LOUDON COUNTY COMMISSION WORKSHOP

Loudon, Tennessee Tuesday January 21, 2020 County Building To Directly Follow Special Called Meeting

AGENDA

1.	General	Public	Comments

2. Loudon County Mayor - Buddy Bradshaw

- A. Sesquicentennial Proclamation
- B. E-911 Board Term Update

3. Director of Procurement – Susan Huskey

- A. Multi-Year Contract (36 months) for Wide-Format Plotter for Register of Deeds. Cost- \$262.00 per Month (Includes Paper & Toner)
- B. Multi-Year Copier Contract (60 Months) for General Sessions Court. Cost- \$76.53 per Month

4. Planning Director – Laura Smith

A. A Resolution to amend the <u>Loudon County Zoning Resolution</u>, Article 4, Supplementary Provisions Applying to Specific Districts, Section 4.090. Standards for Signs, Billboards, and Other Advertising Structures pursuant to <u>Tennessee Code Annotated</u>, Section 13-7-105

5. Codes Enforcement Director – Jim Jenkins

B A Resolution amending the <u>Loudon County Flood Damage Prevention Resolution</u> replacing <u>Resolution 120406-I</u> with the updated <u>Loudon County Flood Damage Prevention Resolution</u>

6. Commissioner Van Shaver

- A. What to do About Planning Office
- B. Update on Use of Loudon County Roads for Organized Events, Runners, and Bicycles

7. Director of Accounts & Budgets – Tracy Blair

A. Budget Committee Recommendations

Proclamation



Whereas, in celebration of the sesquicentennial of Loudon County, I find it fitting to recognize this 150 year milestone and commemorate our distinguished history; and

Whereas, Loudon County, named in honor of Fort Loudoun, was formed in 1870 from parts of Roane, Monroe and Blount Counties, boasting 247 square miles of land and water that provide opportunities for agriculture, business and industry, commerce and recreation and where more than 50,000 residents live productive lives; and

Whereas, Loudon County is marking our 150th anniversary by supporting a multitude of community events by partnering with many educational, faith-based, civic, historical organizations, and clubs and special interest groups; and

Whereas, we are honored to celebrate 150 years of Loudon County and pleased to recognize the attributes that make Loudon County a great place to live, work and worship; and

Whereas, a rich history and heritage has shaped us into the county we are today, we are thankful for those before us that prepared the way; and

Now, Therefore I, Buddy Bradshaw, Loudon County Mayor, do hereby proclaim the year of 2020 as a year of historical celebration and proclaim Saturday, June 20, 2020 as Loudon County Historical Recognition Day.

I urge all citizens to join in celebrating our history and heritage. May God continue to bless Loudon County for generations to come.

Signature Buddy Bradshaw Loudon County Mayor

LOUDON COUNTY COMMISSION RESOLUTION 020320- *

RESOLUTION APPROVING OR ACKNOWLEDGING BOARD OR COMMITTEE APPOINTMENT BY COUNTY MAYOR

WHEREAS, by statute, and/or intergovernmental agreement and/or County Procedural Regulations, the County Mayor has the authority to make certain committee and board appointments; and

WHEREAS, appointments are necessary and/or desirable at this time with a 4 year rotation term; and

WHEREAS, the County Mayor appoints the following members of the:

E-911 BOARD

	Appointee			Term Expiration
	Travis Grey	Panel C- Loudon	City Codes	February 2024
	Bill Hart	Panel C- Rescue	Squad Chief	February 2024
	Ronnie Lett	Panel C- Greenb	ack Fire Chief	February 2024
	NOW, THEREFORE, BE session assembled this appropriate) the said a	3 rd day of February,		nmission, meeting in regular or acknowledges (as
ATTEST	<u>[:</u>		Loudon County Com	mission Chairman
Loudor	County Clerk			
Loudon	r county cicin		Loudon County Mayo	r
The rem	naining members and thei	r continuing expiration	n terms for said board or	committee are as follows:
	Tim Guider P	anel A- Loudon Count	y Sheriff	February 2022

Panel A- Loudon County Commissioner

Panel A- Loudon City Police Chief

Panel B- Loudon County EMA

Panel B- Lenoir City Fire Chief

Panel B- Lenoir City Police Chief

David Meers

James Webb

Daryl Smith

Don White

Richard Martin

February 2022

February 2022

February 2023 February 2023

February 2023

RESOI	LUTION NO.	
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A RESOLUTION TO AMEND THE <u>LOUDON COUNTY ZONING</u>
<u>RESOLUTION</u>, ARTICLE 4, SUPPLEMENTARY PROVISIONS APPLYING TO
SPECIFIC DISTRICTS, SECTION 4.090. STANDARDS FOR SIGNS, BILLBOARDS,
AND OTHER ADVERTISING STRUCTURES PURSUANT TO <u>TENNESSEE CODE</u>
<u>ANNOTATED</u>, SECTION 13-7-105

WHEREAS, the Loudon County Commission, in accordance with Chapter Seven, §13-7-105 of the <u>Tennessee Code Annotated</u>, may from time to time, amend the number, shape, boundary, area or any regulation of or within any district or districts, or any other provision of any zoning resolution, and

WHEREAS, the Loudon County Regional Planning Commission has forwarded its recommendation regarding the amendment to the <u>Zoning Resolution of Loudon County</u>, <u>Tennessee</u>, and

WHEREAS, a notice of public hearing and a description of the resolution appeared in the Loudon County newspaper, the <u>Daily Edition</u> on December 6, 2019 consistent with the provisions of Tennessee Code Annotated, §13-7-105; and

NOW, THEREFORE, BE IT RESOLVED that the <u>Loudon County Zoning Resolution</u> be amended as follows:

Section 1. That the paragraph under Section 4.090. Standards for Signs, Billboards, and Other Advertising Structures, shall be amended by deleting it in its entirety and replacing it with the following:

4.090. <u>Standards for Signs</u>, <u>Billboards</u>, <u>and Other Advertising Structures</u>. These conditions are established as a reasonable and impartial method of regulating advertising structures in order to insure light, air, and open space, to reduce hazards at intersections, and to protect property values of the entire community. Applications for signs shall be made to the County Building Commissioner. The regulations for signs, billboards, and other advertising structures are enumerated below:

Section 2. That subheading, <u>A. of Section 4.090. Standards for Signs. Billboards, and Other Advertising Structures.</u> shall be amended by deleting it in its entirety and replacing it with the following:

- A. In any zoning district, the following general regulations shall apply as well as the regulations in Loudon County's adopted Building Code.
- Section 3. That subsection A. 2, in <u>Section 4.090</u>. <u>Standards for Signs</u>, <u>Billboards</u>, and <u>Other Advertising Structures</u>, shall be amended by deleting it in its entirety and replacing it with the following:
 - 2. No sign having flashing, intermittent or animated illumination shall be permitted within three hundred (300) feet of property in any suburban residential district unless such sign is not visible from such property except for non-commercial, churches, schools, and public buildings which may have electronic message display signs that are capable of displaying words, symbols, figures, or images than can be electronically changed by remote or automatic means and are static or depicted for a minimum of ten (10) seconds and transition from one message to another and shall be continuous without fade-outs, animation or other type of movement between messages and shall be designed and equipped to immediately freeze or discontinue the device in one position if a malfunction occurs and shall not be brighter than necessary for clear and adequate visibility or of such intensity that it interferes with the effectiveness of an official traffic control device. The owner is responsible for making any adjustments to the brightness of the electronic message sign and to monitor it ensuring it automatically adjusts to the natural ambient light conditions and to report notice of non-compliance to the Loudon County Building Official. Animated video or continuous scrolling of messages is prohibited.

BE IT FINALLY RESOLVED, that this Resolution shall take effect immediately, the public welfare requiring it.

LOUDON COUNTY COURT CLERK
ATTEST:
LOUDON COUNTY COMMISSION CHAIRMAN
DATE:
APPROVED: LOUDON COUNTY MAYOR
The votes on the question of approval of this Resolution by the Planning Commission on $\underline{\text{Oct. }15,2019}$ are as follows:
APPROVED: 10
Pame a DMLaw
ATTEST: SECRETARY LOUDON COUNTY
REGIONAL PLANNING COMMISSION

Proposed Changes to Section 4.090

Standards for Signs, Billboards, & Other Advertising Structures

Resolution Amendment proposed additions are highlighted proposed deletions have strikethrough

4.090. <u>Standards for Signs, Billboards, and Other Advertising Structures.</u> These conditions are established as a reasonable and impartial method of regulating advertising structures in order to insure light, air, and open space, to reduce hazards at intersections, and to protect property values of the entire community. <u>Applications for signs shall be made to the County Building Commissioner.</u> The regulations for signs, billboards, and other advertising structures are enumerated below:

- A. In any zoning district, the following general regulations shall apply as well as the regulations in Loudon County's adopted Building Code. Chapter 23, "Signs and Outdoor Displays," of the Southern Standard Building Code.
 - 1. No sign shall be erected or maintained where by reason of its position, wording, illumination, size, shape, or color it may obstruct, impair, obscure, interfere with the view of, or be confused with, any authorized traffic control sign, signal, or device.
 - 2. No sign having flashing, intermittent or animated illumination shall be permitted within three hundred (300) feet of property in any suburban residential district unless such sign is not visible from such property, except for non-commercial, churches, schools, and public buildings which may have electronic message display signs that are capable of displaying words, symbols, figures, or images than can be electronically changed by remote or automatic means and are static or depicted for a minimum of ten (10) seconds and transition from one message to another and shall be continuous without fade-outs, animation or other type of movement between messages and shall be designed and equipped to immediately freeze or discontinue the device in one position if a malfunction occurs and shall not be brighter than necessary for clear and adequate visibility or of such intensity that it interferes with the effectiveness of an official traffic control device. The owner is responsible for making any adjustments to the brightness of the electronic message sign and to monitor it ensuring it automatically adjusts to the natural ambient light conditions and to report notice of non-compliance to the Loudon County Building Official. Animated video or continuous scrolling of messages is prohibited.
 - 3. No illuminated sign shall be permitted within fifty (50) feet of property in any residential district unless the illumination of such sign is so designed that it does not shine or reflect light onto such property.
 - 4. No billboard or ground sign shall be erected to exceed the maximum height limitation for the district in which it is located. No billboard shall exceed fifty (50) feet in length. The bottom coping of every ground sign shall be at least three (3) feet above the ground or street level.

- 5. Billboards and other similar outdoor advertising structures shall be erected or placed in conformity with the side, front, and rear yard requirements of the district in which located. However, no billboard shall be erected or placed closer than within one hundred (100) feet of any R-1 and/or A-2 district.
- 6. Signs erected and overhanging any sidewalk must be placed at least nine (9) feet above the sidewalk and may extend over the sidewalk a distance equal to two-thirds (2/3) the width of the sidewalk, but in no case exceeding ten (10) feet.
- 7. Professional signs and signs for home occupations shall not exceed four (4) square feet in area in the R-1 and C-1 districts.
- 8. No building walls or roofs shall be used for display of advertising in any district.
- 9. Temporary signs and posters are subject to the following regulations:
 - a. Each sign shall not exceed (5) square feet in area.
 - b. The sign shall not be located closer together than five hundred (500) feet.
 - c. No such signs shall be allowed in any residential zone.
 - d. Such signs shall not be nailed to trees, fence posts or public utility poles and shall not be located in the public right-of-way.
 - e. All such signs advertising events shall be removed within ten (10) days after the event date.
- 10. In any district, the following signs shall be permitted:
 - a. For parking areas, entrance and exit signs not exceeding four (4) square feet in area and not more than one (1) sign not more than sixteen (16) square feet in area identifying or designating the conditions of the use of such parking area.
 - b. Non-illuminated "For Sale" or "For Rent" signs not exceeding four (4) square feet in area.

- c. One (1) sign not more than twelve (12) square feet in area giving the names of the contractors, engineers, or architect, during construction of a building.
- d. Signs established by, or by order of, any governmental agency.
- e. For special events of public interest, one (1) sign not over thirty-two (32) square feet in area located upon the site of the event.
- B. In A-1, Agriculture-Forestry Districts, the following regulations shall apply:
 - 1. Name plates indicating name, address, house number, announcement of boarders or roomers, or customary home occupations are permitted.
 - 2. Not more than two (2) non-illuminated signs not to exceed a total of thirty-two (32) square feet in area, advertising the sale of farm products produced on the premises shall be permitted.
 - 3. Church, school, or public buildings, bulletin boards, or identification signs, not exceeding forty (40) square feet in area.
 - 4. Flashing or intermittent illumination is prohibited.
 - 5. Billboards and other advertising structure are prohibited.
 - 6. Business signs, not to exceed one and one-half (1-1/2) square feet of surface area for each one (1) lineal foot of face of building, relating to the business on the premises will be permitted.
- C. In A-2 Rural Residential District, the following regulations shall apply:
 - 1. Nameplates indicating name, address, house number, announcement of boarders or roomers, or customary home occupations are permitted.
 - 2. Not more than two (2) non-illuminated signs not to exceed a total of thirty-two (32) square feet in area, advertising the sale of agricultural products produced on the premises shall be permitted.
 - 3. Church, school, or public building bulletin boards or identification signs, not exceeding thirty (30) square feet in area are permitted.
 - 4. Billboards or other advertising structures are prohibited, except certain directional signs intended to guide the general public to areas designated

Resolution Amendment proposed additions are highlighted proposed deletions have strikethrough

by the planning commission as possessing scenic, historical, or recreational value. However, such directional signs shall not exceed sixty-four (64) feet in area.

- 5. Flashing or intermittent illumination is prohibited.
- D. In the R-1, Suburban-Residential District, the following regulations shall apply:
 - 1. Nameplates indicating name, address, house number, announcement of boarders or roomers, or customary home occupations are permitted.
 - 2. For apartment buildings, identification signs not exceeding nine (9) square feet in area are permitted.
 - 3. Church, school, or public building bulletin boards or identification signs not exceeding twenty (20) square feet in area are permitted.
 - 4. Flashing or intermittent illumination is prohibited.
 - 5. Billboards or other advertising structures are prohibited.
- E. In the C-1, Rural Center District, the following regulations shall apply:
 - 1. Nameplates indicating name, address, house number, announcement of boarders or rooms for rent, or customary home occupations are permitted.
 - 2. Churches, schools, or public buildings, identification signs or bulletin boards not exceeding sixty (60) square feet in area are permitted.
 - 3. For other permitted uses, one (1) business sign not exceeding one (1) square foot of surface for each two (2) lineal feet of lot fronting on a public street will be permitted. Such sign shall be mounted on the premises and shall be directly related to the activity conducted on said premises.
 - 4. Billboards and other general advertising structures are prohibited.
- F. In the C-2, General Commercial District, the following regulations shall apply:
 - 1. Bulletin board or identification signs, not exceeding sixty (60) square feet in area, shall be permitted for public recreation uses, community facilities, hospitals, and clinics.

Resolution Amendment proposed additions are highlighted proposed deletions have strikethrough

- 2. Business signs shall be permitted subject only to the restrictions in Section 4.090.A of this Resolution. All ground signs shall be located not closer to any property line than one-half (1/2) the required setbacks.
- 3. Billboards and other outdoor advertising structures are permitted in the C-2 General Commercial District subject to the general restrictions set forth in Section 4.090.A.
- G. In the M-1, General Industrial District, the following regulations shall apply:
 - 1. Business signs shall be permitted which relate to the business on the premises. Such signs shall be located not closer than one-half (1/2) the required setback from all property lines.
 - 2. Flashing and intermittent illumination is prohibited.
 - 3. Billboards and other outdoor advertising structures are permitted.
- H. In the F-1, Floodway District, the following regulations shall apply.
 - 1. There shall be permitted for public parks, playgrounds, and other outdoor recreational uses, signs not exceeding thirty-two (32) square feet in area.
 - 2. Flashing intermittent illumination is prohibited.
 - 3. Billboards and other outdoor advertising structures are prohibited.
- I. In the 0-1, Office-Professional District, the following regulations shall apply.
 - 1. One (1) on-premise freestanding sign not to exceed one hundred (100) square feet in area and no more than ten (10) in height.
 - 2. One (1) wall sign per business establishment not to exceed one (1) square foot for each lineal foot of the business's primary facade.
 - 3. Billboards or other similar signs, advertising structures, portable/temporary signs or banners are prohibited.

Existing Section 4.090

Standards for Signs, Billboards, & Other Advertising Structures

4.090. Standards for Signs, Billboards, and Other Advertising Structures. These conditions are established as a reasonable and impartial method of regulating advertising structures in order to insure light, air, and open space, to reduce hazards at intersections, and to protect property values of the entire community. The regulations for signs, billboards, and other advertising structures are enumerated below:

- A. In any zoning district, the following general regulations shall apply as well as the regulations in Chapter 23, "Signs and Outdoor Displays," of the <u>Southern</u> Standard Building Code.
 - 1. No sign shall be erected or maintained where by reason of its position, wording, illumination, size, shape, or color it may obstruct, impair, obscure, interfere with the view of, or be confused with, any authorized traffic control sign, signal, or device.
 - 2. No sign having flashing, intermittent or animated illumination shall be permitted within three hundred (300) feet of property in any suburban residential district unless such sign is not visible from such property.
 - 3. No illuminated sign shall be permitted within fifty (50) feet of property in any residential district unless the illumination of such sign is so designed that it does not shine or reflect light onto such property.
 - 4. No billboard or ground sign shall be erected to exceed the maximum height limitation for the district in which it is located. No billboard shall exceed fifty (50) feet in length. The bottom coping of every ground sign shall be at least three (3) feet above the ground or street level.
 - 5. Billboards and other similar outdoor advertising structures shall be erected or placed in conformity with the side, front, and rear yard requirements of the district in which located. However, no billboard shall be erected or placed closer than within one hundred (100) feet of any R-1 and/or A-2 district.
 - 6. Signs erected and overhanging any sidewalk must be placed at least nine (9) feet above the sidewalk and may extend over the sidewalk a distance equal to two-thirds (2/3) the width of the sidewalk, but in no case exceeding ten (10) feet.
 - 7. Professional signs and signs for home occupations shall not exceed four (4) square feet in area in the R-1 and C-1 districts.
 - 8. No building walls or roofs shall be used for display of advertising in any district.

- 9. Temporary signs and posters are subject to the following regulations:
 - a. Each sign shall not exceed (5) square feet in area.
 - b. The sign shall not be located closer together than five hundred (500) feet.
 - c. No such signs shall be allowed in any residential zone.
 - d. Such signs shall not be nailed to trees, fence posts or public utility poles and shall not be located in the public right-of-way.
 - e. All such signs advertising events shall be removed within ten (10) days after the event date.
- 10. In any district, the following signs shall be permitted:
 - a. For parking areas, entrance and exit signs not exceeding four (4) square feet in area and not more than one (1) sign not more than sixteen (16) square feet in area identifying or designating the conditions of the use of such parking area.
 - b. Non-illuminated "For Sale" or "For Rent" signs not exceeding four (4) square feet in area.
 - c. One (1) sign not more than twelve (12) square feet in area giving the names of the contractors, engineers, or architect, during construction of a building.
 - d. Signs established by, or by order of, any governmental agency.
 - e. For special events of public interest, one (1) sign not over thirty-two (32) square feet in area located upon the site of the event.
- B. In A-1, Agriculture-Forestry Districts, the following regulations shall apply:
 - 1. Name plates indicating name, address, house number, announcement of boarders or roomers, or customary home occupations are permitted.
 - 2. Not more than two (2) non-illuminated signs not to exceed a total of thirty-two (32) square feet in area, advertising the sale of farm products produced on the premises shall be permitted.
 - 3. Church, school, or public buildings, bulletin boards, or identification signs, not exceeding sixty (60) square feet in area are permitted.

- 4. Flashing or intermittent illumination is prohibited.
- 5. Billboards and other advertising structure are prohibited.
- 6. Business signs, not to exceed one and one-half (1-1/2) square feet of surface area for each one (1) lineal foot of face of building, relating to the business on the premises will be permitted.
- C. In A-2 Rural Residential District, the following regulations shall apply:
 - 1. Nameplates indicating name, address, house number, announcement of boarders or roomers, or customary home occupations are permitted.
 - 2. Not more than two (2) non-illuminated signs not to exceed a total of thirty-two (32) square feet in area, advertising the sale of agricultural products produced on the premises shall be permitted.
 - 3. Church, school, or public building bulletin boards or identification signs, not exceeding thirty (30) square feet in area are permitted.
 - 4. Billboards or other advertising structures are prohibited, except certain directional signs intended to guide the general public to areas designated by the planning commission as possessing scenic, historical, or recreational value. However, such directional signs shall not exceed sixty-four (64) feet in area.
 - 5. Flashing or intermittent illumination is prohibited.
- D. In the R-1, Suburban-Residential District, the following regulations shall apply:
 - Nameplates indicating name, address, house number, announcement of boarders or roomers, or customary home occupations are permitted.
 - 2. For apartment buildings, identification signs not exceeding nine (9) square feet in area are permitted.
 - 3. Church, school, or public building bulletin boards or identification signs not exceeding twenty (20) square feet in area are permitted.
 - 4. Flashing or intermittent illumination is prohibited.
 - 5. Billboards or other advertising structures are prohibited.

- E. In the C-1, Rural Center District, the following regulations shall apply:
 - 1. Nameplates indicating name, address, house number, announcement of boarders or rooms for rent, or customary home occupations are permitted.
 - 2. Churches, schools, or public buildings, identification signs or bulletin boards not exceeding sixty (60) square feet in area are permitted.
 - 3. For other permitted uses, one (1) business sign not exceeding one (1) square foot of surface for each two (2) lineal feet of lot fronting on a public street will be permitted. Such sign shall be mounted on the premises and shall be directly related to the activity conducted on said premises.
 - 4. Billboards and other general advertising structures are prohibited.
- F. In the C-2, General Commercial District, the following regulations shall apply:
 - 1. Bulletin board or identification signs, not exceeding sixty (60) square feet in area, shall be permitted for public recreation uses, community facilities, hospitals, and clinics.
 - 2. Business signs shall be permitted subject only to the restrictions in Section 4.090.A of this Resolution. All ground signs shall be located not closer to any property line than one-half (1/2) the required setbacks.
 - 3. Billboards and other outdoor advertising structures are permitted in the C-2 General Commercial District subject to the general restrictions set forth in Section 4.090.A.
- G. In the M-1, General Industrial District, the following regulations shall apply:
 - 1. Business signs shall be permitted which relate to the business on the premises. Such signs shall be located not closer than one-half (1/2) the required setback from all property lines.
 - 2. Flashing and intermittent illumination is prohibited.
 - 3. Billboards and other outdoor advertising structures are permitted.
- H. In the F-1, Floodway District, the following regulations shall apply.

- 1. There shall be permitted for public parks, playgrounds, and other outdoor recreational uses, signs not exceeding thirty-two (32) square feet in area.
- 2. Flashing intermittent illumination is prohibited.
- 3. Billboards and other outdoor advertising structures are prohibited.
- I. In the 0-1, Office-Professional District, the following regulations shall apply.
 - 1. One (1) on-premise freestanding sign not to exceed one hundred (100) square feet in area and no more than ten (10) in height.
 - 2. One (1) wall sign per business establishment not to exceed one (1) square foot for each lineal foot of the business's primary facade.
 - 3. Billboards or other similar signs, advertising structures, portable/temporary signs or banners are prohibited.

RESOL	LUTION NO.	

A RESOLUTION AMENDING THE <u>LOUDON COUNTY FLOOD DAMAGE</u> <u>PREVENTION RESOLUTION</u> REPLACING RESOLUTION 120406-1 WITH THE UPDATED <u>LOUDON COUNTY FLOOD DAMAGE PREVENTION</u> RESOLUTION

WHEREAS, the Loudon County Commission, in accordance with Chapter Seven, Section 13-7-105 of the Tennessee Code Annotated, may from time to time amend the number, shape, boundary, area or any regulation of or within any districts, or any other provision of the zoning resolution; and

WHEREAS, to remain in compliance with the eligibility and compliance in the National Flood Insurance Program (NFIP) and in order to meet NFIP regulations found in Title 44 of the Code of Federal Regulations (CFR), Ch. 1, Section 60.03; and

WHEREAS, the Regional Planning Commission has forwarded its recommendation regarding this amendment to the Loudon County Flood Damage Prevention Resolution by deleting Resolution 120406-1 in its entirety and replacing it with the updated Loudon County Flood Damage Prevention Resolution; and

WHEREAS, a notice of public hearing and a description of the resolution appeared in the Loudon County *News Herald* on December 6, 2019, consistent with the provisions of Tennessee Code Annotated Section 13-7-105;

NOW, THEREFORE, BE IT RESOLVED by the Loudon County Commission that the Loudon County Flood Damage Prevention Resolution be deleted in its entirety and replaced with the attached updated Loudon County Flood Damage Prevention Resolution;

BE IT FINALLY RESOLVED, that this Resolution shall take effect immediately, the public welfare requiring it.

ATTEST	LOUDON COUNTY CHAIRMAN
	DATE

APPROVED: LOUDON COUNTY MAYOR

The vote on the question of approval of this Resolution by the Planning Commission on December 17, 2019 is as follows:

APPROVED: 10	
DISAPPROVED: 0	
Panela M MAew	
ATTEST: SECRETARY, LOUDON COUNTY	
REGIONAL PLANNING COMMISSION	
Dated: /-/4-2020	

New Flood Resolution with Proposed Changes

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COUNTY FLOOD DAMAGE PREVENTION RESOLUTION

A RESOLUTION ADOPTED FOR THE PURPOSE OF AMENDING THE LOUDON COUNTY, TENNESSEE REGIONAL ZONING RESOLUTION REGULATING DEVELOPMENT WITHIN THE JURISDICTION OF LOUDON COUNTY, TENNESSEE, TO MINIMIZE DANGER TO LIFE AND PROPERTY DUE TO FLOODING, AND TO MAINTAIN ELIGIBILITY FOR PARTICIPATION IN THE NATIONAL FLOOD INSURANCE PROGRAM.

ARTICLE I. STATUTORY AUTHORIZATION, FINDINGS OF FACT, PURPOSE AND OBJECTIVES

Section A. Statutory Authorization

The Legislature of the State of Tennessee has in Sections 13-7-101 through 13-7-115, <u>Tennessee Code Annotated</u> delegated the responsibility to the county legislative body to adopt regulations designed to promote the public health, safety, and general welfare of its citizenry. Therefore, the Loudon County, Tennessee, Mayor and County Commission, do resolve as follows:

Section B. Findings of Fact

- 1. The Loudon County, Tennessee, Mayor and its Legislative Body wish to maintain eligibility in the National Flood Insurance Program (NFIP) and in order to do so must meet the NFIP regulations found in Title 44 of the Code of Federal Regulations (CFR), Ch. 1, Section 60.3.
- 2. Areas of Loudon County, Tennessee are subject to periodic inundation which could result in loss of life and property, health and safety hazards, disruption of commerce and governmental services, extraordinary public expenditures for flood protection and relief, and impairment of the tax base, all of which adversely affect the public health, safety and general welfare.
- 3. Flood losses are caused by the cumulative effect of obstructions in floodplains, causing increases in flood heights and velocities; by uses in flood hazard areas which are vulnerable to floods; or construction which is inadequately elevated, floodproofed, or otherwise unprotected from flood damages.

Section C. Statement of Purpose

It is the purpose of this Resolution to promote the public health, safety and general welfare and to minimize public and private losses due to flood conditions in specific areas. This Resolution is designed to:

1. Restrict or prohibit uses which are vulnerable to flooding or erosion hazards, or which result in damaging increases in erosion, flood heights, or velocities;

- 2. Require that uses vulnerable to floods, including community facilities, 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 floodwaters;
- 4. Control filling, grading, dredging and other development which may increase flood damage or erosion;
- 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 D. Objectives

The objectives of this Resolution are:

- 1. To protect human life, health, safety and property;
- 2. To minimize expenditure of public funds 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, streets and bridges located in floodprone areas;
- 6. To help maintain a stable tax base by providing for the sound use and development of floodprone areas to minimize blight in flood areas;
- 7. To ensure that potential homebuyers are notified that property is in a floodprone area;
- 8. To maintain eligibility for participation in the NFIP.

ARTICLE II. DEFINITIONS

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

"Accessory Structure" means a subordinate structure to the principal structure on the same lot and, for the purpose of this Resolution, shall conform to the following:

- 1. Accessory structures shall only be used for parking of vehicles and storage.
- 2. Accessory structures shall be designed to have low flood damage potential.
- 3. Accessory structures shall be constructed and placed on the building site so as to offer the minimum resistance to the flow of floodwaters.

- 4. Accessory structures shall be firmly anchored to prevent flotation, collapse, and lateral movement, which otherwise may result in damage to other structures.
- 5. Utilities and service facilities such as electrical and heating equipment shall be elevated or otherwise protected from intrusion of floodwaters.
- "Addition (to an existing building)" means any walled and roofed expansion to the perimeter or height of a building.
- <u>"Appeal"</u> means a request for a review of the local enforcement officer's interpretation of any provision of this Resolution or a request for a variance.
- "Area of Shallow Flooding" means a designated AO or AH Zone on a community's Flood Insurance Rate Map (FIRM) with one percent or greater annual chance of flooding to an average depth of 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. Such flooding is characterized by ponding or sheet flow.
- "Area of Special Flood-related Erosion Hazard" is the land within a community which is most likely to be subject to severe flood-related erosion losses. The area may be designated as Zone E on the Flood Hazard Boundary Map (FHBM). After the detailed evaluation of the special flood-related erosion hazard area in preparation for publication of the FIRM, Zone E may be further refined.

"Area of Special Flood Hazard" see "Special Flood Hazard Area".

- "Base Flood" means the flood having a one percent chance of being equaled or exceeded in any given year. This term is also referred to as the 100-year flood or the one (1)-percent annual chance flood.
- "Basement" means any portion of a building having its floor subgrade (below ground level) on all sides.

"Building" see "Structure".

- <u>"Development"</u> 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 equipment or materials.
- "Elevated Building" means a non-basement building built to have the lowest floor of the lowest enclosed area elevated above the ground level by means of solid foundation perimeter walls with openings sufficient to facilitate the unimpeded movement of floodwater, pilings, columns, piers, or shear walls adequately anchored so as not to impair the structural integrity of the building during a base flood event.
- "Emergency Flood Insurance Program" or "Emergency Program" means the program as implemented on an emergency basis in accordance with Section 1336 of the Act. It is intended as a program to provide a first layer amount of insurance on all insurable structures before the effective date of the initial FIRM.
- "Erosion" means the process of the gradual wearing away of land masses. This peril is not "per se" covered under the Program.

- <u>"Exception"</u> means a waiver from the provisions of this Resolution which relieves the applicant from the requirements of a rule, regulation, order or other determination made or issued pursuant to this Resolution.
- <u>"Existing Construction"</u> means any structure for which the "start of construction" commenced before the effective date of the initial floodplain management code or resolution adopted by the community as a basis for that community's participation in the NFIP.
- "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, final site grading or the pouring of concrete pads) is completed before the effective date of the first floodplain management code or resolution adopted by the community as a basis for that community's participation in the NFIP.

"Existing Structures" see "Existing Construction".

- "Expansion to an Existing Manufactured Home Park or Subdivision" means the preparation of additional sites by the construction of facilities for servicing the lots on which the manufactured homes are to be affixed (including the installation of utilities, the construction of streets, and either final site grading or the pouring of concrete pads).
- "Flood" or "Flooding" means a general and temporary condition of partial or complete inundation of normally dry land areas from:
 - 1. The overflow of inland or tidal waters.
 - 2. The unusual and rapid accumulation or runoff of surface waters from any source.
- "Flood Elevation Determination" means a determination by the Federal Emergency Management Agency (FEMA) of the water surface elevations of the base flood, that is, the flood level that has a one percent or greater chance of occurrence in any given year.
- <u>"Flood Elevation Study" means</u> 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) or flood-related erosion hazards.
- "Flood Hazard Boundary Map (FHBM)" means an official map of a community, issued by FEMA, where the boundaries of areas of special flood hazard have been designated as Zone A.
- "Flood Insurance Rate Map (FIRM)" means an official map of a community, issued by FEMA, delineating the areas of special flood hazard or the risk premium zones applicable to the community.
- "Flood Insurance Study" is the official report provided by FEMA, evaluating flood hazards and containing flood profiles and water surface elevation of the base flood.
- "Floodplain" or "Floodprone Area" means any land area susceptible to being inundated by water from any source (see definition of "flooding").
- <u>"Floodplain Management"</u> means 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.

- <u>"Flood Protection System"</u> means 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 area 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.
- <u>"Floodproofing"</u> means any combination of structural and nonstructural additions, changes, or adjustments to structures which reduce or eliminate flood damage to real estate or improved real property, water and sanitary facilities and structures and their contents.
- "Flood-related Erosion" means the collapse or subsidence of land along the shore of a lake or other body of water as a result of undermining caused by waves or currents of water exceeding anticipated cyclical levels or suddenly caused by an unusually high water level in a natural body of water, accompanied by a severe storm, or by an unanticipated force of nature, such as a flash flood, or by some similarly unusual and unforeseeable event which results in flooding.
- "Flood-related Erosion Area" or "Flood-related Erosion Prone Area" means a land area adjoining the shore of a lake or other body of water, which due to the composition of the shoreline or bank and high water levels or wind-driven currents, is likely to suffer flood-related erosion damage.
- <u>"Flood-related Erosion Area Management"</u> means the operation of an overall program of corrective and preventive measures for reducing flood-related erosion damage, including but not limited to emergency preparedness plans, flood-related erosion control works and floodplain management regulations.
- <u>"Floodway"</u> means the channel of a river or other watercourse and the adjacent land areas that must be reserved in order to discharge the base flood without cumulatively increasing the water surface elevation more than a designated height.
- <u>"Freeboard"</u> means a factor of safety usually expressed in feet above a flood level for purposes of floodplain management. "Freeboard" tends to compensate for the many unknown factors that could contribute to flood heights greater than the height calculated for a selected size flood and floodway conditions, such as wave action, blockage of bridge or culvert openings, and the hydrological effect of urbanization of the watershed.
- "Functionally Dependent Use" means 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" means the highest natural elevation of the ground surface, prior to construction, adjacent to the proposed walls of a structure.

"Historic Structure" means any structure that is:

1. Listed individually in the National Register of Historic Places (a listing maintained by the U.S. Department of Interior) or preliminarily determined by the Secretary of the Interior as meeting the requirements for individual 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 the Tennessee inventory of historic places and determined as eligible by states with historic preservation programs which have been approved by the Secretary of the Interior; or
- 4. Individually listed on the Loudon County, Tennessee inventory of historic places and determined as eligible by communities with historic preservation programs that have been certified either:
 - a. By the approved Tennessee program as determined by the Secretary of the Interior or
 - b. Directly by the Secretary of the Interior.
- <u>"Levee"</u> 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.
- "Lowest Floor" means the lowest floor of the lowest enclosed area, including a 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 enclosure is not built so as to render the structure in violation of the applicable non-elevation design requirements of this Resolution.
- "Manufactured Home" means a structure, transportable in one or more sections, which is built on a permanent chassis and designed for use 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" means the Flood Hazard Boundary Map (FHBM) or the Flood Insurance Rate Map (FIRM) for a community issued by FEMA.
- "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 the purposes of this Resolution, the term is synonymous with the National Geodetic Vertical Datum (NGVD) of 1929, the North American Vertical Datum (NAVD) of 1988, or other datum, to which Base Flood Elevations shown on a community's Flood Insurance Rate Map are referenced.
- "National Geodetic Vertical Datum (NGVD)" means, as corrected in 1929, a vertical control used as a reference for establishing varying elevations within the floodplain.

- "New Construction" means any structure for which the "start of construction" commenced on or after the effective date of the initial floodplain management Resolution and includes any subsequent improvements to such structure.
- "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 this resolution or the effective date of the initial floodplain management resolution and includes any subsequent improvements to such structure.
- "North American Vertical Datum (NAVD)" means, as corrected in 1988, a vertical control used as a reference for establishing varying elevations within the floodplain.

"100-year Flood" see "Base Flood".

- <u>"Person"</u> includes any individual or group of individuals, corporation, partnership, association, or any other entity, including State and local governments and agencies.
- <u>"Reasonably Safe from Flooding"</u> means base flood waters will not inundate the land or damage structures to be removed from the Special Flood Hazard Area and that any subsurface waters related to the base flood will not damage existing or proposed structures.

"Recreational Vehicle" means a vehicle which is:

- 1. Built on a single chassis;
- 2. 400 square feet or less when measured at the largest horizontal projection;
- 3. Designed to be self-propelled or permanently towable by a light duty truck;
- 4. Designed primarily not for use as a permanent dwelling but as temporary living quarters for recreational, camping, travel, or seasonal use.
- "Regulatory Floodway" means the channel of a river or other watercourse and the adjacent land areas that must be reserved in order to discharge the base flood without cumulatively increasing the water surface elevation more than a designated height.
- "Riverine" means relating to, formed by, or resembling a river (including tributaries), stream, brook, etc.
- "Special Flood Hazard Area" is the land in the floodplain within a community subject to a one percent or greater chance of flooding in any given year. The area may be designated as Zone A on the FHBM. After detailed ratemaking has been completed in preparation for publication of the FIRM, Zone A usually is refined into Zones A, AO, AH, A1-30, AE or A99.
- "Special Hazard Area" means an area having special flood, mudslide (i.e., mudflow) and/or flood-related erosion hazards, and shown on an FHBM or FIRM as Zone A, AO, A1-30, AE, A99, or AH.
- "Start of Construction" includes substantial improvement, and means the date the building permit was issued, provided the actual start of construction, repair, reconstruction, rehabilitation, addition, placement, or other improvement was within 180 days of the permit date. The actual

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

"State Coordinating Agency" the Tennessee Department of Economic and Community Development, as designated by the Governor of the State of Tennessee at the request of FEMA to assist in the implementation of the NFIP for the State.

<u>"Structure"</u> for purposes of this Resolution, means a walled and roofed building, including a gas or liquid storage tank, that is principally above ground, as well as a manufactured home.

"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 fifty percent (50%) of the market value of the structure before the damage occurred.

<u>"Substantial Improvement"</u> means any reconstruction, rehabilitation, addition, alteration or other improvement of a structure in which the cost equals or exceeds fifty percent (50%) of the market value of the structure before the "start of construction" of the initial improvement. This term includes structures which have incurred "substantial damage", regardless of the actual repair work performed. The market value of the structure should be (1) the appraised value of the structure prior to the start of the initial improvement, or (2) in the case of substantial damage, the value of the structure prior to the damage occurring.

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 pre-identified by the local code enforcement official and which are the minimum necessary to assure safe living conditions and not solely triggered by an improvement or repair project or; (2) Any alteration of a "historic structure", provided that the alteration will not preclude the structure's continued designation as a "historic structure".

"Substantially Improved Existing Manufactured Home Parks or Subdivisions" is where the repair, reconstruction, rehabilitation or improvement of the streets, utilities and pads equals or exceeds fifty percent (50%) of the value of the streets, utilities and pads before the repair, reconstruction or improvement commenced.

"Variance" is a grant of relief from the requirements of this Resolution.

<u>"Violation"</u> means 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 certification, or other evidence of compliance required in this Resolution is presumed to be in violation until such time as that documentation is provided.

"Water Surface Elevation" means the height, in relation to the National Geodetic Vertical Datum (NGVD) of 1929, the North American Vertical Datum (NAVD) of 1988, or other datum, where specified, of floods of various magnitudes and frequencies in the floodplains of riverine areas.

ARTICLE III. GENERAL PROVISIONS

Section A. Application

This Resolution shall apply to all areas within the unincorporated area of Loudon County, Tennessee.

Section B. Basis for Establishing the Areas of Special Flood Hazard

The Areas of Special Flood Hazard identified on the Loudon County, Tennessee, as identified by FEMA, and in its Flood Insurance Study (FIS) dated May 16, 2007 and Flood Insurance Rate Map (FIRM), Community 470110, Panel Numbers 47105C0025D, 47105C0075D, 47105C0083D, 47105C0084D, 47105C0089D, 47105C0092D, 47105C0093D, 47105C0094D, 47105C0100D, 47105C0111D, 47105C0125D, 47105C0150D, 47105C0157D, 47105C0159D, 47105C0166D, 47105C0167D, 47105C0175D, 47105C0176D, 47105C0177D, 47105C0178D, 47105C0181D, 47105C0200D, 47105C0225D, and 47105C0300D, dated May 16, 2007, along with all supporting technical data, are adopted by reference and declared to be a part of this Resolution.

Section C. Requirement for Development Permit

A development permit shall be required in conformity with this Resolution prior to the commencement of any development activities.

Section D. Compliance

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

Section E. Abrogation and Greater Restrictions

This Resolution is not intended to repeal, abrogate, or impair any existing easements, covenants or deed restrictions. However, where this Resolution conflicts or overlaps with another regulatory instrument, whichever imposes the more stringent restrictions shall prevail.

Section F. Interpretation

In the interpretation and application of this Resolution, 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 Tennessee statutes.

Section G. Warning and Disclaimer of Liability

The degree of flood protection required by this Resolution is considered reasonable for regulatory purposes and is based on scientific and engineering considerations. Larger floods can and will occur on rare occasions. Flood heights may be increased by man-made or natural causes. This

Resolution 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 Resolution shall not create liability on the part of Loudon County, Tennessee or by any officer or employee thereof for any flood damages that result from reliance on this Resolution or any administrative decision lawfully made hereunder.

Section H. Penalties for Violation

Violation of the provisions of this Resolution or failure to comply with any of its requirements, including violation of conditions and safeguards established in connection with grants of variance shall constitute a misdemeanor punishable as other misdemeanors as provided by law. Any person who violates this resolution or fails to comply with any of its requirements shall, upon adjudication therefore, be fined as prescribed by Tennessee statutes, 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 Loudon County, Tennessee from taking such other lawful actions to prevent or remedy any violation.

ARTICLE IV. <u>ADMINISTRATION</u>

Section A. Designation of Resolution Administrator

The Codes Enforcement Director is hereby appointed as the Administrator to implement the provisions of this Resolution.

Section B. <u>Permit Procedures</u>

Application for a development permit shall be made to the Administrator on forms furnished by the community prior to any development activities. The development permit may include, but is not limited to the following: plans in duplicate drawn to scale and showing the nature, location, dimensions, and elevations of the area in question; existing or proposed structures, earthen fill placement, storage of materials or equipment, and drainage facilities. 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 where Base Flood Elevations are available, or to certain height above the highest adjacent grade when applicable under this Resolution.
- b. Elevation in relation to mean sea level to which any non-residential building will be floodproofed where Base Flood Elevations are available, or to certain height above the highest adjacent grade when applicable under this Resolution.
- c. A FEMA Floodproofing Certificate from a Tennessee registered professional engineer or architect that the proposed non-residential floodproofed building will meet the floodproofing criteria in Article V, Sections A and B.
- d. Description of the extent to which any watercourse will be altered or relocated as a result of proposed development.

2. Construction Stage

Within AE Zones, where Base Flood Elevation data is available, any lowest floor certification made relative to mean sea level shall be prepared by or under the direct supervision of, a Tennessee registered land surveyor and certified by same. The Administrator shall record the elevation of the lowest floor on the development permit. When floodproofing is utilized for a non-residential building, said certification shall be prepared by, or under the direct supervision of, a Tennessee registered professional engineer or architect and certified by same.

Within approximate A Zones, where Base Flood Elevation data is not available, the elevation of the lowest floor shall be determined as the measurement of the lowest floor of the building relative to the highest adjacent grade. The Administrator shall record the elevation of the lowest floor on the development permit. When floodproofing is utilized for a non-residential building, said certification shall be prepared by, or under the direct supervision of, a Tennessee registered professional engineer or architect and certified by same.

For all new construction and substantial improvements, the permit holder shall provide to the Administrator an as-built certification of the lowest floor elevation or floodproofing level upon the completion of the lowest floor or floodproofing.

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

Section C. Duties and Responsibilities of the Administrator

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

- 1. Review all development permits to assure that the permit requirements of this Resolution have been satisfied, and that proposed building sites will be reasonably safe from flooding.
- 2. Review proposed development to assure that all necessary permits have been received from those governmental agencies from which approval is required by Federal or State law, including Section 404 of the Federal Water Pollution Control Act Amendments of 1972, 33 U.S.C. 1334.
- 3. Notify adjacent communities and the Tennessee Department of Economic and Community Development, Local Planning Assistance Office, prior to any alteration or relocation of a watercourse and submit evidence of such notification to FEMA.

- 4. For any altered or relocated watercourse, submit engineering data/analysis within six (6) months to FEMA to ensure accuracy of community FIRM's through the Letter of Map Revision process.
- 5. Assure that the flood carrying capacity within an altered or relocated portion of any watercourse is maintained.
- 6. Record the elevation, in relation to mean sea level or the highest adjacent grade, where applicable, of the lowest floor (including basement) of all new and substantially improved buildings, in accordance with Article IV, Section B.
- 7. Record the actual elevation, in relation to mean sea level or the highest adjacent grade, where applicable to which the new and substantially improved buildings have been floodproofed, in accordance with Article IV, Section B.
- 8. When floodproofing is utilized for a nonresidential structure, obtain certification of design criteria from a Tennessee registered professional engineer or architect, in accordance with Article IV, Section B.
- 9. Where interpretation is needed as to the exact location of boundaries of the Areas of Special Flood Hazard (for example, where there appears to be a conflict between a mapped boundary and actual field conditions), make the necessary interpretation. Any person contesting the location of the boundary shall be given a reasonable opportunity to appeal the interpretation as provided in this Resolution.
- 10. When Base Flood Elevation data and floodway data have not been provided by FEMA, obtain, review, and reasonably utilize any Base Flood Elevation and floodway data available from a Federal, State, or other sources, including data developed as a result of these regulations, as criteria for requiring that new construction, substantial improvements, or other development in Zone A on the Loudon County, Tennessee FIRM meet the requirements of this Resolution.
- 11. Maintain all records pertaining to the provisions of this Resolution in the office of the Administrator and shall be open for public inspection. Permits issued under the provisions of this Resolution shall be maintained in a separate file or marked for expedited retrieval within combined files.

ARTICLE V. 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 and lateral movement of the structure;
- 2. Manufactured homes shall be installed using methods and practices that minimize flood damage. They must be elevated and anchored to prevent flotation, collapse and 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 of Tennessee and local anchoring 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 and substantial improvements shall be constructed by methods and practices that minimize flood damage;
- 5. All 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;
- 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 Resolution, shall meet the requirements of "new construction" as contained in this Resolution;
- 10. Any alteration, repair, reconstruction or improvements to a building that is not in compliance with the provision of this Resolution, shall be undertaken only if said non-conformity is not further extended or replaced;
- 11. All new construction and substantial improvement proposals shall provide copies of all necessary Federal and State permits, including Section 404 of the Federal Water Pollution Control Act amendments of 1972, 33 U.S.C. 1334;
- 12. All subdivision proposals and other proposed new development proposals shall meet the standards of Article V, Section B;
- 13. When proposed new construction and substantial improvements are partially located in an area of special flood hazard, the entire structure shall meet the standards for new construction;
- 14. When proposed new construction and substantial improvements are located in multiple flood hazard risk zones or in a flood hazard risk zone with multiple Base Flood Elevations, the entire structure shall meet the standards for the most hazardous flood hazard risk zone and the highest Base Flood Elevation.

Section B. Specific Standards

In all Areas of Special Flood Hazard, the following provisions, in addition to those set forth in Article V, Section A, are required:

1. Residential Structures

In AE Zones where Base Flood Elevation data is available, new construction and substantial improvement of any residential building (or manufactured home) shall have the lowest floor, including basement, elevated to no lower than one (1) foot above the Base Flood Elevation. Should solid foundation perimeter walls be used to elevate a structure, openings sufficient to facilitate equalization of flood hydrostatic forces on both sides of exterior walls shall be provided in accordance with the standards of this section: "Enclosures".

Within approximate A Zones where Base Flood Elevations have not been established and where alternative data is not available, the administrator shall require the lowest floor of a building to be elevated to a level of at least three (3) feet above the highest adjacent grade (as defined in Article II). Should solid foundation perimeter walls be used to elevate a structure, openings sufficient to facilitate equalization of flood hydrostatic forces on both sides of exterior walls shall be provided in accordance with the standards of this section: "Enclosures"

2. Non-Residential Structures

In AE Zones, where Base Flood Elevation data is available, new construction and substantial improvement of any commercial, industrial, or non-residential building, shall have the lowest floor, including basement, elevated or floodproofed to no lower than one (1) foot above the level of the Base Flood Elevation. Should solid foundation perimeter walls be used to elevate a structure, openings sufficient to facilitate equalization of flood hydrostatic forces on both sides of exterior walls shall be provided in accordance with the standards of this section: "Enclosures"

In approximate A Zones, where Base Flood Elevations have not been established and where alternative data is not available, new construction and substantial improvement of any commercial, industrial, or non-residential building, shall have the lowest floor, including basement, elevated or floodproofed to no lower than three (3) feet above the highest adjacent grade (as defined in Article II). Should solid foundation perimeter walls be used to elevate a structure, openings sufficient to facilitate equalization of flood hydrostatic forces on both sides of exterior walls shall be provided in accordance with the standards of this section: "Enclosures"

Non-Residential buildings located in all A Zones may be floodproofed, in lieu of being elevated, provided that all areas of the building below the required elevation are watertight, with walls substantially impermeable to the passage of water, and are built with structural components having the capability of resisting hydrostatic and hydrodynamic loads and the effects of buoyancy. A Tennessee registered professional engineer or architect shall certify that the design and methods of construction are in accordance with accepted standards of practice for meeting the provisions above, and shall provide such certification to the Administrator as set forth in Article IV, Section B.

3. Enclosures

All new construction and substantial improvements that include fully enclosed areas formed by foundation and other exterior walls below the lowest floor that are subject to flooding, shall be designed to preclude finished living space and

designed to allow for the entry and exit of flood waters to automatically equalize hydrostatic flood forces on exterior walls.

- a. Designs for complying with this requirement must either be certified by a Tennessee professional engineer or architect or meet or exceed the following minimum criteria.
 - 1) Provide a minimum of two openings having a total net area of not less than one (1) square inch for every square foot of enclosed area subject to flooding;
 - 2) The bottom of all openings shall be no higher than one (1) foot above the finished grade;
 - 3) Openings may be equipped with screens, louvers, valves or other coverings or devices provided they permit the automatic flow of floodwaters in both directions.
- b. The enclosed area shall be the minimum necessary to allow for parking of vehicles, storage or building access.
- c. The interior portion of such enclosed area shall not be finished or partitioned into separate rooms in such a way as to impede the movement of floodwaters and all such partitions shall comply with the provisions of Article V, Section B.

4. Standards for Manufactured Homes and Recreational Vehicles

- a. All manufactured homes placed, or substantially improved, on: (1) individual lots or parcels, (2) in expansions to existing manufactured home parks or subdivisions, or (3) in new or substantially improved manufactured home parks or subdivisions, must meet all the requirements of new construction.
- b. All manufactured homes placed or substantially improved in an existing manufactured home park or subdivision must be elevated so that either:
 - 1) In AE Zones, with Base Flood Elevations, the lowest floor of the manufactured home is elevated on a permanent foundation to no lower than one (1) foot above the level of the Base Flood Elevation or
 - In approximate A Zones, without Base Flood Elevations, the manufactured home chassis is elevated and supported by reinforced piers (or other foundation elements of at least equivalent strength) that are at least three (3) feet in height above the highest adjacent grade (as defined in Article II).
- c. Any manufactured home, which has incurred "substantial damage" as the result of a flood, must meet the standards of Article V, Sections A and B.
- d. All manufactured homes must be securely anchored to an adequately anchored foundation system to resist flotation, collapse and lateral movement.

- e. All recreational vehicles placed in an identified Special Flood Hazard Area must either:
 - 1) Be on the site for fewer than 180 consecutive days;
 - 2) Be fully licensed and ready for highway use (a recreational vehicle is ready for highway use if it is licensed, on its wheels or jacking system, attached to the site only by quick disconnect type utilities and security devices, and has no permanently attached structures or additions), or;
 - 3) The recreational vehicle must meet all the requirements for new construction.

5. <u>Standards for Subdivisions and Other Proposed New Development Proposals</u>

Subdivisions and other proposed new developments, including manufactured home parks, shall be reviewed to determine whether such proposals will be reasonably safe from flooding.

- a. All subdivision and other proposed new development proposals shall be consistent with the need to minimize flood damage.
- b. All subdivision and other proposed new development proposals shall have public utilities and facilities such as sewer, gas, electrical and water systems located and constructed to minimize or eliminate flood damage.
- c. All subdivision and other proposed new development proposals shall have adequate drainage provided to reduce exposure to flood hazards.
- d. In all approximate A Zones require that all new subdivision proposals and other proposed developments (including proposals for manufactured home parks and subdivisions) greater than 50 lots or 5 acres, whichever is the lesser, include within such proposals Base Flood Elevation data (See Article V, Section E).

Section C. Standards for Special Flood Hazard Areas with Established Base Flood Elevations and With Floodways Designated

Located within the Special Flood Hazard Areas established in Article III, Section B, are areas designated as floodways. A floodway may be an extremely hazardous area due to the velocity of floodwaters, debris or erosion potential. In addition, the area must remain free of encroachment in order to allow for the discharge of the base flood without increased flood heights and velocities. Therefore, the following provisions shall apply:

1. Encroachments are prohibited, including earthen fill material, new construction, substantial improvements or other development within the regulatory floodway. Development may be permitted however, provided it is demonstrated through hydrologic and hydraulic analyses performed in accordance with standard engineering practices that the cumulative effect of the proposed encroachments or new development shall not result in any increase in the water surface elevation of the Base Flood Elevation, velocities, or floodway widths during the occurrence of

a base flood discharge at any point within the community. A Tennessee registered professional engineer must provide supporting technical data, using the same methodologies as in the effective Flood Insurance Study for Loudon County, Tennessee and certification, thereof.

2. New construction and substantial improvements of buildings, where permitted, shall comply with all applicable flood hazard reduction provisions of Article V, Sections A and B.

Section D. Standards for Areas of Special Flood Hazard Zones AE with Established Base Flood Elevations but Without Floodways Designated

Located within the Special Flood Hazard Areas established in Article III, Section B, where streams exist with base flood data provided but where no floodways have been designated (Zones AE), the following provisions apply:

- 1. No encroachments, including fill material, new construction and substantial improvements shall be located within areas of special flood hazard, unless certification by a Tennessee 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 (1) foot at any point within the community. The engineering certification should be supported by technical data that conforms to standard hydraulic engineering principles.
- 2. New construction and substantial improvements of buildings, where permitted, shall comply with all applicable flood hazard reduction provisions of Article V, Sections A and B.

Section E. Standards for Streams without Established Base Flood Elevations and Floodways (A Zones)

Located within the Special Flood Hazard Areas established in Article III, Section B, where streams exist, but no base flood data has been provided and where a Floodway has not been delineated, the following provisions shall apply:

- 1. The Administrator shall obtain, review, and reasonably utilize any Base Flood Elevation and floodway data available from any Federal, State, or other sources, including data developed as a result of these regulations (see 2 below), as criteria for requiring that new construction, substantial improvements, or other development in approximate A Zones meet the requirements of Article V, Sections A and B.
- 2. Require that all new subdivision proposals and other proposed developments (including proposals for manufactured home parks and subdivisions) greater than 50 lots or 5 acres, whichever is the lesser, include within such proposals Base Flood Elevation data.
- 3. Within approximate A Zones, where Base Flood Elevations have not been established and where such data is not available from other sources, require the lowest floor of a building to be elevated or floodproofed to a level of at least three

- (3) feet above the highest adjacent grade (as defined in Article II). All applicable data including elevations or floodproofing certifications shall be recorded as set forth in Article IV, Section B. Openings sufficient to facilitate automatic equalization of hydrostatic flood forces on exterior walls shall be provided in accordance with the standards of Article V, Section B.
- 4. Within approximate A Zones, where Base Flood Elevations have not been established and where such data is not available from other sources, no encroachments, including structures or fill material, shall be located within an area equal to the width of the stream or twenty feet (20), whichever is greater, measured from the top of the stream bank, unless certification by a Tennessee 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 (1) foot at any point within Loudon County, Tennessee. The engineering certification should be supported by technical data that conforms to standard hydraulic engineering principles.
- 5. New construction and substantial improvements of buildings, where permitted, shall comply with all applicable flood hazard reduction provisions of Article V, Sections A and B. Within approximate A Zones, require that those subsections of Article V Section B dealing with the alteration or relocation of a watercourse, assuring watercourse carrying capacities are maintained and manufactured homes provisions are complied with as required.

Section F. Standards For Areas of Shallow Flooding (AO and AH Zones)

Located within the Special Flood Hazard Areas established in Article III, Section B, are areas designated as shallow flooding areas. These areas have special flood hazards associated with base flood depths of one (1) to three (3) feet where a clearly defined channel does not exist and where the path of flooding is unpredictable and indeterminate; therefore, the following provisions, in addition to those set forth in Article V, Sections A and B, apply:

- 1. All new construction and substantial improvements of residential and non-residential buildings shall have the lowest floor, including basement, elevated to at least one (1) foot above as many feet as the depth number specified on the FIRM's, in feet, above the highest adjacent grade. If no flood depth number is specified on the FIRM, the lowest floor, including basement, shall be elevated to at least three (3) feet above the highest adjacent grade. Openings sufficient to facilitate automatic equalization of hydrostatic flood forces on exterior walls shall be provided in accordance with standards of Article V, Section B.
- 2. All new construction and substantial improvements of non-residential buildings may be floodproofed in lieu of elevation. The structure together with attendant utility and sanitary facilities must be floodproofed and designed watertight to be completely floodproofed to at least one (1) foot above the flood depth number specified on the FIRM, with walls substantially impermeable to the passage of water and with structural components having the capability of resisting hydrostatic and hydrodynamic loads and the effects of buoyancy. If no depth number is specified on the FIRM, the structure shall be floodproofed to at least three (3) feet above the highest adjacent grade. A Tennessee registered professional engineer or architect shall certify that the design and methods of construction are in

accordance with accepted standards of practice for meeting the provisions of this Resolution and shall provide such certification to the Administrator as set forth above and as required in accordance with Article IV, Section B.

3. Adequate drainage paths shall be provided around slopes to guide floodwaters around and away from proposed structures.

Section G. Standards For Areas Protected by Flood Protection System (A-99 Zones)

Located within the Areas of Special Flood Hazard established in Article III, Section B, are areas of the 100-year floodplain protected by a flood protection system but where Base Flood Elevations have not been determined. Within these areas (A-99 Zones) all provisions of Article IV and Article V shall apply.

Section H. Standards for Unmapped Streams

Located within Loudon County, Tennessee, are unmapped streams where areas of special flood hazard are neither indicated nor identified. Adjacent to such streams, the following provisions shall apply:

- 1. No encroachments including fill material or other development including structures shall be located within an area of at least equal to twice the width of the stream, measured from the top of each stream bank, unless certification by a Tennessee 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 (1) foot at any point within the locality.
- 2. When a new flood hazard risk zone, and Base Flood Elevation and floodway data is available, new construction and substantial improvements shall meet the standards established in accordance with Articles IV and V.

ARTICLE VI. <u>VARIANCE PROCEDURES</u>

Section A. Regional Board of Zoning Appeals

1. Authority

The Loudon County, Tennessee Regional Board of Zoning Appeals shall hear and decide appeals and requests for variances from the requirements of this Resolution.

2. Procedure

Meetings of the Regional Board of Zoning Appeals shall be held at such times, as the Board shall determine. All meetings of the Regional Board of Zoning Appeals shall be open to the public. The Regional Board of Zoning Appeals shall adopt rules of procedure and shall keep records of applications and actions thereof, which shall be a public record. Compensation of the members of the Regional Board of Zoning Appeals shall be set by the Legislative Body.

3. Appeals: How Taken

An appeal to the Regional Board of Zoning Appeals may be taken by any person, firm or corporation aggrieved or by any governmental officer, department, or bureau affected by any decision of the Administrator based in whole or in part upon the provisions of this Resolution. Such appeal shall be taken by filing with the Regional Board of Zoning Appeals a notice of appeal, specifying the grounds thereof. In all cases where an appeal is made by a property owner or other interested party, a fee of (amount) dollars for the cost of publishing a notice of such hearings shall be paid by the appellant. The Administrator shall transmit to the Regional Board of Zoning Appeals all papers constituting the record upon which the appeal action was taken. The Regional Board of Zoning Appeals shall fix a reasonable time for the hearing of the appeal, give public notice thereof, as well as due notice to parties in interest and decide the same within a reasonable time which shall not be more than (number of) days from the date of the hearing. At the hearing, any person or party may appear and be heard in person or by agent or by attorney.

4. Powers

The Regional Board of Zoning Appeals shall have the following powers:

a. Administrative Review

To hear and decide appeals where it is alleged by the applicant that there is error in any order, requirement, permit, decision, determination, or refusal made by the Administrator or other administrative official in carrying out or enforcement of any provisions of this Resolution.

b. Variance Procedures

In the case of a request for a variance the following shall apply:

- 1) The Loudon County, Tennessee Regional Board of Zoning Appeals shall hear and decide appeals and requests for variances from the requirements of this Resolution.
- Variances may be issued for the repair or rehabilitation of historic structures as defined, herein, 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 deviation from the requirements of this Resolution to preserve the historic character and design of the structure.
- 3) In passing upon such applications, the Regional Board of Zoning Appeals shall consider all technical evaluations, all relevant factors, all standards specified in other sections of this Resolution, and:

- a) The danger that materials may be swept onto other property to the injury of others;
- b) The danger to life and property due to flooding or erosion;
- c) The susceptibility of the proposed facility and its contents to flood damage;
- d) The importance of the services provided by the proposed facility to the community;
- e) The necessity of the facility to a waterfront location, in the case of a functionally dependent use;
- f) The availability of alternative locations, not subject to flooding or erosion damage, for the proposed use;
- g) The relationship of the proposed use to the comprehensive plan and floodplain management program for that area;
- h) The safety of access to the property in times of flood for ordinary and emergency vehicles;
- i) 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;
- j) 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, water systems, and streets and bridges.
- 4) Upon consideration of the factors listed above, and the purposes of this Resolution, the Regional Board of Zoning Appeals may attach such conditions to the granting of variances, as it deems necessary to effectuate the purposes of this Resolution.
- 5) Variances shall not be issued within any designated floodway if any increase in flood levels during the base flood discharge would result.

Section B. Conditions for Variances

- 1. Variances shall be issued upon a determination that the variance is the minimum relief necessary, considering the flood hazard and the factors listed in Article VI, Section A.
- 2. Variances shall only be issued upon: a showing of good and sufficient cause, a determination that failure to grant the variance would result in exceptional hardship; or 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 Resolutions.

- 3. Any applicant to whom a variance is granted shall be given written notice that the issuance of a variance to construct a structure below the Base Flood Elevation will result in increased premium rates for flood insurance (as high as \$25 for \$100) coverage, and that such construction below the Base Flood Elevation increases risks to life and property.
- 4. The Administrator shall maintain the records of all appeal actions and report any variances to FEMA upon request.

ARTICLE VII. <u>LEGAL STATUS PROVISIONS</u>

Section A. Conflict with Other Resolutions

In case of conflict between this Resolution or any part thereof, and the whole or part of any existing or future Resolution of Loudon County, Tennessee, the most restrictive shall in all cases apply.

Section B. Severability

If any section, clause, provision, or portion of this Resolution shall be held to be invalid or unconstitutional by any court of competent jurisdiction, such holding shall not affect any other section, clause, provision, or portion of this Resolution which is not of itself invalid or unconstitutional.

Section C. Effective Date

This Resolution shall become effective immediately after its passage, the public welfare demanding it.

Approved and adopted by the Loudon County, Tennessee, Mayor and County Commission.

Date
Mayor of Loudon County, Tennessee
Attest:County Clerk
Date of Public Hearing

Date of Publication of Caption and Summary

Existing Flood Resolution

LOUDON COUNTY FLOOD DAMAGE PREVENTION RESOLUTION

Approved 12-4-06 Amended 5-7-07

RESOLUTION NO. 120406-1 AMENDMENT NO. 050707-

LOUDON COUNTY FLOOD DAMAGE PREVENTION RESOLUTION

ARTICLE I. STATUTORY AUTHORIZATION, FINDINGS OF FACT, PURPOSE AND OBJECTIVES

Section A. <u>Statutory Authorization</u>

The Legislature of the State of Tennessee has in Sections 13-7-101 through 13-7-115, <u>Tennessee Code Annotated</u> delegated the responsibility to the county legislative body to adopt floodplain regulations designed to minimize danger to life and property and to allow its citizens to participate in the National Flood Insurance Program. Therefore, the Board of County Commissioners of Loudon County, Tennessee, does resolve as follows:

Section B. Findings of Fact

- 1. The Loudon County Board of County Commissioners wishes to maintain eligibility in the National Flood Insurance Program and in order to do so must meet the requirements of 60.3 of the Federal Insurance Administration Regulations found at 44 CFR Ch. 1 (10-1-04 Edition).
- 2. Areas of Loudon County are subject to periodic inundation which could result in loss of life and property, health and safety hazards, disruption of commerce and governmental services, extraordinary public expenditures for flood protection and relief, and impairment of the tax base, all of which adversely affect the public health, safety and general welfare.
- 3. These flood losses are caused by the cumulative effect of obstructions in floodplains, causing increases in flood heights and velocities; by uses in flood hazard areas which are vulnerable to floods; or construction which is inadequately elevated, flood-proofed, or otherwise unprotected from flood damages.

Section C. Statement of Purpose

It is the purpose of this Resolution to promote the public health, safety and general welfare, and to minimize public and private losses due to flood conditions in specific areas. This Resolution is designed to:

- 1. Restrict or prohibit uses which are vulnerable to water or erosion hazards, or which result in damaging increases in erosion, flood heights, or velocities;
- 2. Require that uses vulnerable to floods, including County facilities, 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 floodwaters;
- 4. Control filling, grading, dredging and other development which may increase flood damage or erosion, 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 D. Objectives

The objectives of this Resolution are:

- 1. To protect human life, health and property;
- 2. To minimize expenditure of public funds 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, streets and bridges located in floodable areas;
- 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 blight in flood areas;
- To ensure that potential homebuyers are notified that property is in a floodable area;
 and
- 8. To maintain eligibility for participation in the National Flood Insurance Program.

ARTICLE II. DEFINITIONS

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

"Accessory Structure" shall represent a subordinate structure to the principal structure and, for the purpose of this section, shall conform to the following:

- 1. Accessory structures shall not be used for human habitation.
- 2. Accessory structures shall be designed to have low flood damage potential.
- 3. Accessory structures shall be constructed and placed on the building site so as to offer the minimum resistance to the flow of floodwaters.
- 4. Accessory structures shall be firmly anchored to prevent flotation which may result in damage to other structures.
- 5. Service facilities such as electrical and heating equipment shall be elevated or floodproofed.

<u>"Act"</u> means the statutes authorizing the National Flood Insurance Program that are incorporated in 42 U.S.C. 4001-4128.

- "Addition (to an existing building)" means any walled and roofed expansion to the perimeter of a building in which the addition is connected by a common load bearing wall other than a fire wall. Any walled and roofed addition which is connected by a fire wall or is separated by an independent perimeter load-bearing wall shall be considered "New Construction".
- "Appeal" means a request for a review of the local enforcement officer's interpretation of any provision of this Resolution or a request for a variance.
- "Area of Shallow Flooding" means a designated AO or AH Zone on a community's Flood Insurance Rate Map (FIRM) with one percent or greater annual chance of flooding to an average depth of 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. (Such flooding is characterized by ponding or sheet flow.)
- "Area of Special Flood-related Erosion Hazard" is the land within a community which is most likely to be subject to severe flood-related erosion losses. The area may be designated as Zone E on the Flood Hazard Boundary Map (FHBM). After the detailed evaluation of the special flood-related erosion hazard area in preparation for publication of the FIRM, Zone E may be further refined.
- "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. The area may be designated as Zone A on the FHBM. After detailed ratemaking has been completed in preparation for publication of the FIRM, Zone A usually is refined into Zones A, AO, AH, A1-30, AE or A99.
- "Base Flood" means the flood having a one percent chance of being equaled or exceeded in any given year.
- "Basement" means that portion of a building having its floor subgrade (below ground level) on all sides.
- "Breakaway Wall" means a wall that is not part of the structural support of the building and is intended through its design and construction to collapse under specific lateral loading forces, without causing damage to the elevated portion of the building or supporting foundation system.
- "Building", means any structure built for support, shelter, or enclosure for any occupancy or storage (See "Structure")
- "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 equipment or materials.
- "Elevated Building" means a non-basement building built to have the lowest floor of the lowest enclosed area elevated above the ground level by means of fill, solid foundation perimeter walls with openings sufficient to facilitate the unimpeded movement of floodwater, pilings, columns, piers, or shear walls adequately anchored so as not to impair the structural integrity of the building during a base flood event.
- <u>"Emergency Flood Insurance Program"</u> or <u>"Emergency Program"</u> means the program as implemented on an emergency basis in accordance with section 1336 of the Act. It is intended as a program to provide a first layer amount of insurance on all insurable structures before the effective date of the initial FIRM.

- <u>"Erosion" means</u> the process of the gradual wearing away of landmasses. This peril is not per se covered under the Program.
- "Exception" means a waiver from the provisions of this Resolution which relieves the applicant from the requirements of a rule, regulation, order or other determination made or issued pursuant to this Resolution.
- <u>"Existing Construction"</u> means any structure for which the "start of construction" commenced before the effective date of the first floodplain management code or Resolution adopted by the community as a basis for that community's participation in the National Flood Insurance Program (NFIP).
- <u>"Existing Manufactured Home Park or Subdivision"</u> 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, final site grading or the pouring of concrete pads) is completed before the effective date of the first floodplain management code or Resolution adopted by the community as a basis for that community's participation in the National Flood Insurance Program (NFIP).

"Existing Structures" see "Existing Construction".

- "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).
- <u>"Flood" or "Flooding"</u> means a general and temporary condition of partial or complete inundation of normally dry land areas from:
 - 1. The overflow of inland or tidal waters;
 - 2. The unusual and rapid accumulation or runoff of surface waters from any source.
- "Flood Elevation Determination" means a determination by the Administrator of the water surface elevations of the base flood, that is, the flood level that has a one percent or greater chance of occurrence in any given year.
- <u>"Flood Elevation Study" means</u> 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) or flood-related erosion hazards.
- "Flood Hazard Boundary Map (FHBM)" means an official map of a community, issued by the Federal Emergency Management Agency, where the boundaries of areas of special flood hazard have been designated as Zone A.
- "Flood Insurance Rate Map (FIRM)" means an official map of a community, issued by the Federal Emergency Management Agency, delineating the areas of special flood hazard or the risk premium zones applicable to the community.
- "Flood Insurance Study" is the official report provided by the Federal Emergency Management Agency, evaluating flood hazards and containing flood profiles and water surface elevation of the base flood.

- "Floodplain" or "Flood-prone Area" means any land area susceptible to being inundated by water from any source (see definition of "flooding").
- <u>"Floodplain Management" means</u> 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.
- <u>"Flood Protection System" means</u> 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 area 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.
- <u>"Floodproofing"</u> means any combination of structural and nonstructural 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-related Erosion" means the collapse or subsidence of land along the shore of a lake or other body of water as a result of undermining caused by waves or currents of water exceeding anticipated cyclical levels or suddenly caused by an unusually high water level in a natural body of water, accompanied by a severe storm, or by an unanticipated force of nature, such as a flash flood, or by some similarly unusual and unforeseeable event which results in flooding.
- "Flood-related Erosion Area" or "Flood-related Erosion Prone Area" means a land area adjoining the shore of a lake or other body of water, which due to the composition of the shoreline or bank and high water levels or wind-driven currents, is likely to suffer flood-related erosion damage.
- <u>"Flood-related Erosion Area Management"</u> means the operation of an overall program of corrective and preventive measures for reducing flood-related erosion damage, including but not limited to emergency preparedness plans, flood-related erosion control works and flood plain management regulations.
- <u>"Floodway"</u> means the channel of a river or other watercourse and the adjacent land areas that must be reserved in order to discharge the base flood without cumulatively increasing the water surface elevation more than a designated height.
- "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.
- <u>"Freeboard"</u> means a factor of safety usually expressed in feet above a flood level for purposes of floodplain management. "Freeboard" tends to compensate for the many unknown factors that could contribute to flood heights greater than the height calculated for a selected size flood and floodway conditions, such as wave action, bridge openings and the hydrological effect of urbanization of the watershed.
- "Functionally Dependent Use" means 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" means the highest natural elevation of the ground surface, prior to construction, adjacent to the proposed walls of a structure.

"Historic Structure" means any structure that is:

- 1. Listed individually in the National Register of Historic Places (a listing maintained by the U.S. Department of Interior) or preliminary 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 the Tennessee inventory of historic places and determined as eligible by states with historic preservation programs which have been approved by the Secretary of the Interior; or
- 4. Individually listed on a local inventory of historic places and determined as eligible by communities with historic preservation programs that has 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.
- <u>"Levee"</u> 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.
- <u>"Levee System"</u> 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.
- "Lowest Floor" means the lowest floor of the lowest enclosed area, including a 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 enclosure is not built so as to render the structure in violation of the applicable non-elevation design requirements of this Resolution.
- "Manufactured Home" means a structure, transportable in one or more sections, which is built on a permanent chassis and designed for use with or without a permanent foundation when attached to the required utilities. The term "Manufactured Home" does not include a "Recreational Vehicle", unless such transportable structures are placed on a site for 180 consecutive days or longer.
- "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" means the Flood Hazard Boundary Map (FHBM) or the Flood Insurance Rate Map (FIRM) for a community issued by the Agency.
- "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 the purposes of this Resolution, the term is synonymous with National Geodetic Vertical Datum (NGVD) or other

datum, to which base flood elevations shown on a community's Flood Insurance Rate Map are referenced.

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

"New Construction" means any structure for which the "start of construction" commenced after the effective date of this Resolution or the effective date of the first floodplain management Resolution and includes any subsequent improvements to such structure.

"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 after the effective date of this Resolution or the effective date of the first floodplain management Resolution and includes any subsequent improvements to such structure.

"North American Vertical Datum (NAVD)" as corrected in 1988 is a vertical control used as a reference for establishing varying elevations within the floodplain.

"100-year Flood" see "Base Flood".

<u>"Person"</u> includes any individual or group of individuals, corporation, partnership, association, or any other entity, including State and local governments and agencies.

"Recreational Vehicle" means a vehicle which is:

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

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

"Riverine" means relating to, formed by, or resembling a river (including tributaries), stream, brook, etc.

"Special Hazard Area" means an area having special flood, mudslide (i.e., mudflow) and/or flood-related erosion hazards, and shown on an FHBM or FIRM as Zone A, AO, A1-30, AE, A99, or AH.

"Start of Construction" includes substantial improvement, and means the date the building permit was issued, provided the actual start of construction, repair, reconstruction, rehabilitation, addition, placement, or other improvement was within 180 days of the permit date. The actual start means either the first placement of permanent construction of a structure (including a manufactured home) on a site, such as the pouring of slabs or footings, the installation of piles, the construction of columns, or any work beyond the stage of excavation; and includes the placement of a manufactured home on a foundation. (Permanent construction does not include

initial land preparation, such as clearing, grading and filling; nor does it include the installation of streets and/or walkways; nor does it include excavation for a basement, footings, piers, or foundations or the erection of temporary forms; nor does it include the installation on the property of accessory buildings, such as garages or sheds, not occupied as dwelling units or not part of the main structure. For a substantial improvement, the actual start of construction means the first alteration of any wall, ceiling, floor, or other structural part of a building, whether or not that alteration affects the external dimensions of the building.

"State Coordinating Agency" The Tennessee Department of Economic and Community Development's, Local Planning Assistance Office as designated by the Governor of the State of Tennessee at the request of the Administrator to assist in the implementation of the National Flood Insurance Program for the state.

<u>"Structure"</u>, for purposes of this section, 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.

<u>"Substantial Damage"</u> means damage of any origin sustained by a structure whereby the cost of restoring the structure to its before damaged condition would equal or exceed 50 percent of the market value of the structure before the damage occurred.

"Substantial Improvement" means any repairs, reconstruction's, rehabilitation's, additions, alterations or other improvements to a structure, taking place during a 5-year period, in which the cumulative cost equals or exceeds fifty percent of the market value of the structure before the "start of construction" of the improvement. The market value of the structure should be (1) the appraised value of the structure prior to the start of the initial repair or improvement, or (2) in the case of damage, the value of the structure prior to the damage occurring. This term includes structures which have incurred "substantial damage", regardless of the actual repair work performed.

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

<u>"Substantially Improved Existing Manufactured Home Parks or Subdivisions"</u> 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.

<u>"Variance"</u> is a grant of relief from the requirements of this Resolution which permits construction in a manner otherwise prohibited by this Resolution where specific enforcement would result in unnecessary hardship.

"Violation" means 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 certification, or other evidence of compliance required in this Resolution is presumed to be in violation until such time as that documentation is provided.

"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 riverine areas.

ARTICLE III. GENERAL PROVISIONS

Section A. Application

This Resolution shall apply to all areas within the incorporated area of Loudon County, Tennessee.

Section B. Basis for Establishing the Areas of Special Flood Hazard

The Areas of Special Flood Hazard identified on the Loudon County, Tennessee, Federal Emergency Management Agency, Flood Insurance Study (FIS) and Flood Insurance Rate Map (FIRM), Community Panel Number 25, 75, 83, 84, 89, 92, 93, 94, 100, 111, 125, 150, 157, 159, 166, 167, 175, 176, 177, 178, 181, 200, 225, 275, 300, dated May 16, 2007, along with all supporting technical data, are adopted by reference and declared to be a part of this Resolution.

Section C. Requirement for Development Permit

A development permit shall be required in conformity with this Resolution prior to the commencement of any development activities.

Section D. Compliance

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

Section E. Abrogation and Greater Restrictions

This Resolution is not intended to repeal, abrogate, or impair any existing easements, covenants, or deed restrictions. However, where this Resolution conflicts or overlaps with another regulatory instrument, whichever imposes the more stringent restrictions shall prevail.

Section F. Interpretation

In the interpretation and application of this Resolution, 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 Tennessee statutes.

Section G. Warning and Disclaimer of Liability

The degree of flood protection required by this Resolution is considered reasonable for regulatory purposes and is based on scientific and engineering considerations. Larger floods can and will occur on rare occasions. Flood heights may be increased by man-made or natural causes. This Resolution 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 Resolution shall not create liability on the part of Loudon County, Tennessee or by any officer or employee thereof for any flood damages that result from reliance on this Resolution or any administrative decision lawfully made hereunder.

Section H. Penalties for Violation

Violation of the provisions of this Resolution or failure to comply with any of its requirements, including violation of conditions and safeguards established in connection with grants of variance shall constitute a misdemeanor punishable as other misdemeanors as provided by law. Each day such violation continues shall be considered a separate offense. Nothing herein contained shall prevent Loudon County, Tennessee from taking such other lawful actions to prevent or remedy any violation.

ARTICLE IV. ADMINISTRATION

Section A. Designation of Resolution Administrator

The Loudon County Building Commissioner is hereby appointed as the Administrator to implement the provisions of this Resolution.

Section B. Permit Procedures

Application for a development permit shall be made to the Administrator on forms furnished by the community prior to any development activities. The development permit may include, but is not limited to the following: plans in duplicate drawn to scale and showing the nature, location, dimensions, and elevations of the area in question; existing or proposed structures, earthen fill placement, storage of materials or equipment, and drainage facilities. 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 where BFE's are available, or to the highest adjacent grade when applicable under this Resolution.
- b. Elevation in relation to mean sea level to which any non-residential building will be flood-proofed where BFE's are available, or to the highest adjacent grade when applicable under this Resolution.
- c. Design certificate from a registered professional engineer or architect that the proposed non-residential flood-proofed building will meet the flood-proofing criteria in Article IV. Section B.
- d. Description of the extent to which any watercourse will be altered or relocated as a result of proposed development.

2. Construction Stage

Within unnumbered A zones, where flood elevation data are not available, the Administrator shall record the elevation of the lowest floor on the development permit. The elevation of the lowest floor shall be determined as the measurement of the lowest floor of the building relative to the highest adjacent grade.

For all new construction and substantial improvements, the permit holder shall provide to the Administrator an as-built certification of the regulatory floor elevation or floodproofing level upon the completion of the lowest floor or floodproofing. Within unnumbered A zones, where flood elevation data is not available, the

elevation of the lowest floor shall be determined as the measurement of the lowest floor of the building relative to the highest adjacent grade.

Any lowest floor certification made relative to mean sea level shall be prepared by or under the direct supervision of, a registered land surveyor and certified by same. When floodproofing is utilized for a non-residential 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 Administrator shall review the above-referenced certification data. Deficiencies detected by such review shall be corrected by the permit holder immediately and prior to further work being allowed to proceed. Failure to submit the certification or failure to make said corrections required hereby, shall be cause to issue a stop-work order for the project.

Section C. Duties and Responsibilities of the Administrator

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

- 1. Review of all development permits to assure that the permit requirements of this Resolution have been satisfied, and that proposed building sites will be reasonably safe from flooding.
- 2. Advice to 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. This shall include Section 404 of the Federal Water Pollution Control Act Amendments of 1972, 33 U. S. C. 1334.
- 3. Notification to adjacent communities and the Tennessee Department of Economic and Community Development, Local Planning Assistance Office, prior to any alteration or relocation of a watercourse, and submission of evidence of such notification to the Federal Emergency Management Agency.
- 4. For any altered or relocated watercourse, submit engineering data/analysis within six (6) months to the Federal Emergency Management Agency to ensure accuracy of community flood maps through the Letter of Map Revision process. Assure that the flood carrying capacity within an altered or relocated portion of any watercourse is maintained.
- 5. Record the elevation, in relation to mean sea level or the highest adjacent grade, where applicable of the lowest floor including basement of all new or substantially improved buildings, in accordance with Article IV. Section B.
- 6. Record the actual elevation; in relation to mean sea level or the highest adjacent grade, where applicable to which the new or substantially improved buildings have been flood-proofed, in accordance with Article IV. Section B.
- 7. When flood proofing is utilized for a structure, the Administrator shall obtain certification of design criteria from a registered professional engineer or architect, in accordance with Article IV. Section B.

- 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 Administrator shall make the necessary interpretation. Any person contesting the location of the boundary shall be given a reasonable opportunity to appeal the interpretation as provided in this Resolution.
- 9. When base flood elevation data or floodway data have not been provided by the Federal Emergency Management Agency then the Administrator shall obtain, review and reasonably utilize any base flood elevation and floodway data available from a Federal, State, or other sources, including data developed as a result of these regulations, as criteria for requiring that new construction, substantial improvements, or other development in Zone A on the Community FIRM meet the requirements of this Resolution.

Within unnumbered A zones, where base flood elevations have not been established and where alternative data is not available, the Administrator shall require the lowest floor of a building to be elevated or floodproofed to a level of at least three (3) feet above the highest adjacent grade (lowest floor and highest adjacent grade being defined in Article II of this Resolution). All applicable data including elevations or flood proofing certifications shall be recorded as set forth in Article IV. Section B.

10. All records pertaining to the provisions of this Resolution shall be maintained in the office of the Administrator and shall be open for public inspection. Permits issued under the provisions of this Resolution shall be maintained in a separate file or marked for expedited retrieval within combined files.

ARTICLE V. PROVISIONS FOR FLOOD HAZARD REDUCTION

Section A. General Standards

In all flood prone areas the following provisions are required:

- 1. New construction and substantial improvements to existing buildings shall be anchored to prevent flotation, collapse or lateral movement of the structure;
- 2. Manufactured homes shall be elevated and 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 to existing buildings shall be constructed with materials and utility equipment resistant to flood damage;
- 4. New construction or substantial improvements to existing buildings shall be constructed by methods and practices that minimize flood damage;
- 5. All 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;
- 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 Resolution, shall meet the requirements of "new construction" as contained in this Resolution; and,
- 10. Any alteration, repair, reconstruction or improvements to a building that is not in compliance with the provision of this Resolution, shall be undertaken only if said non-conformity is not further extended or replaced.

Section B. Specific Standards

These provisions shall apply to ALL Areas of Special Flood Hazard as provided herein:

1. Residential Construction. Where base flood elevation data is available, new construction or substantial improvement of any residential building (or manufactured home) shall have the lowest floor, including basement, elevated no lower than one (1) foot above the base flood elevation. Should solid foundation perimeter walls be used to elevate a structure, openings sufficient to facilitate equalization of flood hydrostatic forces on both sides of exterior walls and to ensure unimpeded movement of floodwater shall be provided in accordance with the standards of Article V. Section B.

Within unnumbered A zones, where base flood elevations have not been established and where alternative data is not available, the Administrator shall require the lowest floor of a building to be elevated or floodproofed to a level of at least three (3) feet above the highest adjacent grade (lowest floor and highest adjacent grade being defined in Article II of this Resolution). All applicable data including elevations or flood proofing certifications shall be recorded as set forth in Article IV. Section B.

2. <u>Non-Residential Construction</u>. New construction or substantial improvement of any commercial, industrial, or non-residential building, when BFE data is available, shall have the lowest floor, including basement, elevated or floodproofed no lower than one (1) foot above the level of the base flood elevation.

Within unnumbered A zones, where base flood elevations have not been established and where alternative data is not available, the Administrator shall require the lowest floor of a building to be elevated or floodproofed to a level of at least three (3) feet above the highest adjacent grade (lowest floor and highest adjacent grade being defined in Article II of this Resolution). All applicable data including elevations or flood-proofing certifications shall be recorded as set forth in Article IV. Section B.

Buildings located in all A-zones may be floodproofed, in lieu of being elevated, provided that all areas of the building below the required elevation are watertight, with walls substantially impermeable to the passage of water, and are built with structural components having the capability of resisting hydrostatic and hydrodynamic loads and the effects of buoyancy. A registered professional engineer or architect shall certify that the design and methods of construction are in

accordance with accepted standards of practice for meeting the provisions above, and shall provide such certification to the Administrator as set forth in Article IV. Section B.

- Blevated Building. All new construction or substantial improvements to existing buildings that include ANY fully enclosed areas formed by foundation and other exterior walls below the base flood elevation, or required height above the highest adjacent grade, shall be designed to preclude finished living space and designed to allow for the entry and exit of flood waters 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.
 - 1) 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;
 - 2) The bottom of all openings shall be no higher than one foot above the finish grade; and
 - 3) Openings may be equipped with screens, louvers, valves or other coverings or devices provided they permit the automatic flow of floodwaters in both directions.
 - b. 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 elevated living area (stairway or elevator); and
 - c. The interior portion of such enclosed area shall not be partitioned or finished into separate rooms in such a way as to impede the movement of floodwaters and all such petitions shall comply with the provisions of Article V. Section B. of this Resolution.

4. Standards for Manufactured Homes and Recreational Vehicles

- a. All manufactured homes placed, or substantially improved, on: (1) individual lots or parcels, (2) in expansions to existing manufactured home parks or subdivisions, or (3) in new or substantially improved manufactured home parks or subdivisions, must meet all the requirements of new construction, including elevations and anchoring.
- b. All manufactured homes placed or substantially improved in an existing manufactured home park or subdivision must be elevated so that either:
 - 1) When base flood elevations are available the lowest floor of the manufactured home is elevated on a permanent foundation no lower than one (1) foot above the level of the base flood elevation; or,
 - 2) Absent base flood elevations the manufactured home chassis is elevated and supported by reinforced piers (or other foundation elements) at least three (3) feet in height above the highest adjacent grade.

- c. Any manufactured home which has incurred "substantial damage" as the result of a flood or that has substantially improved must meet the standards of Article V. Section B. 4 of this Resolution.
- d. All manufactured homes must be securely anchored to an adequately anchored foundation system to resist flotation, collapse and lateral movement.
- e. All recreational vehicles placed on identified flood hazard sites must either:
 - 1) Be on the site for fewer than 180 consecutive days;
 - 2) Be fully licensed and ready for highway use. (A recreational vehicle is ready for highway use if it is licensed, on its wheels or jacking system, attached to the site only by quick disconnect type utilities and security devices, and has no permanently attached structures or additions.
 - 3) The recreational vehicle must meet all the requirements for new construction, including the anchoring and elevation requirements of this section above if on the site for longer than 180 consecutive days.

5. Standards for Subdivisions

Subdivisions and other proposed new developments, including manufactured home parks, shall be reviewed to determine whether such proposals will be reasonably safe from flooding. If a subdivision proposal or other proposed new development is in a flood-prone area, any such proposals shall be reviewed to ensure that:

- a. All subdivision proposals shall be consistent with the need to minimize flood damage.
- b. All subdivision proposals shall have public utilities and facilities such as sewer, gas, electrical and water systems located and constructed to minimize or eliminate flood damage.
- c. All subdivision proposals shall have adequate drainage provided to reduce exposure to flood hazards.
- d. Base flood elevation data shall be provided for subdivision proposals and other proposed developments (including manufactured home parks and subdivisions) that are greater than fifty lots and/or five acres in area.

Section C. Standards for Areas of Special Flood Hazard with Established Base Flood Elevations and With Floodways Designated

Located within the Areas of Special Flood Hazard established in Article III. Section B, are areas designated as floodways. A floodway may be an extremely hazardous area due to the velocity of floodwaters, debris or erosion potential. In addition, the area must remain free of encroachment in order to allow for the discharge of the base flood without increased flood heights and velocities. Therefore, the following provisions shall apply:

1. Encroachments are prohibited, including earthen fill material, new construction, substantial improvements or other developments within the regulatory floodway. Development may be permitted however, provided it is demonstrated through hydrologic and hydraulic analyses performed in accordance with standard

engineering practices that the cumulative effect of the proposed encroachments or new development, when combined with all other existing and anticipated development, shall not result in ANY increase the water surface elevation of the base flood level, velocities or floodway widths during the occurrence of a base flood discharge at any point within the community. A registered professional engineer must provide supporting technical data and certification thereof.

2. New construction or substantial improvements of buildings shall comply with all applicable flood hazard reduction provisions of Article V.

Section D. Standards for Areas of Special Flood Hazard Zones AE with Established Base Flood Elevations but Without Floodways Designated

Located within the Areas of Special Flood Hazard established in Article III. Section B, where streams exist with base flood data provided but where no floodways have been designated, (Zones AE) the following provisions apply:

- 1. No encroachments, including fill material, new structures or substantial improvements 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 (1) foot at any point within the community. The engineering certification should be supported by technical data that conforms to standard hydraulic engineering principles.
- 2. New construction or substantial improvements of buildings shall be elevated or flood-proofed to elevations established in accordance with Article V. Section B.

Section E. <u>Standards for Streams without Established Base Flood</u> Elevations or Floodways (A Zones)

Located within the Areas of Special Flood Hazard established in Article III, where streams exist, but no base flood data has been provided (A Zones), OR where a Floodway has not been delineated, the following provisions shall apply:

- 1. When base flood elevation data or floodway data have not been provided in accordance with Article III, then the Administrator shall obtain, review and reasonably utilize any scientific or historic base flood elevation and floodway data available from a Federal, State or other source, in order to administer the provisions of Article V. ONLY if data is not available from these sources, then the following provisions (2 & 3) shall apply:
- 2. No encroachments, including structures or fill material, shall be located within an area equal to the width of the stream or twenty feet, whichever is greater, measured from the top of the stream bank, unless certification by 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 (1) foot at any point within the community. The engineering certification should be supported by technical data that conforms to standard hydraulic engineering principles.

3.In special flood hazard areas without base flood elevation data, new construction or substantial improvements of existing shall have the lowest floor of the lowest enclosed area (including basement) elevated no less than three (3) feet above the highest adjacent grade at the building site. Openings sufficient to facilitate the unimpeded movements of floodwaters shall be provided in accordance with the standards of Article V, Section B, and "Elevated Buildings".

Section F. Standards For Areas of Shallow Flooding (AO and AH Zones)

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

- 1. All new construction and substantial improvements of residential and non-residential buildings shall have the lowest floor, including basement, elevated to at least one (1') foot above the flood depth number specified on the Flood Insurance Rate Map (FIRM), in feet, above the highest adjacent grade. If no flood depth number is specified, the lowest floor, including basement, shall be elevated, at least three (3) feet above the highest adjacent grade. Openings sufficient to facilitate the unimpeded movements of floodwaters shall be provided in accordance with standards of Article V, Section B, and "Elevated Buildings".
- 2. All new construction and substantial improvements of nonresidential buildings may be flood-proofed in lieu of elevation. The structure together with attendant utility and sanitary facilities must be flood proofed and designed watertight to be completely flood-proofed to at least one (1') foot above the specified FIRM flood level, with walls substantially impermeable to the passage of water and with structural components having the capability of resisting hydrostatic and hydrodynamic loads and the effects of buoyancy. If no depth number is specified, the lowest floor, including basement, shall be flood proofed to at least three (3) feet above the highest adjacent grade. A registered professional engineer or architect shall certify that the design and methods of construction are in accordance with accepted standards of practice for meeting the provisions of this Resolution and shall provide such certification to the Administrator as set forth above and as required in Article IV, Section B.
- 3. Adequate drainage paths shall be provided around slopes to guide floodwaters around and away from proposed structures.
- 4. The Administrator shall certify the elevation or the highest adjacent grade, where applicable, and the record shall become a permanent part of the permit file.

Section G. Standards For Areas Protected by Flood Protection System (A-99 Zones)

Located within the areas of special flood hazard established in Article III. Are areas of the 100-year floodplain protected by a flood protection system but where base flood elevations and flood hazard factors have not been determined. Within these areas (A-99 Zones) all provisions of Article IV. and Article V. Section A. shall apply.

Section H. Standards for Unmapped Streams

Located within Loudon County, Tennessee are unmapped streams where areas of special flood hazard are neither indicated nor identified. Adjacent to such streams the following provisions shall apply:

- 1. In areas adjacent to such unmapped streams, no encroachments including fill material or structures shall be located within an area of at least equal to twice the width of the stream, measured from the top of each stream bank, 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 (1) foot at any point within the locality.
- 2. When new elevation data is available, new construction or substantial improvements of buildings shall be elevated or flood proofed to elevations established in accordance with Article IV.

ARTICLE VI. VARIANCE PROCEDURES

The provisions of this section shall apply exclusively to Areas of Special Flood Hazard within the unincorporated areas of Loudon County, Tennessee.

Section A. Board of Appeals

1. Creation and Appointment

A Board of Appeals is hereby established which shall consist of three (3)/five (5) members appointed by the Chief Executive Officer. The term of membership shall be four (4) years except that the initial individual appointments to the Board of Appeals shall be terms of one, two, and three years respectively. Vacancies shall be filled for any unexpired term by the Chief Executive Officer.

2. Procedure

Meetings of the Board of Appeals shall be held at such times as the Board shall determine. All meetings of the Board of Appeals shall be open to the public. The Board of Appeals shall adopt rules of procedure and shall keep records of applications and actions thereon, which shall be a public record. Compensation of the members of the Board of Appeals shall be set by the Legislative Body.

3. Appeals: How Taken

An appeal to the Board of Appeals may be taken by any person, firm or corporation aggrieved or by any governmental officer, department, or bureau affected by any decision of the Administrator based in whole or in part upon the provisions of this Resolution. Such appeal shall be taken by filing with the Board of Appeals a notice of appeal, specifying the grounds thereof. In all cases where an appeal is made by a property owner or other interested party, a fee of \$100.00 dollars for the cost of publishing a notice of such hearings shall be paid by the appellant. The

Administrator shall transmit to the Board of Appeals all papers constituting the record upon which the appeal action was taken. The Board of Appeals shall fix a reasonable time for the hearing of the appeal, give public notice thereof, as well as due notice to parties in interest and decide the same within a reasonable time which shall not be more than _thirty days from the date of the hearing. At the hearing, any person or party may appear and be heard in person or by agent or by attorney.

4. Powers

The Board of Appeals shall have the following powers:

a. Administrative Review

To hear and decide appeals where it is alleged by the applicant that there is error in any order, requirement, permit, decision, determination, or refusal made by the Administrator or other administrative official in the carrying out or enforcement of any provisions of this Resolution.

b. <u>Variance Procedures</u>

In the case of a request for a variance the following shall apply:

- 1) The Loudon County County Board of Zoning Appeals shall hear and decide appeals and requests for variances from the requirements of this Resolution.
- 2) Variances may be issued for the repair or rehabilitation of historic structures (see definition) 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.
- 3) In passing upon such applications, the Board of Appeals shall consider all technical evaluations, all relevant factors, all standards specified in other sections of this Resolution, and:
 - a) The danger that materials may be swept onto other property to the injury of others;
 - b) The danger to life and property due to flooding or erosion;
 - c) The susceptibility of the proposed facility and its contents to flood damage;
 - d) The importance of the services provided by the proposed facility to the County;
 - e) The necessity of the facility to a waterfront location, in the case of a functionally dependent facility;
 - f) The availability of alternative locations, not subject to flooding or erosion damage, for the proposed use;

- g) The relationship of the proposed use to the comprehensive plan and floodplain management program for that area;
- h) The safety of access to the property in times of flood for ordinary and emergency vehicles;
- i) 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;
- j) 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.
- 4) Upon consideration of the factors listed above, and the purposes of this Resolution, the Board of Appeals may attach such conditions to the granting of variances, as it deems necessary to effectuate the purposes of this Resolution.
- 5) Variances shall not be issued within any designated floodway if any increase in flood levels during the base flood discharge would result.

Section B. Conditions for Variances

- 1. Variances shall be issued upon a determination that the variance is the minimum relief necessary, considering the flood hazard; and in the instance of a historical building, a determination that the variance is the minimum relief necessary so as not to destroy the historic character and design of the building.
- 2. Variances shall only be issued upon: a showing of good and sufficient cause, a determination that failure to grant the variance would result in exceptional hardship; and 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 Resolutions.
- 3. Any applicant to whom a variance is granted shall be given written notice that the issuance of a variance to construct a structure below the base flood level will result in increased premium rates for flood insurance, and that such construction below the base flood level increases risks to life and property.
- 4. The Administrator shall maintain the records of all appeal actions and report any variances to the Federal Emergency Management Agency upon request.

ARTICLE VII. LEGAL STATUS PROVISIONS

Section A. Conflict with Other Resolutions

In case of conflict between this Resolution or any part thereof, and the whole or part of any existing or future Resolution of Loudon_County, Tennessee, the most restrictive shall in all cases apply.

Section B.	Validity
DOCUMENTA DI	T CONTRACT

If any section, clause, provision, or portion of this Resolution shall be held to be invalid or unconstitutional by any court of competent jurisdiction, such holding shall not affect any other section, clause, provision, or portion of this Resolution which is not of itself invalid or unconstitutional.

Section C. Effective Date

This Resolution shall become effective immediately after its passage, by Loudon_County, Tennessee, the public welfare demanding it.

Recommended by the Loudon County, Tennessee Regional Planning Commission.

Date	*	
Approved and adopted by the Loudon County,	Tennessee Board of Coun	ty Commissioners.
	¥	
Date		
Mayor of Loudon County, Tennessee		
Mayor of Loudon County, Tennessee		
Attest:		
County Clerk		