilities shall be, to the extent possible, located outside the limits of the special flood hazard area (SFHA) (100-year floodplain). Construction of new critical facilities shall be permissible within the SFHA if no feasible alternative site is available. Critical facilities constructed within the SFHA shall have the lowest floor elevated three feet (approximate 500-year floodplain) or more above the level of the base flood elevation at the site. Floodproofing and sealing measures must be taken to ensure that toxic substances will not be displaced by or released into floodwaters. Access routes elevated to

or above the level of the base flood elevation shall be provided to all critical facilities to the extent possible.

SUBARTICLE 6. VARIANCE PROCEDURES.

SECTION A. DESIGNATION OF VARIANCE AND APPEALS BOARD.

The Board of Directors of the PEARL RIVER VALLEY WATER SUPPLY DISTRICT shall hear and decide appeals and requests for variances from requirements of this ordinance.

SECTION B. DUTIES OF VARIANCE AND APPEALS BOARD.

The board shall hear and decide appeals when it is alleged an error in any requirement, decision, or determination is made by the Floodplain Administrator in the enforcement or administration of this ordinance. Any person aggrieved by the decision of the board may appeal such decision to a court of competent jurisdiction within the county in which the affected property is located.

SECTION C. VARIANCE PROCEDURES.

In passing upon such applications, the Board of Directors shall consider all technical evaluations, all relevant factors, standards specified in other sections of this ordinance, and:

- (1) The danger that materials may be swept onto other lands to the injury of others;
- (2) The danger of 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 necessity to the facility of a waterfront location, where applicable;
- (6) The availability of alternative locations for the proposed use which are not subject to flooding or erosion damage;
- (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 of transport of the flood waters and the effects of wave action, if applicable, expected at the site; and,

- (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.
- (12) Upon consideration of factors listed above, and the purpose of this ordinance, the Board of Directors may attach such conditions to the granting of variances as it deems necessary to further the purposes of this ordinance.
- (13) Variances shall not be issued within any designated floodway if any increase in flood levels during the base flood discharge would result. *

SECTION D. CONDITIONS FOR VARIANCES.

- (1) Variances shall only be issued when there is:

 - a.) A showing of good and sufficient cause;
 - b.) A determination that failure to grant the variance would result in exceptional hardship; and,
 - c.) A determination that the granting of a variance will not result in increased flood heights, additional threats to public expense, create nuisance, cause fraud on or victimization of the public, or conflict with existing local laws or ordinances.
- (2) 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 to which the lowest floor is to be built and stating that the cost of flood insurance will be commensurate with the increased risk resulting from the reduced lowest floor elevation. (See SUBARTICLE 6, Section E.)
- (4) The Floodplain Administrator shall maintain the records of all appeal actions and report any variances to the Federal Emergency Management Agency or Mississippi Emergency Management Agency upon request. (See Section E.)

SECTION E. VARIANCE NOTIFICATION.

Any applicant to whom a variance is granted shall be given written notice over the signature of a community official that:

- (1) The issuance of a variance to construct a structure below the base flood elevation will result in increased premium rates for flood insurance up to amounts as high as \$25 for \$100 of insurance coverage, and;

- (2) Such construction below the base flood level increases risks to life and property. A copy of the notice shall be recorded by the Floodplain Administrator in the Office of the Chancery Clerk and shall be recorded in a manner so that it appears in the chain of title of the affected parcel of land.

The Floodplain Administrator will maintain a record of all variance actions, including justification for their issuance, and report such variances issued in the community's biennial report submission to the Federal Emergency Management Agency.

SECTION F. HISTORIC STRUCTURES.

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.

SECTION G. SPECIAL CONDITIONS.

Upon consideration of the factors listed in SUBARTICLE 6, and the purposes of this ordinance, the Board of Directors may attach such conditions to the granting of variances, as it deems necessary to further the purposes of this ordinance.

SECTION H. FLOODWAY. *

Variances shall not be issued by a community within any designated regulatory floodway if any increase in flood levels during the base flood discharge would result.

SUBARTICLE 7. SEVERABILITY.

If any section, clause, sentence, or phrase of the Ordinance is held to be invalid or unconstitutional by any court of competent jurisdiction, then said holding shall in no way effect the validity of the remaining portions of this Ordinance. This ordinance having first been reduced to writing, was adopted as a final regulation at a public meeting of the Board of Directors on September 9, 2005, to be effective thirty days after final adoption.

Document comparison done by Workshare on Thursday, July 28, 2005 12:45:42 PM

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Legend:	
<u>Insertion</u>	
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Split/Merged cell	
Padding cell	

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