ORDER ADOPTING AN AMENDMENT TO THE REGULATIONS FOR FLOODPLAIN MANAGEMENT FOR THE COUNTY OF FORT BEND, TEXAS

| THE STATE OF TEXAS | § | | | |
|---|----------------|---------------------|----------------|----------------|
| | § | KNOW ALL N | MEN BY THES | SE PRESENT: |
| COUNTY OF FORT BEND | §. | | | |
| | _ | | | |
| On this 26th day of January | , 2021 the Com | missioners Court | t of Fort Bend | County Texas |
| • | | | | • |
| sitting as the governing body | of Fort Bend | County, upon | a motion of | Commissioner |
| Meyers , seconde | ed by Commiss | ioner <u>Morale</u> | :S | , duly put and |
| carried, HEREBY ORDERED AN | D APPROVED | : | | |

An amendment to the **REGULATIONS FOR FLOODPLAIN MANAGEMENT** for the County of Fort Bend, Texas, revising Article 3, Section B. establishing the areas of special flood hazard identified from the FEMA Flood Insurance Study and Flood Insurance Rate Maps, effective January 29, 2021; with additional changes to Articles 2, 4, and 5.

The Amendments to the Regulations for Floodplain Management, attached hereto are made a part of this Order have been duly and lawfully adopted effective January 29, 2021.

| Approved by: |
|---|
| Fort Bend County Commissioners Court |
| January 26, 2021 |
| Crossity Indigs KF Guerry |
| KP George, County Judge |
| Commissioner Vincent Morales, Precinct 1 Commissioner Grady Prestage, Precinc 2 |
| Wat Meyer K Dr |
| Commissioner Andy Meyers, Precinct 3 Commissioner Ken DeMerchant, Precinct 4 |
| Attest: |
| Laura Richard, County Clerk |



ADOPTED BY

FORT BEND COUNTY COMMISSIONERS COURT

COUNTY JUDGE

KP George

COUNTY COMMISSIONERS

VINCENT MORALES, Precinct 1

JAMES "GRADY" PRESTAGE, Precinct 2

W. A. "ANDY" MEYERS, Precinct 3

KEN DEMERCHANT, Precinct 4

Adopted March 4, 2014

Amended December 12, 2017 (Effective December 21, 2017)

Amended January 26, 2021 (Effective January 29, 2021)

ORDER ADOPTING AN AMENDMENT TO THE REGULATIONS FOR FLOODPLAIN MANAGEMENT FOR THE COUNTY OF FORT BEND, TEXAS

| THE STATE OF TEXAS | § § | KNOW ALL MEN BY THESE PRESENT: |
|---|--------------------------------------|--|
| COUNTY OF FORT BEND | § | |
| On this 12 th day of Dece Texas, sitting as the governing by the carried; Secondo carried; | mber, 201 oody of Fo ed by Com | 7, the Commissioners Court of Fort Bend County, ort Bend County, upon a motion of Commissioner missioner, a duly put and |

WHEREAS, the Commissioners Court of Fort Bend County approved an amendment to the REGULATIONS FOR FLOODPLAIN MANAGEMENT for the County of Fort Bend, Texas, by revising the following section:

Article 3, Section B. <u>BASIS FOR ESTABLISHING THE AREAS OF SPECIAL FLOOD HAZARD</u>

"The areas of special flood hazard identified by the Federal Emergency Management Agency are a scientific and engineering report entitled "The Flood Insurance Study (FIS) for Fort Bend County and incorporated areas," dated <u>December 21, 2017</u>, with accompanying Flood Insurance Rate Maps (FIRM) and any revisions thereto are hereby adopted by reference and declared to be a part of these Regulations."

IT IS ORDERED, ADJUDGED AND DECREED by the Commissioners Court of Fort Bend County, Texas, that the above amendment be and is hereby approved effective December 21, 2017.

Approved by:

Fort Bend County Commissioners Court

December 12, 2017

Commissioner Vincent M. Morales, Jr., Precinct 1

Commissioner Grady Prestage, Precinct 2

Commissioner Andy Meyers, Precinct 3

Commissioner James Patterson, Precinct 4

Attest:

Laura Richard, County Clerk





ADOPTED BY

FORT BEND COUNTY COMMISSIONERS COURT

COUNTY JUDGE

ROBERT E. HEBERT

COUNTY COMMISSIONERS

VINCENT M. MORALES, Jr., Precinct 1

JAMES "GRADY" PRESTAGE, Precinct 2

W. A. "ANDY" MEYERS, Precinct 3

JAMES PATTERSON, Precinct 4

Adopted March 4, 2014
Amended December 12, 2017 (Effective December 21, 2017)

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FLOOD DAMAGE PREVENTION REGULATIONS

ARTICLE 1

STATUTORY AUTHORIZATION, FINDING OF FACT, PURPOSE AND METHODS

SECTION A. STATUTORY AUTHORIZATION

The Legislature of the State of Texas has in Section 16.311 *et. seq.* of the Texas Water Code authorized local governmental units to adopt regulations designed to regulate land use and minimize flood losses. Therefore, the Commissioners Court of Fort Bend County, Texas, does ordain as follows:

SECTION B. FINDINGS OF FACT

- 1. The flood hazard areas of Fort Bend County, Texas (herein also referred to as the "Community") are subject to periodic inundation which results in loss of life and property, health and safety hazards, disruption of commerce and governmental services, and extraordinary public expenditures for flood protection and relief, all of which adversely affect the public health, safety and general welfare.
- 2. These flood losses are created by the cumulative effect of obstructions in floodplains which cause increase in flood heights and velocities, and by the occupancy of flood hazard areas by uses vulnerable to floods and hazardous to other lands because they are inadequately elevated, flood-proofed or otherwise protected from flood damage.

SECTION C. STATEMENT OF PURPOSE

It is the purpose of these Regulations to promote the public health, safety and general welfare and to minimize public and private losses due to the flood conditions in specific areas by provisions designed to:

- 1. Protect human life and health:
- 2. Minimize expenditures of public money for costly flood control projects;
- 3. Minimize the need for rescue and relief efforts associated with flooding and generally undertaken at the expense of the general public;
- 4. Minimize prolonged business interruptions;

- 5. Minimize damage to public facilities and utilities such as water and gas mains, electric, telephone and sewer lines, streets and bridges located in the floodplains;
- 6. Help maintain a stable tax base by providing for the sound use and development of flood-prone areas in such manner as to minimize future flood blight areas; and
- 7. Ensure that potential buyers are notified that property is in a flood area.

SECTION D. METHODS OF REDUCING FLOOD LOSSES

In order to accomplish its purposes, these Regulations use the following methods:

- 1. Restrict or prohibit uses that are dangerous to health, safety or property in times of flood, or cause excessive increase in flood heights or 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 accommodations of flood waters;
- 4. Control filling, grading, dredging, and other development which may increase flood damage; and
- 5. Prevent or regulate the construction of flood barriers which will unnaturally divert flood waters or which may increase flood hazards to other lands.

SECTION E. SEVERABILITY

It is the intention of these Regulations that the sections, paragraphs, sentences, clauses and phrases of these Regulations are severable; and if any section, paragraph, sentence, clause or phrase of these Regulations shall be declared void, ineffective or unconstitutional by a valid judgment or final decree of any court of competent jurisdiction, such unconstitutionality shall not affect any of the remaining sections, paragraphs, sentences, clauses or phrases hereof, since the same would have been enacted by this Court without the incorporation herein of any such unconstitutional section, paragraph, sentence, clause or phrase.

ARTICLE 2 DEFINITIONS

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

44 CFR, SECTION 60.3 – The National Flood Insurance Program Regulation for "floodplain management criteria for flood prone areas."

44 CFR, SECTION 65.12 – The National Flood Insurance Program Regulation defining the "revision of flood insurance rate maps to reflect base flood elevations caused by proposed encroachments."

ACCESSORY STRUCTURES – When accessory structures of one-hundred (100) square feet or less are to be placed in the floodplain, the following criteria shall be met:

- 1. Accessory structures shall not be used for human habitation (including work, sleeping, living, cooking, or restroom areas).
- 2. Accessory structures shall be designed to have low flood damage potential and all parts of the structure below the base flood elevation (if not insured) and one foot above (if insured) must be made of FEMA-approved flood resistant materials.

ALLUVIAL FAN FLOODING – Flooding occurring on the surface of an alluvial fan or similar landform which originates at the apex and is characterized by high-velocity flows; active processes of erosion, sediment transport, and deposition; and unpredictable flow paths.

APEX – A point on an alluvial fan or similar landform below which the flow path of the major stream that formed the fan becomes unpredictable and alluvial fan flooding can occur.

APPEAL – A request for a review of the Floodplain Coordinator's interpretation of any provision of these Regulations or a request for a variance.

APPURTENANT STRUCTURE – A structure which is on the same parcel of property as the principal structure to be insured and the use of which is incidental to the use of the principal structure.

AREA OF FUTURE CONDITIONS FLOOD HAZARD – The land area that would be inundated by the one percent (1%) annual chance (100-year) flood based on future conditions hydrology.

AREA OF SHALLOW FLOODING - means a designated AO, AH, AR/AO, AR/AH, or VO zone on a community's Flood Insurance Rate Map (FIRM) with a 1 percent or greater annual chance of flooding to an average depth of 1 to 3 feet where a clearly defined channel does not exist, where the path of flooding is unpredictable and where velocity flow may be evident. Such flooding is characterized by ponding or sheet flow.

AREA OF SPECIAL FLOOD HAZARD – The land in the floodplain within a community subject to a one percent (1%) or greater chance of flooding in any given year. The area may be designated as Zone A on the Flood Hazard Boundary Map (FHBM). After detailed ratemaking has been completed in preparation for publication of the FIRM, Zone A usually is refined into Zones A, AE, AH, AO or A1-99.

BASE FLOOD - The flood having a one percent (1%) chance of being equaled or exceeded in any given year.

BASE FLOOD ELEVATION (BFE) – The elevation shown on the Flood Insurance Rate Map (FIRM) and found in the accompanying Flood Insurance Study (FIS) for Zones A, AE, AH, A1-A30 or AR that indicates the water surface elevation resulting from the flood that has a 1% chance of equaling or exceeding that level in any given year – also called the Base Flood.

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

BREAKAWAY WALLS - 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 supporting foundation system.

BUILDING PERMIT – The same as a Development Permit or permit.

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

compromised.

DEVELOPMENT – Any man-made change in improved and/or unimproved real estate, including but not limited to buildings or other structures, mining, dredging, filling, grading, paving, excavation or drilling operations, or storage of equipment and materials.

DEVELOPMENT PERMIT - A permit for the construction of a development. Also called a building permit or floodplain Development Permit in these Regulations.

DRAINAGE – The runoff which flows over land as a result of precipitation. This shall include sheet flow, flow in streets and flows which may concentrate in local drainage systems with or without defined channels.

ELEVATED BUILDING - means, for insurance purposes, a non-basement building, which has its lowest elevated floor, raised above ground level by foundation walls, shear walls, posts, piers, pilings, or columns.

EXISTING CONSTRUCTION – For the purpose of determining rates, structures for which the "start of construction" commenced before the effective date of the FIRM or before January 1, 1975, for FIRM's effective before that date. "Existing construction" may also be referred to as "existing structure."

EXISTING MANUFACTURED HOME PARK OR SUBDIVISION – A manufactured home park or subdivision for which the construction of facilities for servicing the lots on which the manufactured homes are to be affixed (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.

EXPANSION TO AN EXISTING MANUFACTURED HOME PARK OR SUBDIVISION -

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).

EXPANSION - An addition to an existing development.

FILLING – The placement of natural sands, dirt, soil, or rock above the natural grade to raise the elevation of the ground. Fill may also include concrete, cement, soil cement, or similar material as approved on a case-by-case basis.

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

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

FLOOD ELEVATION STUDY – An examination, evaluation and determination of flood hazards and, if appropriate, corresponding water surface elevations, or an examination, evaluation and determination of mudslide (i.e., mudflow) and/or flood related erosion hazards.

FLOOD INSURANCE RATE MAP (FIRM) – A Federal Emergency Management Agency official map of a community, on which the Federal Emergency Management Agency has delineated both the areas of special flood hazards and the risk of premium zones applicable to the community.

FLOOD INSURANCE STUDY (FIS) - See Flood Elevation Study.

FLOODPLAIN OR FLOOD-PRONE AREA – Any land area susceptible to being inundated by water from any source (see definition of "Flooding").

FLOODPLAIN ADMINISTRATOR – The **County Judge** is designated as the Floodplain Administrator.

FLOODPLAIN COORDINATOR – The **County Engineer** is designated as the Floodplain Coordinator.

FLOODPLAIN MANAGEMENT – The operation of an overall program of corrective and preventive measures for reducing flood damage, including but not limited to emergency preparedness plans, flood control works and floodplain management regulations.

FLOODPLAIN MITIGATION – A hydraulically equivalent volume of floodplain storage sufficient to offset a reduction in floodplain storage or conveyance capacity.

FLOODPLAIN MANAGEMENT REGULATIONS – Zoning ordinances, subdivision regulations, building codes, health regulations, special purpose ordinances (such as a floodplain ordinance, grading ordinance and erosion control ordinance) and other applications of police power. The term describes such state or local regulations, in any combination thereof, which provide standards for the purpose of flood damage prevention and reduction.

FLOOD PROOFING – Any combination of structural and non-structural additions, changes, or adjustments to structures which reduce or eliminate flood damage to real estate or improved real property, water and sanitary facilities, structures and their contents.

FLOOD PROTECTION SYSTEM - Those physical structural works for which funds have been authorized, appropriated, and expended and which have been constructed specifically to modify flooding in order to reduce the extent of the areas within a community subject to a "special flood hazard" and the extent of the depths of associated flooding. Such a system typically includes hurricane tidal barriers, dams, reservoirs, levees or dikes. These specialized flood modifying works are those constructed in conformance with sound engineering standards.

FLOODWAY- See Regulatory Floodway.

FREEBOARD – A difference in elevation usually expressed in feet above a flood level for purposes of floodplain management. "Freeboard" is intended to compensate for the many unknown factors that could contribute to flood heights greater than the height calculated for a selected size flood and floodway condition, such as a wave action, bridge openings, and the hydrological effect of urbanization of the watershed.

FUNCTIONALLY DEPENDENT USE - A use which cannot perform its intended purpose unless it is located or carried out in close proximity to water. The term includes only docking facilities, port facilities that are necessary for the loading and unloading of cargo or passengers, and ship building and ship repair facilities, but does not include long-term storage or related manufacturing facilities.

HIGHEST ADJACENT GRADE – The highest natural elevation of the ground surface prior to construction next to the proposed wall of a structure.

HISTORIC STRUCTURE – Any structure that is:

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

IMPROVEMENT – The process of erecting, constructing, enlarging, altering, and/or repairing of any development.

LEVEE - 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 - 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.

LOWEST FLOOR – 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 area is not considered a building's lowest floor; **provided** that such an enclosure is not built so as to render the structure

in violation of the applicable non-elevation design requirement of Section 60.3 of the National Flood Insurance Program regulation.

MANUFACTURED HOME - A structure as defined under Chapter 1201.003 (12), (18), and (20) of the Texas Occupation Code - Manufactured Housing - including transportable in one or more sections, which is built on a permanent chassis and is designed for use with or without a permanent foundation when connected to the required utilities. For floodplain management purposes the term "manufactured homes" also includes park trailers, travel trailers, and other similar vehicles placed on a site for greater than 180 consecutive days. For insurance purposes the term "manufactured homes" does not include park trailers, travel trailers, or other similar vehicles.

MANUFACTURED HOME PARK OR SUBDIVISION – A parcel (or contiguous parcels) of land divided into two (2) or more manufactured home lots for rent or sale.

MEAN SEA LEVEL - For the purpose of the National Flood Insurance Program, the National American Vertical Datum (NAVD) of 1988 or other datum, to which base flood elevations shown on a community's Flood Insurance Rate Map (FIRM) are referenced.

NATURAL GROUND – The grade unaffected by construction techniques such as fill, landscaping, or berms.

NEW CONSTRUCTION – For floodplain management purposes, structures for which the "start of construction" commenced on or after the effective date of a floodplain management regulation adopted by a community.

NEW MANUFACTURED HOME PARK OR SUBDIVISION – A manufactured home park or subdivision for which the construction of facilities for servicing the lots on which the manufactured homes are to be affixed, (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 management regulations adopted by a community.

PERSON – An individual, sole proprietorship, corporation, nonprofit corporation, partnership, joint venture, organization and/or limited liability company.

RECREATIONAL VEHICLE – A vehicle which is built on a single chassis; 400 square feet or less when measured at the largest horizontal projections; self-propelled or permanently towable by a light duty truck; and designed primarily not for use as a permanent dwelling but as temporary living quarters for recreational, camping, travel, or seasonal use.

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

RISING WATER – The increase in level and/or intensity of an overflowing of water onto normally dry land.

RIVERINE – Relating to, formed by, or resembling a river (including tributaries), stream, brook, etc.

SPECIAL FLOOD HAZARD AREA - See Area of Special Flood Hazard.

START OF DEVELOPMENT – The first placement of permanent construction of a structure on a site, such as pouring a slab or footings, the installation of piles, or the placement of a manufactured home on a foundation. Included within this definition is grading and filling, installation of streets or underground utilities and other such development. A Development Permit is required prior to the start of any development.

STRUCTURE – A walled and roofed building, including a gas or liquid storage tank that is principally above ground, as well as a manufactured home.

SUBDIVISION – The division of any tract or parcel of land by plat, map, or description into two or more parts to lay out:

- 1) A subdivision of the tract, including an addition;
- 2) Lots; or
- 3) Streets, alleys, squares, parks, or other parts of the tract intended to be dedicated to public use or for the use of purchasers or owners of lots fronting on or adjacent to the streets, alleys, squares, parks, or other parts; or
- 4) A division regardless of whether it is made by using a metes and bounds description in a deed, by using a contract of sale or other executor contract to convey, or by using any other method.

Subdivision shall also include the subdivision, re-platting or other alterations of any tract of land, reserve or lot which is part of a previously recorded subdivision. Subdivision shall not include the division of land for agricultural purposes only, land divided by partition deeds executed by co-tenants for the purpose of effecting a partition of land, division of land for the purpose of settling family estates providing the division does not include any dedication or layout of streets or other public or private access ways, and division of a tract of land separated by two or more spaces or lots that are to be rented, leased or offered for rent or lease for a term of less than 60 months without a purchase option, for installation of manufactured homes for use and occupancy as residence.

SUBSTANTIAL DAMAGE - Damage of any origin sustained by a structure whereby the cost of restoring the structure to its before-damaged condition would equal or exceed fifty percent (50%) of the Fort Bend County Central Appraisal District value of the structure before the damage occurred.

SUBSTANTIAL IMPROVEMENTS - Any reconstruction, rehabilitation, addition, or improvement of a structure or structures where the cost of the improvements equals or exceeds fifty percent (50%) of the Fort Bend County Central Appraisal District Value of the structure before "start of construction". This includes structures which have incurred "substantial damage", regardless of the actual repair work performed. An improvement is started when the first alteration of any wall, ceiling, floor or other structural part of the building commences, whether or not the alteration affects the external dimensions of the structure. For the purpose of determining if an improvement is a substantial improvement, the owner for the permit must submit data reflecting the CAD value of the structure prior to being damaged, improved or modified and the cost of the restoration, improvement or modification. Costs shall include the value of all labor and materials. The term does not, however, include either: (1) Any project for improvement of a structure to correct existing violations of state or local health, sanitary, or safety code specifications which have been identified by Fort Bend County local official(s) and which are the minimum necessary conditions; or (2) any alteration of a "historic structure", provided that the alteration will not preclude the structure's continued designation as a "historic structure."

TEXAS WATER CODE 11.086 – Overflow caused by Diversion of Water.

TOPOGRAPHY – The description of the three-dimensional shape of the land surface based upon elevation contours.

UNINCORPORATED AREA – The area in Fort Bend County, Texas, that is not within an incorporated area of a city, town, or village.

UTILITY – A person, as defined herein, engaged in this State in the:

- a. generation, transmission, or distribution and sale of electric power;
- b. transportation, distribution and sale through a local distribution system of natural or other gas for domestic, commercial, industrial, or other use;
- c. ownership or operation of a pipeline for the transmission or sale of natural or other gas, natural gas liquids, crude oil or petroleum products to other pipeline companies, refineries, local distribution systems, municipalities, or industrial consumers;
- d. provision of telephone or telegraph service to others;
- e. production, transmission, or distribution and sale of steam or water;
- f. operation of a railroad; or
- g. the provisions of sanitary sewer service to others.

VARIANCE - A grant of relief by a community from the requirements of these Regulations. A variance, therefore, permits construction or development in a manner otherwise prohibited by these Regulations. (For full requirements see Section 60.6 of the National Flood Insurance Program regulations.)

VIOLATION – The failure of a structure or other development to be fully compliant with the community's floodplain management regulations. A structure or other development without the elevation certificate, other certifications, or other evidence of compliance required in Section 60.3(b) (5), (c) (4) or (d) (3) is presumed to be in violation until at such time the documentation is provided.

WATER SURFACE ELEVATION – The height, in relation to National American Vertical Datum (NAVD) of 1988 (or other datum, where specified), of floods of various magnitudes and frequencies in the floodplains of coastal or riverine areas.

ARTICLE 3 GENERAL PROVISIONS

SECTION A. LAND TO WHICH THESE REGULATIONS APPLY

These regulations shall apply to all unincorporated areas within the jurisdiction of Fort Bend County, Texas.

Subject to Article 3, Section C, provisions of these Regulations shall apply to all new construction or development, proposed subdivisions, proposed manufactured home communities and/or manufactured housing as defined under Chapter 1201.003 (12), (18), and (20) of the Texas Occupation Code, Manufactured Housing, alter the topography that would affect others or violate Section 11.086 of the Texas Water Code, and to the construction, alteration, repair, use, location, or maintenance of every building or structure or any appurtenances connected to or attached to such buildings or structures, within the designated area affected by these Regulations.

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 current scientific and engineering report entitled, "Flood Insurance Study (FIS) for Fort Bend County Texas and Incorporated Areas," dated January 29, 2021, with accompanying Flood Insurance Rate Maps and/or Flood Boundary-Floodway Maps (FIRM and/or FBFM) dated January 29, 2021 and any revisions thereto are hereby adopted by reference and declared to be a part of these Regulations.

SECTION C. ESTABLISHMENT OF A DEVELOPMENT PERMIT

A Development Permit shall be required to ensure conformance with the provisions of these Regulations. Any fully enclosed structure over 100 sq. ft. (i.e. barn, garage, workshop, storage building) and/or the development of improved or unimproved real estate as defined in these Regulations.

No person shall erect, construct, enlarge, alter, repair, or improve any building or development structure or manufactured housing as defined under Chapter 1201.003 (12), (18), and (20) of the Texas Occupation Code, Manufactured Housing, or alter the topography that would affect others or violate Section 11.086 of the Texas Water Code in the applicable jurisdiction, or cause such to be done, without first obtaining a separate Development Permit for such buildings or structures from the Floodplain

Coordinator.

SECTION D. COMPLIANCE

No structure or lands shall hereafter be located, altered, or have its use changed without full compliance with the terms of these Regulations and other applicable regulations.

If a person has violated, is violating, or is threatening to violate these Regulations in any manner, the County may institute a civil suit in the appropriate court for injunctive relief to restrain the person from continuing the violation or threat of violation including, but not limited to, an order directing the person to remove illegal improvements and restore preexisting conditions. In addition, a person who violates these Regulations is subject to a civil penalty of not more than \$100.00 for each act of violation and for each day of violation.

Any person who diverts or impounds the natural flow of surface waters or permits a diversion or impounding by him to continue in a manner that damages the property of another by the overflow of the water diverted or impounded may be subject to a civil suit in the appropriate court for injunctive relief to restrain the person from continuing the violation and directing the person to remove illegal improvements and restore the property to preexisting conditions and seek a civil penalty of \$100.00 for each act of violation and for each day of the violation.

Fort Bend County shall file against any parcel of land that is in violation of these Regulations, a notice in the real property records, identifying any condition on the property that the County determines violates the rules adopted by these Regulations.

No person may provide utility services that connect the land and/or improvements with utility services without written certification from the County that the property complies with all county regulations.

SECTION E. ABROGATION AND GREATER RESTRICTIONS

These Regulations are not intended to repeal, abrogate, or impair any existing easements, covenants or deed restrictions. However, where these Regulations and other restrictions conflict or overlap, whichever imposes the more stringent restrictions shall prevail.

SECTION F. INTERPRETATION

In the interpretation and application of these Regulations, all provisions shall be (1) considered as minimum requirements; (2) liberally construed in favor of the government body; and (3) deemed neither to limit nor repeal any other powers granted under State statutes.

SECTION G. WARNING AND DISCLAIMER OF LIABLITY

The degree of flood protection required by these Regulations is reasonable for regulatory purposes and is based on scientific and engineering considerations. On rare occasions, greater floods can and will occur and flood heights may be increased by man-made or natural causes. These Regulations do not imply that the land outside the areas of the special flood hazards or uses permitted within such areas will be free from flooding or flood damage. These Regulations shall not create liability on the part of Fort Bend County, or any official or employee thereof, for any flood damage that results from the reliance on these Regulations or any administrative decision lawfully made thereunder. Liability shall not be created on the part of Fort Bend County, or any official or employee thereof, for the flood damages that result from Owner non-compliance with these Regulations.

ARTICLE 4 ADMINISTRATION

SECTION A. DESIGNATION OF THE FLOODPLAIN ADMINISTRATOR

The **County Judge** is hereby appointed the Floodplain Administrator to administer and implement the provisions of these Regulations and other appropriate sections of 44 CFR (National Flood Insurance Program Regulations) pertaining to floodplain management.

The <u>County Engineer</u> is designated as the Floodplain Coordinator. The Development Permit and related information will be filed in the Community depository at the Fort Bend County Engineering Department.

SECTION B. <u>DUTIES AND RESPONSIBILITIES OF THE FLOODPLAIN</u> COORDINATOR

Duties and responsibilities of the Floodplain Coordinator shall include, but are not limited to, the following:

- 1. Maintain and hold open for public inspection all records pertaining to the provisions of these Regulations.
- 2. Review a permit application to determine whether proposed building site, including the placement of manufactured homes, will be reasonably safe from flooding.
- 3. Review, approve or deny all applications for Development Permits required by adoption of these Regulations.
- 4. Review permits for proposed development to assure all necessary permits have been obtained from those Federal, State or local governmental agencies (including Section 404 of the Federal Water Pollution Control Act Amendments of 1972, 33 U.S.C.1334) from which prior approval is required.
- 5. Where interpretation is needed as to the exact location of the boundaries of the areas of special flood hazards (for example, where there appears to be a

- conflict between a mapped boundary and actual field conditions) the Floodplain Coordinator shall make the necessary interpretation.
- 6. Notify, in riverine situations, adjacent communities and the State Coordinating Agency, which is the Texas Water Development Board (TWDB) and also the Texas Commission on Environmental Quality (TCEQ), prior to any alteration or relocation of a watercourse, and submit evidence of such notification to the Federal Emergency Management Agency.
- 7. Assure that the flood-carrying capacity within the altered or relocated watercourse is maintained.
- 8. When base flood elevation data has not been provided in accordance with Article 3, Section B, the Floodplain Coordinator shall obtain, review and reasonably utilize any base flood elevation data available from a Federal, State or other source, in order to administer the provisions of Article 5.
- 9. When a regulatory floodway has not been designated, the Floodplain Coordinator must require that no new construction, substantial improvements, or other development (including fill) shall be permitted within Zones A and AE on the Community's FIRM, unless it is demonstrated 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.
- 10. Under the provisions of 44 CFR Chapter 1, Section 65.12, of the National Flood Insurance Program regulations, a community may approve certain development in Zones A1-30, AE or AH on the community's FIRM which increases the water surface elevation of the base flood by more than 1 foot, provided that the community **first** completes all of the provisions required by Section 65.12. However, Fort Bend County has adopted rules that require a zero impact on any base flood water surface elevation.
- 11. The Floodplain Coordinator, or his duly authorized representative, may enter any building, structure, or premises to perform any duties imposed by these Regulations.

- 12. Determine non-compliance with diversion or impoundment of the natural flow of surface waters and referral to the County or District Attorney's Office for enforcement, when necessary.
- 13. Upon notice from the Floodplain Coordinator or designated representative that the work on any building, structure, dike, bridge, or any improvement which would affect water drainage, is being done contrary to the provisions of these Regulations, contrary to the site and/or building plans approved by the Floodplain Coordinator or designated representative, or in a dangerous or unsafe manner, such work shall be immediately stopped. 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. Where an emergency exists, no written notice shall be required to be given by the Floodplain Coordinator for referral to the County or District Attorney's Office for enforcement, when necessary.
- 14. The Floodplain Coordinator may revoke a permit issued under the provisions of these Regulations if there has been any false statement or misrepresentation as to a material fact in the application or plans upon which the permit or approval was based.
- 15. If any parcel of land is determined to be in violation of these Regulations, Fort Bend County shall file a notice in the real property records identifying any condition on the property that the Floodplain Coordinator determines violates the rules adopted by these Regulations.

SECTION C. PERMIT PROCEDURES

- 1. A Development Permit is required for any of the following actions:
 - a. Within an Area of Special Flood Hazard
 - Prior to the start of any Development
 - Repair of a Structure that has incurred Substantial Damage
 - b. Outside Areas of Special Flood Hazard
 - Construction of a fully enclosed Structure that meets or exceeds 100 square feet in area
 - Installation of pavement or roof coverings, impervious to rainwater, that meets or exceeds 100 square feet in area
 - Fill placement or excavation greater than 500 cubic yards per acre of land
 - Grading changes that cause an alteration to natural drainage flow and/or an increase in natural ground elevation by more than six (6) inches
- 2. The application for a Development Permit shall be presented by the owner or the agent of the owner specifically authorized to act on the owner's behalf on approved forms and may include, but is not limited to:
 - a. Site plan and/or survey from a registered surveyor showing the locations, dimensions and elevations of proposed landscape alterations, existing and proposed structures, including the placement of manufactured homes, and the location of the foregoing in relation to areas of special flood hazard; and relationship to all easements and roadways. The site plan shall be to scale or have sufficient dimensioning to clearly detail the location of the development.
 - b. Metes and bounds description of the property.
 - c. Permit fee, as reflected in the Fort Bend County fee schedule.

The Floodplain Coordinator may require the submission of additional information, drawings, specifications or documents, if he is unable to determine whether a permit should be issued from the information submitted.

The Floodplain Coordinator shall require permits from other Local, State, and Federal agencies prior to the issuance of a Development Permit. The owner is responsible for compliance with all applicable regulations and permit requirements and continued compliance consistent with County approvals.

- 3. The following requirements in addition to Article 4, Section C.2 will be completed for a Development Permit located within a Special Flood Hazard Area (floodplain/floodway):
 - a. Elevation (in relation to mean sea level), of the lowest floor (including basement) of all new and substantially improved structures;
 - b. Elevation (in relation to mean sea level), to which any non-residential structure shall be floodproofed;
 - c. A floodproofing certificate from a registered professional engineer or architect that the nonresidential floodproofed structure shall meet the flood proofing criteria of Article 5, Section B.2.
 - d. Description of the extent to which any watercourse or natural drainage will be altered or relocated as a result of proposed development;
 - e. Maintain a record of all such information in accordance with Article 4, Section B.1.
 - f. A mitigation plan will be provided for all development on the property to assure compliance with 44 CFR 60.3.
 - g. Upon receipt of the elevation certificate or floodproofing certificate and mitigation plan, the Floodplain Coordinator will sign and date

the original Development Permit and furnish the Applicant a signed copy;

- h. Applicant will inform the Floodplain Coordinator when construction of the lowest floor is to start.
- i. Applicant will deliver to the Floodplain Coordinator elevation certificate (FEMA 81-31) of "as-built" lowest floor elevation of the structure within (7) calendar days of completion of construction of the lowest floor, certified by a registered professional engineer, surveyor, or architect.
- 4. Approval or denial of a Development Permit by the Floodplain Coordinator shall be based on all of the provisions of all of these Regulations and the following relevant factors:
 - a. The danger to life or damage to property due to the flooding or erosion damage;
 - b. The susceptibility of the proposed facility and its contents to flood damage and the effect of such damage on the individual owner;
 - c. The danger that materials may be swept onto other lands to the injury of others;
 - d. The compatibility of the proposed use with existing and anticipated development;
 - e. The safety of access to the property in times of flood for ordinary and emergency vehicles;
 - f. The cost of providing governmental services during and after flood conditions including maintenance and repair of streets and bridges, and public utilities and facilities such as sewer, gas, electrical, and water systems;
 - g. The expected heights, velocity, duration, rate of rise and sediment

transport of the flood water and the effects of wave action if applicable, expected at the site;

- h. The necessity to the facility of a waterfront location, where applicable;
- i. The availability of alternative locations, not subject to flooding or erosion damage, for the purpose of use;
- j. The relationship of the proposed use to the comprehensive plan for that area; and
- 5. The Floodplain Coordinator shall determine the minimum elevation of the lowest floor (including basement) of a new or substantially improved structure for a Development Permit.
- 6. A Development Permit Application will be accepted and approved by the Floodplain Coordinator only after the Development Permit is deemed to be in complete compliance with all Fort Bend County Regulations.
- 7. The Development Permit will not be issued without dated signature of the Floodplain Coordinator or his designee.

SECTION D. VARIANCE PROCEDURES

- 1. The Fort Bend County Commissioners Court shall hear and render judgment on requests for variances from the requirements of these Regulations.
- 2. The Fort Bend County Commissioners Court shall hear and render judgment on an appeal only when it is alleged there is an error in any requirement, decision, or determination made by the Floodplain Coordinator in the enforcement or administration of these Regulations.
- 3. Any person or persons aggrieved by the decision of the Fort Bend County Commissioners Court may appeal such a decision in the courts of competent jurisdiction.

- 4. The Floodplain Coordinator shall maintain a record of all actions involving an appeal and shall report variances to the Federal Emergency Management Agency upon request.
 - 5. Variances may be issued for the reconstruction, rehabilitation or restoration of structures listed on the National Register of Historic Places, certified or preliminary, determined by the Secretary of Interior to contribute historical significance, the State Inventory of Historic Places, a local inventory (if one exists) or historic places in the Community that have been certified without regard to the procedures set forth in the remainder of these Regulations.
- 6. Variances may be issued for new construction and substantial improvements to be erected on a lot of one-half acre or less in size contiguous to and surrounded by lots with existing structures constructed below the base flood level, providing the relevant factors in Section C.4 of this Article have been fully considered. As the lot size increases beyond the one-half acre, the technical justification required for issuing a variance increases.
- 7. Upon consideration of the factors noted above and the intent of this Court order, the Fort Bend County Commissioners Court may attach such conditions to the granting of variances as it deems necessary to further the purpose and objectives of these Regulations (Article 1, Section C).
- 8. Variances shall not be issued within any designated floodway if any increase in flood levels during the base flood discharge would result.
- 9. 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 necessary to preserve the historic character and design of the structure.

10. Prerequisites for granting variances:

- a. Variances shall only be issued upon a determination that the variance is the minimum necessary, considering the flood hazard, to afford relief;
- b. Variances shall only be issued upon: (i) showing a good and sufficient

- cause; (ii) a determination that failure to grant the variance would result in exceptional hardship to the owner; 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 nuisances, cause fraud on or victimization of the public, or conflict with existing local laws or regulations; and
- c. Any owner to whom a variance is granted shall be given written notice that the structure will be permitted to be built with the lowest floor elevation below the base flood elevation, and that the cost of flood insurance will commensurate with the increased risk resulting from the reduced lowest floor elevation.
- 11. Variances may be issued by Commissioners Court for new construction and substantial improvements and for other development necessary for the conduct of a functionally dependent use provided that: (i) the criteria outlined in Article 4, Section D.1-9 are met; and (ii) the structure or other development is protected by methods that minimize flood damage during the base flood and create no additional threats to public safety.

ARTICLE 5 PROVISIONS FOR FLOOD HAZARD REDUCTION

SECTION A. GENERAL STANDARDS

In all areas of special flood hazards, the following provisions are required for all new construction and substantial improvements:

- All new construction or substantial improvements shall be designed (or modified) and adequately anchored to prevent floatation, collapse or lateral movement of structure resulting from hydrodynamic and hydrostatic loads, including the effects of buoyancy.
 - a. If fill material is to be used to elevate any structure in Zones A, A1-30, AE, AO, AH, AR, or A99, the following will apply:
 - Fill material must be compacted to at least 95% of Standard Laboratory Maximum Density (Standard Proctor) according to ASTM Standard D-698;
 - ii. Fill soils must be fine grained soils of low permeability, such as those classified as CH, CL, SC, or ML according to ASTM Standard D-2487, "Classification of Soils for Engineering Purposes." See Table 1804.2 in the "2000 International Building Code (IBC)" for description of these soils types;
 - iii. The fill material must be homogenous and isotropic; that is, the soil must be all of one material, and the engineering properties must be the same in all directions.
- 2. All new construction and substantial improvements shall be constructed by methods and practices that minimize flood damages.
- 3. All new construction or substantial improvements shall be constructed with materials resistant to flood damage.
- 4. All new construction or substantial improvements shall be constructed with electrical, heating, ventilation, plumbing, and air conditioning equipment and other service facilities that are designed and/or located as to prevent water from entering or accumulating within the components during conditions of flooding.

- 5. All new and replacement water supply systems shall be designed to minimize or eliminate infiltration of flood waters into the system.
- 6. New and replacement sanitary sewage systems shall be designed to minimize or eliminate infiltration of flood waters into the system and discharge from the system into flood waters.
- 7. On-site sewage facilities shall be located to avoid impairment to them or contamination from them during flooding.
- 8. No person may divert or impound the natural flow of surface waters or allow a diversion or impounding to continue in a manner that damages the property of another by the overflow of the water diverted or impounded. Any such damage, as established by a property owner claiming damage to his property and accepted by the Floodplain Coordinator, may result in an action as provided in Article 9.

SECTION B. SPECIFIC STANDARDS

Within areas of special flood hazards, where base flood elevation data has been provided as set forth in (i) Article 3, Section B, (ii) Article 4, Section B.8, or (iii) Article 5, Section C.3, the following provisions are required:

- 1. **RESIDENTIAL CONSTRUCTION** New construction and substantial improvement of any residential structure shall have the lowest floor (including basement), elevated **eighteen (18) inches** above the base flood elevation. A registered professional engineer, architect or land surveyor shall submit a certification to the Floodplain Coordinator that the standard of this subsection as proposed in Article 4, Section C.3.a, is satisfied.
- 2. NON-RESIDENTIAL CONSTRUCTION New construction and substantial improvements of any commercial, industrial or other non-residential structure shall either have the lowest floor (including basement) elevated eighteen (18) inches above the base flood level or, together with attendant utility and sanitary facilities, designed so that below the base flood level the structure 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. A registered professional engineer or architect shall develop and/or review structural design, specifications, and plans for construction, and shall certify that the design and methods of construction are in accordance with accepted standards of practice outlined in this subsection. A record of such certification which includes the specific elevation (in relation to mean sea level) to which such structures are flood-proofed shall be maintained by the Floodplain Coordinator.

- 3. ENCLOSURES New construction and substantial improvements, with fully enclosed areas below the lowest floor that are usable solely for parking of vehicles, building access or storage in an area other than a basement and are subject to flooding shall be designed to automatically equalize hydrostatic flood forces on exterior walls by allowing for the entry and exit of flood waters. Designs for meeting this requirement must either be certified by a registered professional engineer or architect or meet or exceed the following minimum requirements:
 - a. A minimum of two (2) openings on separate walls having a total net area of not less than one square inch for every square foot of enclosed area subject to flooding shall be provided;
 - b. The bottom of all openings shall be no higher than one (1) foot above grade; and
 - c. Openings shall be equipped with screens, louvers, valves or other coverings or devices provided that they permit the automatic entry and exit of flood waters.

4. MANUFACTURED HOMES

a. All manufactured homes, including manufactured housing as defined under Chapter 1201.003 (12), (18), and (20) of the Texas Occupation Code, to be placed or substantially improved within Zone A, shall be installed using methods and practices which minimize flood damage. For the purpose of this requirement, the bottom chord of the supporting I-beam of manufactured homes shall be elevated thirty-six (36) inches above natural adjacent grade or eighteen (18) inches

above BFE, whichever is the highest and anchored to resist floatation, 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 requirement is in addition to applicable state and local anchoring requirements for resisting wind forces.

- b. Manufactured homes may not be placed in a floodway.
- c. Fort Bend County has Regulations Concerning Minimum Standards for Manufactured Home Infrastructure Rental Communities, which must be complied with in addition to these Regulations if the land is to be developed into a manufactured home park.

5. RECREATIONAL VEHICLES

- a. Any recreational vehicle remaining at one location in excess of 180 days shall be permitted and elevated above the base flood elevation required. All recreational vehicles shall be tied down to resist floatation.
- b. Any person, who moves a recreational vehicle from a location in order to avoid having to permit, elevate and tie down as required in these Regulations, must remove the recreational vehicle for a period in excess of 24 hours. If the vehicle is removed for a period consisting of 24 hours or less, then the permitting requirements will apply and the property owner will be required to comply with the requirements set forth in "a" above.
- c. Any recreational vehicle that is being used as a residence must be permitted, elevated and tied down in the same manner as required for manufactured homes and the above 24 hour rule does not apply.
- d. All recreational vehicles shall be capable of evacuation under its own power or if dependent of external power, the vehicle shall be in running condition. A recreational vehicle is ready for highway use if it 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.

- e. Egress of recreational vehicles shall not be prevented by stored or fixed items such as stairs, porches, storerooms, etc.
- f. Recreational vehicles stored on a homeowner's lot where the house already exists are exempt from the 180-day permit regulations subject to other ordinances or restrictions. These vehicles must be unoccupied and not connected to water or sewer facilities. It must have a current license, inspection sticker, and be capable of highway use.

6. FILL MATERIAL AND EXCAVATION

- a. A Development Permit may not be required if less than 40 loads (500 cubic yards) of fill material or excavation per acre of land are added to or removed from the property and the land is not within the floodplain. Each acre may not be affected by more than 40 loads (500 cubic yards) of fill material or excavation. Property owner is required to equally disburse and spread fill material to ensure no more than 40 loads (500 cubic yards) of fill being placed on each acre.
- b. If more than 40 loads (500 cubic yards) of fill material or excavation are to be added or removed per acre of land, a Development Permit must be obtained from the Floodplain Coordinator. The property owner will be required to provide a hydraulic analysis (drainage plan) prepared by a registered professional engineer and approved by the Fort Bend County Drainage District.
- c. The property owner must be able to provide to the County information relating to the location from which the fill material came, if it was from a governmental project, and who hauled/delivered the fill material.
- d. Unless agreed to in writing by the adjoining landowner, fill material shall be placed no closer than ten (10) feet from the property line. Unless agreed to in writing by the adjoining landowner, excavations, except approved drainage facilities, shall not be allowed closer than

twenty (20) feet plus twice the depth of the excavation from the property line.

- e. If the fill is placed or an excavation is proposed that modifies the natural flow of water on the property, outside an Area of Special Flood Hazard, then the property owner is required to mitigate for the altered flow. Natural flow could be by sheet flow, swale, ditch, slough or other natural or man-made means of conveyance of water. Mitigation could include ditches, swales, detention/retention ponds and any other means approved by the Floodplain Coordinator.
- f. All fill material must be spread evenly, in accordance with the applicable Development Permit, within six (6) months of the Permit issuance date. If the fill material is not spread within this time period, the Floodplain Coordinator may require that the property owner remove the fill material.

SECTION C. STANDARDS FOR SUBDIVISION PROPOSALS

- 1. All subdivision proposals including manufactured home parks and subdivisions shall be consistent with Article 1, Sections B, C, and D of these Regulations.
- 2. All proposals for development of subdivisions including manufactured home parks and subdivisions shall meet Development Permit requirements of Article 3, Section C; Article 4, Section C; and the provisions of Article 5 of these Regulations.
- 3. Base flood elevation data shall be generated for subdivision proposals and other proposed development including manufactured home parks and subdivisions, which are greater than 50 lots or five (5) acres, whichever is lesser, if not otherwise provided pursuant to Article 3, Section B or Article 4, Section B.8 of these Regulations.
- 4. All subdivision proposals including manufactured home parks and subdivisions shall have adequate drainage provided to reduce exposure to flood hazards.

5. All subdivision proposals including manufactured home parks and subdivisions shall have public utilities and facilities such as sewer, gas, electrical and water systems located and constructed to minimize or eliminate flood damage.

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

Located within the areas of special flood hazard established in Article 3, Section B, are areas designated as shallow flooding. These areas have special flood hazards associated with base flood depths of 1 to 3 feet where a clearly defined channel does not exist and where the path of flooding is unpredictable and where velocity flow may be evident. Such flooding is characterized by ponding or sheet flow; therefore, the following provisions apply;

- 1. All new construction and substantial improvements of **residential** structures have the lowest floor (including basement) elevated above the highest adjacent grade at least as high as one foot above the depth number specified in feet on the Community's FIRM (at least two feet if no depth number is specified).
- 2. All new construction and substantial improvements of nonresidential structures;
 - a. Have the lowest floor (including basement) elevated above the highest adjacent grade at least as high as one foot above the depth number specified in feet on the Community's FIRM (at least two feet if no depth number is specified), or;
 - b. Together with attendant utility and sanitary facilities be designed so that below one foot above the base flood level the structure is watertight with walls substantially impermeable to the passage of water and with structural components having the capability of resisting hydrostatic and hydrodynamic loads of effects of buoyancy.
- 3. A registered professional engineer or architect shall submit a certification to the Floodplain Coordinator that the standards of this Section, as proposed in

Article 4, Section C, are satisfied.

4. Require within Zones AH or AO adequate drainage paths around structures on slopes, to guide flood waters around and away from proposed structures.

SECTION E. FLOODWAYS

Floodways – located within areas of special flood hazard established in Article 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 erosion potential, the following provisions shall apply:

- 1. Encroachments are prohibited, including fill, new construction, substantial improvements and other development within the adopted regulatory floodway unless it has been demonstrated through hydrologic and hydraulic analyses performed in accordance with standard engineering practice that the proposed encroachment would not result in any increase in flood levels within the Community during the occurrence of the base flood discharge.
- 2. If Article 5, Section E.1 above is satisfied, all new construction and substantial improvements shall comply with all applicable flood hazard reduction provisions of Article 5.
- 3. Under the provisions of 44 CFR Chapter 1, Section 65.12, of the National Flood Insurance Program Regulations, a community may permit encroachments within the adopted regulatory floodway that would result in an increase in base flood elevations, provided that the community **first** completes all of the provisions required by Section 65.12. However, Fort Bend County has adopted rules that require a zero impact on any base flood water surface elevation.
- 4. The storage of hazardous materials, in any form, is prohibited within the boundaries of the regulatory floodway as delineated on the Community's FIRM.

SECTION F. ADDITIONAL REQUIREMENTS FOR BASE FLOOD ELEVATIONS

Fort Bend County will require an elevation to **eighteen (18) inches** above the base flood elevation for development in flood hazard area Zones "A" and "AE", as indicated on the National Flood Insurance Program FIRM map for the County.

When a residential or non-residential structure is intended to be constructed in an approximate Zone A, a BFE must be determined by using the same engineering standards and methods that are used to develop BFEs in a Flood Insurance Study (FIS) or other technical methods recommended by the County Drainage Engineer and approved by the Floodplain Coordinator.

Fort Bend County will require compliance with the Fort Bend County Drainage Criteria Manual which is incorporated by reference herein and may be obtained from the Fort Bend County Clerk, the Fort Bend County Engineer or the Fort Bend County Drainage District Engineer.

ARTICLE 6 UTILITIES

Any structure or other development may not be connected for water, sewer, and electricity or gas utility services if it is not in compliance with these Regulations.

ARTICLE 7 HAZARDOUS WASTE

SECTION A. DEFINITIONS

- 1. "Hazardous Waste Management Facilities" included facilities for storage, processing or disposal of any waste identified or listed as hazardous by the Administrator of the United States Environmental Protection Agency, pursuant to 42 U.S.C.6901, et seq., as amended.
- 2. On Site Storage Processing or Disposal includes those activities defined in Section 335.42 (a) (44) [156.22.05.102 (a) (44)] Texas Administrative Code.

SECTION B. STATEMENT OF PURPOSE

In order to promote and protect the public interest in providing appropriate protection against the perils of flood losses, no building or Development Permits will be granted for the construction of any injection well or other type of disposal site for hazardous material or any hazardous waste management facilities in any flood prone areas or floodplain areas having special flood hazards, as delineated on the Official Flood Hazard Map of Fort Bend County, with the exception of hazardous waste management facilities for storage, processing or disposal of on-site generated waste. [See Article 5, Section A.6 and A.7].

ARTICLE 8 OTHER REGULATIONS

In addition to the Regulations herein, prior to the issuance of Development Permit, the development must also comply with all regulations of Fort Bend County including:

ON-SITE SEWERAGE FACILITIES SYSTEM (OSSF) PERMITS: OSSF permits are required in accordance the Texas Health and Safety Code and Fort Bend County regulations for all properties that do not obtain a connection to an approved sewer system. Development shall comply with the requirements of Fort Bend County Environmental Health Department.

DRAINAGE PLAN: Fort Bend County has adopted a Drainage Criteria Manual. The development of any tract of land or building of any structure shall include detention and other drainage facilities. All development shall be approved by the Fort Bend County Drainage District Engineer.

MANUFACTURED HOME REGULATIONS: The development of a manufactured home park shall comply with Regulations Concerning Minimum Infrastructure Standards for Manufactured Home Rental Communities as adopted by Fort Bend County.

SUBDIVISIONS: All subdivisions shall comply with the requirements of the Regulations of Subdivisions as adopted by Fort Bend County.

LIFE SAFETY: Fort Bend County has established standards for fire protection and life safety. All development subject to these rules shall be approved by the Fort Bend County Fire Marshal.

OUTDOOR LIGHTING: Fort Bend County has adopted Outdoor Lighting Regulations. All development shall obtain approval of the Outdoor Lighting Plan prior to issuance of a Development Permit.

SIGNS: Fort Bend County has established regulations for signs along and visible from Tollroads. All development subject to these rules shall obtain approval of all proposed signs prior to issuance of a Development Permit.

ARTICLE 9 VIOLATIONS AND PENALTIES

SECTION A. REVOCATION OF PERMIT

The Floodplain Coordinator may revoke a permit or approval issued under the provisions of these Regulations, in cases where there have been false statement or misrepresentation as to a material fact in the application or plans upon which the permit or approval was based.

SECTION B. CONTEMPT OF COMMISSIONERS COURT

Any person, firm, corporation or agent who shall violate a provision of these Regulations, or fail to comply therewith, or with any of the requirements therefore, or who shall erect, construct, or alter any structure, or has erected, constructed, altered or repaired a building or structure in violation, shall be guilty of Contempt of Commissioners Court of Fort Bend County, Texas. Each person shall be deemed guilty of a separate offense for each and every day or portion thereof during which any violation of any such provisions of these Regulations is committed, or continued and upon conviction of any such violation such person shall be punished within the limits as provided by state law.

Commissioners Court may punish cases of contempt by fine or imprisonment in accordance with the provisions of Section 81.023 of the Texas Local Government Code, as amended. Any person securing a permit under these Regulations does so on the representation to Commissioners Court that he will comply with the terms of the permit and with these requirements and other County regulations. Commissioners Court has the power to enforce its orders by civil contempt for violations of such representations. If the Commissioners Court finds the defendant to be guilty of contempt, it will enter such orders consistent with general law as it deems appropriate to punish the person guilty of contempt, and will enter such other and further orders enforceable by civil and criminal contempt, and consistent with its authority under general laws, as Commissioners Court deems necessary to enforce and protect its jurisdiction over the matter, and to uphold the integrity of these Regulations. Procedures for contempt proceedings before Commissioners Court will be consistent with procedures in actions before other courts in this State for enforcement of court orders, and for the protection of the jurisdiction of courts by the process of contempt.

SECTION C. VIOLATION AND PENALTIES

No structure or land shall hereafter be constructed, located, extended, converted, or altered without full compliance with the terms of these Regulations and other applicable regulations. Violation of the provisions of these Regulations by failure to comply with any of its requirements (including violations of conditions and safeguards established in connection with conditions) shall constitute a misdemeanor.

Any person who violates these Regulations or fails to comply with any of its requirements shall upon conviction thereof be fined not more than \$500.00 for each violation. Each violation of these Regulations and each day of a continuing violation is a separate offense.

Nothing herein contained shall prevent the Community from taking such other lawful action as is necessary to prevent or remedy any violation.

If it appears that a person has violated, is violating or is threatening to violate these Regulations in any manner, the County may institute a civil suit in the appropriate court for injunctive relief to restrain the person from continuing the violation or threat of violation including, but not limited to, an order directing the person to remove illegal improvements and restore preexisting conditions. In addition, a person who violates these Regulations is subject to a civil penalty of not more than \$100.00 for each act of violation and for each day of violation.

Any person who diverts or impounds the natural flow of surface waters or permits a diversion or impounding by him to continue in a manner that damages the property of another by the overflow of the water diverted or impounded may be subject to a civil suit in the appropriate court for injunctive relief to restrain the person from continuing the violation and directing the person to remove illegal improvements and restore the property to preexisting conditions and seek a civil penalty of \$100.00 for each act of violation and for each day of the violation.

Fort Bend County shall file against any parcel of land that is in violation of these Regulations, a notice in the real property records identifying any condition on the property that the County determines violates the rules adopted by these Regulations.

No Person may provide utility services that connect the land and/or improvements with utility services without written certification from the County that the property complies with rules adopted.

END